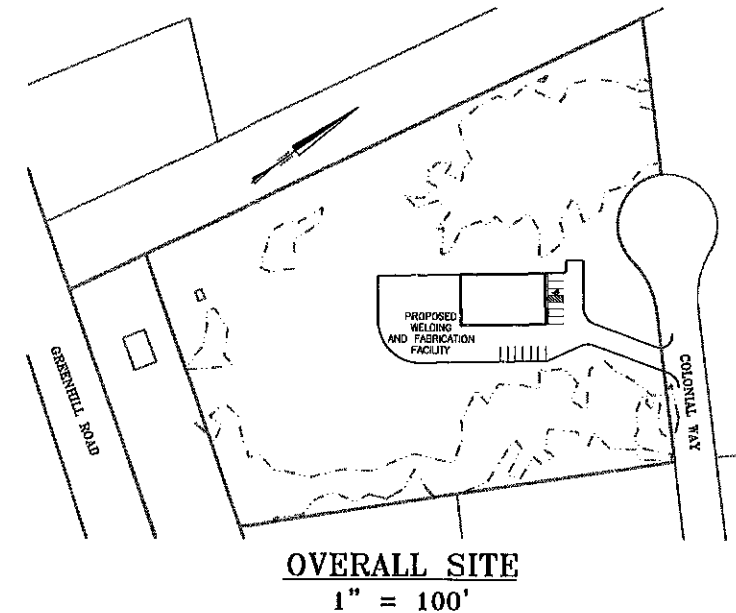
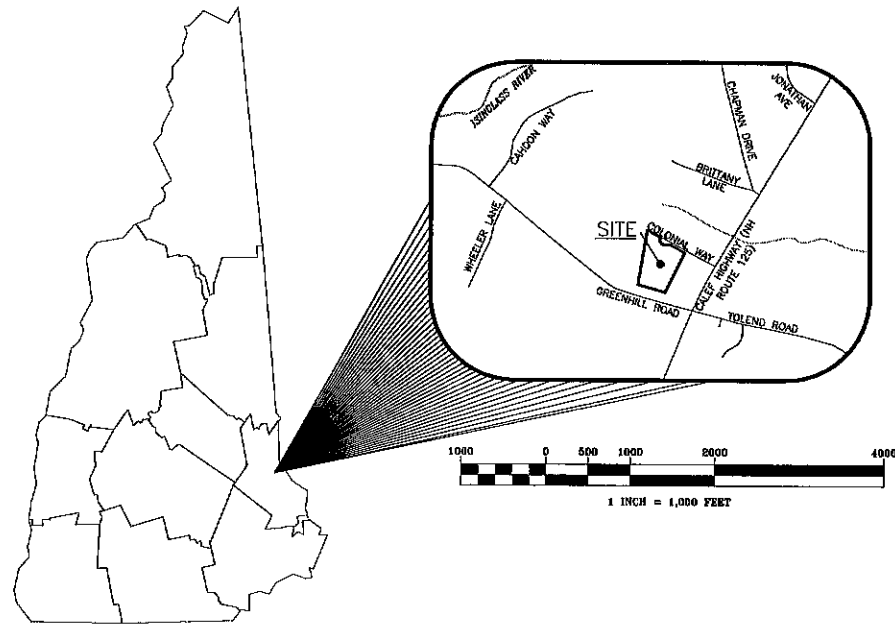




PROPOSED WELDING AND FABRICATION FACILITY

COLONIAL WAY, BARRINGTON TAX MAP 220, LOT 29

PREPARED FOR
ANDERSON PROPERTIES, LLC
MARCH 2020



CIVIL ENGINEERS
 NORWAY PLAINS ASSOCIATES, INC.
 2 CONTINENTAL BOULEVARD
 ROCHESTER, NEW HAMPSHIRE 03867
 (603) 335-3948

OWNER OF RECORD
 TAX MAP 220, LOT 29
 WANDA LEE & RICHARD A. WALKER, JR.
 24 GREEN HILL ROAD
 BARRINGTON, NH 03825-4400
 S.C.R.D. BOOK 1962, PAGE 702

APPLICANT
 ANDERSON PROPERTIES, LLC
 289 1ST NEW HAMPSHIRE TURNPIKE UNIT #6
 NORTHWOOD, NH 03261
 (603) 828-5878

STATE AND FEDERAL PERMITS:
 STATE OF NEW HAMPSHIRE PERMIT NUMBERS:
 NHDES ALTERATION OF TERRAIN: NOT REQUIRED
 NHDES WETLANDS PERMIT: NOT REQUIRED
 NHDES DAM PERMIT: NOT REQUIRED
 NHDES SUBDIVISION PERMIT: NOT REQUIRED
 NHDES SUBSURFACE SYSTEMS PERMIT: PENDING
 NHDES WASTEWATER PERMIT: NOT REQUIRED
 NHDOT DRIVEWAY/ENTRANCE PERMIT: NOT REQUIRED

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES):
 NPDES PERMITS ARE ONLY REQUIRED FOR PROJECTS MEETING THE DISTURBED AREA CRITERIA BELOW AND HAVING A POINT SOURCE STORMWATER DISCHARGE FROM THE SITE TO AN ADJACENT WETLAND OR WATER BODY (I.E. CULVERT, SWALE, ETC. OUTLETING TO A WETLAND, CREEK, STREAM OR RIVER).

NPDES PERMIT: REQUIRED
 NPDES PERMITS CONSIST OF A NOTICE OF INTENT (NOI) FILED WITH THE ENVIRONMENTAL PROTECTION AGENCY AT LEAST 14 DAYS PRIOR TO CONSTRUCTION COMMENCING AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BEING PREPARED, KEPT ON SITE AND FOLLOWED BY THE CONTRACTOR.
 FOR STATUS OF THIS PERMIT, CONTACT THE PROJECT GENERAL CONTRACTOR.

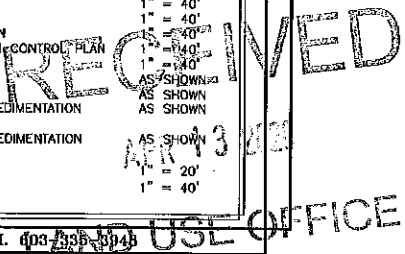
SIGNATURE OF OWNERS: _____
 SIGNATURE OF DEVELOPER: _____

PLANNING BOARD APPROVAL BLOCK

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

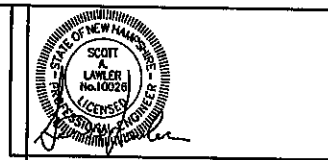
FILE NO. 194
 PLAN NO. C-3030-SP
 DWG NO. 19216-SP-1

SHEET INDEX		
SHEET E-1	COVER	1" = 40'
SHEET C-1	EXISTING FEATURES	1" = 40'
SHEET C-1	OVERALL SITE PLAN	1" = 40'
SHEET C-2	SITE LAYOUT PLAN	1" = 40'
SHEET C-3	GRADING AND DRAINAGE PLAN	1" = 40'
SHEET C-4	EROSION AND SEDIMENTATION CONTROL PLAN	1" = 40'
SHEET C-5	UTILITY PLAN	AS SHOWN
SHEET C-6	CONSTRUCTION DETAILS	AS SHOWN
SHEET C-7	DRAINAGE DETAILS	AS SHOWN
SHEET C-8	TEMPORARY EROSION AND SEDIMENTATION CONTROL DETAILS	AS SHOWN
SHEET C-9	PERMANENT EROSION AND SEDIMENTATION CONTROL DETAILS	AS SHOWN
SHEET SSD	SEPTIC SYSTEM DESIGN	1" = 20'
SHEET L-4	LIGHTING PLAN AND DETAILS	1" = 40'



- LEGEND
- PROPERTY LINE
 - BUILDING SETBACK
 - - - JURISDICTIONAL WETLANDS
 - - - EXISTING TREE LINE
 - - - EXISTING OVERHEAD WRES
 - PROPOSED BUILDING
 - PROPOSED PAVEMENT
 - PROPOSED PAVEMENT WITH CURBING
 - - - PROPOSED TREE LINE

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



REVISION BLOCK

TAX MAP 220, LOT 26
TODD & DEBRA LEFAGE
30 GREENHILL ROAD
BARRINGTON, NH 03825
S.C.R.D. BOOK 2180, PAGE 219

TAX MAP 220, LOT 31
WCH VENTURES, LLC
25 COLONIAL WAY
BARRINGTON, NH 03825
S.C.R.D. BOOK 4424, PAGE 560

TAX MAP 220, LOT 27
WANDA LEE &
RICHARD A. WALKER, JR.
24 GREENHILL ROAD
BARRINGTON, NH 03825-4400
S.C.R.D. BOOK 1853, PAGE 787

TAX MAP 220, LOT 28
TERRENCE W. MILNER, JR.
AND SUSAN M. MILNER
FAMILY TRUST
500 PICKERING ROAD
ROCHESTER, NH 03867
S.C.R.D. BOOK 4395, PAGE 510

TAX MAP 220, LOT 28-1
FAA INVESTMENT PROPERTIES, LLC
SUITE E, 9 COLONIAL WAY
BARRINGTON, NH 03825-6404
S.C.R.D. BOOK 2918, PAGE 705

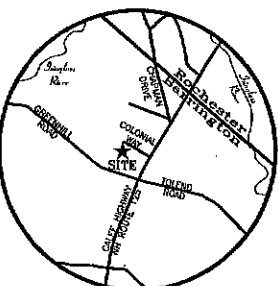
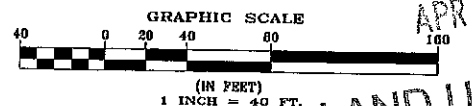
TAX MAP 220, LOT 32
WOLFGANG & KLAUS BOEHM
11 JORDON ROAD
STRAFFORD, NH 03304
S.C.R.D. BOOK 1304, PAGE 15

- GENERAL SITE PLAN NOTES
- THE PURPOSE OF THIS PLAN IS TO DEPICT A PROPOSED WELDING MANUFACTURE BUILDING AND ASSOCIATED PARKING.
 - THIS PARCEL IS LOCATED IN THE REGIONAL COMMERCIAL (RC) ZONING DISTRICT AND THE STRATIFIED DRIFT AQUIFER OVERLAY DISTRICT.
 - TOTAL PARCEL AREA:
MAP 220, LOT 29: 243,692 SQUARE FEET / 5.59 ACRES.
 - DIMENSIONAL REGULATIONS PER ZONING ORDINANCE:
REGIONAL COMMERCIAL (RM) DISTRICT:
MINIMUM LOT SIZE = 40,000 SF
MINIMUM LOT FRONTAGE = 200 FEET
MINIMUM YARD SETBACKS:
FRONT = 75'
SIDE = 30'
REAR = 30'
WETLAND BUFFER = N/A, PARCEL WAS CREATED IN 1965, SEE REFERENCE PLAN 1.
MAXIMUM LOT COVERAGE = 50%
MAXIMUM BUILDING HEIGHT = 40'
 - ORIENTATION: HORIZONTAL - N15P28 AND VERTICAL - N40W10.
 - SOIL SERIES TYPES ARE PER NATURAL RESOURCES CONSERVATION SERVICE, SALICUTUCK LOAMY SAND.
 - WETLANDS DELINEATION WAS COMPLETED BY JOSEPH W. NOEL, CWS 089 ON SEPTEMBER 09, 2019.
 - PARCEL IS NOT LOCATED WITHIN ZONE A (100YR FLOOD) AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY MAP NUMBER 330170030E DATED SEPTEMBER 30, 2015.
 - IF DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE CONTRACTOR SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
 - REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISBURSANCE OF THE SITE'S SURFACE AREA AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. IF DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY PROTECTION AT NO EXPENSE TO THE TOWN.
 - ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN OF BARRINGTON SITE REVIEW REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION.
 - FOR MORE INFORMATION ABOUT THIS SITE PLAN, CONTACT THE TOWN OF BARRINGTON LAND USE DEPARTMENT, PO BOX 650, 333 CALEF HIGHWAY, BARRINGTON, NH 03825, (603) 664-5187.
 - PARKING REQUIREMENTS:
INDUSTRY AND LIGHT INDUSTRY: 1.5 SPACES / 1,000 SF OF GROSS FLOOR AREA
REQUIRED: 1.5 SPACES / 1,000 SF * 6,000 SF = 9 SPACES
PROVIDED: 12 SPACES
ACCESSIBLE SPACES: 1 REQUIRED, 1 PROVIDED
 - THIS DEVELOPMENT MUST BE IN COMPLIANCE WITH ALL APPLICABLE LAW - INCLUDING ALL PERMITS, PROVISIONS OF THE TOWN OF BARRINGTON SITE PLAN REGULATIONS - UNLESS OTHERWISE WAIVED.
 - ACCESS INTO THE SITE FOR FIRE APPARATUS MUST BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS. THIS IS THE SOLE RESPONSIBILITY OF THE APPLICANT/DEVELOPER TO MAINTAIN ACCESS. PLEASE CONTACT THE FIRE DEPARTMENT AT 603-664-2241 WITH ANY QUESTIONS ABOUT ACCESS REQUIREMENTS.
 - SNOW SHALL NOT BE PAILED IN SUCH A MANNER TO BLOCK THE VISIBILITY OF VEHICLES ON COLONIAL WAY AND ALL EXCESS SNOW SHALL BE REMOVED FROM THE SITE.
 - ALL OUTSIDE CONSTRUCTION ACTIVITIES RELATED TO THE DEVELOPMENT OF THIS SITE IS RESTRICTED TO THE HOURS OF 7 AM TO 6 PM MONDAY THROUGH FRIDAY AND 8 AM TO 6 PM SATURDAY.
 - THIS PROJECT PROPOSED TO DISTURB OVER ONE ACRE OF EXISTING GROUND COVER AND MEETS OTHER SPECIFIC REQUIREMENTS RELATED TO PERMIT CRITERIA FOR EPA NPDES COMPLIANCE. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPMENT AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), SUBMISSION OF A NOTICE OF INTENT (NOI) TO EPA, INSPECTIONS AND MAINTENANCE OF SEDIMENT CONTROL MEASURES, DOCUMENTATION OF MAINTENANCE ACTIVITIES, AND SUBMISSION OF A NOTICE OF TERMINATION (NOT) TO EPA. THE CONTRACTOR IS ALSO RESPONSIBLE TO COMPLY WITH ANY OR ALL OTHER ASPECTS OF THE CURRENT FEDERAL, STATE AND LOCAL STORM WATER OR NPDES REGULATIONS OR REQUIREMENTS.
 - THE PROPOSED SITE DEVELOPMENT WILL INCLUDE 27,332 SQUARE FEET OF IMPERVIOUS COVER WHICH IS 11.2% OF THE ENTIRE SITE.
 - THE SITE WILL BE SERVED BY AN ON-SITE WELL AND AN INDIVIDUAL SEPTIC SYSTEM.
 - IN ACCORDANCE WITH TOWN REGULATIONS AND RSA 676:13, ALL IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETE, INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - IN ACCORDANCE WITH BARRINGTON SITE PLAN REVIEW REGULATIONS AND RSA 676:12, ALL OFF-SITE IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETE, INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON (AND/OR THE INDOCT, IF APPLICABLE) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

- PLAN REFERENCES:
- "SUBDIVISION PLAN, PAUL R. CHAPMAN, BARRINGTON, N.H." DATED OCTOBER 1985 BY FREDERICK E. DREW ASSOCIATES SCRD PLAN 26A-85
 - "PLAN OF LAND, JAMES W. LANDRY JR., JOAN N. LANDRY, BARRINGTON, N.H." DATED APRIL 1992 BY FREDERICK E. DREW ASSOCIATES SCRD PLAN 32A-85
 - "SUBDIVISION PLAN, PREPARED FAA INVESTMENT PROPERTIES LLC OF LAND IN THE NAME OF DONIS J. PATCH OF MAP 12 / LOT 1350 LOCATED AT NH ROUTE 125, COLONIAL WAY AND GREEN HILL ROAD, COUNTY OF STRAFFORD, BARRINGTON, NH DATED OCTOBER 15, 2003 BY DAVID W. VICENT, U.S. LAND SURVEYING SERVICES SCRD PLAN 73-85

