# PROPOSED MULTI-FAMILY DEVELOPMENT

15 NORWAY PLAINS ROAD ROCHESTER, NEW HAMPSHIRE (TAX MAP 215 LOT 17 AND LOT 17-1) SITE PLANS

> SEPTEMBER 6, 2016 (REVISED: JUNE 10, 2021)







PREPARED BY: Γiahe&Bond

SURVEYOR:

North Easterly Surveying, Inc. 191 State Road, Suite 1 Kittery, ME 03904

PREPARED FOR:

Tenants In Common:

Robert Graham

81 Lakeview Drive

Nottingham, NH 03290

OWNER:

The Estate of Bruce J. Roberts 15 Norway Plains Road Rochester, NH 03868

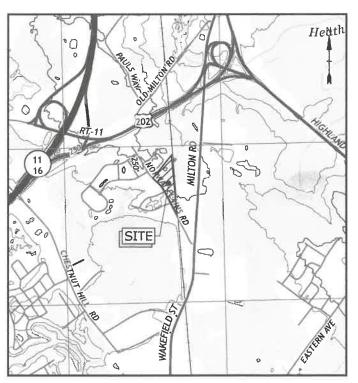
PERMIT	APPROVAL#
ROCHESTER SITE PLAN REVIEW	215-17-R2-16
ROCHESTER SUBDIVISION	215-17-R2-16
ROCHESTER ZBA	2016-20 & 2016-29
NHDES AOT	AoT-1197
NHDES WASTEWATER CONNECTION	D2016-1106

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G-002	EROSION CONTROL NOTES SHEET
G-003	PERMITS
G-004	NHDES APPROVED SEWER SPECIFICATIONS
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C-103	UTILITIES PLAN
C-104	SEWER PLAN AND PROFILE
L-101	LANDSCAPE PLAN
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C-502	DETAILS SHEET
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THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND FOR SITE CONDITIONS THROUGHOUT CONSTRUCTION. NEITHER THE PLANS NOR THE SEAL OF THE ENGINEER AFFIXED HEREON EXTEND TO OR INCLUDE SYSTEMS REQUIRED FOR THE SAFETY OF THE CONTRACTOR, THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND

IGHE AND BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITH



LOCATION MAP

FINAL APPROVAL BY ROCHESTER PL	ANNING BOARD
CERTIFIED BY Shunnas Founders	DATE 2/24/22
Pe	2 NOV 2021 PBMtg



Michael Anderson

Pompano Beach FL

33062-4939

2637 E Atlantic Blvd #172

FOR MORE INFORMATION CONTACT: THE CITY OF ROCHESTER PLANNING DEPARTMENT AT (603) 335-1338

CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED ENGINEER/SURVEYOR TO DETERMINE ALL LINES AND

CONTRACTOR TO SUBMIT AS-BUILT PLANS ON REPRODUCIBLE MYLARS AND IN DIGITAL FORMAT (.DWG FILE) ON DISK TO THE CITY OF ROCHESTER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER AND CONFORM TO THE CITY OF

ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISHED GRADE.

CONTRACTOR SHALL THOROUGHLY CLEAN ALL CATCH BASINS AND DRAIN LINES, WITHIN THE LIMIT OF WORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
SEE NORTH EASTERLY SURVEYING, INC. "EXISTING CONDITIONS PLAN", PREPARED BY NORTH EASTERLY SURVEYING,

INC ON JUNE, 22, 2016 FOR BENCHMARK INFORMATION.

CONTRACTOR SHALL CONTACT "DIG-SAFE" 72 HOURS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL

HAVE THE "DIG-SAFE" NUMBER ON-SITE AT ALL TIMES.

THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES AND HOMES THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING BUSINESS AND HOME SERVICES INCLUDE, BUT ARE NOT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER, AND SEWER SERVICES, TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL, AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE TO OWNER PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES.

10. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS AND CONSTRUCTION SPECIFICATIONS, LATEST REVISIONS.

11. ORANGE SNOW FENCE IS TO BE PLACED ALONG THE LIMITS OF CLEARING PRIOR TO ANY ONSITE CUTTING/ACTIVITY.

12. AS BUILT LOCATIONS OF THE SITE FEATURE CHANGES MADE FOR THE MODIFICATION TO APPROVED PROJECT

APPLICATION SUBMISSION ON JUNE 11, 2021 WAS BASED SITE PLAN MARK UPS PROVIDED BY SEVERING TRUCKING

CONSTRUCTION SCHEDULE:
1. CONSTRUCTION IS ANTICIPATED TO BEGIN IN SPRING 2017 AND BE COMPLETE BY FALL 2019.

- DEMOLITION NOTES:
  1. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES.
- COORDINATE REMOVAL, RELOCATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE
- UTILITY COMPANY.

  UTILITY ES HALL BE TERMINATED AT THE MAIN LINE PER UTILITY COMPANY STANDARDS. THE CONTRACTOR SHALL

  REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS OF WORK. CONTRACTOR SHALL VERIFY ORIGIN OF

  ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR UTILITY IS ACTIVE AND ALL DRAINS AND DITLITIES PRIOR TO REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR VILLET TO REMOVE.

  SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF

  ANY SUCH UTILITY FOUND AND SHALL MAINTAIN THESE UTILITIES UNTIL PERMANENT SOLUTION IS IN PLACE.

  ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/ DEMOLITION ACTIVITIES. SHALL BE

REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST

TO THE OWNER.

SAWCUT AND REMOVE PAVEMENT ONE FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB LINE IN ALL

AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.

PAVEMENT REMOVAL LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT REMOVAL MAY

BE REQUIRED DEPENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT

REMOVAL PRIOR TO BID.

CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES WITHIN THE WORK LIMITS SHOWN AND CALLED OUT TO BE REMOVED. ITEMS TO BE REMOVED INCLUDE, BUT ARE NOT LIMITED TO: PAVEMENT, PROCESSED ROCK FILL, CATCH BASINS, UNDERGROUND PIPING, SIGNS, TREES, AND SHRUBS. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE ARE EXISTING FEATURES THAT MUST BE REMOVED TO COMPLETE THE WORK BUT ARE NOT CALLED OUT TO BE REMOVED ON THE DEMOLITION PLANS. EXISTING FEATURES CALLED OUT TO BE REMOVED BUT

THAT ARE LOCATED OUTSIDE THE LIMIT OF WORK SHALL BE REMOVED BY THE DEVELOPER'S SITE CONTRACTOR. REMOVE TREES AND BRUSH AS REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL GRUB AND REMOVE ALL STUMPS WITHIN LIMITS OF WORK AND DISPOSE OF OFF SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL AWS AND REGULATIONS.

9. CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY BY THE CONTRACTOR, CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO REPLACE IT.

10. THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING,

SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.

11. SAWCUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES TO BE REMOVED AND PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.

SITE NOTES:
 STOP BARS SHALL BE THERMOPLASTIC AND CONFORM TO CURRENT MUTCD STANDARDS.
 SEE DETAILS SHEETS FOR PAVEMENT MARKINGS, SIGNS, AND SIGN POSTS.

STOP BARS SHALL BE EIGHTEEN (18) INCHES WIDE WHITE LINES.

CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAWCUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.

ALL WORK SHALL COMPLY WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "STANDARD

SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
ALL SIGNS SHALL CONFORM WITH "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST

ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED

GRADING AND DRAINAGE NOTES:

BELOW PAVED OR CONCRETE AREAS

TRENCH BEDDING MATERIAL AND SAND BLANKET BACKELL 95%

\*ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS NED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.

ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR APPROVED EQUAL)

OR RCP CLASS IV, UNLESS OTHERWISE SPECIFIED.

CONTRACTOR SHALL PROVIDE A FINISHED PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, RAMPS AND LOADING DOCK AREAS ADJACENT TO

ALL PROPOSED CATCH BASINS SHALL BE EQUIPPED WITH 4' SUMPS.
ALL DRAINAGE PIPE WITH LESS THAN 4' OF COVER SHALL BE INSULATED WITH 2 INCH RIGID FOAM INSULATION.
CATCHBASINS AND DRAIN MANHOLES SHALL BE 4 FT IN DIAMETER UNLESS OTHERWISE NOTED.

ALL STORM PRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.

UTILITY NOTES:
1. COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY. SEWER/WATER/DRAINAGE: CITY OF ROCHESTER
ELECTRIC: EVERSOURCE ENERGY (FORMERLY PSNH)

TELEPHONE/DATA: METROCAST AND /OR FAIRPOINT

TELEPHONE/DATA: METROCAST AND FOR FAIRPOINT
ALL WATER MAIN INSTALLATIONS SHALL BE CLASS 52, CEMENT LINED DUCTILE IRON PIPE.
ALL WATER MAIN INSTALLATIONS SHALL BE PRESSURE TESTED AND CHLORINATED AFTER CONSTRUCTION PRIOR TO
ACTIVATING THE SYSTEM, CONTRACTOR SHALL COORDINATE CHLORINATION AND TESTING WITH THE CITY OF

ROCHESTER, NEW HAMPSHIRE PUBLICS WORKS DEPARTMENT 4. ALL SEWER PIPE SHALL BE PVC SDR 35 UNLESS OTHERWISE STATED CONNECTION TO EXISTING WATER MAIN SHALL BE CONSTRUCTED TO CITY OF ROCHESTER STANDARD

ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION AND ALL APPLICABLE STATE AND LOCAL CODES.

AND ALL APPLICABLE STATE AND LOCAC COURS.

ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.

THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES,
AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF

AND OTHER MISCELLAREOUS TEMS AND INCLUSARIES DETAILED ON THISE DAWNINGS TO REMAKE THIS ACCURATION AT 10-FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES, AN 18-INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS.

10. HYDRANTS, GATE VALVES, FITTINGS, ETC. SHALL MEET THE REQUIREMENTS OF THE CITY OF ROCHESTER.

11. COORDINATE TESTING OF SEWER CONSTRUCTION WITH THE CITY OF ROCHESTER.

12. ALL SEWER PIPE WITH LESS THAN 4' OF COVER IN UNPAYED AREAS AND LESS THAN 6' OF COVER IN PAYED AREAS SHALL BE INSULATED.

13. CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH EVERSOURCE AND FAIRPOINT COMMUNICATIONS.

THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS IN QUANTITIES AS SHOWN ON THIS PLAN. NO SUBSTITUTIONS WILL BE PERMITTED UNLESS APPROVED BY OWNER. ALL PLANTS SHALL BE NURSERY GROWN.

ALL PLANTS SHALL BE NURSERY GROWN AND PLANTS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS, INCLUDING BUT NOT LIMITED TO SIZE, HEALTH, SHAPE, ETC., AN SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO ARRIVAL ON-SITE AND AFTER

3. PLANT STOCK SHALL BE GROWN WITHIN THE HARDINESS ZONES 4 THRU 7 ESTABLISHED BY THE PLANT HARDINESS ZONE MAP, MISCELLANEOUS PUBLICATIONS NO. 814, AGRICULTURAL RESEARCH SERVICE, UNITED STATES DEPARTMENT AGRICULTURE, LATEST REVISION.

4. PLANT MATERIAL SHALL BARE THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE

5. THE NUMBER OF EACH INDIVIDUAL PLANT TYPE AND SIZE PROVIDED IN THE PLANT LIST OR ON THE PLAN IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. IF A DISCREPANCY EXISTS BETWEEN THE NUMBER OF PLANTS ON THE LABEL AND THE NUMBER OF SYMBOLS SHOWN ON THE DRAWINGS, THE GREATER NUMBER SHALL APPLY.

6. NO SUBSTITUTION OF PLANT MATERIALS WILL BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.

7. THE CONTRACTOR SHALL LOCATE, VERIFY AND MARK ALL EXISTING AND NEWLY INSTALLED UNDERGROUND UTILITIES PRIOR TO ANY LAWN WORK OR PLANTING, ANY CONFLICTS WHICH MIGHT OCCUR BETWEEN PLANTING AND UTILITIES SHALL IMMEDIATELY BE REPORTED TO THE OWNER SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.

8. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED, SHALL RECEIVE SIX (6) INCHES OF LOAM AND SEED. NO FILL SHALL BE PLACED IN ANY WETLAND AREA.

THREE (3) INCH BARK MULCH IS TO BE USED AROUND THE TREE AND SHRUB PLANTING AS SPECIFIED IN THE DETAILS, WHERE BARK MULCH IS TO BE USED IN A CURBED ISLAND THE BARK MULCH SHALL MEET THE TOP INSIDE EDGE OF THE CURB. ALL OTHER AREAS SHALL RECEIVE SIX (6) INCHES OF LOAM AND SEED.

