

STATE MAP & QR LOCATION CODE



SITE NAME: CW ROCKPORT
SITE NO.: 444555
VOLTE WAVE 3.5
150' MONOPOLE

U.S. Cellular
8410 W. BRYN MAWR AVE
CHICAGO, IL 60631

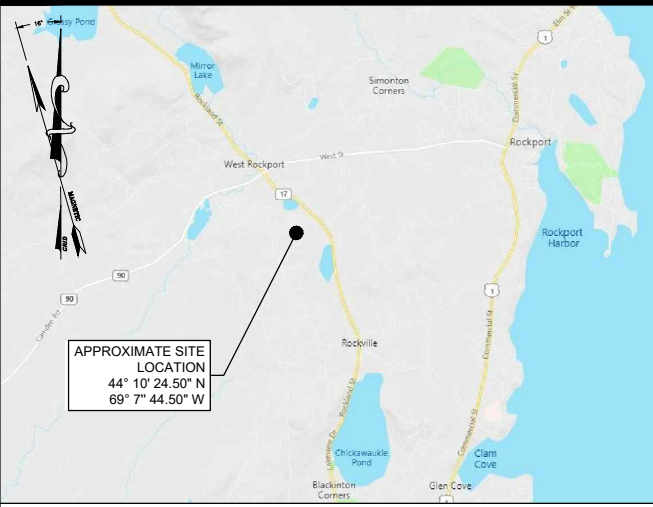
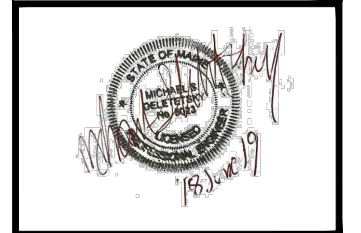
CW ROCKPORT
SITE NO.: 444555

CONSTRUCTION DRAWINGS	
A	5/31/19 ISSUED FOR REVIEW

wood.
511 Congress Street, Portland ME 04101
(207) 775-5401

PROJECT COORDINATION & MANAGEMENT

KJK WIRELESS
Phone: (603) 888-8974 127 Ridge Road, Nashua, NH 03062



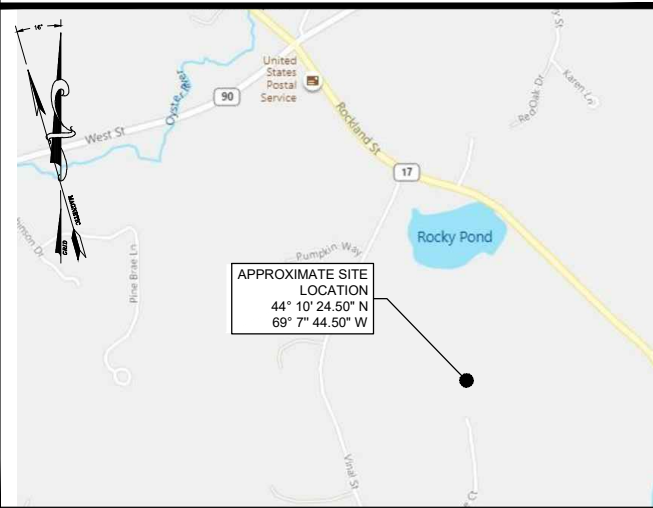
VICINITY MAP

TOWER SCOPE:

- INSTALL NEW 150' MONOPOLE
- INSTALL NEW ANTENNA SECTOR MOUNT
- INSTALL (3) NEW ANTENNAS
- INSTALL (3) NEW REMOTE RADIO UNITS
- INSTALL (1) NEW RAYCAP
- INSTALL (1) NEW HYBRID CABLE
- GROUND ALL EQUIPMENT

COMPOUND SCOPE:

- ERECT 50' X 50' CHAIN LINK FENCE COMPOUND
- INSTALL NEW UTILITY RACK WITH METER AND POWER CABINET
- BRING POWER AND TELCO SERVICE TO UTILITY RACK FROM UTILITY POLE VIA UNDERGROUND CONDUITS
- INSTALL (1) NEW RAYCAP SPD ON ICEBRIDGE W/ UNISTRUT
- INSTALL 8'-0"x8'-0" STEEL EQUIPMENT PLATFORM
- INSTALL (2) EQUIPMENT CABINETS ON EQUIPMENT PLATFORM
- INSTALL NEW ICE BRIDGE
- INSTALL LOWER RAYCAP ON NEW ICE BRIDGE
- BRING POWER AND TELCO SERVICE TO EQUIPMENT PLATFORM FROM UTILITY RACK VIA UNDERGROUND CONDUITS
- ROUTE (1) NEW HYBRID CABLE TO TOWER VIA ICE BRIDGE
- GROUND ALL EQUIPMENT & TIE IN TO GROUNDING SYSTEM



LOCATION MAP

SITE NUMBER:
444555

SITE NAME:
CW ROCKPORT

TOWER TYPE:
150'± TALL MONOPOLE

SITE ADDRESS:
0 VINAL ST.
ROCKPORT, ME 04856

LAND OWNER:
BAILEY, KATHELEN SALMINEN
55 HOLMES BROOK LN
WINTHROP, ME 04364

TOWER OWNER:
U.S. CELLULAR
8410 W. BRYN MAWR AVE
CHICAGO, IL 60631

APPLICANT:
DAVE SHARP, PMP
SENIOR PROJECT MANAGER - U.S. CELLULAR
10 CORPORATE DRIVE, SUITE 210
BEDFORD, NH 03110
PHONE #: (603) 562-5315

COORDINATES
LATITUDE: 44° 10' 24.50" N (NAD83)
LONGITUDE: 69° 7' 44.50" W (NAD83)

SHEET #	DESCRIPTION
T-1	TITLE SHEET
C-1	AERIAL SITE PLAN
C-2	ABUTTERS PLAN
C-3	ACCESS LEASE AREA & DESCRIPTIONS PLAN
C-4	PROPOSED ACCESS GRADING AND EROSION CONTROL PLAN
C-5	ACCESS ROAD PROFILE
C-6	SITE GRADING PLAN
C-6A	COMPOUND & EQUIPMENT PLANS
C-7	ELEVATIONS
C-8	EQUIPMENT PLATFORM DETAILS
C-9	CONSTRUCTION DETAILS
C-10	EQUIPMENT DETAILS
C-11	RF PLUMBING DIAGRAM
C-12	RF CONFIGURATION & ANTENNA SPECIFICATION
C-13	COLOR CODING & RAYCAP DETAILS
C-14	CIVIL DETAILS
C-15	EROSION AND SEDIMENT CONTROL DETAILS
E-1	SCHEMATIC GROUNDING PLAN
E-2	GROUNDING DETAILS
G-1	GENERAL NOTES
G-2	SOIL EROSION AND SEDIMENT CONTROL NOTES

SHEET INDEX

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE USCC PROJECT MANAGER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

A.D.A. COMPLIANCE:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

LTE SCOPE

PROJECT SUMMARY

GENERAL DISCLAIMERS

DRAWN BY: BRT

REVIEWED BY: RWB

CHECKED BY: MSD

PROJECT NUMBER: 3618198678

JOB NUMBER: 444555

SITE ADDRESS

0 VINAL ST.
ROCKPORT, ME 04856

SHEET TITLE

TITLE SHEET

SHEET NUMBER



U.S. Cellular
 8410 W. BRYN MAWR AVE
 CHICAGO, IL 60631

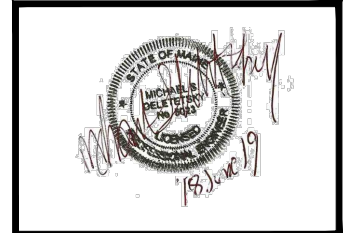
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SITE NO.: 444555

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B	6/14/19	CLIENT COMMENTS
A	5/31/19	ISSUED FOR REVIEW

wood.
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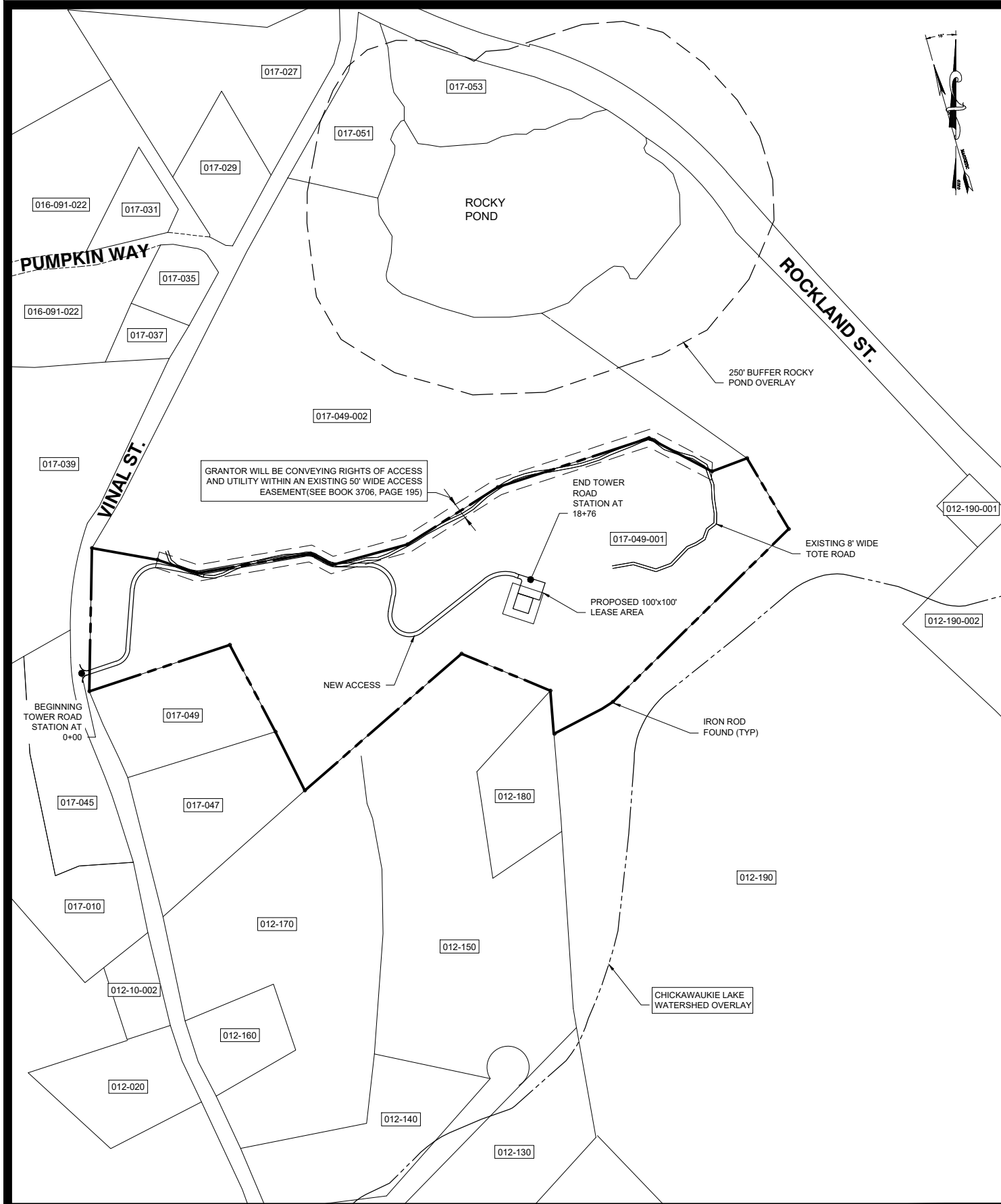
SITE ADDRESS
 0 VINAL ST.
 ROCKPORT, ME 04856

SHEET TITLE
AERIAL SITE PLAN
 SHEET NUMBER

AERIAL SITE PLAN
 SCALE: N.T.S. **1**

NOTES:
 1. AERIAL IMAGE TAKEN FROM BING MAPS ON 05/16/19.
 2. NORTH SHOWN AS APPROXIMATE.
 3. EXISTING FOLIAGE IN CLOSE PROXIMITY TO THE DEVELOPMENT INCLUDES APPROXIMATELY 70% CONIFEROUS TREES (75' - 85' IN HT. ON AVG.) AND 30% DECIDUOUS TREES (35' - 55' IN HT. ON AVERAGE). SUCH FOLIAGE WILL BE MAINTAINED AS A BUFFER TO THE GREATEST EXTENT PRACTICABLE

C-1



LIST OF ABUTTERS		
TOWN OF ROCKPORT		
017-049-002	FIST, JODY L & RUSSELL, NATHAN S	PO BOX 1001 ROCKLAND, ME 04841
012-190-002	LODGE RIDGE, LLC	11 TANNERY LN CAMDEN, ME 04843
012-150	BAUER, LUCIE F & KIERMAIER, ANNIE G	PO BOX 308 W ROCKPORT, ME 04865
017-049	CALINDA, MARTHA	300 VINAL STREET ROCKPORT, ME 04856
017-047	DUMICA, SUSAN J & ARTHUR M JR	PO BOX 1 W ROCKPORT, ME 04865-0001
012-170	MITCHELL, MICHAEL S & REBECA	283 VINAL ST. ROCKPORT, ME 04856
017-051	HALL, JOANNA	401 VINAL ST. ROCKPORT, ME 04856
012-180	BAUER, LUCIE F & KIERMAIER, ANNIE G	PO BOX 308 W ROCKPORT, ME 04865
017-039	SULIN, DAVID A, PR EST OF AIMO J SULIN SULIN, JOSPHINE	2 PINE WOOD LN., ROCKPORT, ME 04856
017-045	CALINDA, MARTHA	300 VINAL ST., ROCKPORT, ME 04856

NOTE:
ALL ADJOINING PROPERTIES IN CLOSE PROXIMITY TO THE PROPOSED DEVELOPMENT ARE UNDEVELOPED EXCEPT FOR PARCEL 12-180 WHICH IS RESIDENTIAL

- GENERAL NOTES**
- DATES OF FIELD SURVEY: 05/29/19
 - SITE NAME: ROCKPORT
 - SITE NUMBER: 444555
 - TOWER TYPE: MONOPOLE
 - SITE ADDRESS: 0 VINAL ST. ROCKPORT, ME 04856 KNOX COUNTY
 - PROPERTY OWNER: BAILEY, KATHLEEN SALMINEN 55 HOLMES BROOK LN WINTHROP, ME 04364 KENNEBEC COUNTY
 - APPLICANT: U.S. CELLULAR c/o KJK WIRELESS 127 RIDGE RD. NASHUA, NH 03062 (603)888-8974
 - POWER COMPANY: CENTRAL ME POWER 1-800-363-7211
 - TELCO COMPANY: FAIRPOINT 1-800-400-5568
 - CEO OF MUNICIPALITY: NICOLE MARTIN 207-435-7765
 - JURISDICTION: TOWN OF ROCKPORT
 - ZONING DISTRICT: RURAL ZONE
 - TAX IDENTIFICATION: 184401 DEED BOOK/PAGE: B3706/P0195
 - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAD88)
 - HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
 - CENTER OF PROPOSED TOWER: LATITUDE: 44° 10' 24.50"N (NAD 83) LONGITUDE: 69° 7' 44.50"W (NAD 83) GROUND EL. = 428.30
 - BEARINGS ARE BASED ON MAINE STATE GRID COORDINATE SYSTEM, EAST ZONE, (NAD83)
 - ALL UNDERGROUND UTILITY INFORMATION PRESENTED HERE ON 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 DIG SAFE 1(887) 344-7233 A MINIMUM OF 72 HOURS PRIOR TO PLANNED ACTIVITY.
 - PROPERTY IS LOCATED IN FLOOD ZONE "X" AS SHOWN ON FLOOD INSURANCE RATE MAP IN THE TOWN OF ROCKPORT MAINE, KNOX COUNTY. COMMUNITY PANEL NUMBER 230/3C-0170-D, EFFECTIVE DATE JULY 06, 2016. ZONE X IS DEFINED AS AN AREA OF MINIMAL FLOODING.