OWNER OF RECORD:
TAX MAP 220, LOT 29
WANDA LEE & RICHARD A. WALKER, JR.
24 GREENHILL ROAD
BARRINGTON, NH 03825-4400
S.C.R.D. BOOK 1962, PAGE 702

OVERALL SITE PLAN
TAX MAP 220, LOT 29
COLONIAL WAY
BARRINGTON, NH
PREPARED FOR
ANDERSON PROPERTIES, LLC
MARCH 2020

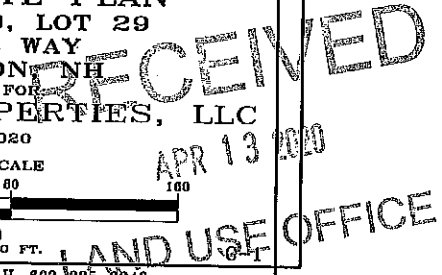


FILE NO. 194
PLAN NO. C-3030-SP
DWG NO. 19216\SP-1

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-385-3948



PLANNING BOARD APPROVAL BLOCK

SIGNATURE OF OWNERS: _____

SIGNATURE OF DEVELOPER: _____

LEGEND

- PROPERTY LINE
- - - JURISDICTIONAL WETLANDS
- - - EXISTING TREE LINE
- - - EXISTING OVERHEAD WIRES
- - - EXISTING HYDRANT
- ⊕ EXISTING WATER GATE OR SHUT-OFF VALVE
- ⊕ EXISTING UTILITY POLE
- ▭ PROPOSED BUILDING
- ▭ PROPOSED PAVEMENT
- BC PROPOSED PAVEMENT WITH CURBING
- - - PROPOSED TREE LINE
- ▭ PROPOSED PAVEMENT
- ▭ PROPOSED SIGN
- R20' PAVEMENT RADIUS (20')
- ▭ PROPOSED STANDARD PARKING SPACES (9' x 18')
- ▭ PROPOSED VAN ACCESSIBLE PARKING SPACES (8' x 18' WITH 8' x 18' ACCESS ISLE)

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



REVISION BLOCK

TAX MAP 220, LOT 26
TODD & DEBRA LEPAGE
30 GREENHILL ROAD
BARRINGTON, NH 03825
S.C.R.D. BOOK 2150, PAGE 219

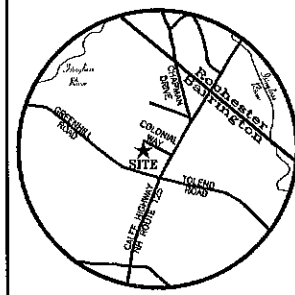
TAX MAP 220, LOT 31
WCH VENTURES, LLC
26 COLONIAL WAY
BARRINGTON, NH 03825
S.C.R.D. BOOK 4424, PAGE 960

TAX MAP 220, LOT 27
WANDA LEE & RICHARD A. WALKER, JR.
24 GREENHILL ROAD
BARRINGTON, NH 03825-4400
S.C.R.D. BOOK 1653, PAGE 702

TAX MAP 220, LOT 28
TERRENCE W. MILNER, JR.
AND SUSAN W. MILNER
FAMILY LIVING TRUST
600 PICKERING ROAD
ROCHESTER, NH 03867
S.C.R.D. BOOK 4385, PAGE 510

TAX MAP 220, LOT 25-1
FAM INVESTMENT PROPERTIES, LLC
SUITE E, 9 COLONIAL WAY
BARRINGTON, NH 03825-9404
S.C.R.D. BOOK 2910, PAGE 705

TAX MAP 220, LOT 32
WOLFGANG & KLAUS BOEHA
11 COLCO ROAD
STRAFFORD, NH 03304
S.C.R.D. BOOK 1304, PAGE 15



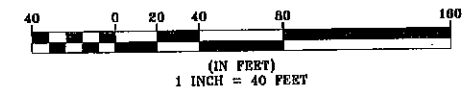
LOCUS MAP
N.T.S.

FILE NO. 194
PLAN NO. C-3030-SP
DWG NO. 19216\SP-1

OWNER OF RECORD:
TAX MAP 220, LOT 29
WANDA LEE & RICHARD A. WALKER, JR.
24 GREENHILL ROAD
BARRINGTON, NH 03825-4400
S.C.R.D. BOOK 1962, PAGE 702

SITE LAYOUT PLAN
TAX MAP 220, LOT 29
COLONIAL WAY
BARRINGTON, NH
PREPARED FOR:
ANDERSON PROPERTIES, LLC

MARCH 2020
GRAPHIC SCALE





REVISION BLOCK

- LEGEND**
- PROPERTY LINE
 - - - JURISDICTIONAL WETLANDS
 - - - EXISTING TREE LINE
 - - - EXISTING DRAIN LINE
 - - - EXISTING CONTOUR LINE
 - - - EXISTING TEST PIT
 - - - EXISTING SPOT GRADE
 - - - PROPOSED SPOT GRADE
 - - - PROPOSED TREE LINE
 - - - PROPOSED DRAIN LINE
 - - - PROPOSED CONTOUR LINE
 - ▲ PROPOSED FLARED END SECTION (FES)
 - CPP CORRUGATED POLYETHYLENE PIPE
 - ▲ PROPOSED OUTLET PROTECTION

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TAX MAP 220, LOT 26
TODD & DEBRA LEPAGE
30 GREENHILL ROAD
BARRINGTON, NH 03825
S.C.R.D. BOOK 2180, PAGE 219

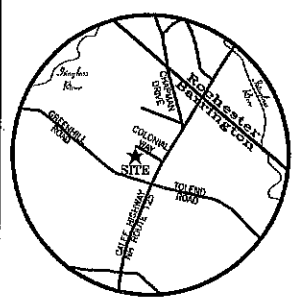
TAX MAP 220, LOT 31
WCH VENTURES, LLC
28 COLONIAL WAY
BARRINGTON, NH 03825
S.C.R.D. BOOK 1424, PAGE 980

TAX MAP 220, LOT 27
WANDA LEE &
RICHARD A. WALKER, JR.
24 GREENHILL ROAD
BARRINGTON, NH 03825-4400
S.C.R.D. BOOK 1653, PAGE 787

TAX MAP 220, LOT 28
TERRENCE W. MALTER, JR.
AND SUSAN M. MALTER
FAMILY LIVING TRUST
600 PICKERING ROAD
ROCHESTER, NH 03067
S.C.R.D. BOOK 1395, PAGE 510

TAX MAP 220, LOT 28-1
FMA INVESTMENT PROPERTIES, LLC
SUITE E, 9 COLONIAL WAY
BARRINGTON, NH 03825-6404
S.C.R.D. BOOK 2918, PAGE 705

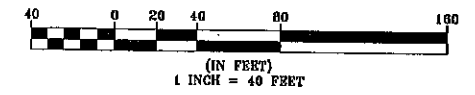
TAX MAP 220, LOT 32
WOLFGANG & KLAUS BOEHM
11 JOALCO ROAD
STRATFORD, NH 03884
S.C.R.D. BOOK 1304, PAGE 15



FILE NO. 194
PLAN NO. C-3030-SP
DWG NO. 19216\SP-1

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.



OWNER OF RECORD:
TAX MAP 220, LOT 29
WANDA LEE & RICHARD A. WALKER, JR.
24 GREENHILL ROAD
BARRINGTON, NH 03825-4400
S.C.R.D. BOOK 1962, PAGE 702

GRADING & DRAINAGE PLAN
TAX MAP 220, LOT 29
COLONIAL WAY
BARRINGTON, NH

PREPARED FOR:
ANDERSON PROPERTIES, LLC
MARCH 2020
GRAPHIC SCALE

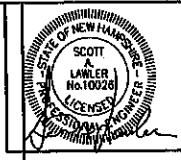
RECEIVED
APR 13 2020
LAND USE OFFICE

2 Continental Blvd., Rochester, N.H. 603-335-3948

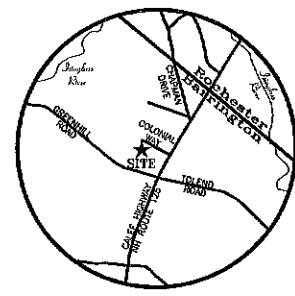
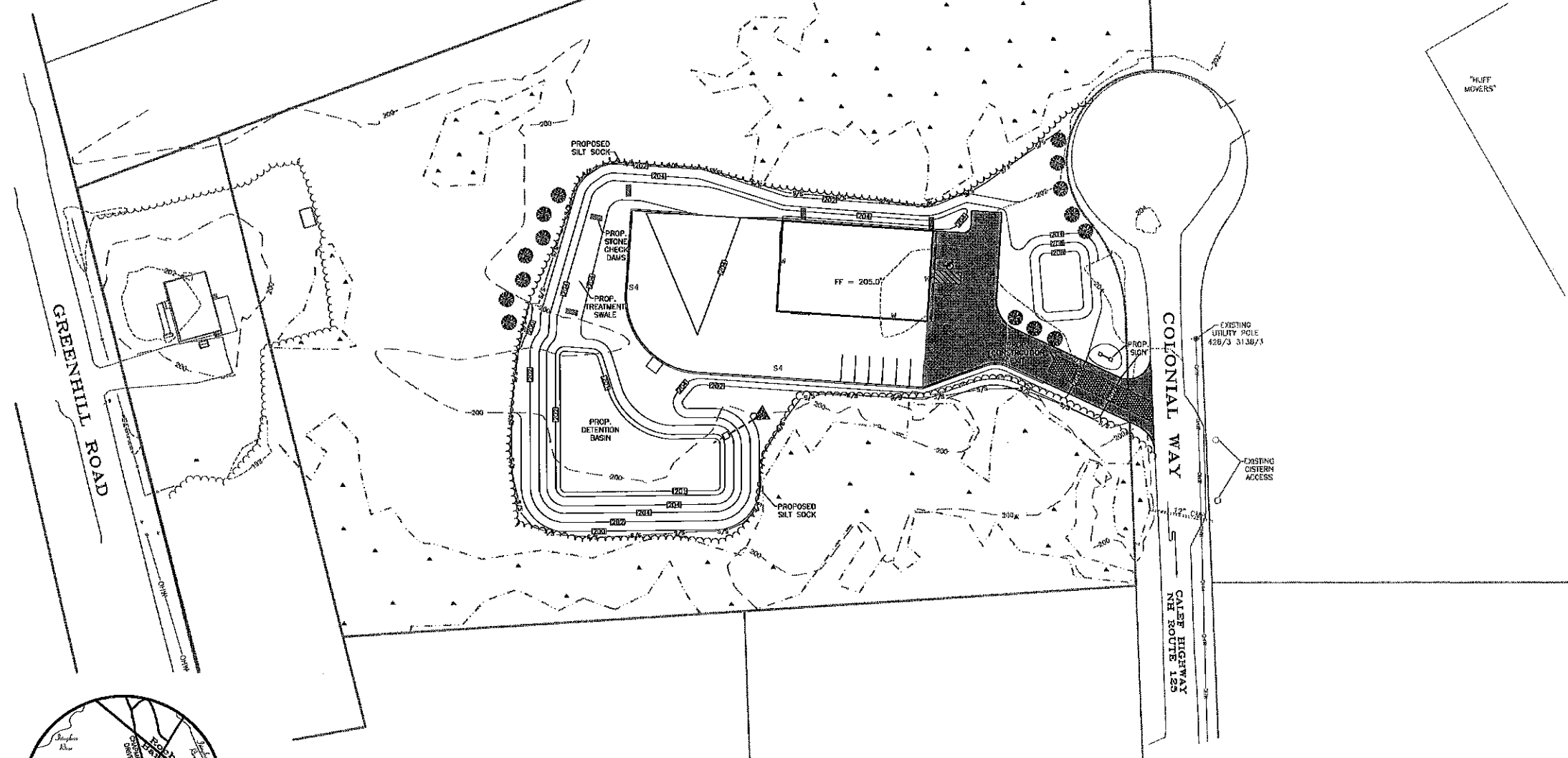
LEGEND

- PROPERTY LINE
- - - JURISDICTIONAL WETLANDS
- - - EXISTING TREE LINE
- - - EXISTING DRAIN LINE
- - - 232 - EXISTING CONTOUR LINE
- - - EXISTING CATCH BASIN
- - - PROPOSED TREE LINE
- - - PROPOSED DRAIN LINE
- - - 234 - PROPOSED CONTOUR LINE
- - - 5/1 - PROPOSED SILTATION FENCE
- - - 5/5 - PROPOSED SILTATION SOCK
- ▨ PROPOSED TEMPORARY STABILIZED CONSTRUCTION ERT
- ▨ PROPOSED TEMPORARY STONE CHECK DAMS

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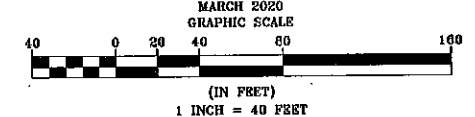


LOCUS MAP
N.T.S.

FILE NO. 194
PLAN NO. C-3030-SP
DWG NO. 19216\SP-1

OWNER OF RECORD:
TAX MAP 220, LOT 29
WANDA LEE & RICHARD A. WALKER, JR.
24 GREENHILL ROAD
BARRINGTON, NH 03825-4400
S.C.R.D. BOOK 1982, PAGE 702

**EROSION & SEDIMENTATION
CONTROL PLAN**
TAX MAP 220, LOT 29
COLONIAL WAY
BARRINGTON, NH
PREPARED FOR:
ANDERSON PROPERTIES, LLC



LEGEND

- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- EXISTING TREE LINE
- EXISTING DRAIN LINE
- 232 EXISTING CONTOUR LINE
- PROPOSED TREE LINE
- PROPOSED DRAIN LINE
- PROPOSED CONTOUR LINE
- OHW PROPOSED OVERHEAD WIRES
- UGU PROPOSED UNDERGROUND ELECTRIC
- PW PROPOSED WATER LINE
- PROPOSED WELL
- PROPOSED UTILITY POLE

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TAX MAP 220, LOT 26
TODD & DEBRA LEPAGE
30 GREENHILL ROAD
BARRINGTON, NH 03825
S.C.R.D. BOOK 2180, PAGE 219

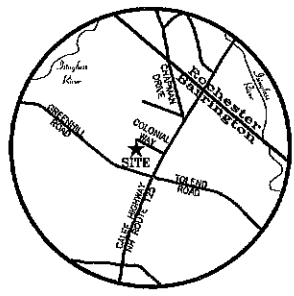
TAX MAP 220, LOT 31
WCH VENTURES, LLC
28 COLONIAL WAY
BARRINGTON, NH 03825
S.C.R.D. BOOK 4424, PAGE 980

TAX MAP 220, LOT 27
MARDA LEE &
RICHARD A. WALKER, JR.
24 GREENHILL ROAD
BARRINGTON, NH 03825-4400
S.C.R.D. BOOK 1653, PAGE 787

TAX MAP 220, LOT 28
TERRENCE W. MALTNER, JR.
AND SUEGA M. MALTNER
FAMILY LIVING TRUST
600 PICKERING ROAD
ROCHESTER, NH 03867
S.C.R.D. BOOK 4395, PAGE 510

TAX MAP 220, LOT 28-1
FAA INVESTMENT PROPERTIES, LLC
SUITE E, 9 COLONIAL WAY
BARRINGTON, NH 03825-8404
S.C.R.D. BOOK 2918, PAGE 705

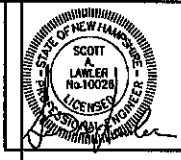
TAX MAP 220, LOT 32
WOLFGANG & KLAUS BOEHM
11 JOLICO ROAD
STRAFFORD, NH 03884
S.C.R.D. BOOK 1304, PAGE 15



FILE NO. 194
PLAN NO. C-3030-SP
DWG NO. 19218\SP-1

31 Mooney Street, Alton, N.H. 603-875-3948

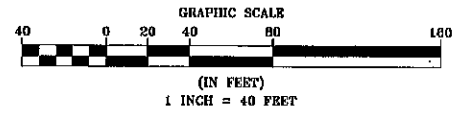
NORWAY PLAINS ASSOCIATES, INC.