10. LANDSCAPING SHALL BE LOCATED WITHIN 150 FT OF EXTERIOR HOSE ATTACHMENT OR SHALL BE PROVIDED WITH AN

11. SEE PLANTING DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

12. TREE STAKES SHALL REMAIN IN PLACE FOR NO LESS THAN 6 MONTHS AND NO MORE THAN 1 YEAR.

13. PLANTING SHALL BE COMPLETED FROM APRIL 15TH THROUGH OCTOBER 1ST, NO PLANTING DURING JULY AND

AUGUST UNLESS SPECIAL PROVISIONS ARE MADE FOR DROUGHT.

14. PARKING AREA PLANTED ISLANDS TO HAVE MINIMUM OF 1'-O" TOPSOIL PLACED TO WITHIN 3 INCHES OF THE TOP OF CURB ELEVATION. REMOVE ALL CONSTRUCTION DEBRIS BEFORE PLACING TOPSOIL.

15. TREES SHALL BE PRUNED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI A300 'TREES, SHRUBS AND OTHER

WOOD PLANT MAINTENANCE STANDARD PRACTICES. 16. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL

PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN, IF NECESSARY DURING THE FIRST GROWING SEASON, 17. EXISTING TREES AND SHRUBS SHOWN ON THE PLAN ARE TO REMAIN UNDISTURBED. ALL EXISTING TREES AND SHRUBS SHOWN TO REMAIN ARE TO BE PROTECTED WITH A 4-FOOT SNOW FENCE PLACED AT THE DRIP LINE OF THE

BRANCHES OR AT 8 FEET MINIMUM FROM THE TREE TRUNK, ANY EXISTING TREE OR SHRUB SHOWN TO REMAIN WHICH IS REMOVED DURING CONSTRUCTION, SHALL BE REPLACED BY A TREE OF COMPARABLE SIZE AND SPECIES 18. THE CONTRACTOR SHALL GUARANTEE ALL PLANTINGS TO BE IN GOOD HEALTHY, FLOURISHING AND ACCEPTABLE CONDITION FOR A PERIOD OF (1) YEAR BEGINNING AT THE DATE OF ACCEPTANCE OF SUBSTANTIAL COMPLETION. ALL RASSES, TREES AND SHRUBS THAT, IN THE OPINION OF THE LANDSCAPE ARCHITECT, SHOW LESS THAN 80%

HEALTHY GROWTH AT THE END OF ONE YEAR PERIOD SHALL BE REPLACED BY THE CONTRACTOR. 19. UPON EXPIRATION OF THE CONTRACTOR'S ONE YEAR GUARANTEE PERIOD, THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE INCLUDING WATERING DURING PERIODS OF DROUGHT

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTING AND LAWNS AGAINST DAMAGE FROM ONGOING CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL ACCEPTANCE OF ALL THE PLANTINGS.

21. PRE-PURCHASE PLANT MATERIAL AND ARRANGE FOR DELIVERY TO MEET PROJECT SCHEDULE AS REQUIRED IT MAY BE NECESSARY TO PRE-DIG CERTAIN SPECIES WELL IN ADVANCE OF ACTUAL PLANTING DATES.

			EXISTIN	G DRAINA	AGE AND	SEWER S	TRUCTUE	RE TABLE			
		S.M.H. #1	S.M.H. #2	S.M.H. #3	S.M.H. #4	S.M.H. #5	C.B. #1	C.B. #2	C.B. #3	C.B. #4	C.B. #5
SI	ZE	32" DIA.	32" DIA	32" DIA	32" DIA	32" DIA	24" DIA.	22"X24"	24" DTA.	24"X24"	22"X24"
RIM ELE	VATION	246.95'	244.20'	240.80'	238.60'	239.85'	240.45'	239.55'	239.15	238.05'	237.25
SU	MP	239.75'	237.40'	233.95'	232.00'	230.95'	237.90'	235.50*	235.00'	234,60'	233.45
	INVERT	239.80'	237.55'	234.00'	232.00'	231.10'	238.70'	237.20'	236.80'	236.20'	5.20' 235.65'
PIPE "A"	TYPE	10" P.V.C.	10" P.V.C.	10" P.V.C.	10" P.V.C.	12" P.V.C.	12" C.P.P.	12" C.M.P.	12" C.P.P.	12" C.P.P.	14" R.C.P.
	INVERT	239.751	237.40'	233.95'	232.00'	230.951	238.60'	237.45'	236.60'	236.30'	
PIPE "B"	TYPE	10" P.V.C.	10" P.V.C.	10" P.V.C.	12" P.V.C.	12" P.V.C.	12" C.M.P.	12" C.P.P.	12" C.P.P.	12" C.P.P.	
	INVERT	239.80'			232.00'						
PIPE "C" TYP	TYPE	10" P.V.C.			10" P.V.C.						

### SOIL DELINEATION NOTES:

A SITE SPECIFIC SOIL SURVEY WAS PREPARED ON JUNE 29, 2016, BY JAMES P. GOVE, CSS # 004, GOVE ENVIRONMENTAL SERVICES, INC.

SOILS WERE IDENTIFIED WITH THE NEW HAMPSHIRE STATE-WIDE NUMERICAL SOILS LEGEND, USDA NRCS, DURHAM, NH. ISSUE #10, JANUARY 2011.

THE SOIL DELINEATION WAS CONDUCTED WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, INTENDED FOR INFILTRATION REQUIREMENTS BY THE NHDES ALTERATION OF TERRAIN BUREAU. IT WAS PRODUCED BY A PROFESSIONAL SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCES CONSERVATION SERVICE. A REPORT HAS BEEN PREPARED THAT ACCOMPANIES THIS SOILS DELINEATION

DIL LEGEND		
AP UNIT SYMBOL	MAP UNIT NAME	HYDROLOGIC SOIL GROU
9	CHATFIELD, FINE SANDY LOAM	В
14	NEWFIELDS, FINE SANDY LOAM	В
00	UDORTHENTS, LOAMY	B (ESTIMATED)
16/D	WALDOLE FINE SANDY LOAM	D (ESTIMATED)

ENDOAQUENTS, LOAMY

SLOPES: 0-8% = B

DRAINAGE: POORLY DRAINED = /P

TEST PIT DATA TEST PITS CONDUCTED BY GOVE ENVIRONMENTAL SERVICES ON 5/17/16, TEST PITS WERE LOGGED BY JIM GOVE AND VIEWED BY ROBERT GRAHAM OF EKIMBOR, LLC

TEST PIT #1					
DEPTH	COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES
0-12"	10YR3/2	LS	GR	FR	
12-24"	10YR5/4	LS	GR	FR	
24-50"	2.5Y5/3	S	SG	L	7.5YR5/6 C/P
REFUSAL AT 50	", ESHWT AT 24	", OBSERVED	WATER 42"		