LEGEND	
---	LEASE AREA
- - - -	ACCESS/UTILITY EASEMENT
---	PROPERTY LINE
---	FENCE LINE
○	IRON PIN FOUND (AS NOTED)
□	MONUMENT (AS NOTED)
⊙	UTILITY POLE

FAA CERTIFICATION - 1A

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

+/- THREE (3) FEET VERTICALLY
+/- TWENTY (20) FEET HORIZONTALLY

JEROME B. WATTS
LICENSED LAND SURVEYOR #1245

DATE _____

1 ABUTTERS PLAN
SCALE: 1"= 200'

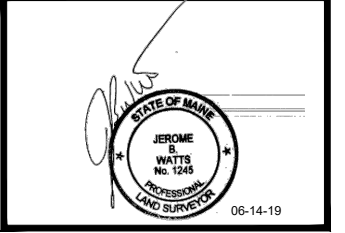


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SITE NO.: 444555

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CHECKED BY: MSD

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JOB NUMBER: 444555

SITE ADDRESS
**0 VINAL ST.
ROCKPORT, ME 04856**

SHEET TITLE

ABUTTERS PLAN

SHEET NUMBER



8410 W. BRYN MAWR AVE
CHICAGO, IL 60631

CW ROCKPORT

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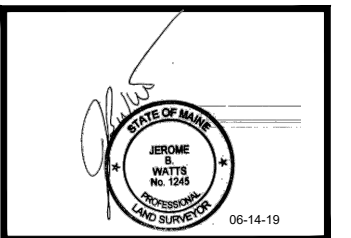


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ROCKPORT, ME 04856

SHEET TITLE

ACCESS LEASE AREA
&
DESCRIPTIONS PLAN

SHEET NUMBER

C-3

DESCRIPTION OF TOWER LEASE AREA
LOCATED ON
BAILEY PROPERTY

A CERTAIN PARCEL OF LAND IN THE TOWN OF ROCKPORT, KNOX COUNTY, MAINE, LYING EASTERLY AND ADJACENT TO VINAL ROAD AND BEING A PORTION OF LAND OWNED BY KATHLEEN SALMINEN BAILEY AS DESCRIBED IN BOOK 3706, PAGE 195, FOR CONVEYING A 10,000 SQUARE FOOT TOWER LEASE AREA, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A CAPPED IRON ROD PLS 1245 SET ON THE MOST NORTHWESTERLY CORNER OF SAID 10,000 SQUARE FOOT TOWER LEASE AREA LYING ON A COURSE OF S 85° 16' 53" E, 1301.71 FEET FROM AN IRON ROD FOUND MARKING THE MOST NORTHWESTERLY CORNER OF LAND OWNED BY THE GRANTOR AND EASTERLY SIDELINE OF SAID VINAL ROAD;

THENCE, S 71° 55' 44" E, 100.00 FEET TO A CAPPED IRON ROD SET;

THENCE, S 18° 04' 16" W, 100.00 FEET TO A CAPPED IRON ROD SET;

THENCE, N 71° 55' 44" W, 100.00 FEET TO A CAPPED IRON ROD SET;

THENCE, N 18° 04' 16" E, 100.00 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED PARCEL CONTAINS 10,000 SQUARE FEET.

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

DESCRIPTION OF ACCESS - UTILITY EASEMENT

EXISTING EASEMENT
THE ABOVE DESCRIBED 10,000 SQUARE FOOT TOWER LEASE AREA ALSO INCLUDES ANY RIGHTS THE GRANTOR MAY HAVE IN COMMON WITH OTHERS OF A 50 FOOT WIDE RIGHT OF WAY FOR ACCESS AND UTILITIES DESCRIBED IN SAID BOOK 3706, PAGE 195 WITH FURTHER REFERENCED TO A PLAN ENTITLED "BOUNDARY SURVEY FOR MARION E. SALMINEN, 300 VINAL ROAD, ROCKPORT, KNOX COUNTY, MAINE" RECORDED IN CABINET 18, SHEET 167.

ALSO, INCLUDING RIGHTS OF ACCESS AND UTILITIES WITHIN THE FOLLOWING DESCRIBED 50-FOOT-WIDE STRIPS OF LAND ALLOWING ACCESS AND UTILITY RIGHTS FROM THE EASTERLY SIDELINE OF SAID VINAL ROAD AND EXTENDING IN A GENERAL EASTERLY DIRECTION TO THE ABOVE DESCRIBED 10,000 SQUARE FOOT TOWER LEASE AREA, BOUNDED AND DESCRIBED AS FOLLOWS:

EASEMENT NUMBER 1

BEGINNING AT A POINT ON THE EASTERLY SIDELINE OF SAID VINAL ROAD LYING ON A COURSE OF S 03° 43' 42" W, 362.05 FROM AN IRON ROD FOUND MARKING THE MOST NORTHWESTERLY CORNER OF LAND OWNED BY THE GRANTOR AND EASTERLY SIDELINE OF SAID VINAL ROAD;

THENCE, N 71° 31' 50" E, 81.96 FEET TO A POINT;

THENCE, EXTENDING IN A NORTHERLY DIRECTION ON A CURVE TO THE LEFT HAVING A RADIUS OF 50.00 FEET AND ARC LENGTH OF 58.59 FEET TO A POINT;

THENCE, N 04° 23' 36" E, 171.39 FEET TO A POINT;

THENCE, EXTENDING IN A NORTHEASTERLY DIRECTION ON A CURVE TO THE RIGHT HAVING A RADIUS OF 100.16 FEET AND ARC LENGTH OF 61.76 FEET TO A POINT;

THENCE, N 78° 47' 53" W, 136.41 FEET TO THE POINT ON THE EASTERLY SIDELINE OF SAID VINAL ROAD;

THENCE, EXTENDING ALONG SAID VINAL ROAD IN A NORTHERLY DIRECTION ON A CURVE TO THE RIGHT HAVING A RADIUS OF 886.10 FEET AND ARC LENGTH OF 20.02 FEET TO A POINT;

THENCE, S 78° 47' 53" E, 149.87 FEET TO THE POINT;

THENCE, EXTENDING IN A NORTHEASTERLY DIRECTION ON A CURVE TO THE RIGHT HAVING A RADIUS OF 100.16 FEET AND ARC LENGTH OF 39.32 FEET TO A POINT ON THE GRANTORS PROPERTY LINE;

THENCE, S 80° 02' 05" E, ALONG SAID PROPERTY LINE TO AN EXISTING 50-FOOT-WIDE RIGHT OF WAY, 24.53 TO AN IRON ROD FOUND ON AN EXISTING 50-FOOT-WIDE RIGHT OF WAY;

THENCE, S 14° 24' 50" W, ALONG AN EXISTING 50-FOOT-WIDE RIGHT OF WAY, 25.07 FEET TO A POINT;

THENCE, S 71° 13' 10" E, ALONG AN EXISTING 50-FOOT-WIDE RIGHT OF WAY, 116.87 FEET TO A POINT;

THENCE, N 79° 15' 41" W, 97.23 FEET TO A POINT;
THENCE, EXTENDING IN A SOUTHERLY DIRECTION ON A CURVE TO THE LEFT HAVING A RADIUS OF 50.16 FEET AND ARC LENGTH OF 84.34 FEET TO A POINT;

THENCE, S 04° 23' 36" W, 171.39 FEET TO A POINT;

THENCE, EXTENDING IN A SOUTHWESTERLY DIRECTION ON A CURVE TO THE RIGHT HAVING A RADIUS OF 100.00 FEET AND ARC LENGTH OF 117.18 FEET TO A POINT;

THENCE, S 71° 31' 50" W, 89.68 FEET TO A POINT ON THE EASTERLY SIDE LINE OF SAID VINAL ROAD;

THENCE, EXTENDING ALONG SAID VINAL ROAD IN A NORTHERLY DIRECTION ON A CURVE TO THE RIGHT HAVING A RADIUS OF 886.10 FEET AND ARC LENGTH OF 50.60 FEET TO THE POINT OF BEGINNING;

THE ABOVE DESCRIBED EASEMENT CONTAINS 26,398 SQUARE FEET / 0.61 ACRES.

EASEMENT NUMBER 2

BEGINNING AT A CAPPED IRON ROD SET ON THE MOST NORTHWESTERLY CORNER OF THE ABOVE DESCRIBED 10,000 SQUARE FOOT TOWER LEASE AREA:

THENCE, EXTENDING IN A WESTERLY DIRECTION ON A CURVE TO THE LEFT HAVING A RADIUS OF 75.00 FEET AND ARC LENGTH OF 73.54 FEET TO A POINT;

THENCE, S 51° 53' 22" E, 249.92 FEET TO A POINT;

THENCE, EXTENDING IN A WESTERLY AND NORTHERLY DIRECTION ON A CURVE TO THE RIGHT HAVING A RADIUS OF 85.00 FEET AND ARC LENGTH OF 205.46 FEET TO A POINT;

THENCE, N 10° 23' 10" E, 51.00 FEET TO THE POINT;

THENCE, EXTENDING IN A NORTHWESTERLY DIRECTION ON A CURVE TO THE LEFT HAVING A RADIUS OF 55.00 FEET AND ARC LENGTH OF 96.50 FEET TO A POINT;

THENCE, S 89° 51' 24" W, 96.64 FEET TO THE POINT;

THENCE, N 74° 36' 21" E, ALONG SAID EXISTING 50-FOOT-WIDE RIGHT OF WAY, 154.27 TO A POINT;

THENCE, EXTENDING IN A SOUTHERLY DIRECTION ON A CURVE TO THE RIGHT HAVING A RADIUS OF 105.00 FEET AND ARC LENGTH OF 139.42 FEET TO A POINT;

THENCE, S 10° 23' 10" W, 51.00 FEET TO THE POINT;

THENCE, EXTENDING IN A SOUTHEASTERLY DIRECTION ON A CURVE TO THE LEFT HAVING A RADIUS OF 35.00 FEET AND ARC LENGTH OF 84.60 FEET TO A POINT;

THENCE, N 51° 53' 22" E, 249.92 FEET TO THE POINT;

THENCE, EXTENDING IN A NORTHEASTERLY DIRECTION ON A CURVE TO THE RIGHT HAVING A RADIUS OF 125.00 FEET AND ARC LENGTH OF 122.57 FEET TO A POINT;

THENCE, S 71° 55' 44" E, 100.00 FEET TO A POINT;

THENCE, S 18° 04' 16" W, 50.00 FEET TO AN IRON ROD SET ON THE NORTHEASTERLY CORNER OF SAID 10,000 SQUARE FOOT TOWER LEASE AREA;

THENCE, N 71° 55' 44" W, ALONG SAID TOWER LEASE AREA, 100.00 FEET TO THE POINT OF BEGINNING.

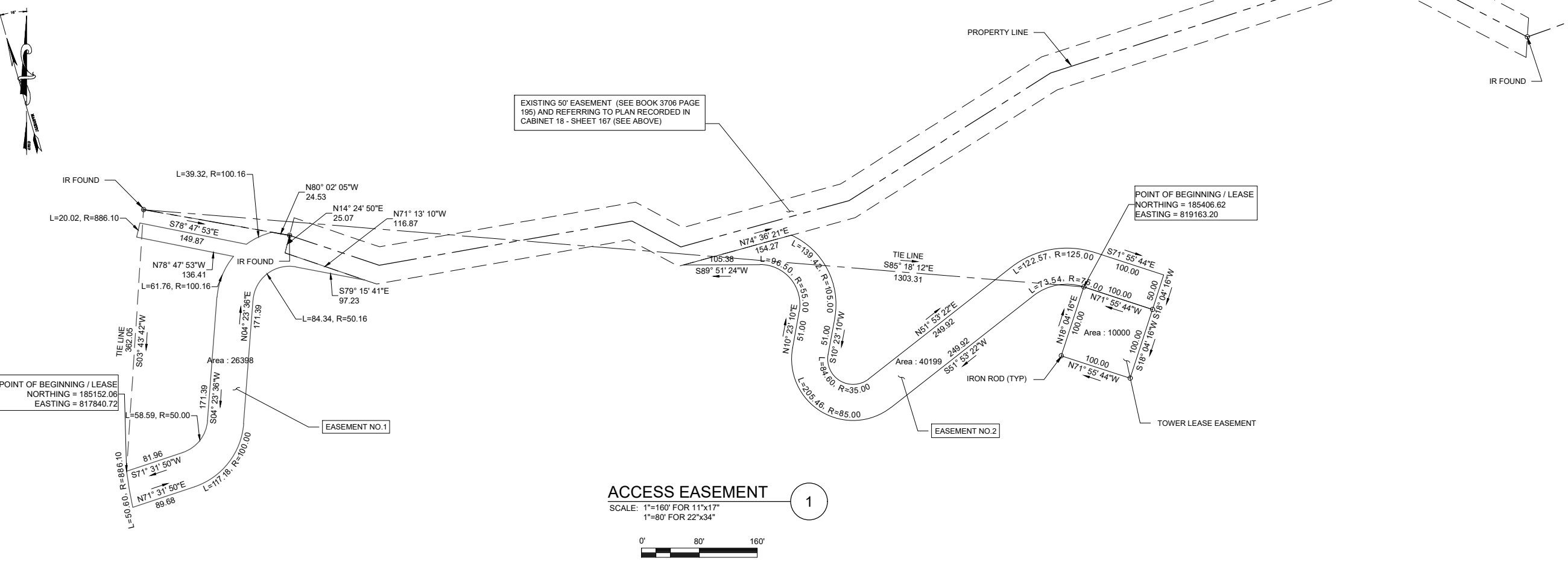
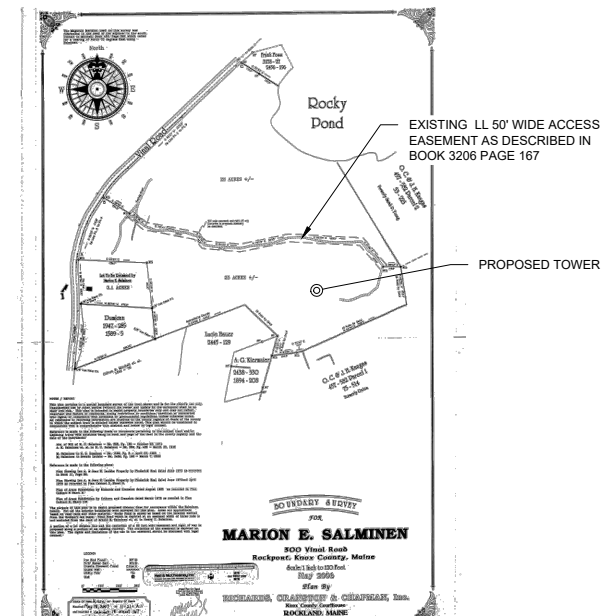
THE ABOVE DESCRIBED EASEMENT CONTAINS 40,199 SQUARE FEET / 0.923 ACRES.

EXISTING LL RIGHTS TO ACCESS AND UTILITY EASEMENT

ALSO CONVEYING an easement in common with others, for ingress, egress, and utilities from the easterly side of Vinal Road over the 50' wide right of way depicted on said plan.

Reference is made to Plan entitled "Boundary Survey for Marion E. Salminen, 300 Vinal Road, Rockport, Knox County, Maine", prepared by Richards, Cranston & Chapman, Inc., dated May 2006, unrecorded.

REFERENCE TO PLAN CABINET 18 - SHEET 167



ACCESS EASEMENT

SCALE: 1"=160' FOR 11"x17"
1"=80' FOR 22"x34"

1

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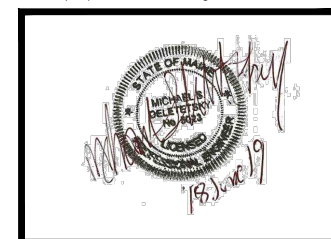
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SITE ADDRESS

0 VINAL ST.
ROCKPORT, ME 04856

SHEET TITLE

PROPOSED ACCESS GRADING AND EROSION CONTROL PLAN

SHEET NUMBER

C-4



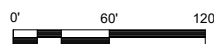
LEGEND

---	LEASE AREA
---	PROPOSED ROAD
---	PROPERTY LINE
---	EXISTING MAJOR CONTOURS
---	EXISTING MINOR CONTOURS
---	PROPOSED MAJOR CONTOURS
---	PROPOSED MINOR CONTOURS
---	PROPOSED OVERHEAD ELECTRIC LINE
○	IRON ROD
○	UTILITY POLE
---	SILTATION FENCE
▣	ROCK CHECK DAM
▣	RIPRAP
▣	STABILIZED CONSTRUCTION ENTRANCE

NOTE:
1. ROAD LENGTH = 1,876 FT±.