REVISION BLOCK

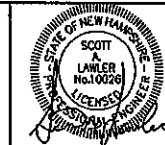
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APR 13 2020
LAND USE OFFICE

UTILITY PLAN
TAX MAP 220, LOT 29
COLONIAL WAY
BARRINGTON, NH
PREPARED FOR:
ANDERSON PROPERTIES, LLC
MARCH 2020

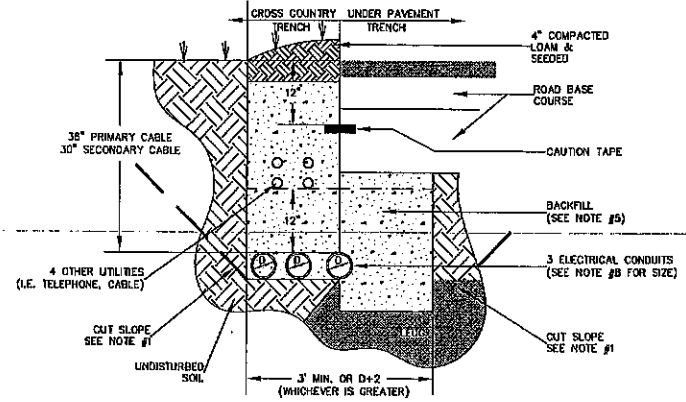




CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-336-3948.

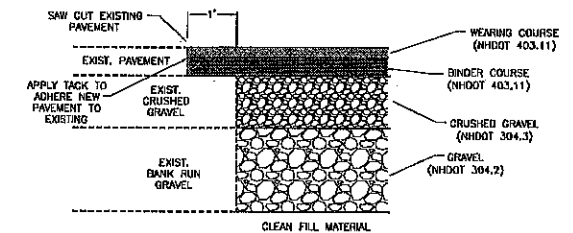


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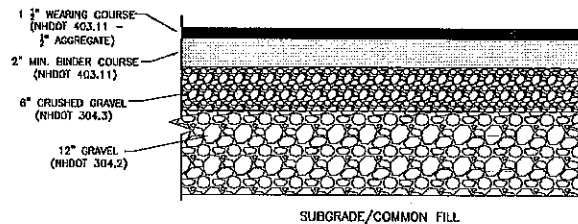


- NOTES:**
- ALL NON-METALLIC CONDUIT AND FITTINGS SHALL BE ELECTRICAL GRADE, SCHEDULE 40 PVC, AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF NEMA TC2-1993 AND BE UL LISTED. ONLY GRAY-COLORED CONDUIT WILL BE ACCEPTED. ANY PVC CONDUIT NOT HAVING THE PROPER NEMA AND UL MARKINGS WILL NOT BE ACCEPTED. ALL STEEL CONDUITS SHALL CONFORM TO ASTM A120 AND BE RIGID GALVANIZED STEEL. ALL PVC JOINTS MUST BE CEMENTED. STEEL FITTINGS SHALL BE SEALED WITH COMPOUND.
 - ALL 90 DEGREE SHEEPS WILL BE MADE USING RIGID GALVANIZED STEEL WITH A MINIMUM RADIUS OF 36 INCHES FOR PRIMARY CABLES AND 24 INCHES FOR SECONDARY CABLES. ALL STEEL SHEEPS WITHIN 10' OF THE SURFACE SHALL BE PROPERLY GROUNDING.
 - A 10-FOOT HORIZONTAL SECTION OF RIGID GALVANIZED STEEL CONDUIT WILL BE REQUIRED AT EACH SHEEP, UNLESS IN THE OPINION OF THE PISH DESIGNER, THE SHEEP-PVC JOINT IS NOT SUBJECT TO FAILURE DURING CABLE PULLING.
 - THE CONDUIT SHALL CROSS PAVED AREAS AT APPROXIMATELY 90 DEGREES.
 - BACKFILL MAY BE MADE WITH EXCAVATED MATERIAL OR COMPARABLE, UNLESS MATERIAL IS DEEMED UNSUITABLE BY PISH. BACKFILL SHALL BE FREE OF FROZEN LIMBS, ROCKS, DEBRIS, AND HAZARDOUS ORGANIC MATERIAL. SHALL NOT BE USED AS BACKFILL. BACKFILL SHALL BE THOROUGHLY COMPACTED IN 6-INCH LAYERS.
 - A SIRTABLE PULL STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE PISH IS APPLIED TO INSTALL CABLE. THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER THE PLAN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT.
 - ROUTING OF THE CONDUIT AND INSPECTION PRIOR TO BACKFILL WILL BE PROVIDED BY PISH. INSTALLATION OF THE CONDUIT WILL BE DONE BY THE CONTRACTOR. THE PISH SUPERVISOR MUST BE NOTIFIED 2 BUSINESS DAYS PRIOR TO BACKFILLING THE TRENCH. IN THE EVENT THAT A CABLE CANNOT BE SUCCESSFULLY PULLED THROUGH THE COMPLETED CONDUIT SYSTEM DUE TO A CONSTRUCTION ERROR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND REPAIR THE INVOLVED CONDUIT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL RESULTING EXPENSES.
 - NORMAL CONDUIT SIZES FOR PISH ARE 3-INCH FOR SINGLE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4-INCH FOR THREE PHASE SECONDARY, AND 6-INCH FOR THREE PHASE PRIMARY.
 - ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, AND WHERE APPLICABLE, THE NATIONAL ELECTRIC CODE.
 - CONDUIT MAY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4-FT. INSTALLATIONS DEEPER THAN 4-FT REQUIRE THE USE OF A TRENCH BOX.

ELECTRICAL & UNDERGROUND UTILITY TRENCH INSTALLATION DETAIL
NOT TO SCALE

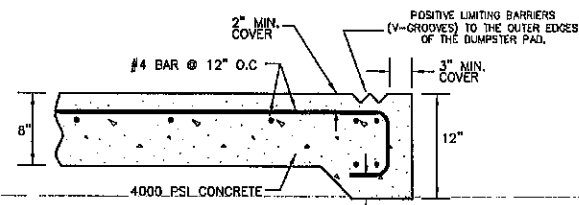


TYPICAL PAVEMENT MATCHING DETAIL
NOT TO SCALE

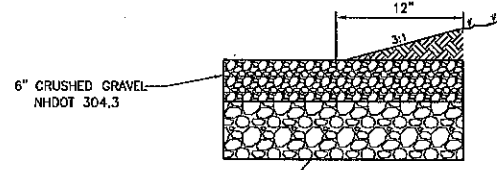


PARKING LOT CROSS-SECTIONS
NOT TO SCALE

- PAVEMENT NOTES:**
- PLACE COMMON FILL IN 12 INCH LIFTS. COMPACT COMMON FILL TO 95% MAXIMUM PROCTOR DENSITY.
 - PLACE GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
 - PLACE CRUSHED GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
 - PAVEMENT MUST BE INSTALLED IN TWO COURSES, A BINDER COURSE AND A WEARING COURSE.

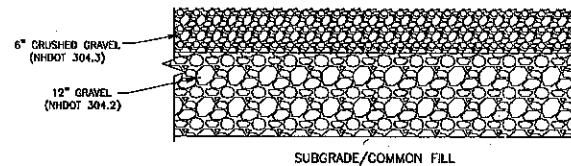


DUMPSTER PAD DETAIL
NOT TO SCALE



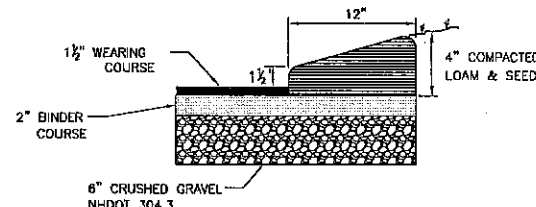
EARTH BERM DETAIL
NOT TO SCALE

- NOTES:**
- BERM SHALL BE INSTALLED ON TOP OF 6" LAYER OF CRUSHED GRAVEL.



GRAVEL PARKING LOT CROSS-SECTIONS
NOT TO SCALE

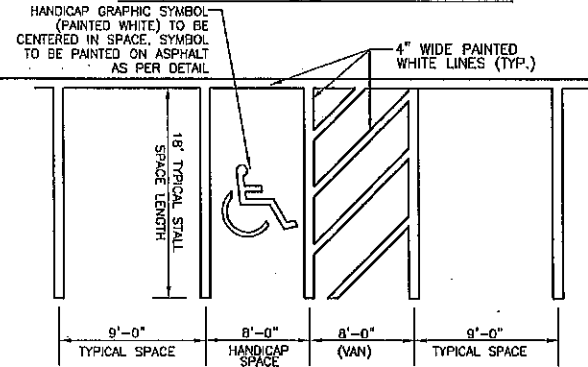
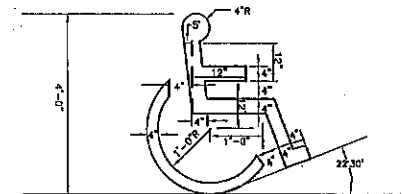
- PAVEMENT NOTES:**
- PLACE COMMON FILL IN 12 INCH LIFTS. COMPACT COMMON FILL TO 95% MAXIMUM PROCTOR DENSITY.
 - PLACE GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
 - PLACE CRUSHED GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.



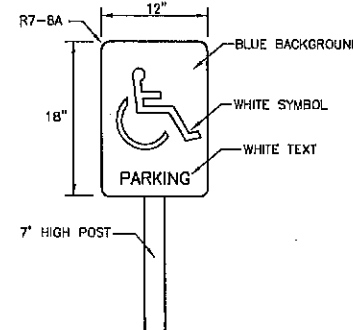
BITUMINOUS CAPE COD BERM DETAIL
NOT TO SCALE

- NOTES:**
- BITUMINOUS CAPE COD BERM SHALL BE INSTALLED ON TOP OF BINDER COURSE.

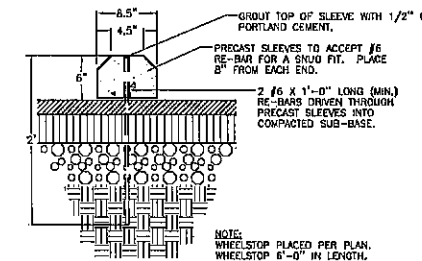
ITEM NO.	SIGN SIZE		TEXT	NO. SIGNS REQ'D
	HEIGHT	WIDTH		
R7-8a	18"	12"		1



STALL STRIPING DETAIL
NOT TO SCALE



SIGN DETAIL
NOT TO SCALE



CONCRETE WHEELSTOP DETAIL
NOT TO SCALE

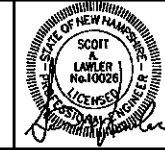
CONSTRUCTION SEQUENCE

- CUT ALL TREES AND REMOVE ALL STUMPS.
- INSTALL SILT SOCKS AS SHOWN. MAINTAIN SILT SOCKS AS CONSTRUCTION PROGRESSES AND UNTIL ALL DISTURBED AREAS ARE STABLE.
- CONSTRUCT THE TREATMENT SWALE AND DETENTION BASIN AS SHOWN ON THE PLAN. LOAM, SEED, AND MULCH IMMEDIATELY AFTER CONSTRUCTION.
- THE TREATMENT SWALE AND DETENTION BASIN MUST BE STABILIZED BEFORE DIRECTING RUNOFF TO THEM. EROSION CONTROL BLANKETS (CUREX EXCLUSION BY AMERICAN EXCLUSION COMPANY, OR EQUAL) SHALL BE USED WHERE SOIL IS NOT PLACED AND VEGETATION IS NOT ESTABLISHED.
- REMOVE THE LOAM AND VEGETATION FROM THE BUILDING, PARKING LOT AND BACKSLOPE AREAS. THE LOAM WILL NEED TO BE STORED FOR USE LATER IN STABILIZING THE SWALES AND SIDESLOPES. THE LOAM PILE SHALL BE SEEDED FOR TEMPORARY PROTECTION SHOULD IT REMAIN INACTIVE FOR MORE THAN 30 DAYS.
- CUT THE PARKING LOT, BACKSLOPE AREAS, AND BUILDING AREAS TO SUB-GRADE.
- ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED OR COVERED WITH AN EROSION CONTROL BLANKET IMMEDIATELY AFTER THEIR CONSTRUCTION.
- CONSTRUCT THE CLOSED DRAINAGE SYSTEM AS SHOWN ON THE PLAN.
- INSTALL ALL UNDERGROUND UTILITIES AS DEPICTED ON THE UTILITY PLAN.
- INSTALL THE GRAVEL BASE IN ALL AREAS TO BE PAVED.
- INSTALL ALL NEW PAVEMENT.
- ALL DISTURBED AREAS EXCLUDING BUILDINGS AND PARKING SHALL BE STABILIZED AS SOON AS POSSIBLE, BUT IN NO CASE SHALL BE LEFT UNSTABILIZED FOR MORE THAN 30 DAYS. BUILDINGS, PARKING LOTS, AND DRIVEWAYS SHALL BE CONSTRUCTED AS PRACTICABLE, BUT IN NO CASE SHALL BE LEFT UNPROTECTED OVER THE WINTER MONTHS.
- REMOVE TEMPORARY EROSION CONTROL (SILT FENCES AND SILT SOCKS) TO ELIMINATE FLOW IMPEDIMENTS ONCE SEEDING IS FIRMLY ESTABLISHED.

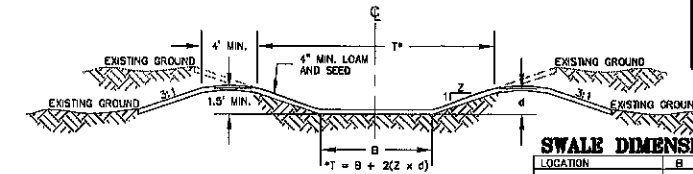
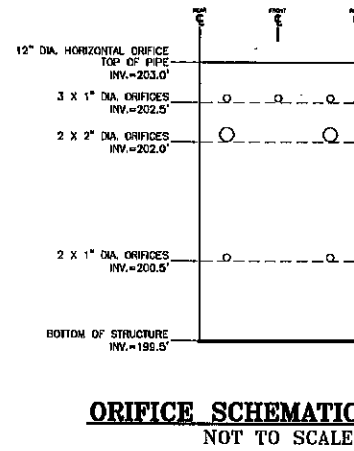
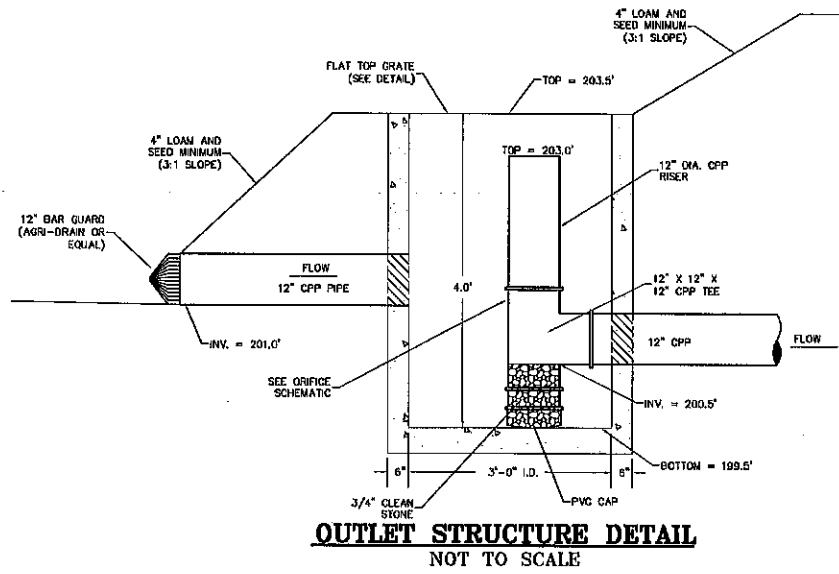
CONSTRUCTION DETAILS
TAX MAP 220, LOT 29
COLONIAL WAY
BARRINGTON, NH
PREPARED FOR:
ANDERSON PROPERTIES, LLC
MARCH 2020