TEXTURE STRUCTURE CONSISTENCE REDOX FEATURES 6-22" FSL 22-55" 2.5Y5/3 7.5YR5/6 C/P REFUSAL AT 55", ESHWT AT 22", OBSERVED WATER 50

TEST PIT #3 COLOR TEXTURE STRUCTURE CONSISTENCE REDOX FEATURES 0-9" 9-23" 23-67 2.5Y5/3 REFUSAL AT 50". ESHWT AT 23", OBSERVED WATER - NONE, RESTRICTIVE LAYER AT 23"

0-12" 10YR3/2 FSL FSL 5YR5/6 C/P 2.5y5/3 23-68 REFUSAL AT 68", FSHWT AT 23", OBSERVED WATER 60", RESTRICTIVE LAYER AT 23"

TEST PIT #5 DEPTH STRUCTURE CONSISTENCE REDOX FEATURES 0-9" 10YR3/2 FSL GR GR 9-33" 10YR4/6

REFUSAL AT 33", ESHWT AT 33"

TEST PIT #6 COLOR TEXTURE STRUCTURE CONSISTENCE REDOX FEATURES 10YR3/2 6-35" 10YR4/6 FSL 35", ESHWT AT 35"

TEST PIT #7 COLOR TEXTURE STRUCTURE CONSISTENCE REDOX FEATURES 10YR3/2 10YR4/6 7.5YR5/6 C/P 28-52" 2.5Y5/3 REFUSAL AT 52", ESHWT AT 28", OBSERVED WATER - NONE, RESTRICTIVE LAYER AT 28"

TEST PIT #8 DEPTH STRUCTURE CONSISTENCE COLOR TEXTURE 0-14" 10YR4/4 SAND MASSIVE FRIABLE NONE 14-26" 26-30" 10YR4/6 2.5Y5/3 L. SAND MASSIVE FRIABLE 7.5YR5/6, 5% REFUSAI REFUSAL AT 30", ESHWT AT 26

TEST PIT #9 DEPTH COLOR STRUCTURE CONSISTENCE TEXTURE 0-20" 10YR3/3 GR. SAND MASSIVE FRIABLE NONE 20-24" 10YR 3/2 F.S.LOAM GRANULAR FRIABLE NONE 10YR5/6 2.5Y5/3 GRANULAR NONE 7.5YR4/6, 10% F.S.LOAM 30-63" L. SAND MASSIVE FRIABLE REFUSA REFUSAL AT 63", ESHWT AT 30"

TEST PIT #10 STRUCTURE CONSISTENCE REDOX FEATURES COLOR TEXTURE 0-12" 10YR4/4 GR. SAND MASSIVE FRIABLE 10YR5/6 10YR6/2 L. SAND 12-27" MASSIVE 27-32" 32-33" 10YR2/1 SAND MASSIVE VERY FIRM 7.5YR4/6, 10% 33-87" 10YR4/3 SAND MASSIVE FRIABLE 7.5YR4/6, 10% REFUSAL AT 87", ESHWT AT 27'

EXISTING PROPERTY LINE

### <u>LEGEND</u>

PROPOSED PROPERTY LINE - WETLAND LINE TREELINE EXISTING WATER LINE PROPOSED WATER LINE -- 55 ------- ss ---PROPOSED SANITARY SEWER LINE — EXISTING OVERHEAD ELECTRIC --- OE ------- PROPOSED OVERHEAD ELECTRIC ---PE&C----PROPOSED UNDERGROUND ELECTRIC PROPOSED TRANSFORMER 1 FT CONTOUR ---252--

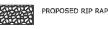
---250----- 5 FT CONTOUR 248 PROPOSED GRADE EXISTING DRAIN LINE PROPOSED DRAIN LINE PROPOSED PIPE WITH 2 INCH RIGID FOAM INSULATION

PROPOSED GAS LINE

CONSTRUCTION LOCATION LIMIT OF CLEARING AND

PERIMETER CONTROL BARRIER





FENCE







# Proposed **Multi-family** Development

# **Norway Plains Road** Site Plans

Tenants In Common Robert Graham 81 Lakeview Drive Nottingham, NH 03290

TEST PIT (SEE ABOVE)

EXISTING SANITARY

PROPOSED SANITARY

PROPOSED FINISHED

FLOOR ELEVATION EXISTING CATCH BASIN

PROPANE TANK PROPOSED SIGN

PROPOSED LIGHT

PROPOSED SPOT GRADE

PROPOSED CATCH BASIN

EXISTING DRAIN MANHOLE

PROPOSED DRAIN MANHOLE

PROPOSED UNDERGROUND

INLET PROTECTION BARRIER

EXISTING UTILITY POLE

PROPOSED UTILITY POLE

EXISTING FIRE HYDRANT

PROPOSED FIRE HYDRANT

EXISTING WATER VALVE

PROPOSED WATER VALVE

SEWER MANHOLE

SEWER MANHOLE

**⑤** 

0

0

0

X\*+XX

Michael Anderson 2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

# Rochester, New Hampshire

2,	6/10/2021	MODIFICATION TO APPROVED PROJECT APPLICATION
1.	12/16/16	RESPONSE TO CITY COMMENTS
A	10/11/2016	City Review Comments
MARK	DATE	DESCRIPTION
PROJE	CT NO:	G-0693
DATE:	09/06/2016	
FILE:	G0693-G-001	_GENERAL-NOTES.dwg
DRAWA	N DV+	EDC/VAM

KAM

GENERAL NOTES, LEGEND, AND ABBREVIATIONS

SCALE:

CHECKED:

G-001

43°-19'-28"N

DESCRIPTION
THE PROJECT CONSISTS OF THE CONSTRUCTION OF A RESIDENTIAL DEVELOPMENT WITH ASSOCIATED PARKING, ROAD, DRAINAGE, UTILITIES, AND LANDSCAPING CONSISTENT WITH THE CITY OF ROCHESTER'S MASTER PLAN.

DISTURBED AREA
THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY ±4.1 ACRES.

SOIL CHARACTERISTICS
BASED ON SITE SPECIFIC SOIL SURVEY CONDUCTED BY NHSC, INC. THE SITE CONSISTS OF WELL TO POORLY DRAINED SOILS

NAME OF RECEIVING WATERS
THE STORM WATER RUNOFF WILL BE DISCHARGED VIA OVERLAND FLOW TO UNNAMED WETLAND WHICH ULTIMATELY FLOWS TO THE COCHECO RIVER.