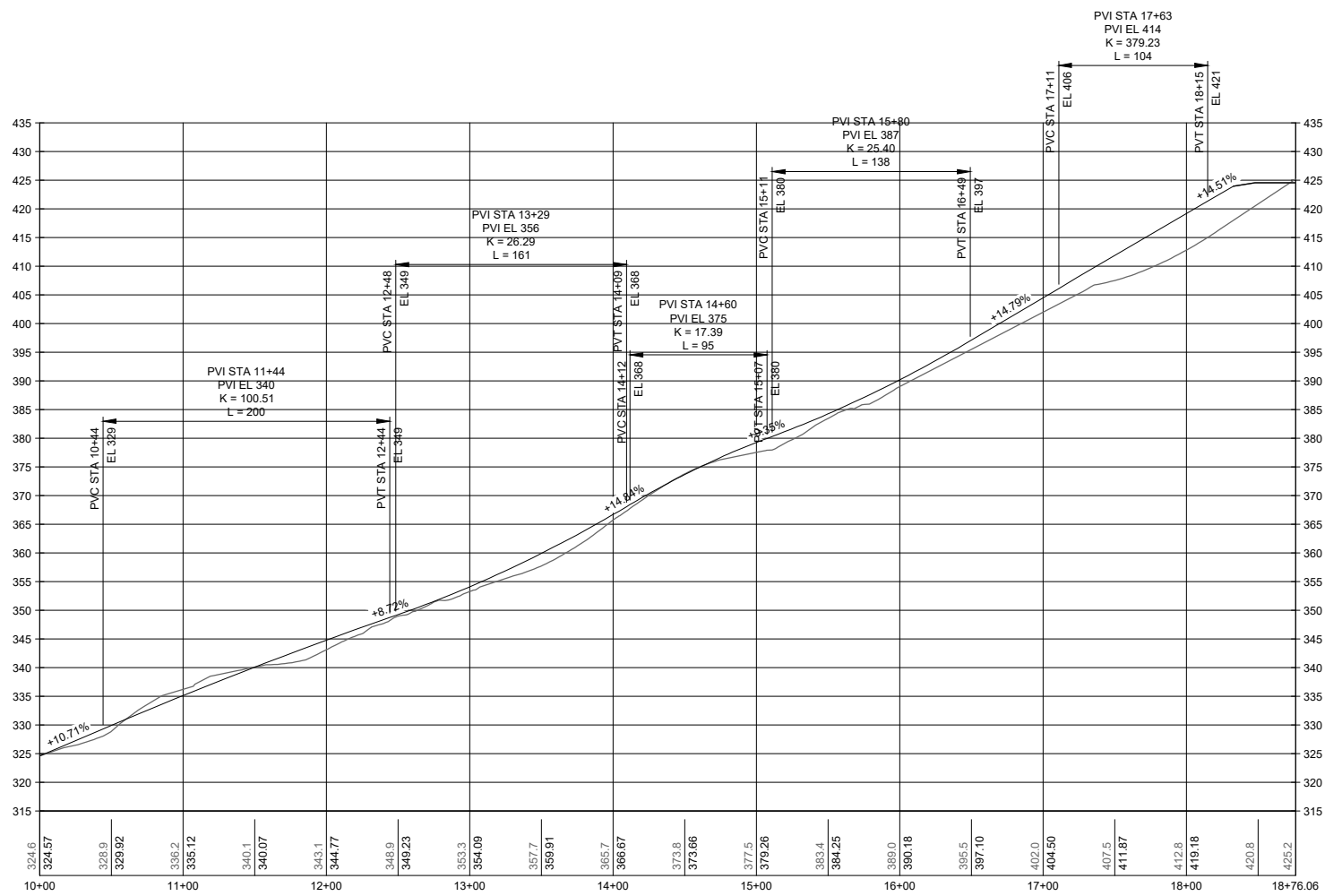
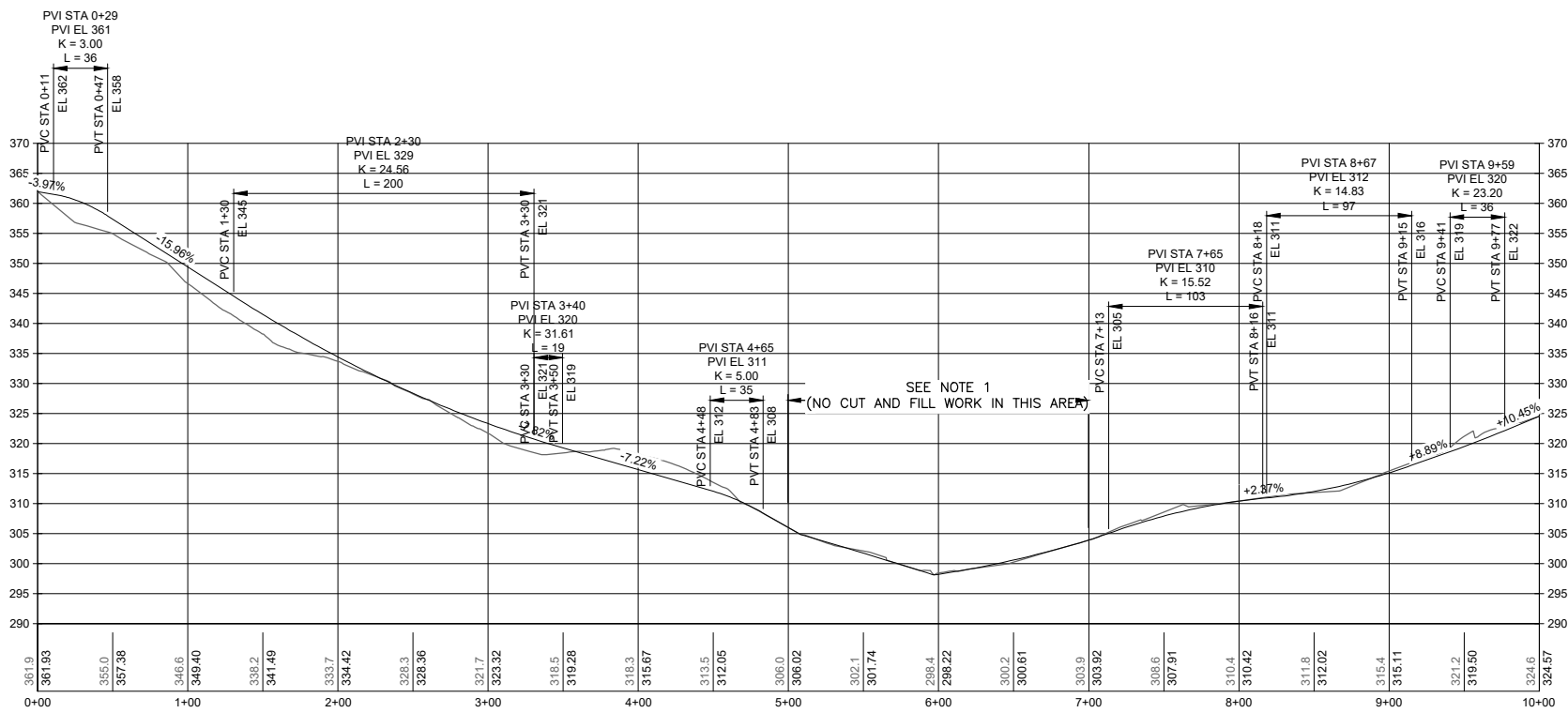
PROPOSED ACCESS GRADING PLAN

SCALE: 1"=120' FOR 11"x17"
1"=60' FOR 22"x34"



PLAN REFERENCE:

a. PLAN ENTITLED "BOUNDARY SURVEY FOR MARION E. SALMINEN, 300 VINAL ROAD, ROCKPORT, KNOX COUNTY, MAINE" RECORDED IN CABINET 18, SHEET 167.



NOTES

1. THE ACCESS PROFILE LOCATED IN THE AREA OF THE EXISTING ROCKLINED STREAM BED (STATION 6+00) SHALL BE PROTECTED WITH EROSION CONTROL MEASURES AND THAT NO GRADING WORK IS TO BE DONE WITHIN THE 25 FOOT SETBACK AREA OF DEFINED WETLAND ZONE AREA A AND WETLAND ZONE AREA B. ADDITIONALLY, MINIMUM GRADING WORK WILL BE DONE IN THIS VICINITY FROM STATION 5+00 TO STATION 7+00 AND TO REMAIN AS NATURAL AS POSSIBLE. TEMPORARY DIVERSION DITCHES (SHALLOW AND LINED W/2' STONE) SHALL BE UTILIZED TO DIVERT AND CATCH UPSTREAM SEDIMENTS FROM EACH SIDE OF PROTECTED AREA (DOWN SLOPE) IN THIS AREA WITH FLOW DIRECTED TO ROCK CHECK DAMS. UPKEEP OF THESE TEMPORARY DIVERSIONS AND CHECK DAM STRUCTURES WILL BE MAINTAINED THRU THE DURATION OF THE TOWER CONSTRUCTION PROCESS.
2. PER ZONING ORDINANCE - A MAXIMUM GRADE OF 4% MUST BE MAINTAINED FOR THE FIRST 20 LINEAL FEET OF ACCESS ROAD OFF VINAL STREET.



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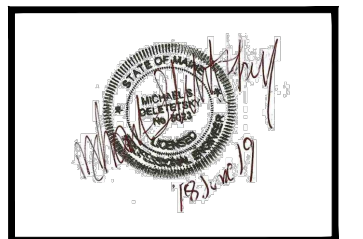


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0 VINAL ST.
ROCKPORT, ME 04856

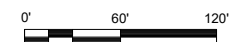
SHEET TITLE

ACCESS ROAD PROFILE

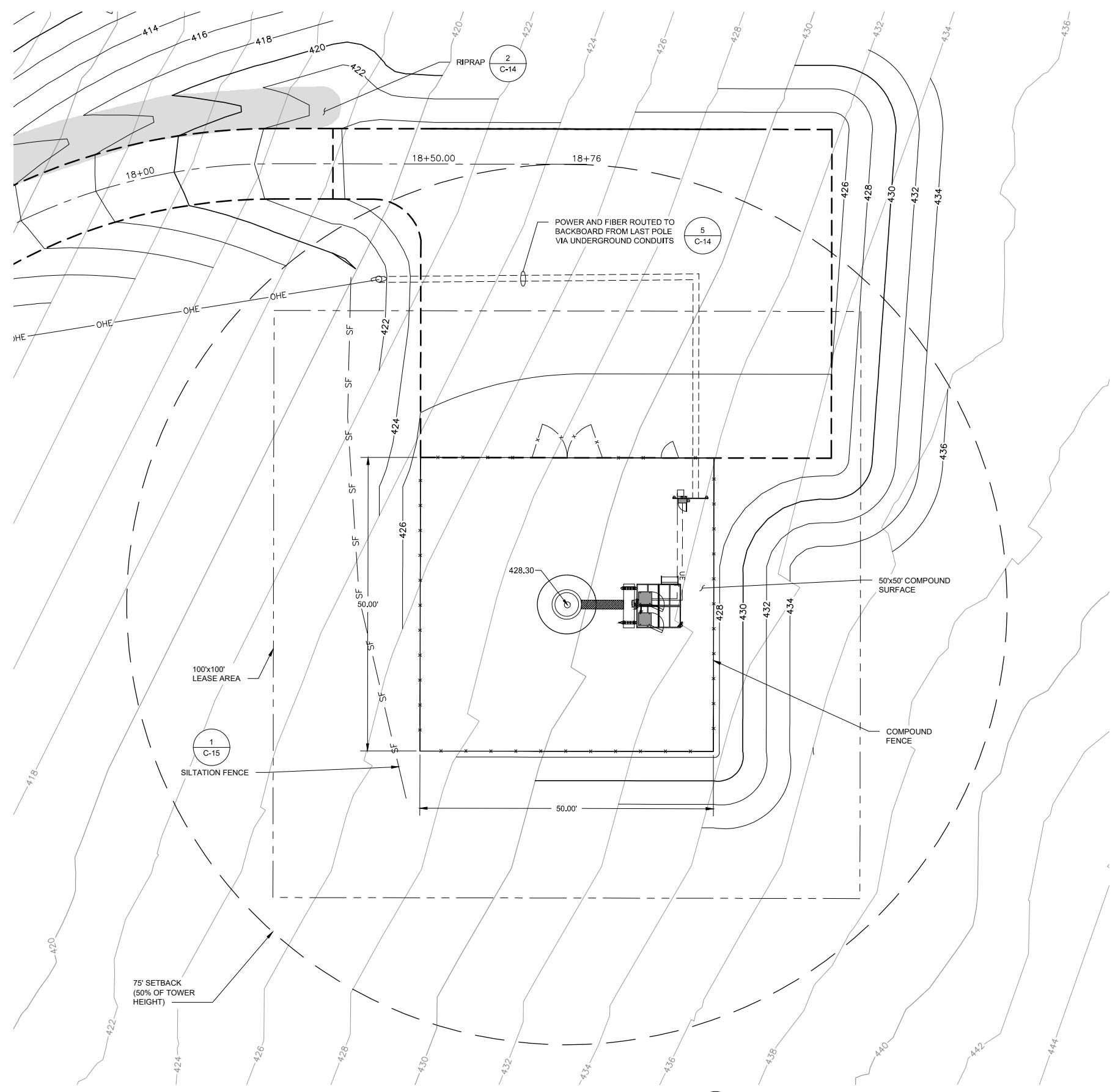
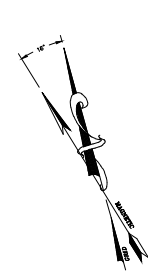
SHEET NUMBER

ACCESS ROAD PROFILE

SCALE: 1"=120' FOR 11"x17"
1"=60' FOR 22"x34"



1



LEGEND	
---	LEASE AREA
---	SETBACK
---	PROPERTY LINE
x	FENCE LINE
o	IRON PIN FOUND (AS NOTED)
□	MONUMENT (AS NOTED)
⊙	UTILITY POLE
---	EXISTING MAJOR CONTOURS
---	EXISTING MINOR CONTOURS
---	PROPOSED MAJOR CONTOURS
---	PROPOSED MINOR CONTOURS
SF	SILTATION FENCE
⊗	ROCK CHECK DAM
■	RIPRAP

SITE GRADING PLAN 1
 SCALE: 1"=20' FOR 11"x17"
 1"=10' FOR 22"x34"
 0' 10' 20'



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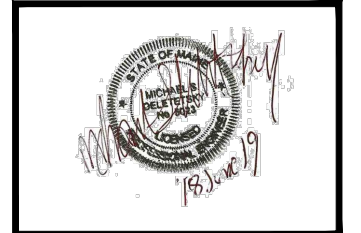
CW ROCKPORT
SITE NO.: 444555