FILE NO. 194
PLAN NO. C-3030-SP
DWG NO. 19216\SP-1

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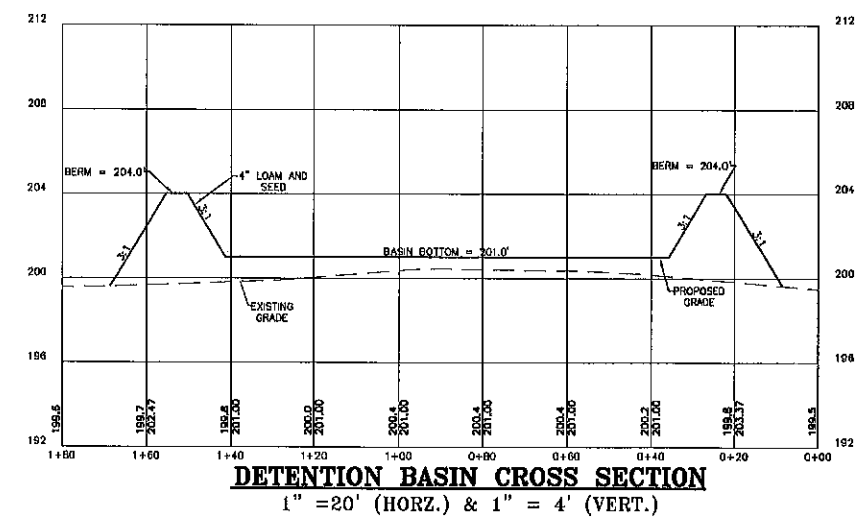
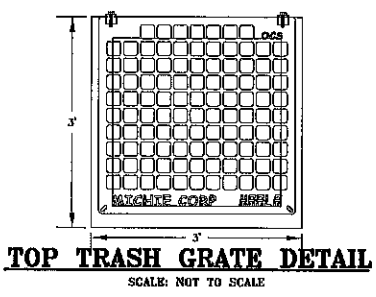
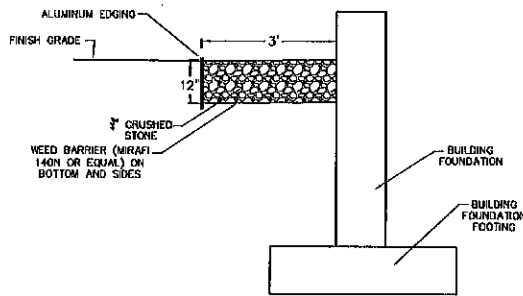
REVISION BLOCK



SWALE DIMENSION TABLE

LOCATION	B	d	Z	T
TREATMENT SWALE 1	6'	1'	3'	12"

- MAINTENANCE NOTES:**
1. THE SWALE(S) SHALL BE MOVED WITH THE REST OF THE SITE'S LAWN AREAS TO PROMOTE HEALTHY GROWTH AND PREVENT THE ENCROACHMENT OF WEEDS AND WOODY VEGETATION. DO NOT MOW GRASS IN SWALE(S) TOO SHORT. THIS WILL REDUCE THE SWALES FILTERING ABILITY.
 2. THE SWALE(S) SHOULD BE FERTILIZED ON AN AS NECESSARY BASIS, TO KEEP THE GRASS HEALTHY. OVER FERTILIZATION COULD RESULT IN THE SWALE(S) BECOMING A SOURCE OF POLLUTION TO THE SURROUNDING WETLAND AREAS.
 3. THE SWALE(S) SHOULD BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM. HILLS AND DAMAGED AREAS SHOULD BE PROMPTLY REPAIRED AND RE-VEGETATED AS NECESSARY TO PREVENT FURTHER DETERIORATION.



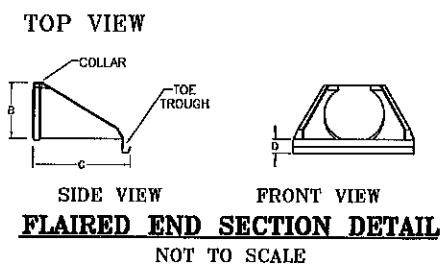
DETENTION BASIN:

- REGULATIONS:**
1. DO NOT DISCHARGE SEDIMENT-LOADED WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE DETENTION BASIN.
 2. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE DETENTION BASIN.
 3. VEGETATION SHALL BE ESTABLISHED IMMEDIATELY AFTER FINAL GRADING IS COMPLETED.
 4. CONSTRUCT THE DETENTION BASIN TO THE GRADES DEPICTED ON THE PLAN AND CROSS-SECTION.
 5. LOAM AND SEED ONLY THE SLOPES OF THE DETENTION BASIN AS PRESCRIBED IN THE "PERMANENT VEGETATION" NOTES FOUND ON SHEET C-8. SEED MIXTURE = A
 6. DO NOT PLACE STORMWATER SYSTEM INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
- MAINTENANCE REQUIREMENTS:**
1. INSPECT TREATMENT MEASURES (I.E. TREATMENT SWALE) AT LEAST TWICE A YEAR AND AFTER EVERY STORM GREATER THAN 2.5 INCHES OF RAIN OVER A 24-HOUR PERIOD.
 2. INSPECT THE BASIN AFTER EVERY STORM OF 2.5 INCHES OR GREATER OVER A 24-HOUR PERIOD.
 3. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT BASED ON INSPECTION. REPAIR AREA OF REMOVAL AS NECESSARY TO RESTORE LOAM AND GRASS.
 4. PERFORM MAINTENANCE AND REHABILITATION BASED ON INSPECTIONS.
 5. REMOVE DEBRIS (IF ANY) FROM BASIN INLET BASED ON INSPECTION.
 6. CONDUCT PERIODIC MOWING OF THE DETENTION BASIN SLOPES AND EMBANKMENTS (MINIMUM TWICE A YEAR) TO ELIMINATE WOODY GROWTH FROM THE EMBANKMENTS AND BOTTOM. MOWING THE BASIN EMBANKMENTS WHEN MOWING THE REST OF THE SITE IS RECOMMENDED.
 7. IF THE DETENTION SYSTEM DOES NOT DRAIN WITHIN 72-HOURS FOLLOWING A RAINFALL EVENT, THEN THE OUTLET STRUCTURE SHALL BE EXAMINED TO DETERMINE IF THERE ARE ANY CLOGS TO THE ORIFICES. IF NECESSARY, HAVE A PROFESSIONAL ENGINEER EXAMINE THE STRUCTURE.

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DIMENSIONS (INCHES)

PIPE DIAMETERS	A	B	C	D
10" / 12"	42	14.5	33	8
15"	41	19	34	8
18"	49	22	43	8
24"	58.5	28	48	8
30"	68	36	63.5	8
36"	88	43	68.5	8

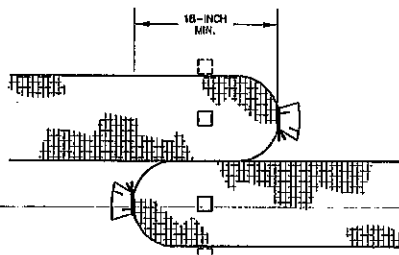
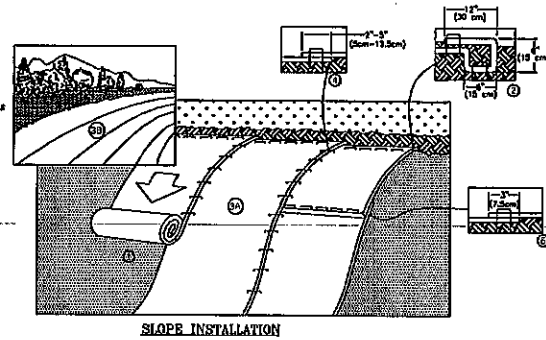


FILE NO. 194
PLAN NO. C-3030-SP
DWG NO. 19216\SP-1

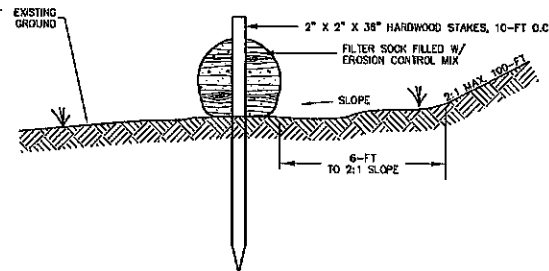
31 Mooney Street, Alton, N.H. 603-875-3948

DRAINAGE DETAILS
TAX MAP 220, LOT 29
COLONIAL WAY
BARRINGTON, NH
PREPARED FOR:
ANDERSON PROPERTIES, LLC
MARCH 2020

NORTH AMERICAN GREEN
EROSION CONTROL PRODUCTS
Customized SOLUTIONS
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800-773-2040
www.nagreen.com



**FILTER SOCK CONNECTION
PLAN VIEW**



**FILTER SOCK
CROSS-SECTION**

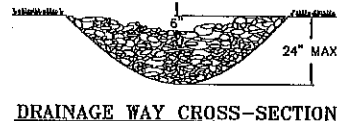
MAINTENANCE REQUIREMENTS:
ALL MATS AND MATS SHALL BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT EXCEEDING 1/2 INCH IN A 24-HOUR PERIOD.
ANY FILLING SHALL BE REPAIRED IMMEDIATELY. IF WASHOUT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DAMAGE TO THE MAT OCCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESEDED, AND THE AFFECTED AREA OF MAT SHALL BE RE-INSTALLED.

CONSTRUCTION SPECIFICATIONS:
MANUFACTURER'S INSTALLATION INSTRUCTIONS:
A. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-D-SEED DO NOT SEED PREPARED AREA. CELL-D-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
B. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
C. ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM STAPLES/STAKES SHALL BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
D. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
E. CONSECUTIVE RECP'S SPACED DOWN THE SLOPE MUST BE PLACED END OVER END (SINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.
NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

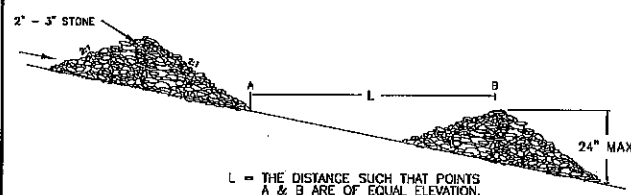
SITE PREPARATION:
A. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATING WITH THE SOIL. GRADE AND SHAPE AREA IF INSTALLATION.
B. REMOVE ALL ROCKS, LOGS, TRUNKS, VEGETATION OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS WILL HAVE DIRECT CONTACT WITH THE SOIL.
C. PREPARE SEEDING BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
D. INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN.
SEEDING:
A. SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPOOLED FOR NURTURE REINFORCEMENT APPLICATIONS. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK STRIPS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEDED.
B. WHEN SOIL FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO FILLING THE MAT WITH SOIL.

**TEMPORARY
EROSION CONTROL BLANKET DETAIL
NOT TO SCALE**

SLOPE (FT/FT)	LENGTH (FT)
0.250	75
0.330	50
0.400	37
0.500	30
0.660	19
0.830	15
1.000	13
1.330	10



DRAINAGE WAY CROSS-SECTION



SPACING BETWEEN STONE CHECK DAMS

CONSTRUCTION SPECIFICATIONS:
1. STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION, AIR AND WATER POLLUTION WILL BE MINIMIZED.
3. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.

MAINTENANCE NOTES:
1. TEMPORARY GRADE STABILIZATION STRUCTURES SHALL BE INSPECTED AFTER EACH STORM AND DAILY DURING PROLONGED STORM EVENTS. ANY DAMAGE TO THE STRUCTURES SHALL BE REPAIRED IMMEDIATELY.
2. PARTICULAR ATTENTION SHALL BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE.
3. WHEN REMOVING THE STRUCTURES, THE DISTURBED AREAS SHALL BE BROUGHT UP TO EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDING AND MULCHED.
4. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT REACHES 1/2 THE ORIGINAL HEIGHT OF THE STRUCTURE.

**STONE CHECK DAM
INSTALLATION DETAIL
NOT TO SCALE**

FILE NO. 194
PLAN NO. C-3030-SP
DWC NO. 19216\SP-1

CONTINUOUS CONTAINED BERM (FILTER SOCK ALTERNATIVE):
1. AN ALTERNATIVE PRODUCT, THE CONTINUOUS CONTAINED BERM (OR "FILTER SOCK") CAN BE AN EFFECTIVE SEDIMENT BARRIER AS IT ADDS CONTAINMENT AND STABILITY TO A BERM OF EROSION CONTROL MIX.
2. IN THE EVENT THAT USE OF CONTINUOUS CONTAINED BERM IS DESIRED, THE PRODUCT SELECTED SHOULD BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER.
3. INSTALLATION OF CONTINUOUS CONTAINED BERMS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MANUFACTURER.

MAINTENANCE REQUIREMENTS:
1. FILTER SOCK MAINTENANCE SHALL FOLLOW THE SAME SCHEDULE AS EROSION CONTROL MIX BERMS.

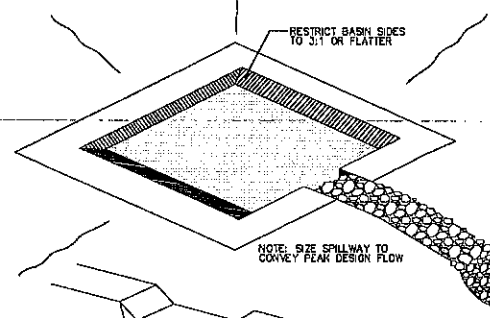
CONSTRUCTION SPECIFICATIONS:
1. COMPOSITION OF THE EROSION CONTROL MIX SHALL EITHER BE THE SAME AS EROSION CONTROL MIX BERM MATERIAL OR AS SPECIFIED BY THE FILTER SOCK MANUFACTURER.
2. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.
3. IT MAY BE NECESSARY TO CUT TALL GRASSES AND WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES IN THE BARRIER THAT WOULD ENABLE WINDS TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.
4. FILTER SOCK DIAMETER (HEIGHT) SHALL BE PER THE MANUFACTURER RECOMMENDATION FOR THE AREA OF INSTALLATION.

**CONTINUOUS CONTAINED BERM
"FILTER SOCK" DETAIL
NOT TO SCALE**

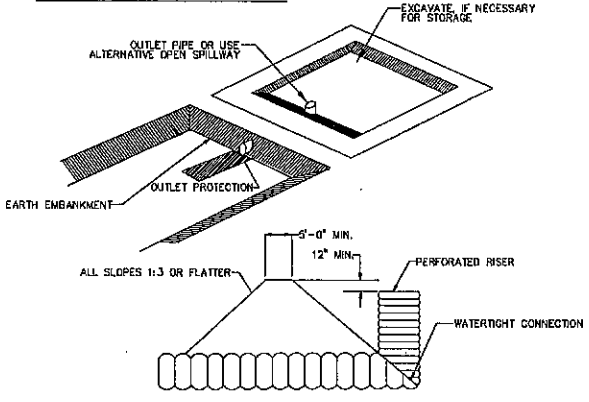
**TEMPORARY VEGETATION
SEEDING RECOMMENDATIONS**

SPECIES	PER ACRE (BU/1000-SF) OR POUNDS (LBS.)	PER 1000-SF	REMARKS
WINTER RYE	2.5 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU OR 80 LBS.	2.0 LBS.	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYE GRASS	40 LBS.	1.0 LB.	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. COVER THE SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYE GRASS	30 LBS.	0.7 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.