- SEQUENCE OF MAJOR ACTIVITIES

  1. ORANGE SNOW FENCE IS TO BE PLACED ALONG THE LIMITS OF CLEARING PRIOR TO ANY ONSITE CUTTING/ACTIVITY.
- CUT AND CLEAR TREES.
- CONSTRUCT TEMPORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS THAT W INFLUENCE STORMWATER RUNOFF SUCH AS:

  - NEW CONSTRUCTION
    DEVELOPMENT OF BORROW PIT AREAS
- DISPOSAL OF SEDIMENT SPOIL, STUMP AND OTHER SOLID WASTE
- FLOOD PLAIN EXCAVATION WORK
- CONTROL OF DUST
- CONSTRUCTION OF ACCESS AND HAUL ROAD
- NEARNESS OF CONSTRUCTION SITE TO RECEIVING WATERS CONSTRUCTION DURING LATE WINTER AND EARLY SPRING
- ALL PERMANENT DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS TO BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMPS PRIOR TO DIRECTING RUNOFF TO THEM.
  CLEAR AND DISPOSE OF DEBRIS.
  CONSTRUCT TEMPORARY CULVERTS AND DIVERSION CHANNELS AS REQUIRED.
- GRADE AND GRAVEL ROADWAYS AND PARKING AREAS ALL ROADS AND PARKING AREA SHALL BE STABILIZED
- IMMEDIATELY AFTER THEIR CONSTRUCTION.
  BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES HALL BE SEEDED AND MULCHED
- IMMEDIATELY AFTER THEIR CONSTRUCTION. IMMEDIALELY AFTER THEIR CONSTRUCTION.

  DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC.,
  MULCH AND SEED AS REQUIRED.

  FINISH PAVING ALL ROADWAYS AND PARKING LOTS.

- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.

  COMPLETE PERMANENT SEEDING AND LANDSCAPING,
  REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION

NOTE: THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE.

- EROSION CONTROL NOTES
  1. ALL EROSION CONTROL MEASURES AND PRACTICES SHALL CONFORM TO THE "NEW HAMPSHIRE STORMWATER MANUAL VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION" PREPARED BY THE NHOES.
  2. CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL BARRIERS, INCLUDING HAY BALE, SILT FENCES, SILT SACKS
- AND SILT SOCKS, AS SHOWN IN THESE DRAWINGS AS THE FIRST ORDER OF WORK.
  SILT SACK INLET PROTECTION SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH BASIN INLETS WITHIN THE
  WORK LIMITS AND BE MAINTAINED FOR THE DURATION OF THE PROJECT.
- WORK LIMITS AND BE MAINTAINED FOR THE DURATION OF THE PROJECT.

  PERIMETER CONTROLS INCLUDING SILT FENCES, HAY BALE BARRIERS, AND/OR SILT SOCKS SHALL MAINTAINED FOR THE DURATION OF THE PROJECT UNTIL NON-PAVED AREAS HAVE BEEN STABILIZED.

  THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON
- COMPLETION OF CONSTRUCTION.
- COMPLETION OF CONSTRUCTION.
  ALL DISTURBED AREAS NOT OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED, AND FERTILIZER.
  INSPECT ALL INLET PROTECTION AND PERIMETER CONTROLS WEEKLY AND AFFER EACH RAIN STORM OF 0.25 INCH OR
  GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN
- SEDIMENT IS 1/3 THE FILTER HEIGHT.
  CONSTRUCT EROSION CONTROL BLANKETS ON ALL SLOPES STEEPER THAN 3:1.

- STABILIZATION

  1. AN AREA SHALL BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED:

  A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.

  B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
- A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- WINTER STABILIZATION PRACTICES:
- TIER STABILIZATION PRACTICES:
  ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED
  GROWTH BY NOVEMBER 15TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 15TH, SHALL BE STABILIZED BY
  SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 4:1, AND SEEDING AND
  PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHOR NETTING, ELSEWHERE.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITION.
- AFTER NOVEMBER 15TH INCOMPLETE ROAD SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL PER NHOOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.

  STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS, WHERE CONSTRUCTION
- ACTIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE USED INCLUDE:
  - TEMPORARY SEEDING MULCHING
- WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF NEARBY SURFACE WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN THESE AREAS, SILT FENCES AND HAY BALE BARRIERS AND ANY EARTH-DIKES SHALL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.

  DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED
- CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH HAY BALE BARRIERS AND SILT FENCES OR SILT SOCKS. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY NOVEMBER 15.

- DUST CONTROL:

  1. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.

  2. DUST CONTROL METHODS SHALL INCLUDE, BUT BE NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING.

  3. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ABUTTING
- AREAS INCLUDING BUT NOT LIMITED TO ROUTE 11 (FARMINGTON ROAD).

- STOCKPILES

  1. LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CATCH BASINS, SWALES, AND CULVERTS. ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE ONSET OF
- PREINFER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED
- AT THE END OF EACH WORKING DAY. AT THE END OF EACH WORKING DAY.

  PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF USING TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPROVED PRACTICE TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.

OFF SITE VEHICLE TRACKING
THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES PRIOR TO ANY EXCAVATION ACTIVITIES.

VEGETATION
1. TEMPORARY GRASS COVER

PORGET GRASS COVER
SEEDBED PREPARATION:
APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS PER ACRE.

- UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE.

- WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.

  APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYPROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYPROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.
- TEMPORARY SEEDING SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION, IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT. REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.).
- 5. VEGETATIVE PRACTICE
  - FOR PERMANENT MEASURES AND PLANTINGS.

    1. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF THREE (3) TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5.

  - ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5.
    FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER
    APPLICATION RATE SHALL BE 800 POUNDS PER ACRE OF 10-20-20 FERTILIZER.
    SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE
    THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED,
    SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND
    GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4-1/2 POUNDS AND 5-1/2 POUNDS PER INCH OF
  - SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE OF A CALM, DAY DAY,
    PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. IMMEDIATELY BEFORE
    SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND
    THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER
- HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AS INDICATED ABOVE.
- THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED.
  A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:

CREEPING RED FESCUE 50 LBS/ACRE KENTUCKY BLUEGRASS PERRENIAL RYE GRASS 50 LBS/ACRE

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE (1) PERCENT BY WEIGHT, ALL SEED SHALL COMPLY WITH STATE AND ALL COMPLY WITH STATE AND FEDERAL SEED LAWS. SEEDING SHALL BE DONE NO LATER THAN SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PLACE OVER SNOW.

DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL)

FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS, APPLY SEED MIXTURE AT TWICE THE INDICATED RATE, APPLY MULCH AS INDICATED FOR PERMANENT MEASURES.

- CONCRETE WASHOUT AREA
  1. THE FOLLOWING ARE THE ONLY NON-STORMWATER DISCHARGES ALLOWED. ALL OTHER NON-STORMWATER DISCHARGES
  ARE PROHIBITED ON SITE.
  A. THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT FACILITIES AT THEIR OWN PLANT OR
  - DISPATCH FACILITY.

    IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO

  - THANDLE AND TOTAL WASHOUT WATER.

    CONTRACTOR SHALL LOCATE WASHOUT AREAS AT LEAST 150 FEET AWAY FROM STORM DRAINS, SWALES AND SURFACE WATERS OR DELINEATED WETLANDS.

    INSPECT WASHOUT FACILITIES DAILY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN MATERIALS NEED TO BE

# ALLOWABLE NON-STORMWATER DISCHARGES 1. DISCHARGES FROM FIRE-FIGHTING ACTIVITIES

- FIRE HYDRANT FLUSHINGS
- WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED WATER USED TO CONTROL DUST POTABLE WATER INC. UNCONTAMINATED WATER LINE FLUSHINGS
- ROUTINE EXTERNAL BUILDING WASH DOWN -NO DETERGENTS PAVEMENT WASH WATERS -NO SPILLS OR DETERGENTS UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATE
- UNCONTAMINATED GROUND WATER OR SPRING WATER
- FOUNDATION OR FOOTING DRAINS -NOT CONTAMINATED UNCONTAMINATED EXCAVATION DEWATERING
- LANDSCAPE IRRIGATION

- A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER.
- NO CONSTRUCTION WASTE MATERIALS SHALL BE BURLED ON SITE.

  ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
- ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE
- REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
- ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.
- SPILL PREVENTION

  1. CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OCITIZED BESIDE.

  THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF: GOOD HOUSEKEEPING:
  - THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:

    1. ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON SITE.

  - ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
  - THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
  - HAZARDOUS PRODUCTS: INJURY PRODUCTS:

    THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:

    PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE,

    ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT PRODUCT
  - INFORMATION. INFORMATION.

    3. SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.

    PRODUCT SPECIFICATION PRACTICES
  - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON SITE:
    - ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE.
    - MAIN INVAICE ID REDUCE LEARAGE.

      PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
  - 2. FERTILIZERS

- FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE
- SPECIFICATIONS.
  ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY

- ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE.
- EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM.

  EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR
- STATE AND LOCAL REGULATIONS.

PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND

- SPILL CONTROL PRACTICES
  IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS
  SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE
  - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

VEHICLE FUELING AND MAINTENANCE PRACTICE:

- CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
  ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
  THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE
  CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE LOCAL, STATE OR
- FEDERAL AGENCIES AS REQUIRED.
  THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
- CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPTMENT/VEHICAL FUELING AND MAINTENANCE AT
- AN OFF-SITE FACILITY. CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS CLEAN AND DRY.
- IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED.

  CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA
- CONTRACTOR SHALL VEHICLES SHALL BE INSPECTED REGULARLY FOR LEAKS AND DAMAGE
- CONTRACTOR SHALL USE DRIP PANS, DRIP CLOTHS, OR ABSORBENT PADS WHEN REPLACING SPENT FLUID.

EROSION CONTROL OBSERVATIONS AND MAINTENANCE PRACTICES
THIS PROJECT EXCEEDS ONE (1) ACRE OF DISTURBANCE AND THUS REQUIRES A SWPPP. THE SWPPP SHALL BE PREPARED BY
THE CONTRACTOR. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SWPPP AND KEEP AN UPDATED COPY OF THE SWPPP

- THE FOLLOWING REPRESENTS THE GENERAL OBSERVATION AND REPORTING PRACTICES THAT SHALL BE FOLLOWED AS PART OF THIS PROJECT. 1. OBSERVATIONS OF THE PROJECT FOR COMPLIANCE WITH THE SWPPP SHALL BE MADE BY THE CONTRACTOR AT
- LEAST ONCE A WEEK OR WITHIN 24 HOURS OF A STORM 0.25 INCHES OR GREATER.

  AN OBSERVATION REPORT SHALL BE MADE AFTER EACH OBSERVATION AND DISTRIBUTED TO THE ENGINEER, THE OWNER, AND THE CONTRACTOR.
- A REPRESENTATIVE OF THE SITE CONTRACTOR, SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES.

  IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

- <u>BLASTING NOTES</u> IF MORE THAN 5000 CUBIC YARDS ARE TO BE BLASTED A BLASTING PLAN SHALL BE PROVIDED. BLASTING PLAN SHALL INCLUDE: LOCATION AND IDENTIFICATION OF DRINKING WATER WELLS LOCATED WITHIN 2000 FEET OF THE PROPOSED
- BLASTING ACTIVITIES. A GROUNDWATER QUALITY SAMPLING PROGRAM, APPROVED BY NHDES PRIOR TO INITIATING BLASTING, TO MONITOR FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE APPROVED BY NHDES. THE FOLLOWING BEST MANAGEMENT PROCEDURES FOR BLASTING SHALL BE COMPLIED WITH:
- LOADING PRACTICES. THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:
  - DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER.
    THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK
    ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.
  - ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.

    EXPLOSIVE PRODUCTS SHALL BE MANAGED ON-SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL.

    SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND
- RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE
- BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED
- DETONATION SHOULD BE POSTPONED.

  LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT.

  EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE NEED TO BE ATTENDED TO.
- EXPLOSIVE SELECTION THE FOLLOWING BMPS SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN
- EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE CONDITIONS AND SAFE BLAST EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON
- GROUNDWATER. PREVENTION OF MISFIRES. APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO PREVENT
- MUCK PILE MANAGEMENT MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES:

  1. REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE.
- WATER SUPPLY WELLS OR SURFACE WATER
  SPILL PREVENTION MEASURES AND SPILL MITIGATION SPILL PREVENTION AND SPILL MITIGATION MEASURES SHALL BE IMPLEMENTED TO PREVENT THE RELEASE OF FUEL AND

MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF

- OTHER RELATED SUBSTANCES TO THE ENVIRONMENT. THE MEASURES SHALL INCLUDE AT A MINIMUM:

  1. THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE:

  a. STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE;
  - SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY:
  - LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY;
  - INSPECT STORAGE AREAS WEEKLY: COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS:
  - WHEREVER POSSIBLE, KEEP REQULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC
  - SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OF UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
  - THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
- EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED; PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS; HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS;
- d. USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES; AND

  e. PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.

  THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION
- THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES. FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT SHALL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT OR ITS. SUCCESSOR DOCUMENT. (SEE HTTP://DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF)





# **Proposed Multi-family Development**

# **Norway Plains Road Site Plans**

Tenants in Common: Robert Graham 81 Lakeview Drive Nottingham, NH 03290

Michael Anderson

Rochester, New Hampshire

2637 E Atlantic Blvd #172

Pompano Beach FL 33062-4939

12/16/16 RESPONSE TO CITY COMMENT A 10/11/2016 City Review Comm MARK DATE DESCRIPTION DATE: 09/06/2016 FILE: G0693-G-002\_EROSION-CONTROL-NOTES. HECKED

BLM

AS SHOWN

**EROSION CONTROL NOTES** 

SCALE:

APPROVED

G-002





NOTICE OF DECISION

November 14, 2016

Robert Graham
Robert Graham & Michael Anderson Tenants in Görninan11 Lassavier, Britise
14 Lassavier, Britise
1600 Pompano Seach, FL 33062

Ro: Site plan to construct 40 4-unit townnomes and one duplet. One of 275-77-82=15

This is, to inform you that the Roctastal Planning-Board at its November 7, 2016 meeting APPROVED your application referenced above.

"Applicant", herein, refers to the property owner, business elemen, individual(e), or organization submitting this application and to herherita agentle, successors, and assigns.

1) Planmadilication. Make the following modifications to the plan-drawings:

NOTICE OF DECISION

The plans will need to reliked the correct Mag-Lot #, which will be leaved as part of the subdivision that will occur prior to this site plan.

- c) Please add additional evergreen threat between Narway Pfelins Road and the north wartern more! Felices refedes to the original farefacephing. pleas. (The searching regestables in one forestragemen and not provide accessing from the abusing property. Made of this oritisting vegestation to be the abusing property, Made I admin or the administry adjudition plant. Additional every provided the administry to provide the provided the provided and Regulation striking abusiness and in traces y nature our of screening for inace. Sair Plant Regulation striking a Souther for the provided the provide
- d) On Sheet C-505 please change the fence detail label from "6" to "6" feet.
- Provide a management plan for drainage and subart it to the Planning Description.
- 2) Plan notes. Add the following notes (or equivalent) to the plan drawings:
- 6) Please change "Special Note 3" on Sheet G-101 to read "Prior to plan certification, the applicant shall provide a copy of the reprogrammed agreement/Condom/thom Documents and Stomments Operations and Identifications Plan & Schedule to the Platfishig Department?.
- Přesase ofrange second unnumbered note un Sheet Ö-101 to read 1.00p; road is designed as a private road and muse remain a private roed".

- Please include a title, properly information, and date on architectural plans.
- Please add lighting fluture datast that adheres to signific requisitions (Site Plan Regulation Article 3, Settion 6).
- d) Details shall be provided for vinyl fence (replacing stockade fence).

t), Plan modifications. The plan drawings are to be modified as follows:

- b) Update the subdivision plan sheet 2 of \$ to variance that was granted on October 12, 2016.
- Väitly Mep-Loi numbers of each tot with the Assessing Department. Any requested revisions must be included on the plants.

- State candinates. The plane are to be field into the State Plane Coordinate System.
- Opplann.

  First DIDMESSA. (a) Dive eth of rinyler plus (b) gis calls all large filter five a plus (d) one eth of it is in Pill first approved the plan dearloop plus (d) one ethicitoric ventricity of art of Direct set on the plan dearloop plus (d) one ethicitoric ventricity grad and provided the plan dearloop and other plus dearloop and other plus dearloop and stagged by the first surveys employer, or established provided for the surveys (the applicant reactory submit and established provided for the surveys or backward planets, as made of, to nation from complete state. Provided stagged to be another planets, as made of, to make the planets of the planets of the planets of the other planets of

- No parking signs are required along the aldes of the proposed stress and Norway. Plains Road (as suggested by the Department of Public Works). \$5,000 will be provided by the applicant for additional sidewalks on Milton Road.
- 8)# Carrent use. The subject property is not in Current Use.
- State-oten countinates. The plans and to be field into the State Plans Coordinates.
- Inaccoding. The expiricant must sign the <u>Egypnement for Permiss of Inaccoding</u>
  Eggs and make a dath deposit to cover the specialistic data of steposition, in a
  smooth fittle federimitated by the Discover Cover September (The Inspection, in a
  smooth fittle federimitated by the Discover Cover September Visitat Disputation of its
  declaration. The exploration must be put in Dispection's 6th Though rails dis
  determined by the PUDISCOVING Dispositificant of the site, including all cow
  interactions and origing the site.

- Desired selections: It required by the Department of Public Works as draftlegs indirectance agreement approved by Public Works must be execute.

General and Subsequent Conditions

- 1) These buildings will require aprinteers, electes, and offsite monitoring.
- 2) The applicant is required to provide legal agreements between the applicant and the City will be required before the applicant can work within the City right-of-

QTBS Peirijis, II fa lībē rēsporsībilīty of the explicariito obtain vāl cilver lapsķ, sinks, and federal pervilsi, lipanses, and spprovide virbis may be reputed as pent of this project (Nr. PEN, AIVISSS). Contactivate City of forcetable Busiling, Licansing, and Zoning Department at 352-3508 regarding building permits.

Note: in both sactions above, the numbered condition marked with a # and will conditions below the # are standard conditions on all or most applications of this

3) Silb\_cods. No alla work may be undertaken until t a) all of the precedent contilions are mit. b) the pre-construction meeting with (b) ratif has contilions are mit. b) the pre-construction meeting with (b) ratif has been supported to the contilion of the con

- Barthomatics usuantiale. The solidarial provides and instances of a building germit or beginning that work shall provide all improvement and nationation security. The performance operatorials are not set to be a more of the solidarial provides all improvement and nationation security. The performance operatorials repeated and improvement and nationation of the sevent on more care state of 164 of the approvement of the sevent of all in additionation within this covered province. Beliefor this selection of the sevent of all in additionation within the covered province. Beliefor this selection of the sevent of all in additionation of selections. Beliefor this selection of the sevent of the selection of the selecti
- <u>Variances</u>. Variances have already been granted for the development,
- <u>Ercation colitici</u>, All ercation and sedifinanta/lion control structures roust remain in place and be maintained until vegetation is usubabilished or greund surface in exhabity stabilished. Note that the "Biller linahio" en sift Rences must be briefe at least 12° below the ground surface in order to function property. Best management practices may be followed for vederating protections.
- processes inside to proceed our recenting processors.