CONSTRUCTION DRAWINGS		
B	6/14/19	CLIENT COMMENTS
A	5/31/19	ISSUED FOR REVIEW

wood.
 511 Congress Street, Portland ME 04101
 (207) 775-5401

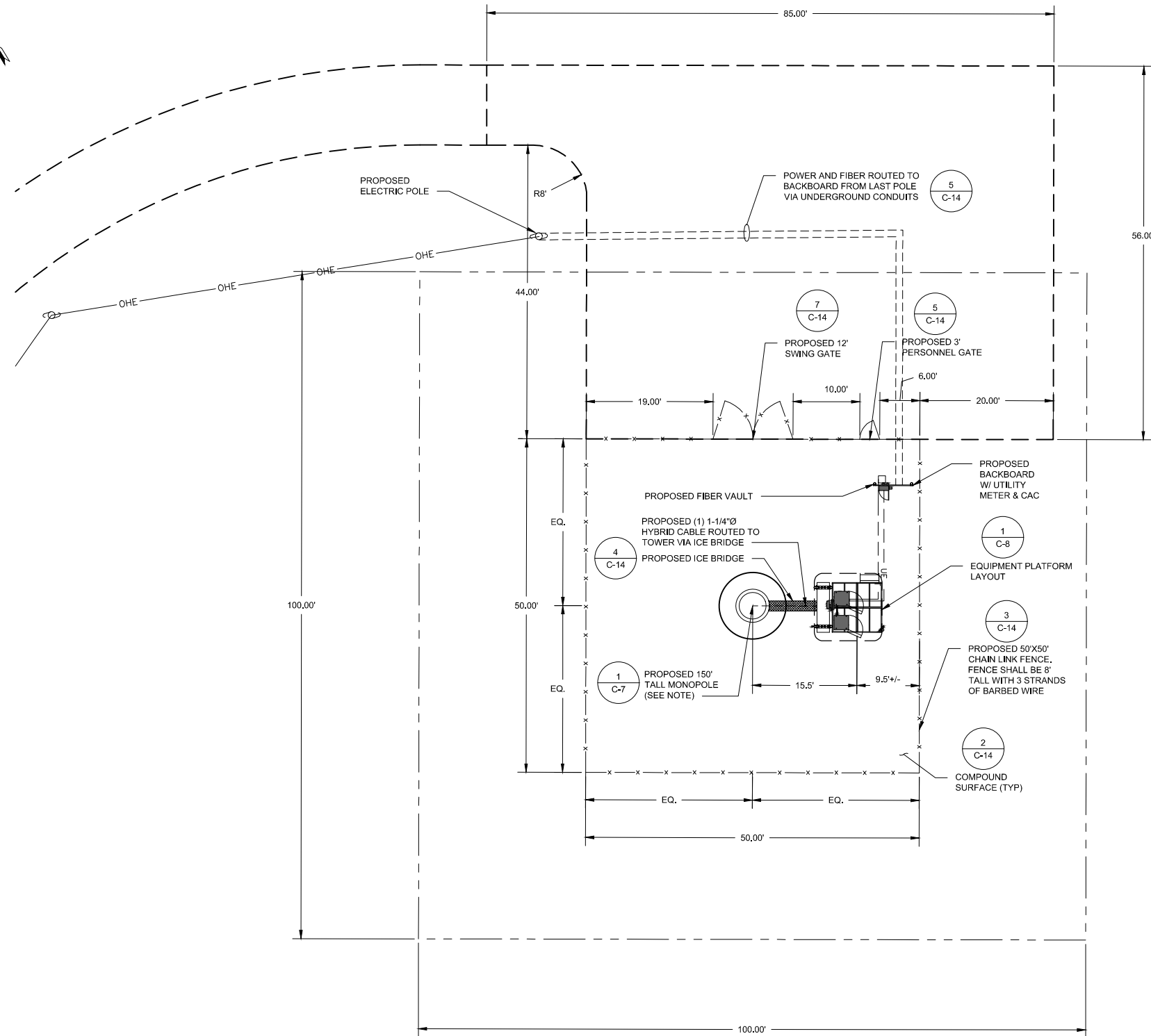
PROJECT COORDINATION & MANAGEMENT

KJK WIRELESS
 Phone: (603) 888-8974 127 Ridge Road, Nashua, NH 03062

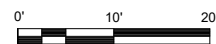


DRAWN BY:	BRT
REVIEWED BY:	RWB
CHECKED BY:	MSD
PROJECT NUMBER:	3618198678
JOB NUMBER:	444555
SITE ADDRESS	0 VINAL ST. ROCKPORT, ME 04856
SHEET TITLE	SITE GRADING PLAN
SHEET NUMBER	

C-6



COMPOUND PLAN ①
 SCALE: 1"=20' FOR 11"x17"
 1"=10' FOR 22"x34"



GENERAL NOTES:

1. TOWER SHALL HAVE A NEUTRAL GRAY GALVANIZED FINISH TO BLEND WITH SURROUNDING ENVIRONMENT.
2. TOWER STRUCTURE SHALL ADHERE TO APPLICABLE EIA-TIA AND ANSI STANDARDS.



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SITE NO.: 444555

CONSTRUCTION DRAWINGS

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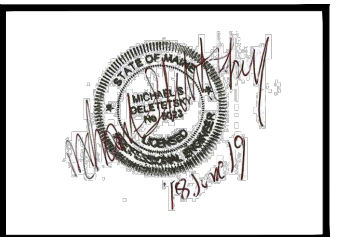


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REVIEWED BY: RWB

CHECKED BY: MSD

PROJECT NUMBER: 3618198678

JOB NUMBER: 444555

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SHEET TITLE

COMPOUND & EQUIPMENT PLANS

SHEET NUMBER

C-6A



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CW ROCKPORT

SITE NO.: 444555

CONSTRUCTION DRAWINGS

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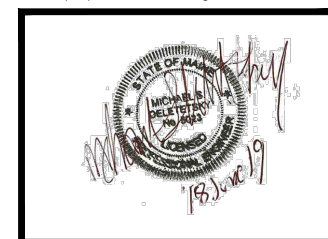


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PROJECT NUMBER: 3618198678

JOB NUMBER: 444555

SITE ADDRESS

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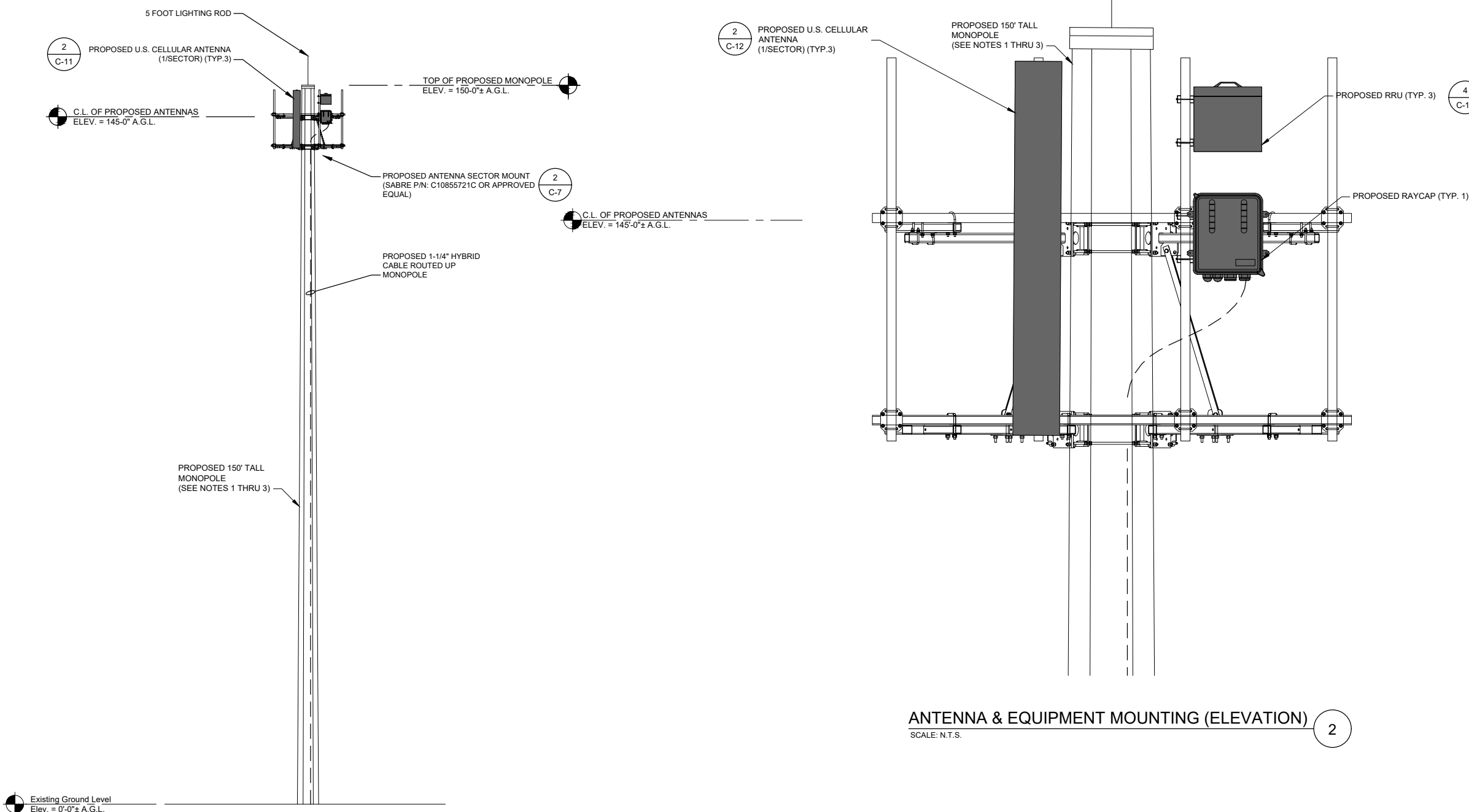
SHEET TITLE

ELEVATIONS

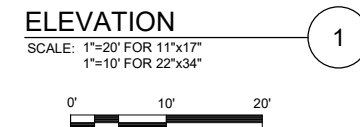
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GENERAL NOTES:

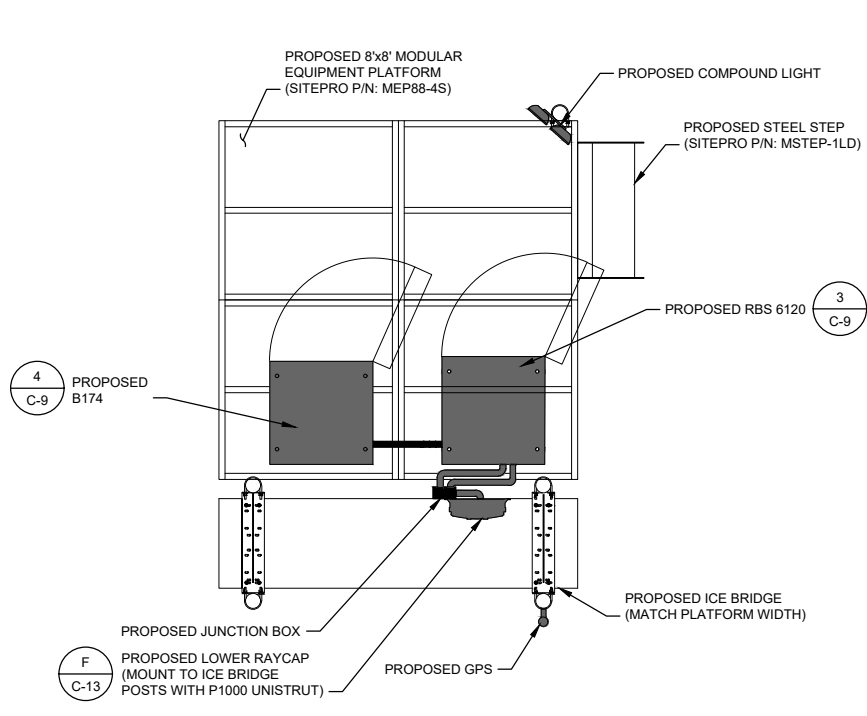
1. TOWER SHALL HAVE A NEUTRAL GRAY GALVANIZED FINISH TO BLEND WITH SURROUNDING ENVIRONMENT.
2. TOWER STRUCTURE SHALL ADHERE TO APPLICABLE EIA-TIA AND ANSI STANDARDS.
3. SPACING OF PROPOSED EQUIPMENT SHALL BE CONFIRMED AND PROPOSED MOUNTS SHALL NOT IMPEDE TOWER CLIMBING PEGS OR EQUIPMENT CLEARANCES. ACCESS TO ANTENNA PLATFORM AND EQUIPMENT SHALL BE MAINTAINED.



ANTENNA & EQUIPMENT MOUNTING (ELEVATION) 2
SCALE: N.T.S.



C-7

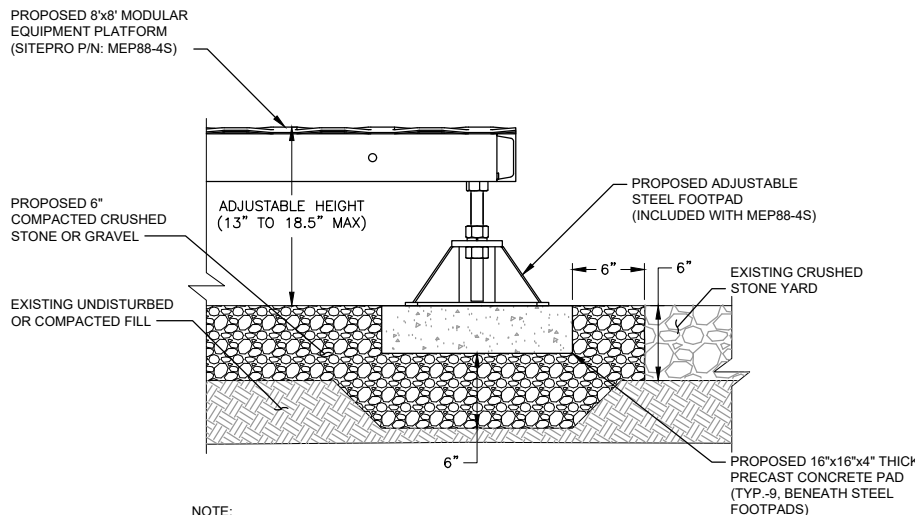


EQUIPMENT PLATFORM LAYOUT

SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"

NOTE:

- SEE SHEET C-8 FOR EQUIPMENT CABINET CLEARANCE REQUIREMENTS.



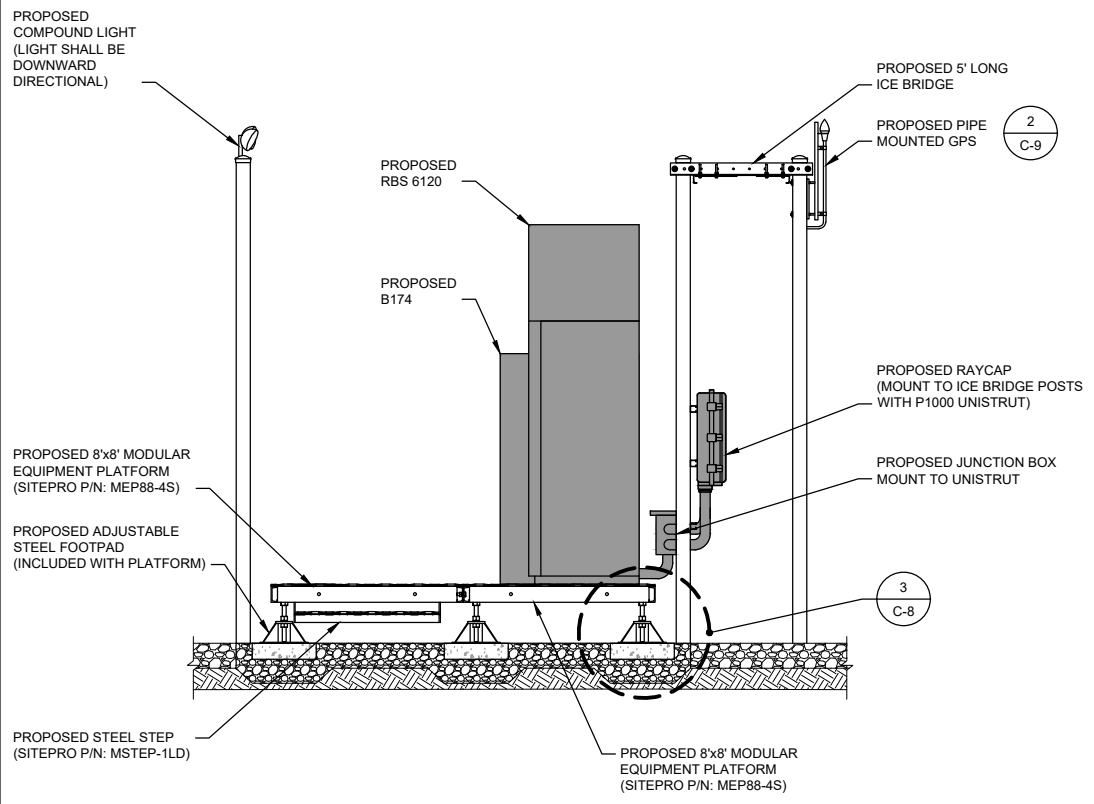
NOTE:

- CRUSHED STONE OR GRAVEL SHALL BE PLACED BENEATH THE ENTIRE PLATFORM AND EXTEND BEYOND STEEL FOOTPADS A MINIMUM OF 6".
- BEARING STRATA MEDIUM TO DENSE INSET GRANULAR MATERIAL OR COMPACTED GRAVEL FILL 95% COMPACTION.
- SUBGRADE & FILL SHALL CONSIST OF CLEAN SOIL. NO DELETERIOUS MATERIALS OR ORGANICS TO BE USED.
- EQUIPMENT PLATFORM SHALL BE MONITORED FOR SETTLEMENT AND STEEL FOOTPADS ADJUSTED AS NEEDED TO MAINTAIN A LEVEL PLATFORM.