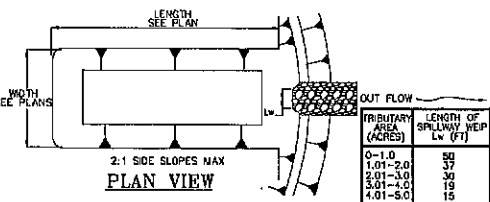
SOURCES:
1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLE 4-1
2. MERRICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)



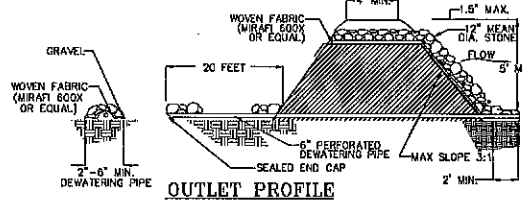
TYPICAL OPEN SPILLWAY



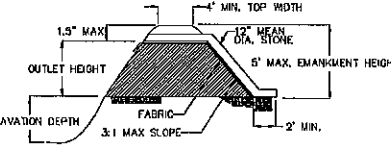
EMBANKMENT SECTION THRU RISER



PLAN VIEW



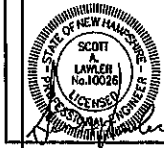
OUTLET PROFILE



ALTERNATE OUTLET PROFILE

SEDIMENT TRAP

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



REVISION BLOCK

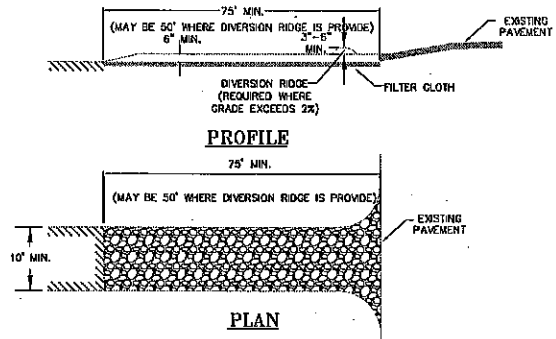
TEMPORARY VEGETATION:

SPECIFICATIONS:
SITE PREPARATION:
1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
3. RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.
4. ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

SEEDBED PREPARATION:
1. STONES AND TRASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.
2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
3. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.
4. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:
LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)
EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE
FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)
LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

SEEDING:
1. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL GULPACHTER TYPE SEEDER OR HYDRO SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH.
2. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
3. TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.
4. AREAS SEEDING BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSM, VOL. 3. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

MAINTENANCE REQUIREMENTS:
1. TEMPORARY SEEDING SHALL BE INSPECTED WEEKLY AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHALL BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER PERIOD.
2. BASED ON INSPECTION, AREAS SHALL BE RESEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANNING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED.
3. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

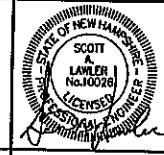


**TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE**

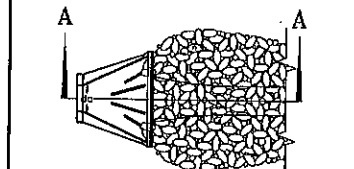
MAINTENANCE REQUIREMENTS:
1. WHEN THE CONTROL PAD BECOMES INEFFECTIVE, THE STONE SHALL BE REMOVED ALONG WITH THE COLLECTED SOIL MATERIAL, REGRADED ON SITE, AND STABILIZED. THE ENTRANCE SHALL THEN BE RECONSTRUCTED.
2. THE CONTRACTOR SHALL SWEEP THE PAVEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED ONTO THE ADJACENT PAVEMENT OR TRAVELED WAY.
3. WHEN WHEEL WASHING IS REQUIRED, IT SHALL BE CONDUCTED ON AN AREA STABILIZED WITH APPROPRIATE, WHICH DRAINAGE INTO AN APPROVED SEDIMENT-TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.

CONSTRUCTION SPECIFICATIONS:
1. THE MINIMUM STONE USED SHALL BE 3-INCH CRUSHED STONE.
2. THE MINIMUM LENGTH OF THE PAD SHALL BE 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
3. THE PAD SHALL BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS GREATER.
4. THE PAD SHALL SLOPE AWAY FROM THE EXISTING ROADWAY.
5. THE PAD SHALL BE AT LEAST 6 INCHES THICK.
6. THE GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.
7. THE PAD SHALL BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE.
8. NATURAL DRAINAGE THAT CROSSES THE PAD SHALL BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.

**TEMPORARY EROSION AND
SEDIMENTATION CONTROL
TAX MAP 220, LOT 29
COLONIAL WAY
BARRINGTON, NH
PREPARED FOR:
ANDERSON PROPERTIES, LLC
MARCH 2020**



REVISION BLOCK



RIP-RAP GRADATION

d50 = 3"

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)
100	5 TO 6
85	4 TO 5
50	3 TO 5
15	1 TO 2

d50 = 4"

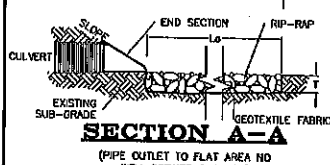
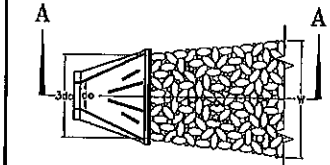
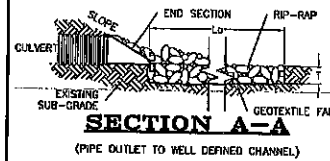
% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)
100	6 TO 8
85	5 TO 7
50	4 TO 6
15	1 TO 2

d50 = 6"

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)
100	10 TO 12
85	9 TO 10
50	6 TO 9
15	1 TO 3

d50 = 9"

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)
100	15 TO 18
85	13 TO 16
50	9 TO 13
15	2 TO 4.5



APRON DIMENSION TABLE

OUTLET PIPE #	PIPE OUTLET	W	L	T	d50
1	12" CP	3'	10'	7"	3"

NOTES:
1. ALL PIPE CULVERTS SHALL HAVE END SECTIONS OR HEADWALLS. END SECTION MATERIAL AND MANUFACTURER SHALL MATCH THAT OF THE PIPE CULVERT.
2. THE LARGEST RIP-RAP SIZE DETERMINED DURING HYDROLOGIC ANALYSIS HAS BEEN USED FOR ALL OUTLETS FOR ECONOMY AND SIMPLICITY.
3. APRON LENGTHS, WIDTHS AND THICKNESSES HAVE BEEN ROUNDED UP TO WHOLE NUMBERS FOR EASE OF CONSTRUCTION.

CONSTRUCTION SPECIFICATIONS:
1. PREPARE THE SUB-GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC AND RIP-RAP TO THE GRADES SHOWN ON THE PLANS.
2. MINIMUM 6" SAND/GRAVEL BEDDING OR GEOTEXTILE FABRIC REQUIRED UNDER ALL RIP-RAP.
3. THE ROCK OR GRAVEL USED FOR RIP-RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
4. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF RIP-RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO (2) PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
5. STONE FOR THE RIP-RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
6. RIP-RAP SIZE CHosen FOR THE WORST CASE OF ALL OUTLETS. ALL RIP-RAP USED FOR PIPE OUTLET PROTECTION WILL HAVE THE SAME GRADATION AND THICKNESS.

MAINTENANCE NOTES:
1. OUTLETS SHALL BE INSPECTED AND CLEANED ANNUALLY AND AFTER ANY MAJOR STORM EVENT. ANY EROSION OR DAMAGE TO THE RIP-RAP SHALL BE REPAIRED IMMEDIATELY.
2. THE CHANNEL IMMEDIATELY DOWNSTREAM FROM THE OUTLET SHOULD BE CHECKED TO SEE THAT NO EROSION IS OCCURRING.
3. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FELLING OR LIMBS OF TREES, BRUSH, OR OTHER DEBRIS THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

PIPE OUTLET PROTECTION DETAIL

DUST CONTROL PRACTICES:

- APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE.
- WATER APPLICATION:
 - MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
 - AVOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT DEPOSITION IN NEARBY WATERBODIES.
- STONE APPLICATION:
 - COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.
 - IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
 - REFER TO "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" FOR OTHER AVAILABLE DUST CONTROL PRACTICES (I.E. COMMERCIAL TACKLERS OR CHEMICAL TREATMENTS SUCH AS CALCIUM CHLORIDE, ETC.).

STOCKPILE PRACTICES:

- LOCATE STOCKPILES A MINIMUM OF 50-FT. AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES OR INLETS.
 - PROTECT ALL STOCKPILES FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBAGS OR OTHER APPROVED PRACTICES.
 - STOCKPILES SHALL BE SURROUNDED BY SEDIMENT BARRIERS AS DESCRIBED ON THE PLANS AND IN NISM VOL. 3, TO PREVENT MIGRATION OF MATERIAL BEYOND THE PERIMETER BARRIERS AND TO MAINTAIN THE INTEGRITY OF THE BARRIERS THROUGHOUT THE CONSTRUCTION PERIOD.
 - IMPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.
 - PLACE BAGGED MATERIALS ON PALLETS OR UNDERCOVER.
- PROTECTION OF INACTIVE STOCKPILES:
1. INACTIVE SOIL STOCKPILES SHALL BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICES AND TEMPORARY PERIMETER SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.
2. INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS, AND SHARP MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERIMETER BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES. IF THE MATERIALS ARE A SOURCE OF DUST, THEY SHALL ALSO BE COVERED.
- PROTECTION OF ACTIVE STOCKPILES:
1. ALL STOCKPILES SHALL BE SURROUNDED WITH TEMPORARY LINEAR SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) PRIOR TO THE ONSET OF PRECIPITATION. PERIMETER BARRIERS SHALL BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIAL FROM THE STOCKPILE.
2. THE INTEGRITY OF THE BARRIERS SHALL BE INSPECTED AT THE END OF EACH WORKING DAY.
3. WHEN A STORM IS PREDICTED, STOCKPILES SHALL BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

FILE NO. 194
PLAN NO. C-3030-SF
DWG NO. 19216\SP-1

31 Mooney Street, Alton, N.H. 603-876-3948

PERMANENT VEGETATION:

- SITE PREPARATION:
1. INSTALL WEED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDING PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
3. RUNOFF SHALL BE DIVERTED FROM THE SEEDING AREA.
4. ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.
- SEEDING PREPARATION:
1. WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TONG HAWK OR OTHER SUITABLE EQUIPMENT. THE FINAL HAWKING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY AND SILT SOILS SHALL BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
2. REMOVE FROM THE SURFACE ALL STONES, LIMBS, OR OTHER UNDESIRABLE MATERIAL. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE TRUNKS, CONCRETE BLOCKS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIAL.
3. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED; THE AREA MUST BE TILLED AND FIRMED AS ABOVE.
4. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
5. APPLY ORGANIC FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.
6. APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN NUTRIENTS, UNLESS A SOIL TEST WARRANTS OTHERWISE. FERTILIZER IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL. FERTILIZER AND LIME/STONE MAY BE APPLIED AT THE FOLLOWING RATES:
LIME/STONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)
EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE
FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)
LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT
- SEEDING:
1. INOCULATE ALL LEGUME SEED WITH THE CORRECT TYPE OF INOCULANT.
2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTRIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. WHERE FEASIBLE EXCEPT WHERE EITHER CULTRIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHALL BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG.
3. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. PERMANENT SEEDING SHALL BE COMPLETED 45 DAYS PRIOR TO FIRST KILLING FROST. WARM CROWN VETCH IS SEEDING IN LATE SUMMER AT LEAST ONE MONTH BEFORE FROST. VETCH (UNSGRIFIED), IF SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING DATES, REMOVE TREES, VEGETATION, ROOTS AND/OR OTHER OBJECTIONABLE MATERIALS. AREAS SEEDING BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NISM, VOL. 3.
4. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.
- HYDROSEEDING:
1. WHEN HYDROSEEDING (HYDRALIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND FIRMING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.
2. SLOPES MUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTAL BY 1 FOOT VERTICAL). LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED UNLESS IT IS USED TO HOLD STRAW OR HAY. BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH AGGRESSIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
- MAINTENANCE REQUIREMENTS:
1. PERMANENT SEEDING AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE SITE.
2. SEEDING AREAS SHALL BE MAINTAINED AND MONITORED AS A HEALTHY STAND OF VEGETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.
3. BASED ON INSPECTION, AREAS SHALL BE RESEED TO ACHIEVE FULL STABILIZATION OF EXPOSED AREAS.
4. AT A MINIMUM 65% OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.
5. IF ANY EVIDENCE OF EROSION OR SOIL DEVIATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEED. WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

PERMANENT VEGETATION SEEDING RECOMMENDATIONS

USE	MIXTURE	SPECIES	LEGS./ACRE	LEGS./1,000-SF
SLEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	TALL FESCUE	20	0.45
		CREeping RED FESCUE	20	0.45
		TOTAL	42	0.95
WATERWAYS, EMERGENCY SPILLS, AND OTHER CHANNELS WITH FLOWING WATER	A	TALL FESCUE	20	0.45
		CREeping RED FESCUE	20	0.45
		TOTAL	42	0.95
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY RECREATION SITES	A	TALL FESCUE	20	0.45
		CREeping RED FESCUE	20	0.45
		TOTAL	42	0.95
PLAY AREAS AND ATHLETIC FIELDS (TURF ESSENTIAL FOR GOOD TURF)	F	CREeping RED FESCUE	50	1.15
		KENTUCKY BLUEGRASS	50	1.15
		TOTAL	100	2.30

SOURCES:
1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES 4-2 AND 4-3.
2. MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

GENERAL CONSTRUCTION PHASING:

- STABILIZATION:
 - IF THE SITE IS NOT STABILIZED WHEN IT IS IN A CONDITION IN WHICH THE SOIL ON SITE WILL NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION UNDER THE CONDITIONS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LIMITED TO:
a) A MINIMUM OF 10% VEGETATIVE COVER HAS BEEN ESTABLISHED;
b) A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL, SUCH AS STONE OR A CERTIFIED COMPOST BLANKET HAS BEEN INSTALLED; OR
c) EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
 - ALL AREAS TO BE PAVED.
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED.
- TEMPORARY STABILIZATION:
ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE BUT NOT LATER THAN 48 DAYS FROM THE DATE OF INITIAL DISTURBANCE, UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES. THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN INDEPENDENT MONITOR.
- PERMANENT STABILIZATION:
ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 3 DAYS FROM THE DATE OF INITIAL DISTURBANCE.
- MAXIMUM AREA OF DISTURBANCE:
a) EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.
b) FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED.
c) ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.
- ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN DEPICTED ON SHEET C-2.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN DEPICTED ON SHEET C-2.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED FROM EROSION.
a) STOCKPILES, BORROW AREAS AND SPILLS SHALL BE STABILIZED AS DESCRIBED UNDER "SOIL STOCKPILE PRACTICES".
b) SLOPES SHALL NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATE PROTECTION AGAINST SEDIMENTATION, EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED DAMAGE.
c) AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND/OR OTHER OBJECTIONABLE MATERIALS.
d) AREAS SHALL BE SPARRIED TO A MINIMUM DEPTH OF 3-INCHES PRIOR TO PLACEMENT OF TOPSOIL. TOPSOIL SHALL BE PLACED WITHOUT SIGNIFICANT COMPACTION TO PROVIDE A LOOSE FINESED BED.
e) ALL FILLS SHALL BE COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, SITE UTILITIES, CONDUITS AND OTHER FACILITIES SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- IN GENERAL, FILLS SHALL BE COMPACTED IN LAYERS RANGING FROM 8 TO 24 INCHES IN THICKNESS. THE CONTRACTOR SHALL REVIEW THE PROJECT GEOTECHNICAL REPORT AND/OR THE "PROJECT SPECIFIC PHASING NOTES" FOR SPECIFIC GUIDANCE.
- ANY AND ALL FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS (LARGER THAN 3/4" IN DEPTH OF THE LIFT BEING INSTALLED), LOGS, STUMPS, BUILDING DEBRIS, FROZEN MATERIAL, AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE (I.E. CLAY, SILT) MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED EROSION. WORK IN AREAS OF THESE MATERIALS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER.
- THE OUTER FACE OF THE FILL SLOPE SHALL BE ALLOWED TO STAY LOOSE, NOT ROLLED OR COMPACTION, OR BLADE SMOOTHED. A BUILDGRADER MAY RUN UP AND DOWN THE FILL SLOPE SO THE DOZER TREADS (CLEAN TRACKS) CREATE GROOVES PERPENDICULAR TO THE SLOPE. IF THE SOIL IS NOT TOO MOIST, EXCESSIVE COMPACTION WILL NOT OCCUR. SEE "ROADSIDE ROUGHENING" IN THE NISM, VOL. 3.
- ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE DETENTION AND FACILITATE VEGETATION ESTABLISHMENT. USE SLOPE BREAKS, SUCH AS DIVERSIONS, BERMS, OR CONTOUR FURROWS AS APPROPRIATE TO REDUCE THE LENGTH OF CUT-FILL SLOPES TO LIMIT SHEET AND RILL EROSION AND PREVENT GULLY EROSION. ALL BERMS SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF CONSTRUCTION.
- ALL DAMAGED TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE REPAIRED OR REPLACED IMMEDIATELY UPON NOTICE.
- SEDIMENT SHALL BE DISPOSED OF PROPERLY EITHER ON SITE OR OFF SITE, DEPENDING ON LOCAL REGULATIONS.
- UPON PROJECT COMPLETION, ONCE THE SITE IS DEEMED STABILIZED (VEGETATION IS GERMINATED), THE TEMPORARY SEDIMENT CONTROL BARRIERS AND EROSION CONTROL PRACTICES SHALL BE REMOVED. ANY DISTURBANCE CREATED DURING REMOVAL SHALL BE REPAIRED IN AN APPROPRIATE MANNER.
- ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ON SITE DRAINAGE STRUCTURES (I.E. SWALES AND DETENTION BASIN).