SUBGRADE PREPARATION DETAIL

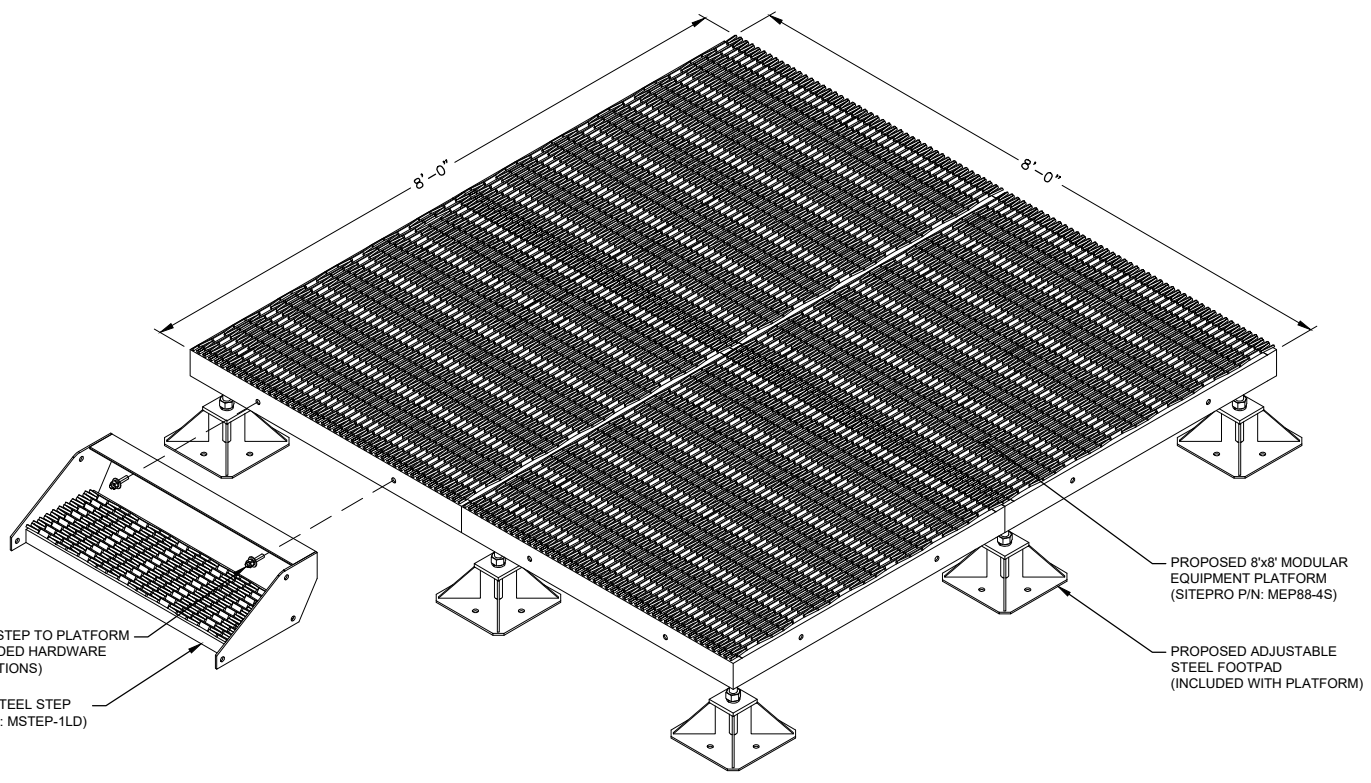
SCALE: N.T.S.

EQUIPMENT PLATFORM B.O.M.		
PART DESCRIPTION/NUMBER	QUANTITY	NOTES
MODULAR EQUIPMENT PLATFORM (SITEPRO P/N: MEP88-4S)	1	• INCLUDES ADJUSTABLE STEEL FOOTPADS
STEEL STEP (SITEPRO P/N: MSTEP-1LD)	1	• INCLUDES 5/8" ATTACHMENT HARDWARE
PERIMETER ANGLE (L4x4x3/8"x8'-4" LONG)	4	• ATTACH TO MEP88-4S USING PREDRILLED HOLES • COPE THE HORIZONTAL LEG OF (1) ANGLE TO ACCOMMODATE STEP ATTACHMENT • INSTALL FLUSH WITH TOP OF GRATING TO PROVIDE LEVEL SURFACE



EQUIPMENT PLATFORM ELEVATION

SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"



NOTES:

- ASSEMBLE MEP88-4S & ATTACH MSTAP-1LD PER MANUFACTURER SPECIFICATIONS.
- PREPARE SUBGRADE PER DETAIL 3, THIS SHEET, PRIOR TO PLACEMENT OF PLATFORM.

EQUIPMENT PLATFORM ISOMETRIC

SCALE: N.T.S.



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CONSTRUCTION DRAWINGS

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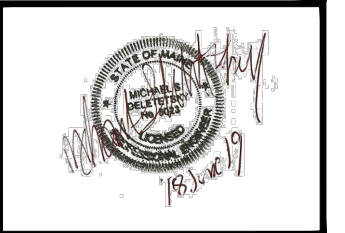


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CHECKED BY: MSD

PROJECT NUMBER: 3618198678

JOB NUMBER: 444555

SITE ADDRESS

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ROCKPORT, ME 04856

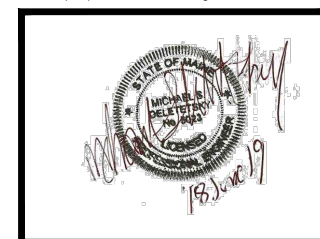
SHEET TITLE

EQUIPMENT PLATFORM DETAILS

SHEET NUMBER

C-8

A	5/31/19	ISSUED FOR REVIEW



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PROJECT NUMBER: 3618198678

JOB NUMBER: 444555

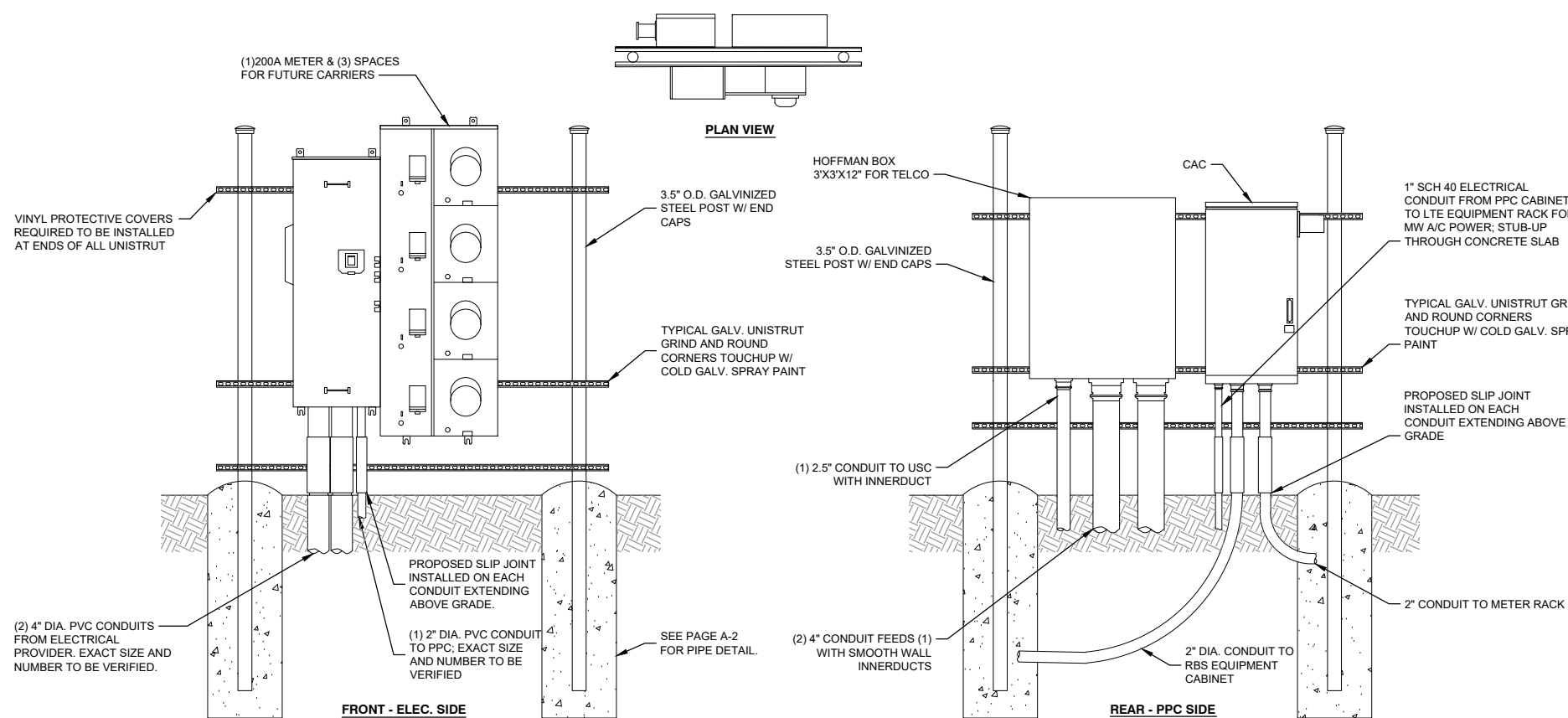
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0 VINAL ST.
ROCKPORT, ME 04856

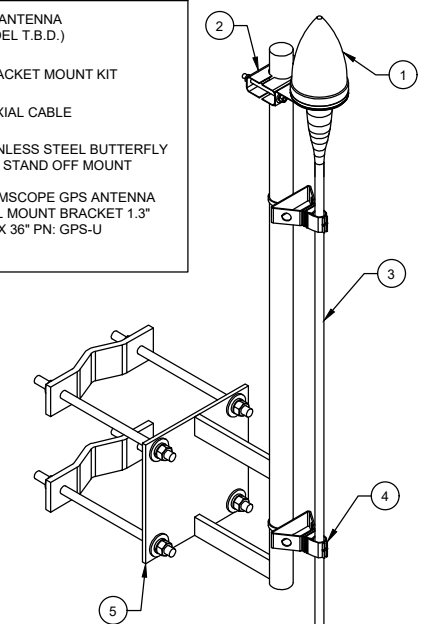
SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER



- B.O.M.**
- ① GPS ANTENNA (MODEL T.B.D.)
 - ② L BRACKET MOUNT KIT
 - ③ COAXIAL CABLE
 - ④ STAINLESS STEEL BUTTERFLY KIT & STAND OFF MOUNT
 - ⑤ COMMSCOPE GPS ANTENNA WALL MOUNT BRACKET 1.3" O.D. X 36" PN: GPS-U

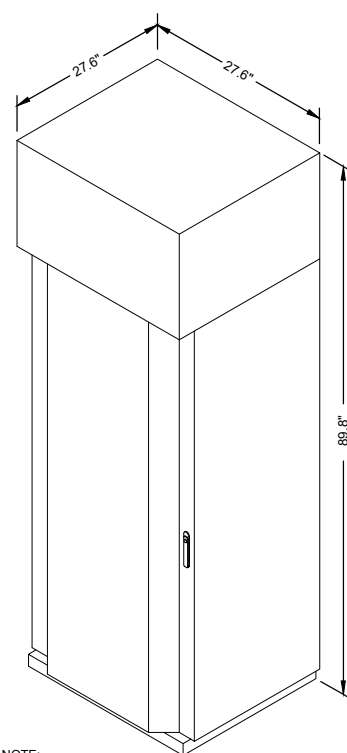


PIPE MOUNTED GPS DETAIL
SCALE: N.T.S.

MULTI-CARRIER UTILITY RACK DETAILS

SCALE: N.T.S.

1



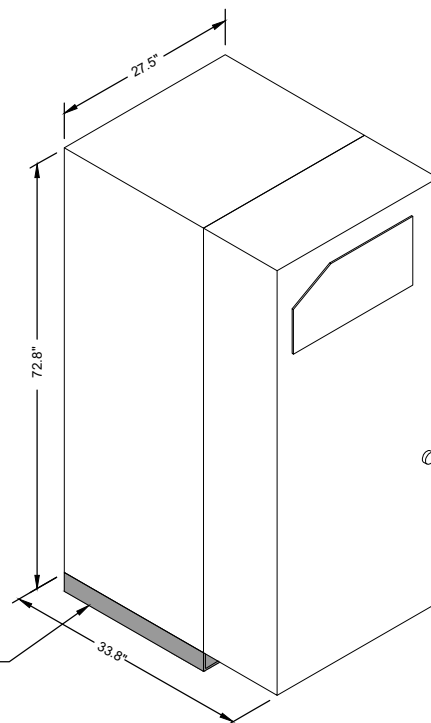
CLEARANCE REQUIREMENTS	
FRONT	28"
REAR	8"
SIDE	4"

NOTE:

- ATTACH TO STEEL PLATFORM PER MANUFACTURER RECOMMENDATIONS.

RBS 6120
SCALE: N.T.S.

3



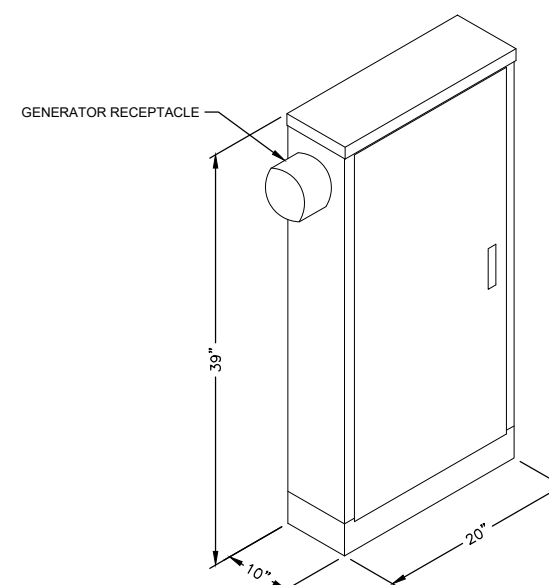
CLEARANCE REQUIREMENTS	
FRONT	27"
REAR	8"
DOOR SIDE	17"
SIDE	4"

NOTE:

- ATTACH TO PROPOSED HSS PER MANUFACTURER RECOMMENDATIONS.
- ATTACH PROPOSED HSS TO STEEL PLATFORM USING 3/4" HARDWARE.

B174 BATTERY BACKUP
SCALE: N.T.S.

4



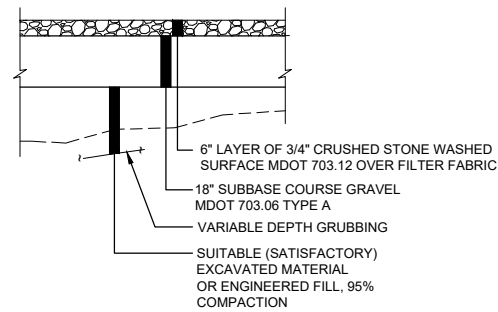
CLEARANCE REQUIREMENTS	
FRONT	36"
GENERATOR RECEPTACLE SIDE	36"

NOTE:

- ATTACH TO PROPOSED P1000 UNISTRUT, SPANNING BETWEEN (2) ICE BRIDGE POSTS.

CAC POWER CABINET
SCALE: N.T.S.

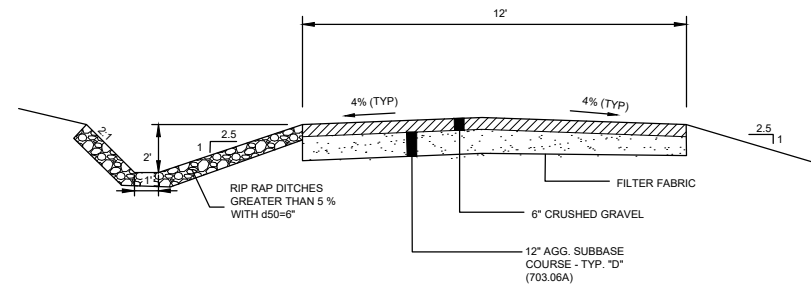
5



TYPICAL SECTION TOWER COMPOUND SURFACE

SCALE: N.T.S.

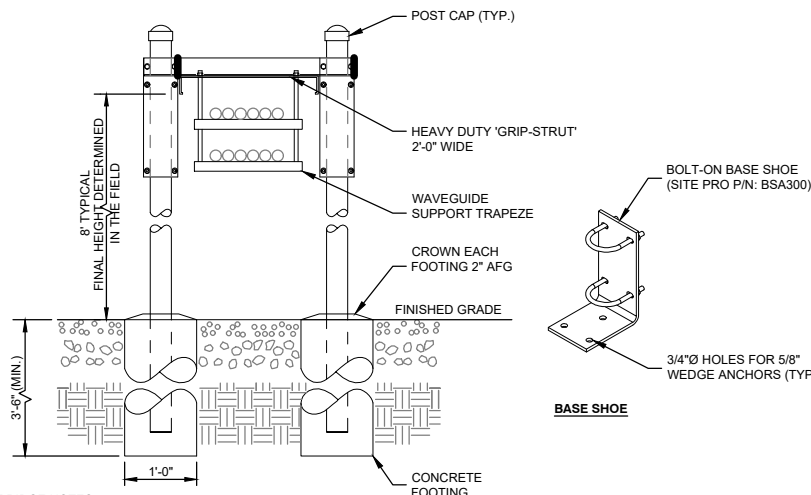
1



TYPICAL ACCESS ROAD SECTION

SCALE: N.T.S.

2



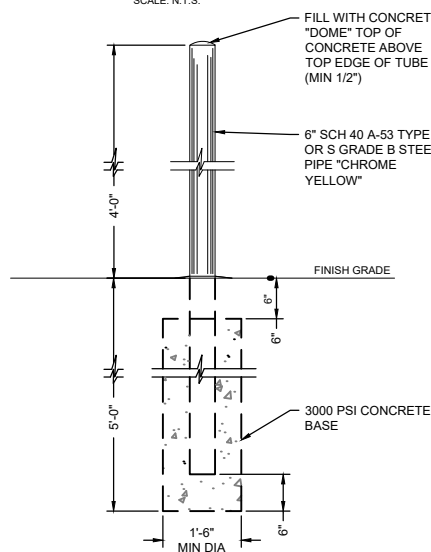
ICE BRIDGE NOTES:

- ICE BRIDGE SHALL BE SITE PRO GRIP STRUT BRIDGE CHANNEL (P/N: GRS24) OR APPROVED EQUAL.
- CABLE SUPPORT SHALL BE SITE PRO UNIVERSAL VERTICAL TRAPEZE KIT (P/N: VT12) OR APPROVED EQUAL.
- ALL COMPONENTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR SHALL DETERMINE REQUIRED QUANTITY OF ALL ICE BRIDGE COMPONENTS.
- SNAP-IN HANGERS, SPLICE KITS, HINGE KITS, EXTENSION KITS, STIFFENERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- ICE BRIDGE SHALL BE ROUTED TO ACCOMMODATE THE MINIMUM BENDING RADIUS OF THE COAXIAL CABLE.
- ICE BRIDGE COMPONENTS SHOWN ARE SCHEMATIC, CONSULT MANUFACTURER FOR EXACT AND CURRENT SPECIFICATIONS.
- USE BASE SHOE FOR ANCHORING TO CONCRETE PAD.

ICE BRIDGE DETAIL

SCALE: N.T.S.

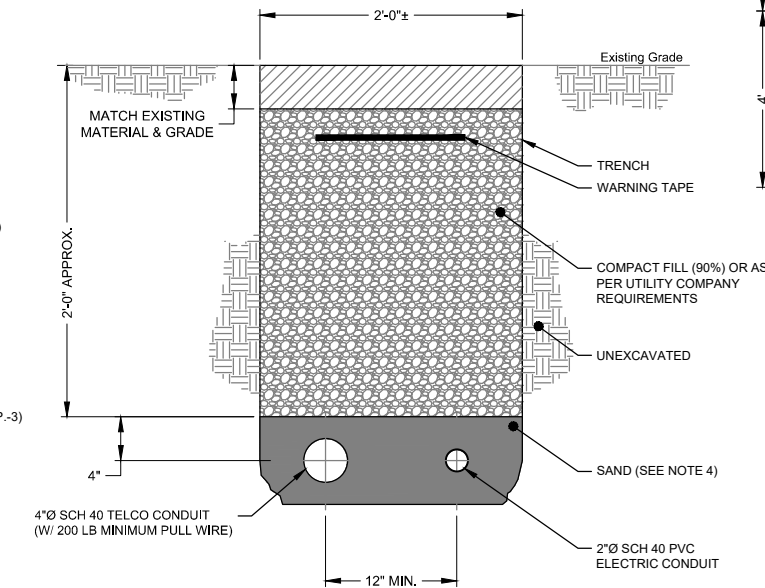
4



BUMPER POST

SCALE: N.T.S.

6



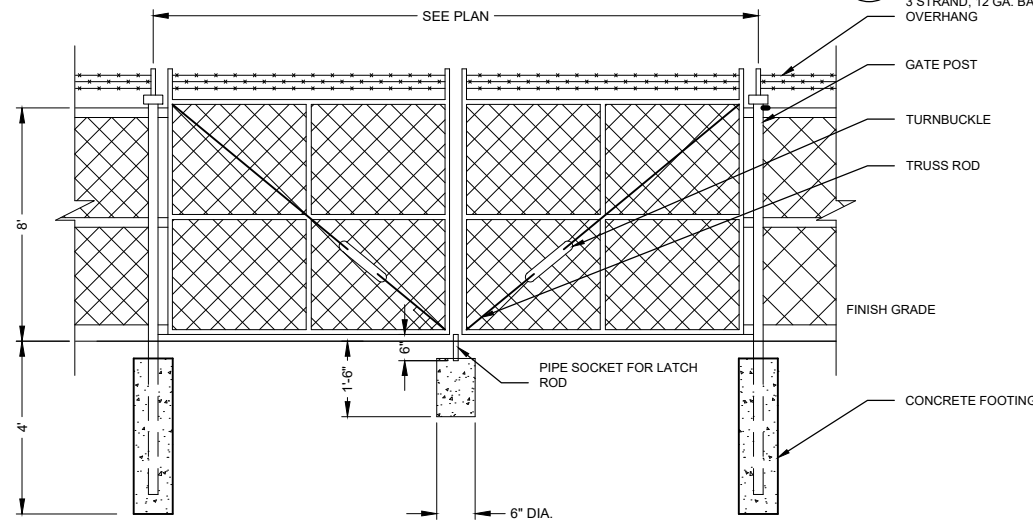
NOTES:

- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
- IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL, COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
- IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING.
- CONTRACTOR TO VERIFY SIZE OF CONDUIT WITH WIRING AND TRENCHING INSPECTOR PRIOR TO INSTALLATION.

JOINT SERVICE TRENCH BURIED CONDUIT (ELECTRIC/TELEPHONE)

SCALE: N.T.S.

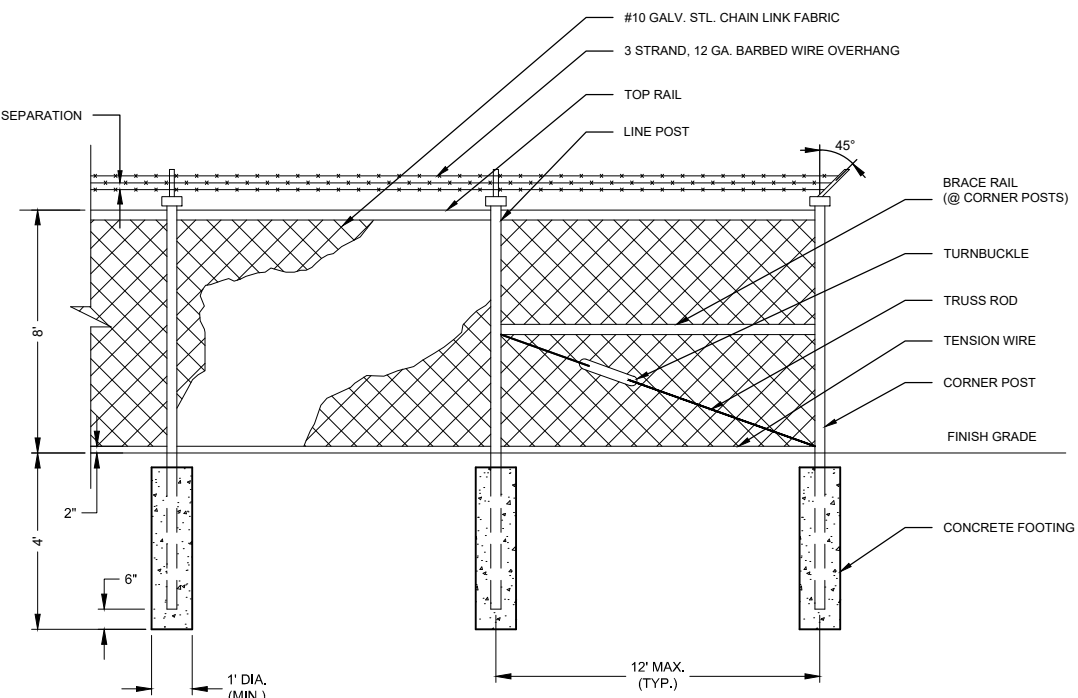
5



CHAIN LINK GATE

SCALE: N.T.S.

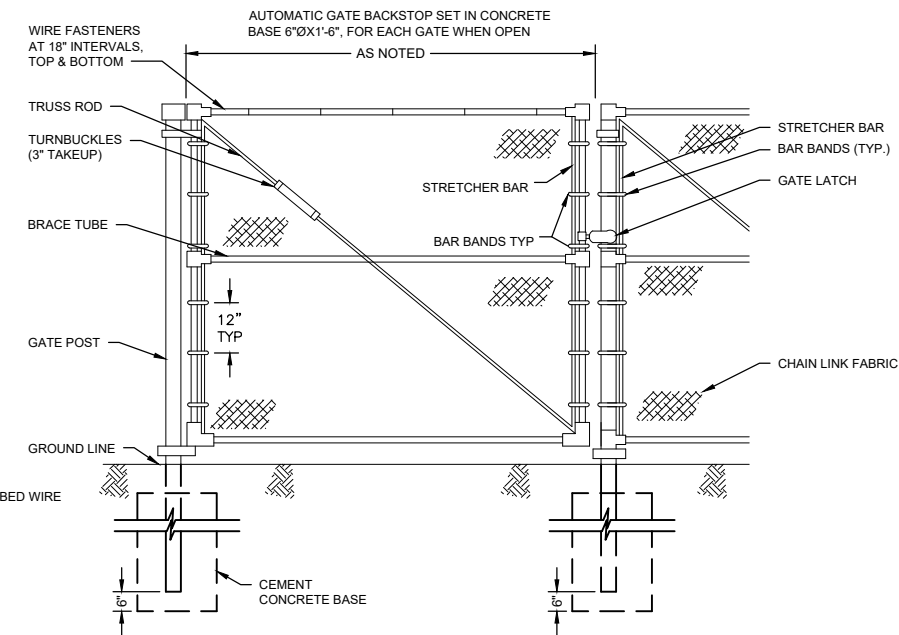
7



CHAIN LINK FENCE

SCALE: N.T.S.

3



CHAIN LINK FENCE WITH SINGLE GATE

SCALE: N.T.S.

5



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CONSTRUCTION DRAWINGS

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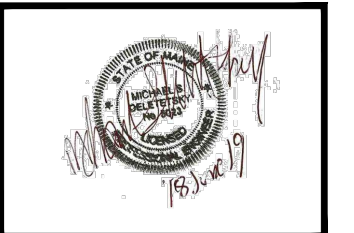


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PROJECT NUMBER: 3618198678

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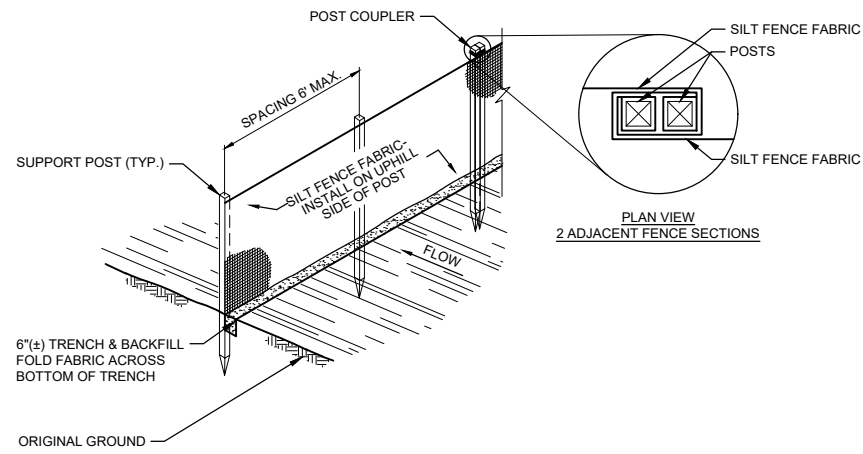
SITE ADDRESS

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SHEET TITLE

CIVIL DETAILS

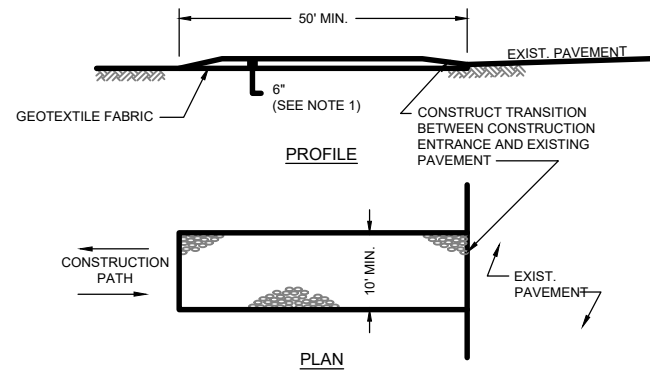
SHEET NUMBER



SILT FENCE INSTALLATION DETAIL

SCALE: N.T.S.

1



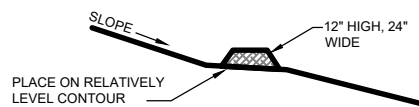
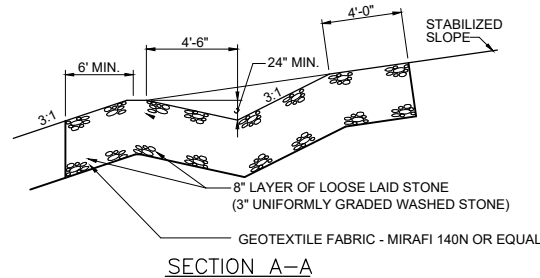
NOTES:

1. STONE SIZE: USE 2 INCH STONE, OR RECLAIMED OR RECYCLED PAVEMENT
2. LENGTH: MIN. 50'
3. THICKNESS: NOT LESS THAN 6"
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS
5. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES OR WATERWAYS.

STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

2



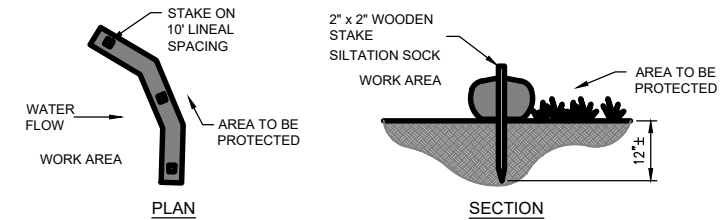
NOTE: COMPOSITION OF BERM SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLES SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIA. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS:

- ORGANIC MATTER CONTENT SHALL BE BETWEEN 80 AND 100% DRY WEIGHT BASIS.
- PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN AND A MIN. OF 70% MAX. OF 85%, PASSING A 0.75" SCREEN.
- ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
- LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
- SOLUBLE SALTS CONTENT SHALL BE <4.0 MMHOS/CM.
- PH SHOULD FALL BETWEEN 5.0 AND 8.0.

EROSION MIX BERM

SCALE: N.T.S.

5



NOTES:

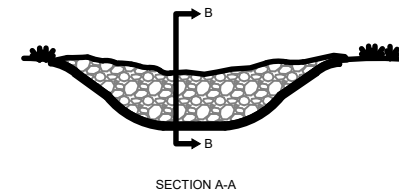
1. ALL MATERIALS TO MEET MANUFACTURERS SPECIFICATIONS
2. SILTATION LOG COMPOST/SOIL/ROCK/SEED TO MEET APPLICATION REQUIREMENTS.
3. SILTATION LOG DEPICTED FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER.
4. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DIRECTED BY ENGINEER.

SLOPE PERCENT	MAXIMUM SLOPE LENGTH ABOVE LOG IN FEET				
	8" LOG	12" LOG	18" LOG	24" LOG	32" LOG
	7"	10"	15"	20"	26"
2 (OR LESS)	600	750	1000	1300	1650
3	400	500	550	650	750
10	200	250	300	400	500
15	140	170	200	325	450
20	100	125	140	260	400
25	80	100	110	200	275
30	60	75	90	130	200
35	60	75	80	115	150
40	60	75	80	100	125
45	40	50	60	80	100
50	40	50	55	65	75

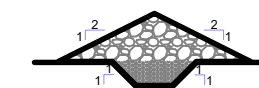
SILTATION LOG

SCALE: N.T.S.

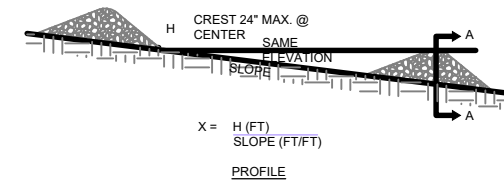
3



SECTION A-A



SECTION B-B



$$X = \frac{H (FT)}{SLOPE (FT/FT)}$$

NOTES:

1. STONES WILL BE PLACED ON A FILTER FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN ON PLANS.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

ROCK CHECK DAM

SCALE: N.T.S.

7



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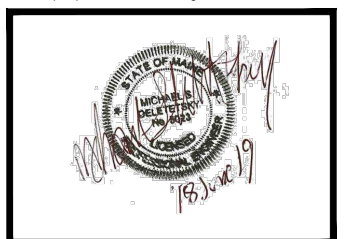


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(207) 775-5401

PROJECT COORDINATION & MANAGEMENT



Phone: (603) 888-8974 127 Ridge Road, Nashua, NH 03062



DRAWN BY: BRT

REVIEWED BY: RWB

CHECKED BY: MSD

PROJECT NUMBER: 3618198678

JOB NUMBER: 444555

SITE ADDRESS

0 VINAL ST.
ROCKPORT, ME 04856

SHEET TITLE

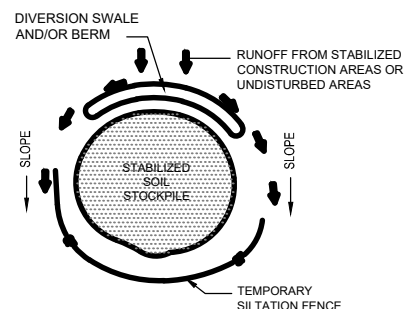
EROSION AND SEDIMENT CONTROL DETAILS

SHEET NUMBER

LEVEL LIP SPREADER

SCALE: N.T.S.

4



SOIL STOCKPILE

SCALE: N.T.S.

6

GENERAL CONSTRUCTION NOTES:

- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANS/IEA/IA-222, AND COMPLY WITH U.S. CELLULAR SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT DIG SAFE (1 888 DIG SAFE 888-344-7233) FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE U.S. CELLULAR CONSTRUCTION MANAGER.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR WILL NOTIFY ENGINEER, U.S. CELLULAR PROJECT CONSTRUCTION MANAGER, AND LANDLORD IMMEDIATELY.
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH U.S. CELLULAR WITH THREE AS-BUILT SETS OF DRAWINGS UPON COMPLETION OF WORK.
- ANTENNAS AND CABLES ARE TYPICALLY PROVIDED BY U.S. CELLULAR. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH U.S. CELLULAR PROJECT MANAGER TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED BY U.S. CELLULAR. ALL ITEMS NOT PROVIDED BY U.S. CELLULAR SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED BY U.S. CELLULAR.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR WILL COORDINATE WITH U.S. CELLULAR PROJECT MANAGER TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY U.S. CELLULAR. ALL REQUIRED PERMITS NOT OBTAINED BY U.S. CELLULAR MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- CONTRACTOR SHALL START UP HVAC UNITS AND SYNCHRONIZE THE THERMOSTATS.
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH U.S. CELLULAR SPECIFICATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- UNLESS OTHERWISE NOTED U.S. CELLULAR SHALL PROVIDE ALL REQUIRED RF MATERIAL FOR CONTRACTOR TO INSTALL, INCLUDING ANTENNAS, TMA'S, BIAS-TS, COMBINERS, PDU, DC BLOCKS, SURGE ARRESTORS, GPS ANTENNA, GPS SURGE ARRESTOR, COAXIAL CABLE.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE PROVIDED BY U.S. CELLULAR FOR INSTALLATION BY CONTRACTOR.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO U.S. CELLULAR SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED D FIRE CODE APPROVED MATERIALS.
- REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY DEWBERRY A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.

STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL ROLLED SHAPES, PLATES, AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:

ASTM A-572, GRADE 50	ALL W SHAPES, UNLESS NOTED OTHERWISE.
ASTM A-36	ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
ASTM A-500, GRADE B	HSS SECTION (SQUARE AND RECTANGULAR)
ASTM A-500, GRADE C	HSS SECTION (ROUND)
ASTM A-325, TYPE SC OR N	ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS.
ASTM A-307	ALL ANCHORS BOLTS, UNLESS NOTED OTHERWISE.
- ALL STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATION ASTM A123/A123M-00 UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION, WHERE WELD LENGTH IS NOT INDICATED, USE FULL LENGTH WELD. AT THE COMPLETION OF ALL WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA.) SUPPLIED WITH A NUT AND WASHER UNDER TURNED END AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- CONCRETE EXPANSION ANCHORS AND EPOXY ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS, SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. MANUFACTURER'S MINIMUM CONCRETE EDGE DISTANCE SHALL BE MAINTAINED DURING INSTALLATION.
- USE PRECAUTIONS & PROCEDURES PER AWS D1.1 WHEN WELDING GALVANIZED METALS.
- TOUCHUP ALL DAMAGED GALVANIZED STEEL WITH U.S. CELLULAR APPROVED COLD ZINC, "GALVANOX", "DRY GALV", "ZINC-IT", OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCHUP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.
- ALL PROPOSED STEEL SHALL CONFORM TO HIGH STRENGTH STEEL MATERIALS, ASTM A36 WITH A MINIMUM STRENGTH OF 36 KSI.
- ALL EXISTING BEAM AND COLUMN DIMENSIONS SHALL BE FIELD VERIFY BY CONTRACTOR PRIOR TO FABRICATION. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN SHALL BE REPORTED TO DEWBERRY ENGINEER IMMEDIATELY.
- CONTRACTOR TO MAKE ALL NECESSARY PRECAUTIONS AND SECURE ALL PERMITS REQUIRED FOR WELDING ON THE ROOF.

GENERAL GROUNDING NOTES:

- ALL DOWN CONDUCTORS AND THE GROUNDING RING CONDUCTOR SHALL BE #2 AWG, SOLID, BARE, TINNED COPPER, UNLESS OTHERWISE NOTED. ALL CONNECTIONS TO GROUNDING RING SHALL BE EXOTHERMICALLY WELDED. CONDUCTOR SHALL BE AT A MINIMUM DEPTH BELOW GRADE OF 18 INCHES OR TO LEDGE. MINIMUM BEND RADIUS SHALL BE 8 INCHES. CONDUCTOR SHALL BE AT LEAST 24 INCHES FROM ANY FOUNDATION, UNLESS OTHERWISE NOTED.
- GROUND RODS SHALL BE 5/8" DIAMETER COPPER CLAD, HARGER, T&B, ERICO, OR EQUIVALENT. TOP OF ROD SHALL BE A MINIMUM OF 18" BELOW GRADE. IF LEDGE IS ENCOUNTERED, INSTALL GROUND ROD AT AN ANGLE. ELECTRICAL METER GROUND ROD EXCEPTED.
- WHERE MECHANICAL CONNECTIONS ARE SPECIFIED, BOLTED, COMPRESSION-TYPE, CLAMPS OR SPLIT-BOLT TYPE CONNECTORS SHALL BE USED.
- GRIND OFF GALVANIZING IN AFFECTED AREA. EXOTHERMICALLY WELD #2 CONDUCTOR AT 6" ABOVE GRADE OR FOUNDATION, WHICHEVER IS HIGHER. COLD-GALV AFTER. EXOTHERMICALLY WELD OTHER END TO GROUND RING.
- INSTALL GROUNDING KITS AT ANTENNA CENTERLINE, AND TOWER EXIT POINTS. GROUND COAX LINES. EXOTHERMICALLY WELD #2 DOWN CONDUCTOR TO PLATES, RUN DOWN TOWER, AND TIE INTO GROUNDING SYSTEM.
- ALL GROUNDING WORK SHALL COMPLY WITH U.S. CELLULAR CONSTRUCTION CONTRACT AND MOTOROLA (R-56) STANDARDS. FOLLOWING COMPLETION OF WORK, GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS. SUBMIT AN INDEPENDENT "FALL POTENTIAL" TESTING REPORT.
- ALL GROUNDING CONDUCTORS ON EXTERIOR WALL OF SHELTER SHALL BE INSTALLED IN 3/4" SCH 40 PVC CONDUIT TO 12" BELOW GRADE. ATTACH PVC WITH GALVANIZED "C" CLAMPS.
- CONTRACTOR SHALL HAND-DIG IN AREAS AROUND EXISTING UTILITIES.
- NOTIFY CONSTRUCTION ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- GROUNDING RING IS SHOWN AS SCHEMATIC ONLY. IT IS DESIGNED WITHOUT BENEFIT OF RESISTIVITY TESTING AND DOES NOT NECESSARILY REPRESENT A GROUNDING SYSTEM TO MEET ANY SPECIFIC GROUND RESISTANCE.
- PRIOR TO POURING CONCRETE, ALL REBAR LOCATED NEAR THE BOTTOM OF THE FOUNDATION SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING ELECTRODE. BY STEEL TIES OF OTHER EFFECTIVE MEANS APPROVED BY N.E.C. 2014 AND STRUCTURAL ENGINEER, AND BONDED TO THE GROUND RING AS DETAILED IN THESE PLANS (INSPECTION MAY BE REQUIRED PRIOR TO POURING CONCRETE AND MUST BE COORDINATED BY CONTRACTOR).
- IN ACCORDANCE WITH N.E.C. REQUIREMENTS, ALL GROUNDING ELECTRODES PRESENT ON SITE SHALL BE BONDED TOGETHER (REFERENCE N.E.C. ARTICLE 250.50).

CONCRETE AND REINFORCING STEEL NOTES:

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE AND SUBMITTED TO ENGINEER PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 1.5%) WITH A MAXIMUM 4" SLUMP AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
- THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT:	ASTM C-150, TYPE 1 OR 2
REINFORCEMENT:	ASTM A-185, PLAIN STEEL WELDED WIRE FABRIC
REINFORCEMENT BARS:	ASTM A615, GRADE 60, DEFORMED
NORMAL WEIGHT AGGREGATE:	ASTM C-33
WATER:	DRINKABLE
ADMIXTURES:	NON-CHLORIDE CONTAINING
- MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):

A. CONCRETE CAST AGAINST EARTH: 3"
B. ALL OTHER CONCRETE: 2"
- A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERWISE.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
- ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI 301.
- DO NOT WELD OR TACK WELD REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- DO NOT ALLOW REINFORCEMENT, CONCRETE OR SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 3 DAYS AFTER PLACEMENT.
- FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.
- CONCRETE SHALL BE RUBBED TO A ROUGH GROUT FINISH. PADS SHALL BE SEALED BY STEEL TROWEL.
- UNLESS OTHERWISE NOTED:

A. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
- REINFORCING BAR DEVELOPMENT LENGTHS, AS COMPUTED IN ACCORDANCE WITH ACI 318, FORM THE BASIS FOR BAR EMBEDMENT LENGTHS AND BAR SPLICED LENGTHS SHOWN IN THE DRAWINGS. APPLY APPROPRIATE MODIFICATION FACTORS FOR TOP STEEL, BAR SPACING, COVER AND THE LIKE.
- DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
- ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS.
- LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWINGS.
- SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 8".
- BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE 16 GAUGE CONFORMING TO ASTM A82.
- SLAB ON GROUND

A. COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6" GRAVEL BENEATH SLAB.
B. PROVIDE VAPOR BARRIER BENEATH SLAB ON GROUND.



8410 W. BRYN MAWR AVE
CHICAGO, IL 60631

CW ROCKPORT

SITE NO.: 444555

CONSTRUCTION DRAWINGS

A	5/31/19	ISSUED FOR REVIEW

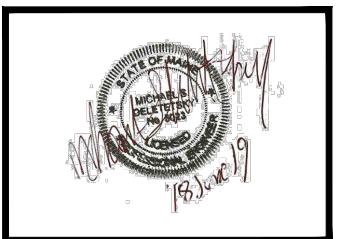


511 Congress Street, Portland ME 04101
(207) 775-5401

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SHEET TITLE

GENERAL
NOTES

SHEET NUMBER

G-1

EROSION AND SEDIMENTATION CONTROL NOTES:

GENERAL

1. THE FOLLOWING PLAN FOR CONTROLLING EROSION AND SEDIMENT ON THIS PROJECT IS BASED UPON THE STANDARDS DETAILED IN THE "MAINE EROSION AND SEDIMENT CONTROL BMPs" (BEST MANAGEMENT PRACTICES), BUREAU OF LAND AND WATER QUALITY, MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH 2003. THE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE PRACTICES PRESENTED HEREIN.
2. THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO MINIMIZE EROSION AND SEDIMENTATION BEFORE, DURING, AND AFTER THE CONSTRUCTION OF THIS PROJECT. ALL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO COMMENCEMENT OF SOIL DISTURBANCE, AND SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT UNTIL FINAL SITE RESTORATION HAS BEEN IMPLEMENTED AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. THE CONTRACTOR SHALL EXERCISE SPECIAL CARE AT ALL TIMES TO LIMIT EXTENT OF DISTURBANCE, REGULARLY MONITOR THE EFFECTIVENESS OF EROSION CONTROL MEASURES, AND IMMEDIATELY CORRECT ANY EROSION PROBLEMS THAT MAY DEVELOP.
3. THE CONTRACTOR MAY BE REQUESTED AND IS REQUIRED TO FURNISH AND INSTALL ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ON OR OFF SITE EROSION PROBLEMS DURING CONSTRUCTION.

TEMPORARY EROSION CONTROL MEASURES

1. SILT FENCE SHALL BE INSTALLED AT THE TOES OF SLOPES, ALONG EXISTING DRAINAGE COURSES, AROUND SOIL/MATERIALS STOCKPILES AND AS SHOWN ON THE DRAWINGS.
2. AUGMENTED SILT FENCE (SILT FENCE WITH HAY BALES) SHALL BE INSTALLED AS NECESSARY TO MAINTAIN EROSION AND SEDIMENT CONTROLS IF ADDITIONAL PROTECTION IS REQUIRED.
3. EROSION CONTROL BLANKET SHALL BE INSTALLED IN ALL VEGETATED SWALES AND ON ALL DISTURBED SLOPES GREATER THAN 3:1

SEDIMENT BARRIERS

1. SEDIMENT BARRIERS SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE.
2. SILT FENCE WITH HAY BALES SHALL BE USED IN CONJUNCTION WHERE INDICATED ON THE DRAWINGS OR WHERE A HIGHER LEVEL OF PROTECTION IS REQUIRED.