ABOVE NOTES EXCEPTED, ADAPTED AND REFERRED FROM "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" (NISM, VOL. 3)

PROJECT SPECIFIC CONSTRUCTION PHASING:

- REFER TO THE GENERAL CONSTRUCTION PHASING NOTES PRIOR TO COMMENCING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PHASING. THE GENERAL CONSTRUCTION PHASING NOTES APPLY TO THE OVERALL CONSTRUCTION AND SHALL BE ADHERED TO.
 - INSTALL ALL TEMPORARY SEDIMENT CONTROL BARRIERS (I.E. SILT FENCE, EROSION CONTROL MAT, BERM, STONE CHECK-DAMS, ETC.) AROUND THE OUTER PERIMETER OF THE CONSTRUCTION SITE AS DEPICTED ON SHEET C-2 PRIOR TO EARTH MOVING OPERATION.
 - INSTALL ORANGE SNOW FENCE AROUND THE PERIMETER OF THE DETENTION BASIN AND THE FENCE SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OF THE BASIN IS COMPLETE.
 - CLEAR, GRUB AND STRIP THE SITE, STUMPS, BRUSH AND OTHER ORGANIC WASTE SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. MAINTAIN THE STOCKPILES AS DIRECTED IN THE "SOIL STOCKPILE PRACTICES".
 - PERFORM THE NECESSARY CUTS AND FILLS TO CONSTRUCT THE DETENTION BASIN AS DEPICTED ON SHEET C-2, AND IN ACCORDANCE WITH THE CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN DEPICTED ON SHEET C-2.
 - ALL DITCHES/SWALES/AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
 - PERFORM THE NECESSARY CUTS AND FILLS TO SUBGRADE IN THE BUILDING AND PARKING LOT AREAS.
a) INSTALL REQUIRED FILLS IN MAXIMUM 8-INCH LIFTS AND COMPACT EACH LIFT TO 95% MAXIMUM PROCTOR DENSITY.
b) AS SUBGRADE IS ACHIEVED, INSTALL PERMANENT SEDIMENT CONTROL BARRIERS WITHIN THE SITE (I.E. ADDITIONAL SILT FENCE, CHECK DAMS AND SEDIMENT CONTROL AND CATCH BASINS, ETC.)
 - PIPE CULVERTS, CATCH BASINS AND DRAINAGE SYSTEM COMPONENTS (I.E. CORRESPONDING DETAILS AND AS SHOWN ON SHEET C-3 AND C-4, AS CONTROL MEASURE, EACH STRUCTURE IS COMPLETED INSTALL THE CORRESPONDING SEDIMENT CONTROL MEASURE.
 - CONSTRUCT THE DETENTION BASIN AND OUTLET PROTECTION. LOAN SEED AND MULCH THE SIDE SLOPES OF THE BASIN AS DIRECTED IN THE DETENTION BASIN DETAILS AND TEMPORARY SEDIMENT CONTROL BARRIER DEPICTED ON SHEET C-2.
 - ALL CUT AND FILL SLOPES AND LAWN AREAS NOT TO BE PAVED SHALL BE LOANED AND SEDED FOR PERMANENT VEGETATION AND STABILIZATION AS DESCRIBED UNDER THE "PERMANENT VEGETATION PRACTICES" WITHIN 3 DAYS OF ACHIEVING FINAL GRADE.
 - INSTALL ALL GRAVEL BASE AND CRUSHED GRAVEL MATERIALS FOR THE PARKING AREA AS SPECIFIED IN THE CORRESPONDING DETAILS.
 - THE PARKING AREA SHALL BE STABILIZED (CONSTRUCTED TO GRAVEL BASE COURSE) WITHIN 3 DAYS OF ACHIEVING FINISHED SURGRADE ELEVATIONS.
 - INSTALL PAVEMENT SURFACES AS SOON AS POSSIBLE AFTER THE INSTALLATION OF THE GRAVEL BASE AND CRUSHED GRAVEL, IN ORDER TO LIMIT THE SOIL EROSION AND POLLUTION OF THE GRAVEL MATERIALS WITH ORGANIC MATERIALS. IN NO CASE SHALL AREAS TO BE PAVED BE LEFT UNPROTECTED THROUGHOUT THE WINTER MONTHS.
 - ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE. IN NO CASE SHALL ANY DISTURBED AREA BE LEFT UN-STABILIZED FOR LONGER THAN 21 DAYS. IF NECESSARY TEMPORARY STABILIZATION MEASURES AS DISCUSSED IN THE "GENERAL CONSTRUCTION PHASING NOTES" AND NISM, VOL. 3 SHOULD BE EMPLOYED.
- MAINTENANCE AND INSPECTION:
1. DURING CONSTRUCTION ALL TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL, AND STORMWATER MANAGEMENT PRACTICES SHOULD BE INSPECTED WEEKLY AFTER EVERY 1/2 INCH OF RAINFALL, AND ANNUALLY. EXCESS SEDIMENT SHOULD BE REMOVED FROM TEMPORARY SEDIMENT, EROSION CONTROL, AND STORMWATER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOLDS DISCUSSED IN THE DETAILS FOR EACH PRACTICE.
2. ALL DAMAGED TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE REPAIRED OR REPLACED IMMEDIATELY UPON NOTICE.
3. UPON PROJECT COMPLETION, ONCE THE SITE IS DEEMED STABILIZED (VEGETATION IS GERMINATED), THE TEMPORARY SEDIMENT CONTROL BARRIERS AND EROSION CONTROL PRACTICES SHALL BE REMOVED. ANY DISTURBANCE CREATED DURING REMOVAL SHALL BE REPAIRED IN AN APPROPRIATE MANNER.

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN THIS PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

WINTER STABILIZATION & CONSTRUCTION PRACTICES:

- MAINTENANCE REQUIREMENTS:
1. MAINTENANCE MEASURES SHALL BE PERFORMED THROUGHOUT CONSTRUCTION, INCLUDING OVER THE WINTER PERIOD. AFTER EACH RAINFALL, SNOWFALL, OR PERIOD OF "THAWING AND RUNOFF", THE SITE CONTRACTOR SHALL CONDUCT INSPECTION OF ALL INSTALLED EROSION CONTROL PRACTICES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUED FUNCTION.
2. FOR ANY AREA STABILIZED BY TEMPORARY OR PERMANENT SEEDING PRIOR TO THE ONSET OF THE WINTER SEASON, THE CONTRACTOR SHALL CONDUCT AN INSPECTION IN THE SPRING TO ASCERTAIN THE CONDITION OF THE VEGETATION AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, WOOLY GROWTH).
- SPECIFICATIONS:
THE FOLLOWING STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 15:
1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1-ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DISCUSSED UNDER "GENERAL CONSTRUCTION PHASING NOTES" IN THIS PLAN SET, PRIOR TO ANY THAW OR SPRING MELT EVENT.
2. STABILIZATION AS FOLLOWS SHALL BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 90 DAYS.
a. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM 65% VEGETATIVE GROWTH BY OCTOBER 15, SHALL BE STABILIZED WITHIN 15 DAYS OF THE DATE OF DISTURBANCE WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SEEDED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (REFER TO NISM, VOL. 3 FOR SPECIFICATIONS).
b. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 65% VEGETATIVE GROWTH BY OCTOBER 15, SHALL BE SEEDED AND COVERED WITH A PROPERLY INSTALLED EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHALL NOT EXCEED 4 INCHES IN THICKNESS OR THEY MAY OVERHEAT.
c. ALL STONE COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
3. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH.
4. ALL MULCH APPLIED DURING WINTER SHALL BE ANCHORED (I.E. BY NETTING, TRACKING, WOOD CELLULOSE FIBER).
5. WITHIN 24 HOURS OF STOCKPILED SOIL MATERIALS SHALL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT THREE TIMES THE NORMAL RATE OR WITH A 4 INCH LAYER OF EROSION CONTROL MIX.
6. MULCH SHALL BE REESTABLISHED PRIOR TO ANY RAIN OR SNOWFALL. NO MULCH SHALL BE PLACED OVER ANY AREA COVERED WITH MULCH WITHIN 100-FT OF ANY WELOD OR OTHER FLOWING WATER.
7. FROZEN MATERIAL (I.E. FROST LAYER REMOVED DURING WINTER CONSTRUCTION) SHALL BE STOCKPILED SEPARATELY AND IN A LOCATION AWAY FROM ANY AREA NEEDING PROTECTION.
8. STOCKPILES CAN MELT IN SPRING AND BECOME UNUSABLE AND OFFICIAL TO TRANSPORT DUE TO HIGH SOIL MOISTURE CONTENT.
9. INSTALLATION OF BARRIERS SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH OR ON FROZEN GROUND.
10. ALL GRASS-LINED DITCHES AND CHANNELS SHALL BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
11. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION HAS STOPPED FOR THE WINTER SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF SAND AND GRAVEL WITH A GRADATION THAT IS LESS THAN 12% OF THE SAND PORTION OF THE MIXTURE PASSING THE NUMBER 4 SIEVE, BY WEIGHT, PASSES THE NUMBER 200 SIEVE.
12. SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHALL CONSIST OF EROSION CONTROL MIX BERMS, OR CONTINUOUS CONTAINED BERMS. SILT FENCES AND HAY BALES SHALL NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBANKMENT OF THESE BARRIERS.

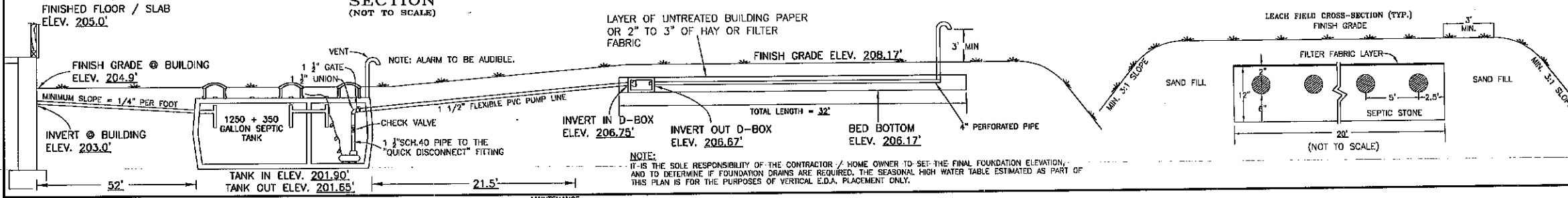
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APR 13 2020

LAND USE OFFICE
PERMANENT EROSION AND SEDIMENTATION CONTROL
TAX MAP 220, LOT 29
COLONIAL WAY
BARRINGTON, NH
PREPARED FOR:
ANDERSON PROPERTIES, LLC
MARCH 2020



PIPE AND STONE CROSS SECTION
(NOT TO SCALE)



- CONSTRUCTION NOTES:**
1. SYSTEM IS DESIGNED ONLY TO ACCOMMODATE SANITARY SEWAGE ASSOCIATED WITH THE NORMAL DOMESTIC USAGE AND CONSISTENCE OF WATER-CARRIED PUTRESCIBLE WASTE.
 2. THE SYSTEM IS NOT DESIGNED FOR GARBAGE GRINDERS.
 3. THE SYSTEM SHALL BE VENTED WHEN THERE IS MORE THAN 18" OF BACKFILL USED TO COVER THE SYSTEM.
 4. DISPOSAL SYSTEM AREAS TO BE RANDED (SCARIFIED) BEFORE INSTALLATION OF STONE. ALL STONES EXCEEDING 8 INCHES IN DIAMETER AND ALL LOAM OR FOREIGN MATERIAL ENCOUNTERED DURING EXCAVATION ARE TO BE REMOVED FROM THE LEACHING AREA BED SURFACE.
 5. ALTERNATE MANUFACTURERS FOR CONCRETE STRUCTURES AND EQUIPMENT MAY BE USED AS LONG AS THE USE OF THEIR PRODUCTS DO NOT REQUIRE ANY DESIGN CHANGES.
 6. BOUNDARIES SHOWN ARE FOR SEPTIC SYSTEM DESIGN PURPOSES ONLY AND NOT THE RESULT OF A BOUNDARY SURVEY. LIABILITY FOR ACTIONS UNDERTAKEN IN RELIANCE UPON THIS PLAN, INsofar AS THEY RELATE TO THE SETBACKS FROM PROPERTY OR RIGHT-OF-WAY LINES, RESTS SPECIFICALLY WITH THE INSTALLER AND/OR THE OWNER.
 7. PIPES ENTERING AND EXITING ALL TANKS AND THE DISTRIBUTION BOX SHALL BE SEALED WITH A WATER TIGHT, FLEXIBLE JOINT CONNECTOR THAT COMPLIES WITH ENV-WQ-1010.08.
 8. APPROVED SEPTIC STONE SHALL BE ONE NOMINAL SIZE WITHIN THE RANGE OF 1" TO 2 1/2" AND FREE OF FINES, IN ACCORDANCE WITH THE FOLLOWING:

SIEVE SIZE	% PASSING (BY WEIGHT)
100	100
1"	90-100
3/4"	0-20
3/8"	0-5
#200	0-1.5

WETLANDS WERE DELINEATED ON THE BASIS OF HYDROPHYTIC VEGETATION, HYDRIC SOILS, AND WETLANDS HYDROLOGY IN ACCORDANCE WITH THE TECHNIQUES OUTLINED IN THE CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1, JANUARY 1987. THE HYDRIC SOIL COMPONENT WAS DETERMINED BY USING THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3, APRIL 2004. (SEE ENV-WQ-1014.03 DELINEATION OF WETLANDS: HYDRIC SOILS DETERMINATION)

IN TERMS OF RESPONSIBILITY FOR THE DELINEATIONS SHOWN, EITHER THE DESIGNER IS RESPONSIBLE FOR THEM (CONDUCTED BY THE DESIGNER) OR THE PLANS MUST BE STAMPED BY A CERTIFIED WETLANDS SCIENTIST

UNLESS OTHERWISE SHOWN HEREON, THERE ARE NO CEMETERIES OR BURIAL GROUNDS WITHIN 100' OF ANY COMPONENT OF THE PROPOSED SYSTEM.

MAINTENANCE

PROPER MAINTENANCE AND CARE ARE REQUIRED FOR SEPTIC SYSTEMS TO FUNCTION PROPERLY. THE FOLLOWING ARE SOME ITEMS THAT MAY SHORTEN SYSTEM LIFE:

- SOME WATER SOFTENERS/PURIFIERS
- GARBAGE DISPOSAL UNITS
- EXCESSIVE USE OF WATER
- HOT TUBS
- SOME CLEANERS
- TOXIC CHEMICALS

TANK SHOULD BE INSPECTED AT LEAST ONCE A YEAR AND CLEANED WHEN NECESSARY.

DESIGN INTENT

THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM (EDS) SHALL BE CONSTRUCTED AT ELEVATION 206.17'. THERE IS APPROXIMATELY 2.87' ABOVE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE DESIGNED EDS.

BEFORE INSTALLATION, INSTALLER MUST VERIFY ALL ELEVATIONS AND DISTANCES. IF SYSTEM HAS EXISTING BUILDINGS, ALL PLUMBING ELEVATIONS MUST BE CHECKED.

CONTACT DESIGNER IF ANY DISCREPANCIES ARE FOUND.

LOAD = 300 GPD
 3 DOSES PER DAY = 101.97 TOTAL GALLONS PER DOSE
 PUMP OFF = 199.75'
 PUMP ON = 199.90'
 ALARM = 200.21'
 RUN TIME = 101.97 GAL PER DOSE / 31 GAL PER MINUTE = 3.28 MINUTES
 USE MYERS MESH PUMP.

NOTE: ALARM MUST BE VISUAL AND AUDIBLE.
 ALARM AND PUMP TO BE ON SEPARATE ELECTRICAL CIRCUITS.