SILT FENCE

1. THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.
2. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
3. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
4. POSTS SHALL BE SPACED 8 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
5. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
6. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. STANDARD STRENGTH OF FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
8. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM (7) APPLYING.
9. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
10. SILT FENCES SHALL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

STRAW/HAY BALES

1. BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
2. ALL BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED. BALES SHALL BE INSTALLED SO THAT BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES TO PREVENT DETERIORATION OF THE BINDINGS.
3. THE BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED AND CHINKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER. BACKFILL SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER. IDEALLY, BALES SHOULD BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPE.
4. EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO STAKES DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES.
5. THE GAPS BETWEEN BALES SHALL BE CHINKED (FILLED BY WEDGING) WITH STRAW TO PREVENT WATER FROM ESCAPING BETWEEN THE BALES. (LOOSE STRAW SCATTERED OVER THE AREA IMMEDIATELY UPHILL FROM A STRAW BALE BARRIER TENDS TO INCREASE BARRIER EFFICIENCY.)
6. IN SLOPING AREAS WHERE SURFACE FLOW FOLLOWS THE BALE LINE, PERPENDICULAR BALE CHECKS SHALL BE INSTALLED AT APPROPRIATE INTERVALS (50 FEET MAXIMUM).
7. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
8. BALE BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

INSPECTION AND MAINTENANCE

1. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING, MONITORING, MAINTAINING, REPAIRING, REPLACING, AND REMOVING ALL OF THE EROSION AND SEDIMENT CONTROL MEASURES AND STRUCTURES REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS PROJECT. MAINTENANCE MEASURES SHALL BE IMPLEMENTED AS NECESSARY DURING THE ENTIRE DURATION OF THE PROJECT.

2. IN ACCORDANCE WITH MAINE REVISED STATUTES, TITLE 38, §439B, AN EXCAVATION CONTRACTOR CONDUCTING EXCAVATION ACTIVITY IN A SHORELAND AREA SHALL ENSURE THAT A PERSON CERTIFIED IN EROSION CONTROL PRACTICES BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION; IS RESPONSIBLE FOR MANAGEMENT OF EROSION AND SEDIMENT CONTROL PRACTICES AT THE SITE; AND IS PRESENT AT THE SITE EACH DAY EARTH-MOVING ACTIVITY OCCURS FOR A DURATION THAT IS SUFFICIENT TO ENSURE THAT PROPER EROSION AND SEDIMENTATION CONTROL PRACTICES ARE FOLLOWED. THE REQUIREMENTS APPLY UNTIL EROSION CONTROL MEASURES THAT WILL PERMANENTLY STAY IN PLACE HAVE BEEN INSTALLED AT THE SITE OR, IF THE SITE IS TO BE REVEGETATED, EROSION CONTROL MEASURES THAT WILL STAY IN PLACE UNTIL THE AREA IS SUFFICIENTLY COVERED WITH VEGETATION NECESSARY TO PREVENT SOIL EROSION HAVE BEEN INSTALLED.
3. AT A MINIMUM ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED WEEKLY. SILT FENCE, STRAW/HALE BALES BARRIERS, AUGMENTED SILT FENCE, AND OTHER FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL (GREATER THAN 1/2 INCH IN 24 HOURS) AND AT LEAST DAILY DURING PROLONGED RAINFALL. REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT SHOULD BE REMOVED AFTER EACH STORM EVENT AND MUST BE REMOVED WHEN DEPOSITS REACH 1/2 THE HEIGHT OF THE BARRIER. SHOULD ANY SEDIMENT BARRIER PROVE TO BE INEFFECTIVE, THE SUBCONTRACTOR SHALL AUGMENT THE BARRIER AS NECESSARY AND ACCEPTABLE TO THE ENGINEER. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM AT THE DIRECTION OF THE ENGINEER.
4. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
6. MAINTAIN ALL MEASURES IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED. IF BEST MANAGEMENT PRACTICES (BMPs) NEED TO BE MAINTAINED OR MODIFIED, ADDITIONAL BMPs ARE NECESSARY, OR OTHER CORRECTIVE ACTION IS NEEDED, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL).
7. KEEP A LOG (REPORT) SUMMARIZING THE INSPECTIONS AND ANY CORRECTIVE ACTION TAKEN. THE LOG MUST INCLUDE THE NAME(S) AND QUALIFICATIONS OF THE PERSON MAKING THE INSPECTIONS, THE DATE(S) OF THE INSPECTIONS, AND MAJOR OBSERVATIONS ABOUT THE OPERATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS, MATERIALS STORAGE AREAS, AND VEHICLE ACCESS POINTS TO THE PARCEL. MAJOR OBSERVATIONS MUST INCLUDE BMPs THAT NEED MAINTENANCE, BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, AND LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED. FOR EACH BMP REQUIRING MAINTENANCE, BMP NEEDING REPLACEMENT, AND LOCATION NEEDING ADDITIONAL BMPs, NOTE IN THE LOG THE CORRECTIVE ACTION TAKEN AND WHEN IT WAS TAKEN.
8. THE LOG MUST BE MADE ACCESSIBLE TO MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION STAFF AND A COPY MUST BE PROVIDED UPON REQUEST. COPIES OF THE LOGS SHALL BE RETAINED FOR A PERIOD OF AT LEAST THREE YEARS FROM THE COMPLETION OF PERMANENT STABILIZATION.

TEMPORARY STABILIZATION

1. ONLY THOSE AREAS UNDER ACTIVE CONSTRUCTION SHALL BE CLEARED AND LEFT IN AN UNTREATED OR UNVEGETATED CONDITION. PERMANENT SEEDING OR FINAL STABILIZATION SHALL BE CARRIED OUT IMMEDIATELY AFTER FINAL GRADING IS COMPLETED. IF PLACEMENT OF TOPSOIL AND SEED WILL NOT TAKE PLACE WITHIN 7 DAYS OF FINAL GRADING, THE AREA SHALL BE TREATED WITH ANCHOR MULCH OR SEEDED WITH CONSERVATION MIX OF ANNUAL RYE GRASS (0.9 LBS/1,000 SF) AND MULCHED IMMEDIATELY.
2. TOPSOIL AND OTHER CONSTRUCTION MATERIALS SHALL BE STOCKPILED WHEN NECESSARY IN AREAS WHICH HAVE MINIMUM POTENTIAL FOR EROSION AND WILL BE KEPT AS FAR AS POSSIBLE FROM WETLAND AREAS, EXISTING DRAINAGE COURSES, ETC. THE BASE OF ALL STOCKPILES SHALL BE CONTAINED BY SILT FENCE. ALL STOCKPILES EXPECTED TO BE IN PLACE AND UNDISTURBED FOR MORE THAN 30 DAYS SHALL BE EITHER TREATED WITH ANCHORED MULCH OR SEEDED WITH CONSERVATION MIX AND MULCHED IMMEDIATELY.
3. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIRECTED TO SOIL EROSION AND SEDIMENT CONTROL MEASURES.
4. ALL GRADING SHALL BE HELD TO A MAXIMUM 2:1 SLOPE WHERE PRACTICAL UNLESS OTHERWISE INDICATED.
5. TEMPORARY MULCH SHALL BE APPLIED OVER ALL DISTURBED AREAS PRIOR TO ANY PREDICTED RAIN EVENT.
6. TEMPORARY SEEDING FOR EROSION CONTROL USING A COMBINATION OF OATS, ANNUAL RYE, PERENNIAL RYE, WINTER RYE, AND SUDAN GRASS SHALL BE PERFORMED IN ACCORDANCE WITH THE MEDEP GUIDELINES BASED ON SEEDING DATES. APPLY LIMESTONE BASED ON SOIL TEST RESULTS OR AT A MINIMUM RATE OF 3 TONS PER ACRE. APPLY FERTILIZER BASED ON SOIL TEST RESULTS OR AT A MINIMUM RATE OF 600 POUNDS PER ACRE. MULCH IMMEDIATELY. REFER TO SPECIFICATION 02370 "EROSION AND SEDIMENTATION CONTROL" FOR ADDITIONAL INFORMATION.

FINAL (PERMANENT) STABILIZATION

1. TOPSOIL UNIFORM APPLICATION TO A DEPTH OF 4" (FINISHED DEPTH) SHALL BE SPREAD OVER DISTURBED AREAS TO BE SEEDED.
2. IF FINAL GRADING IS ACHIEVED DURING THE NORMAL GROWING SEASON (4/15 TO 9/15), PERMANENT SEEDING SHALL BE PERFORMED.

FINAL (PERMANENT) STABILIZATION (CONTINUED)

3. PERMANENT SEEDING AND MULCHING; REFER TO SPECIFICATION 02920 "SEEDING" FOR ADDITIONAL INFORMATION.
 - A. **SITE PREPARATION**
GRADE AS FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE.
 - B. **SEED PREPARATION**
APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF MAINE SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 POUNDS PER ACRE OR 18.4 POUNDS PER 1,000 SQUARE FEET USING 10-20-20 (N-P2O5-K2O) OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SQ. FT.).
 - C. **SOIL PREPARATION**
WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE. REMOVE FROM THE SURFACE ALL STONES 2 INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.

- D. **SEEDING**
SEED SHALL BE MAINE EROSION AND SEDIMENT CONTROL BMPs SEED MIXTURE 2 OR MDOF SEED MIXTURE #2, FOR METHOD NUMBER 2, WITH APPLICATION RATE AS SPECIFIED. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER), NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING WITH MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
 - E. **MULCHING**
REFER TO MAINE EROSION AND SEDIMENT CONTROL BMPs FOR PERMANENT MULCHING.
 - F. **MAINTENANCE**
AFTER PERMANENT SEEDING HAS BEEN ACCOMPLISHED, THE SITE SHALL BE INSPECTED EVERY 14 DAYS UNTIL 90% COVER HAS BEEN ESTABLISHED. RESEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITHIN 10 DAYS OF DETERMINATION/NOTIFICATION THAT THE EXISTING CATCH IS INADEQUATE.
4. CONSTRUCTION SHALL BE PLANNED SO THAT SEEDING IS PERFORMED BETWEEN 4/15 AND 9/15. SHOULD SEEDING BE NECESSARY OUTSIDE THOSE DATES, THE FOLLOWING PROCEDURE SHALL BE IMPLEMENTED:
 - A. ONLY UNFROZEN TOPSOIL SHALL BE USED.
 - B. PLACEMENT OF TOPSOIL, SEED, AND MULCH SHALL NOT BE PERFORMED OVER SNOW OR ICE COVER. IF SNOW EXISTS, IT MUST BE REMOVED PRIOR TO PLACEMENT OF SEED.
 - C. WHERE PERMANENT SEED IS NECESSARY, ANNUAL WINTER RYE (1.2 LBS/ 1,000 SF) SHALL BE ADDED TO THE PERMANENT SEED MIX.
 - D. WHERE TEMPORARY SEEDING IS REQUIRED, ANNUAL WINTER RYE (2.6 LBS. 1,000 SF) SHALL BE SOWN INSTEAD OF THE TEMPORARY SEED MIX NOTED IN SUBSEQUENT SECTIONS.
 - E. FERTILIZING, SEEDING, AND MULCHING SHALL BE PERFORMED ON THE DAY THAT TOPSOIL IS SPREAD.
 - F. HAY MULCH SHALL BE SECURED WITH PHOTODEGRADABLE/BIODEGRADABLE NETTING.
 - G. AFTER PERMANENT SEEDING HAS BEEN ACCOMPLISHED, THE SITE SHALL BE INSPECTED EVERY 14 DAYS UNTIL 90% COVER HAS BEEN ESTABLISHED. RESEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITHIN 10 DAYS OF DETERMINATION/NOTIFICATION THAT THE EXISTING CATCH IS INADEQUATE.

ADDITIONAL NOTES:

STABILIZED CONSTRUCTION ACCESS

1. STABILIZED CONSTRUCTION ACCESS SHALL BE INSTALLED TO PREVENT SEDIMENT FROM DISTURBED WORK AREAS ENTERING PAVED AREAS.
2. THE TEMPORARY CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED WITH 2"-3" CRUSHED STONE A MINIMUM DEPTH OF 6 INCHES. GEOTEXTILE FABRIC SHALL BE INSTALLED BENEATH THE STONE LAYER.

DUST CONTROL

1. DEFINITION: THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.
2. PURPOSE: TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, AND REDUCE THE PRESENCE OF DUST WHICH MAY CAUSE OFF-SITE DAMAGE, BE A HEALTH HAZARD TO HUMANS, WILDLIFE AND PLANT LIFE, OR BECOME A TRAFFIC SAFETY HAZARD.
3. APPLICABILITY: TO AREAS SUBJECT TO DUST BLOWING AND SOIL MOVEMENT WHERE ON-SITE AND OFF-SITE DAMAGE IS LIKELY TO OCCUR IF PREVENTIVE MEASURES ARE NOT TAKEN.
4. ENVIRONMENTAL CONSIDERATIONS: AIRBORNE SOIL PARTICLES CAN BE A SOURCE OF POLLUTION AS WELL AS A NUISANCE FACTOR.
5. PLANNING CONSIDERATIONS: USE TRAFFIC CONTROL TO RESTRICT TRAFFIC TO PREDETERMINED ROUTES. MAINTAIN AS MUCH NATURAL VEGETATION AS IS PRACTICABLE. USE PHASING OF CONSTRUCTION TO REDUCE THE AREA OF LAND DISTURBED AT ANY ONE TIME. THE USE OF TEMPORARY MULCHING, PERMANENT MULCHING, TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER, OR SODDING WILL REDUCE THE NEED FOR DUST CONTROL. USE MECHANICAL SWEEPERS ON PAVED SURFACES WHERE NECESSARY TO PREVENT DUST BUILDUP. STATIONARY SOURCES OF DUST, I.E., ROCK CRUSHERS, SHOULD UTILIZE FINE WATER SPRAYS TO CONTROL DUST.
6. MATERIALS SPECIFICATIONS:
 - A. WATER: THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
 - B. STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. IN AREAS ADJACENT TO WATERWAYS, USE CHEMICALLY STABLE AGGREGATE.
7. MAINTENANCE: WHEN TEMPORARY DUST CONTROL MEASURE ARE USED, REPETITIVE TREATMENT SHALL BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.
8. REFER TO SPECIFICATION 01560 "DUST AND ODOR CONTROL" FOR ADDITIONAL INFORMATION.

DEWATERING

1. DEWATERING OPERATIONS MUST BE CONDUCTED IN ACCORDANCE WITH MAINE EROSION AND SEDIMENT CONTROL BMPs AND SHALL NOT DISCHARGE DIRECTLY INTO SURFACE WATERS.



8410 W. BRYN MAWR AVE
CHICAGO, IL 60631

CW ROCKPORT

SITE NO.: 444555

CONSTRUCTION DRAWINGS

A	5/31/19	ISSUED FOR REVIEW

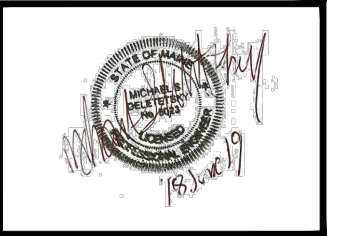


511 Congress Street, Portland ME 04101
(207) 775-5401

PROJECT COORDINATION & MANAGEMENT



Phone: (603) 888-8974 127 Ridge Road, Nashua, NH 03062



DRAWN BY: BRT

REVIEWED BY: RWB

CHECKED BY: MSD

PROJECT NUMBER: 3618198678

JOB NUMBER: 444555

SITE ADDRESS

0 VINAL ST.
ROCKPORT, ME 04856

SHEET TITLE

SOIL EROSION AND
SEDIMENT CONTROL
NOTES

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