SYSTEM REQUIREMENTS

PROPOSED DESIGN LOADING:

FACTORY WITHOUT CAFETERIA = 10 GPD/EMPLOYEE
 24 EMPLOYEES X 10 GPD/EMPLOYEE = 240 GPD
 TOTAL DESIGN FLOW = 240 GPD

USE MIN. DESIGN FLOW FOR COMMERCIAL 300 GPD

COMMERCIAL LOADING @ 14 MPH PERC. RATE FOR STONE AND PIPE:
 EDA = 300 GPD / 100 GPD X 215 = 639 SQUARE FEET

640 SQUARE FEET OF PIPE AND STONE PROVIDED (20' X 34').

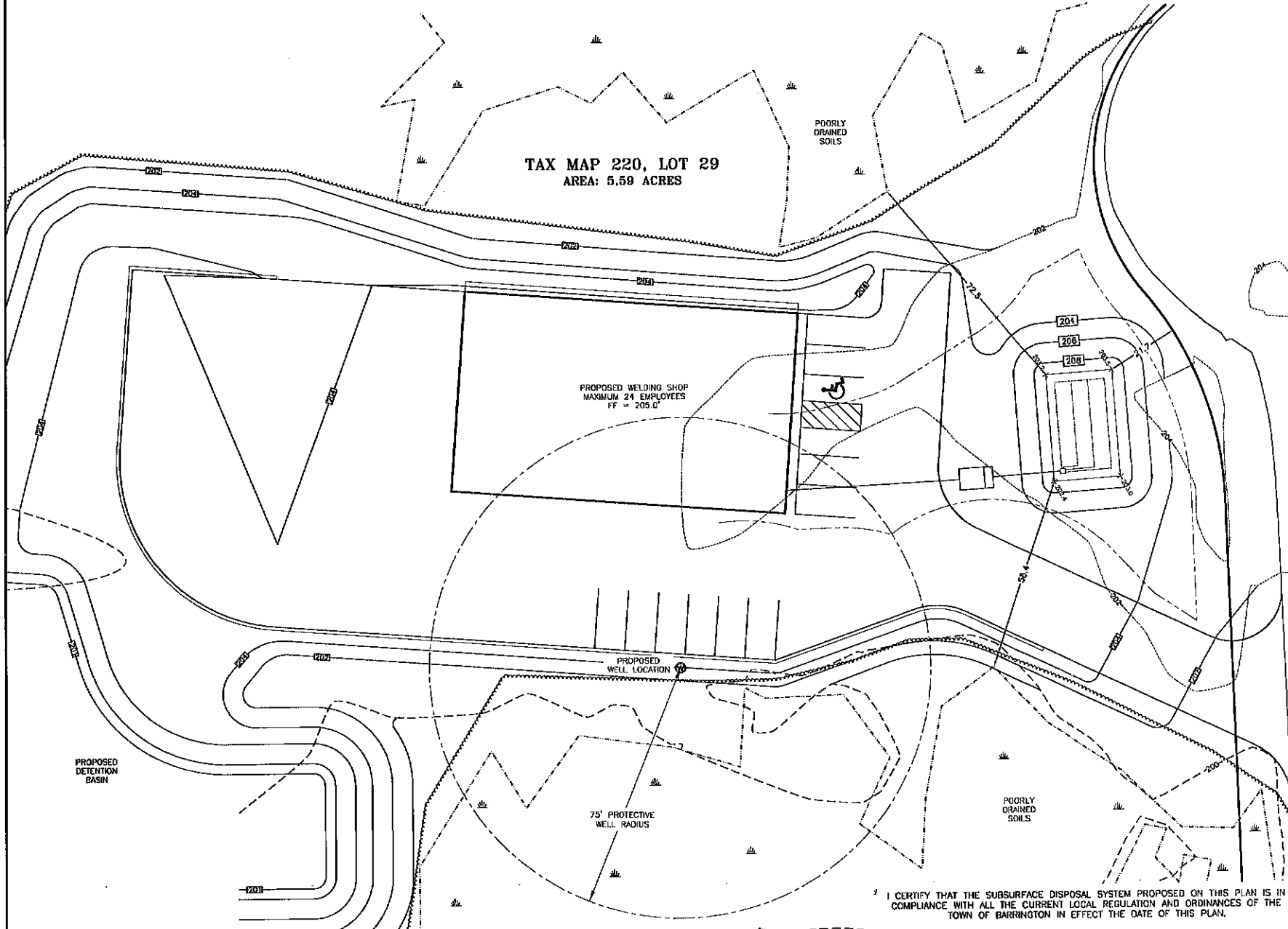
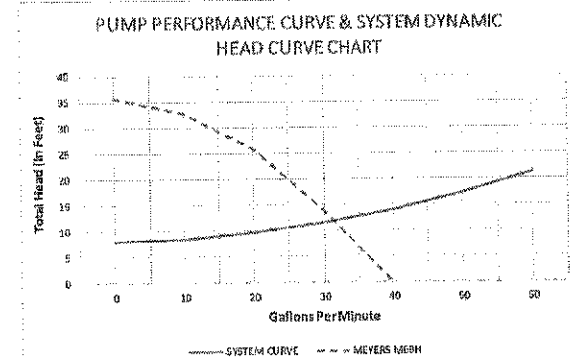
PERCOLATION TEST DATA

DATE: MARCH 16, 2020 RATE: 14 MINUTES PER INCH @ 14 INCHES

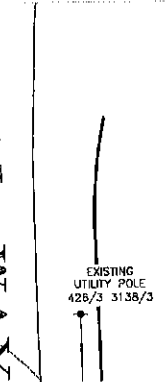
TEST PIT DATA

0" - 1" 10YR3/1 LOAM TOPSOIL, COMMON ROOTS.
 1" - 12" 6YR4/4 LOAMY SAND, GRANULAR, FRIABLE, LOOSE.
 12" - 51" 10YR5/2 FINE SANDY LOAM, GRANULAR, FRIABLE, FIRM IN PLACE, COMMON REDOXIMORPHIC CONCENTRATIONS AT 16".
 - 51" NO REFUSAL, NO OBSERVED WATER, ESTIMATED SEASONAL HIGH WATER TABLE AT 16"

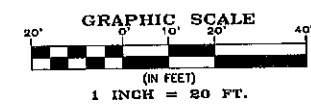
SOILS PER NRCS: S_h - SAUGATUCK LOAMY SAND WITH 0 TO 3 PERCENT SLOPES



COLONIAL WAY



- PLAN REFERENCES:**
1. "SUBDIVISION PLAN, PAUL R. CHAPMAN, BARRINGTON, N.H." DATED OCTOBER 1985 BY FREDERICK E. DREW ASSOCIATES SCD PLAN 284-85
 2. "PLAN OF LAND, JAMES W. LANDRY JR., JOAN M. LANDRY, BARRINGTON, N.H." DATED APRIL 1992 BY FREDERICK E. DREW ASSOCIATES SCD PLAN 32A-85
 3. "SUBDIVISION PLAN, PREPARED FOR INVESTMENT PROPERTIES LLC OF LAND IN THE NAME OF DORIS J. PATCH OF MAP 12 / LOT 1350 LOCATED AT NH ROUTE 125, COLONIAL WAY AND GREEN HILL ROAD, COUNTY OF STRAFFORD/BARRINGTON, NH" DATED OCTOBER 15, 2003 BY DAVID W. VINCENT, LLS, LAND SURVEYING SERVICES SCD PLAN 75-85



I CERTIFY THAT THE SUBSURFACE DISPOSAL SYSTEM PROPOSED ON THIS PLAN IS IN COMPLIANCE WITH ALL THE CURRENT LOCAL REGULATION AND ORDINANCES OF THE TOWN OF BARRINGTON IN EFFECT THE DATE OF THIS PLAN.



PROPOSED SEPTIC SYSTEM
 COLONIAL WAY
 TM 220-29
 BARRINGTON, NH
 FOR
 ANDERSON WELDING LLC

1" = 20' MARCH 2020

REVISIONS:

NORWAY PLAINS ASSOCIATES, INC.
 P.O. BOX 249
 ROCHESTER, NH 03866
 603-335-3948

DESIGNED BY: AFR
 CHECKED BY:
 FILE NO. 194 PLAN NO. SSD 1667 DWG.#19216

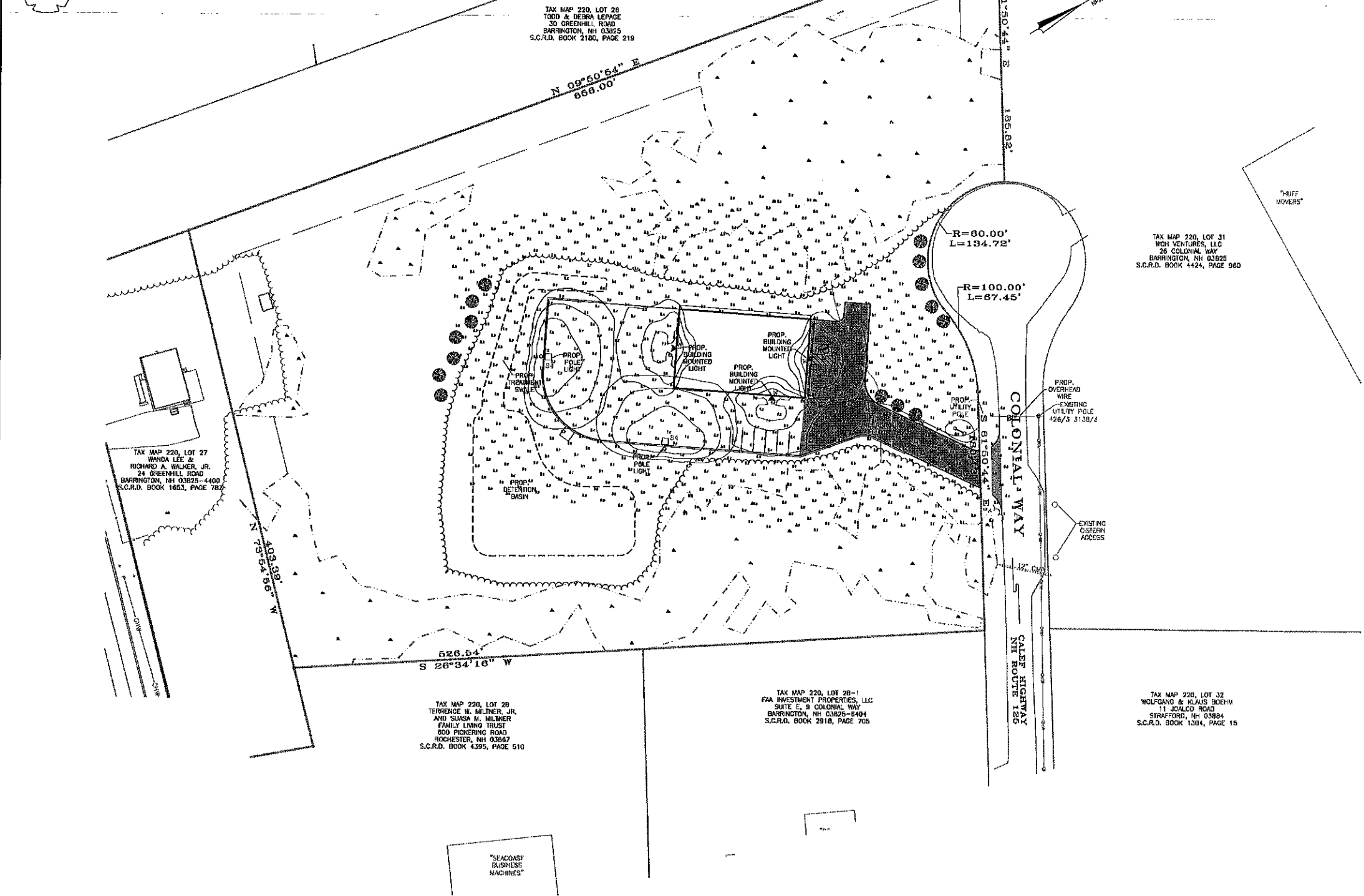
LAND SURVEYORS

CIVIL ENGINEERS

- LEGEND**
- PROPERTY LINE
 - JURISDICTIONAL WETLANDS
 - o- EXISTING OVERHEAD WIRES
 - EXISTING LIGHT POLES
 - PROPOSED BUILDING
 - PROPOSED PAVEMENT
 - PROPOSED PAVEMENT WITH CURBING
 - PROPOSED LIGHT POLES
 - PROPOSED BUILDING LIGHT FIXTURES
 - PROPOSED LIGHT FOOTCANDLE
 - PROPOSED LIGHT ILLUMINATION LINES

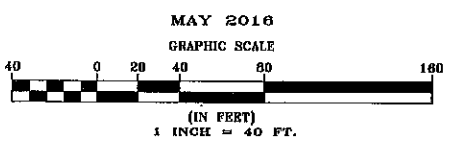
Luminaire Schedule				
Symbol	Label	Qty	Arrangement	Description
□	S4	2	SINGLE	PRV-C15-D-UNV-74-B2-HSS/SS64226SFN1 (20' AFG)
□	W	3	SINGLE	IST-AP-350-LED-ET-T4FY/WALL NYD 16' ARG

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603) 335-3948.



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LIGHTING PLAN
TAX MAP 134, LOT 5
114 ROCHESTER HILL RD
ROCHESTER, NH
PREPARED FOR:
CLIENT NAME



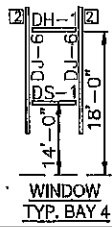
FILE NO. 104
PLAN NO. C-2780
DWG. NO. 15225/SP-1
F.B. NO.

31 Mooney Street, Alton, N.H. 603-876-3948

NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

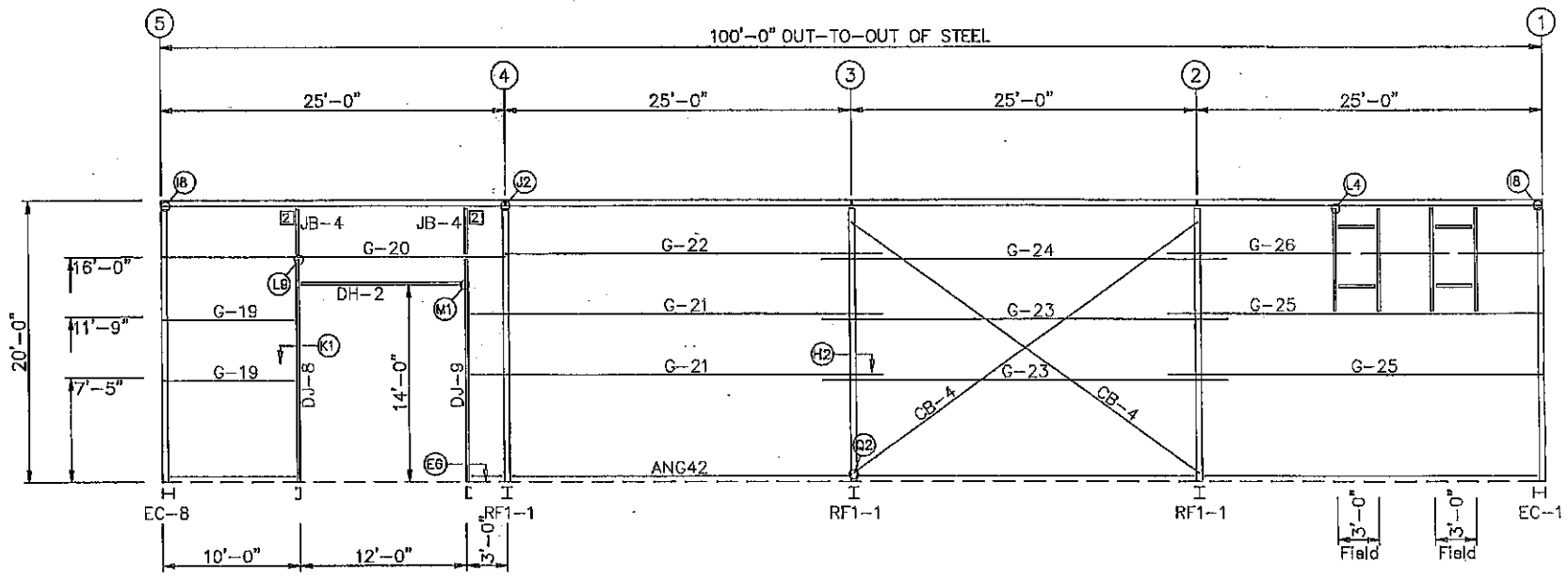
L-4



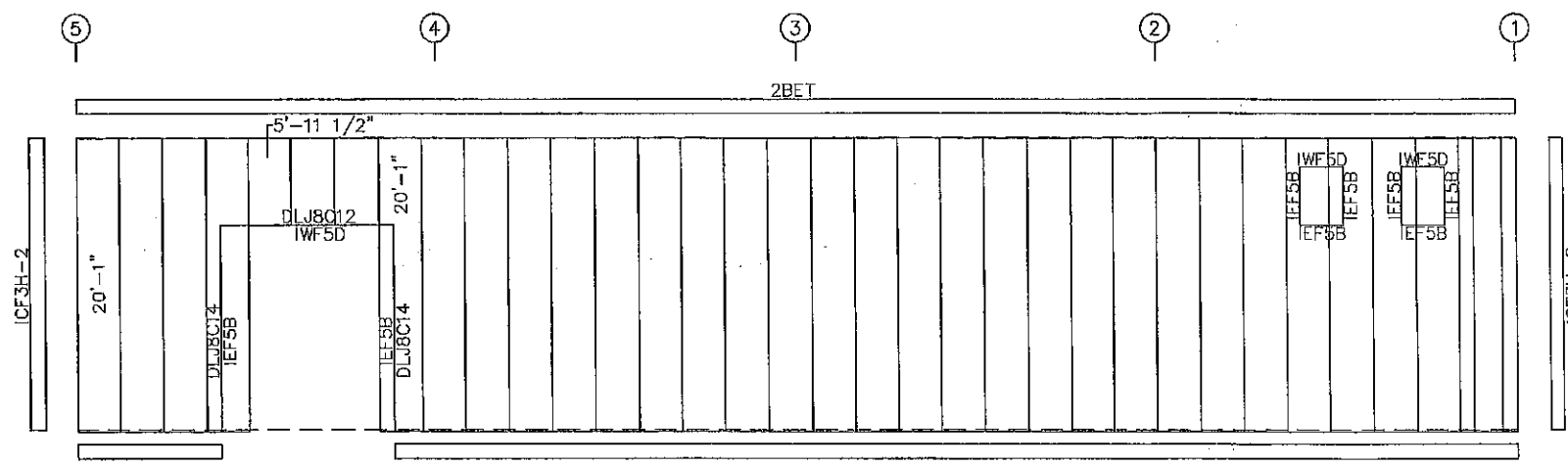
BOLT TABLE FRAME LINE D				
LOCATION	QUAN	TYPE	DIA	LENGTH
DJ/G-20	2	A325	1/2"	1 1/4"
G-20/EC	4	A325	1/2"	1 1/4"
G-20/RF	2	A325	1/2"	1 1/4"

MEMBER TABLE FRAME LINE D			
QUAN	MARK	PART	LENGTH
4	DJ-6	8X35C16	7'-2 1/4"
1	DJ-8	8X35C14	15'-11 3/4"
1	DJ-9	8X35C16	15'-11 3/4"
2	DH-1	8X35C16	3'-0"
1	DH-2	8X35C16	12'-0"
2	DS-1	8X35C16	3'-0"
2	G-19	8X25Z16	9'-8"
1	G-20	C8X13.75	24'-11 1/2"
2	G-21	8X25Z14	29'-10"
1	G-22	8X25Z16	27'-1 1/2"
2	G-23	8X25Z14	29'-3 1/2"
1	G-24	8X25Z16	29'-3 1/2"
2	G-25	8X25Z13	27'-1 1/2"
1	G-26	8X25Z16	27'-1 1/2"
2	CB-4	CABLE500	28'-2 9/16"
2	JB-4	8X35C16	2'-11 1/4"

CONNECTION PLATES FRAME LINE D		
ID	QUAN	MARK/PART
2	6	JC



SIDEWALL FRAMING: FRAME LINE D



SIDEWALL SHEETING & TRIM: FRAME LINE D
PANELS: 26 Ga. R -- TBD

Charcoal Grey Walls
Arctic White Trim
Galvalume Roof

DRAWING IS NOT TO SCALE

TRIM COLORS	
EAVE TRIM = TBD	CORNER TRIM = TBD
BASE TRIM = TBD	GUTTER =
DOOR TRIM = TBD	DOWNSPOUTS =
RAKE TRIM = TBD	
* LINER TRIM = Liner panel color	
* SOFFIT TRIM = Soffit panel color	
* ONLY APPLICABLE IF LINER TRIM OR SOFFIT PANEL IS INDICATED ON BUILDING ORDER.	

GENERAL NOTES:
 1. Use TEK5WW screws in place of SD150 panel screws at all 10 gage members.
 2. All connections to door or window jambs where the clip is not designated in the clip table / drawing are made with JC# clips (#= Girt Depth).

M23548-ANDERSON WELDING
60'-0" x 100'-0" x 20'-0"

DATE: 2/3/20 REVISION: 0
ENG: JTV DWN: BJC APPD: JTV

F.O. 23582

REV.	DESCRIPTION	DATE

M23548-ANDERSON WELDING

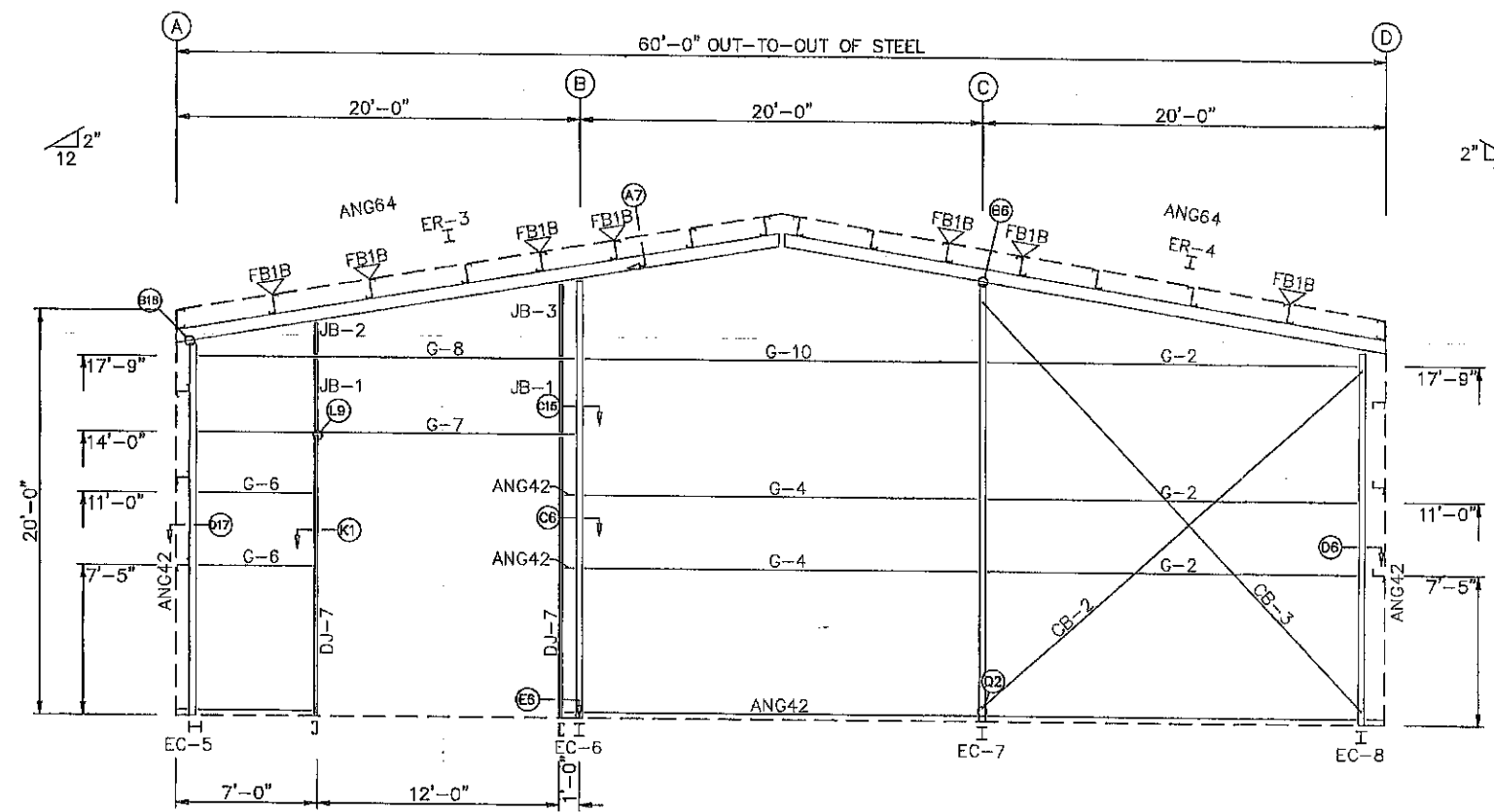
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FOR PERMIT: THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

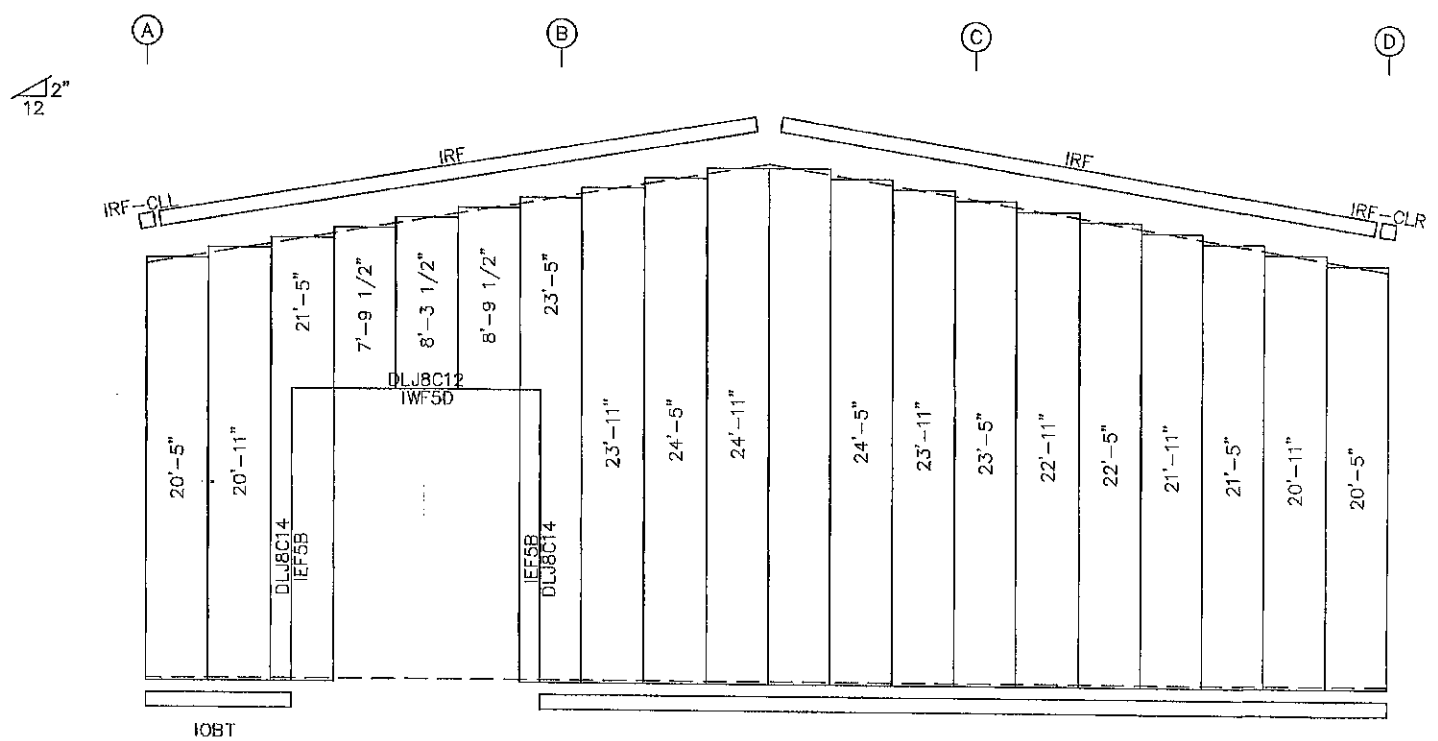
FOR CONSTRUCTION: FINAL DRAWINGS.

2/6/20

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ENDWALL FRAMING: FRAME LINE 5



ENDWALL SHEETING & TRIM: FRAME LINE 5
PANELS: 26 Ga. R - TBD

GENERAL NOTES:

1. Use TEK5WW screws in place of SD150 panel screws at all 10 gage members.
2. See detail C7A for field coping of coldform endwall column flange braces.
3. All connections to door or window jambs where the clip is not designated in the clip table / drawing are made with JC# clips (# = Girt Depth).

BOLT TABLE
FRAME LINE 5

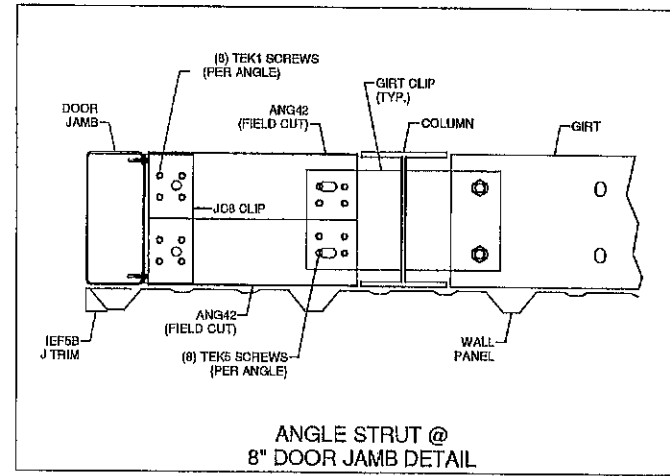
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-3/ER-4	8	A325	1/2"	1 1/2"
EC-5/ER-3	4	A325	1/2"	1 1/4"
Int_Column/Raf	2	A325	1"	2"
EC-8/ER-4	2	A325	1"	2"

MEMBER TABLE
FRAME LINE 5

QUAN	MARK	PART	LENGTH
1	EC-5	W8X18	18'-6 3/4"
1	EC-6	W8X18	21'-7 5/16"
1	EC-7	W8X18	21'-7 5/16"
1	EC-8	W8X18	18'-5 11/16"
1	ER-3	W8X18	30'-4 15/16"
1	ER-4	W8X18	30'-4 15/16"
2	DJ-7	8X35C16	13'-11 3/4"
3	G-2	8X25Z13	18'-4 1/4"
2	G-4	8X25Z13	19'-6 1/4"
2	G-6	8X25Z16	5'-3 7/8"
1	G-7	8X35C13	18'-4 3/4"
1	G-8	8X25Z16	18'-4 3/4"
1	G-10	8X25Z12	19'-6 1/4"
1	CB-2	CABLE375	23'-4 5/8"
1	CB-3	CABLE375	25'-7 1/16"
2	JB-1	8X35C16	3'-8 1/2"
1	JB-2	8X35C16	1'-4 13/16"
1	JB-3	8X35C16	3'-4 13/16"

FLANGE BRACE TABLE
FRAME LINE 5

VIDI MARK	LENGTH
1 FB1B	1'-3 5/8"



Charcoal Grey Walls
Arctic White Trim
Galvalume Roof

DRAWING IS NOT TO SCALE

TRIM COLORS

EAVE TRIM = TBD	CORNER TRIM = TBD
BASE TRIM = TBD	GUTTER =
DOOR TRIM = TBD	DOWNSPOUTS =
RAKE TRIM = TBD	
* LINER TRIM = Liner panel color	
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M23548-ANDERSON WELDING
60'-0" x 100'-0" x 20'-0"

DATE: 2/3/20 REVISION: 0
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F.O. 23582

REV.	DESCRIPTION	DATE

DRAWING STATUS

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FOR CONSTRUCTION: THESE DRAWINGS, BEING FOR CONSTRUCTION, ARE BY DEFINITION FINAL DRAWINGS.

T. JAMES EISENMAN, JR.
No. 11419
LICENSED PROFESSIONAL ENGINEER -

2/6/20

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