  At balls. These parts and 14 state (milesturing all tests 22.5247) or foliads the proper place one full sizes emplay plus 1 set of 14 %.157 plus cone digital paid copy of this grant fill sold public for hardward processors. The processor of the property of the property of the processors of the proc

 Execution. The project this be blattened associate exectly as specified in the approved application package vibeas changes are approved by the City. Flainbor = Sibn Plan - Case# 216-17-R2-18

The State of New Hampshire Department of Environmental Services

Clark B. Freise, Acting Commissioner

Prepossis Residential Davidophiëm: 15 Norway Plains Road Tac-Map-\$15, Lot 17 – Rochester, NR

Dear Mr. Graham;

Based upon the plans and application, approved on January 5, 2017, we are involve travely as a RS-7x117. A foreign of Terrain Perrolt Act-1497. The percial is subject to the following conditions:

- The plans, dated October 24, 2516 (tast-evision 12/16/16) and supporting documentation. In the pennit file are a part of this approval-
- or a part of this approved.

  This present experient is a distancy of, 2022, November proving solicities while occur can the project alter bifer apparation eath solicit for persent fine benchmarked by the Organization. It is a control for the project alter bifer apparation is also solicit for persent fine benchmarked by the Organization and the project for the project for the province of the project fine of the project fine
- Arministrative, Arth Bis-Vella (1964) (1964).

  A "Yee wising Lights Trepland Jaine 1969 propriate intentioning prints or any datages in contentation desiable or acqueence. You mank motify the Department to writing within ten skap of a shange in consensity, or You when Armini the Department of printing prints the tent of principations of supplies and printing prints the tent of principations of the principation of the printing of the printing
- If applied big no netivity shall-record in certaind speak until a Westends, Permit is obtained from the Department. Sessence of this permit stors not obligate the Department to approve a Westenda Fermit for this newhor.

hellow, Willy

cc! Rochester Planning Hourd Xen Mayroguerge, Tiphe and Bond (vin amail)





Other Permis, it is the responsibility of the applicant to obtain all other local, allah, and foderal permits, formers, and approximal which miss required in this project. Contract the Cryst Problemistr's Building and Localization and Contract the Cryst Problemistr's Building and Localization and Contract the Cryst Permits. Please also contact the of Rondard Fire Designation at 15th 74th 25th and survey that proposed building motels at Fire Codes. Firely, please contact the Operation at 15th 25th 25th and are that proposed building statements of Protice Vision and Protice Codes. Firely, please contact the Operation at 15th 25th 20th work only stomments, event, or vertee premise or her building to the State State Protice Vision and State Sta

(Note: In both sections above, this members a condition-marked with a # and all conditions below this # are standard conditions on all or most applications of the Note).

Profest Name: Residential De Booston: 15 Norwey Plains Road
Engineer: Table & Bood - Kenneth Marringsonge, PB

EXPROR - Into Planta Cased 21 half with 6

Minicipality/POTW3 Rochester
Official Eigenium: Owen Prised-Gray, PB - Abistinit CRy Engineer

Date of Request: 17/3/2016

SE Tight & Bond - Kenneth Mayregover, PE

Dinis-1106 dwat 12,500 gaffondday

APPROVAL DATE MIN/2017

This approval will become woid if the sewerage construction or discharge bas morkegos within three-years of the approval-date. All sowerage construction next comply with the requirements of Chapter Exts-We 700, the Stimitards of Dissign and Construction for Sowerage and Waspewater Treatagest Pacificies.

 DES approves design plans and specifications for newer extension (728 kF 5" PVC SDR 33, 146 LP 6" PVC - SDR 33) insued by : A LANGE FOR

WATER DIVISION - WASTEWATER ENGINEERING BUREAU-DESIGN REVIEW SECTION







# **Proposed Multi-family** Development

## **Norway Plains Road** Site Plans

Tenants In Common: Robert Graham 81 Lakeview Drive Nottingham, NH 03290

Michael Anderson 2637 F Atlantic Blvd #172 Pompano Beach FL 33062-4939

Rochester, New Hampshire

_				
MARK	DATE	DESCRIPTION		
PROJECT	r no:	G-0693		
DATE: 01/13/2017				
FILE: G	0693-G-00	3.dwg		
DRAWN BY:		KAM		
CHECKE	D:	KAM		
APPROV	ED:	BLM		

PERMITS

AS SHOWN SCALE:

G-003



BUILDING ZONING & LICENSING SERVICES 3\* Walkshild Street, Regnission, New Hampshire 03897-1917 (603) 332-3978-Fay (603) 509-1012 Web Silvi www.crotensetemb.ned

gorisian. Eximitor: LLC application apposes a <u>Malargu</u>na paralles 452 apili: or merera sec each other prosts. Indicat of the reputes 1,500 model provide. This request to according to the Cry's Zoning California Chapter 42.58, section is s.

The variance and rate see extraorying the qualum minimal properties of will including the deficity from from participant of the contract of th

All Palack Tim Male - 1885-An chain for Chair Rodnesses Zonling Based or Anjestinesi

3) is the appointment of the property of th



BUILDING, ZONING & LICENSING SERVICES 31 Wakefield Street, Rochester, New Hampshire 03887-1917 (803) 332-3976 - Fax (803) 509-1912 Wab Sita: www.nochesternh.nat

2016-29 Ekimbor, LLC applicant request a <u>Yarignos</u> to the terms of Article 42.20, Section b.11.8, and asked that said terms be valved to permit a Multifamily Development within 43.6 feet of a single family residence where 100 feet is required.

CG. Air. Robert Greiner Tighe & Bond Assessing Ste

4) Color coded collars entraquired. Pitasel contact Titr Wilder at the Fine

Garmal and Subsequent Conditions

- The International Control of International Control of the International Co
- Approval. All of the documentation submitted in the application patchage by the applicant and ethy requirements imposed by other apportion are part of this opproved unboard orthorwise upported, rulvated, childred in power manner, or supersected that or in part, by the case of contidents, procreation to between documents, and most boson declarabilistic and the norder feeting with great and applications.

Location: 15 Noovey Plains Road, 0215-0017-0000, Residential 2 Zoos

The variance was <u>APPROVED</u> as requested for the following reasons:
The variance will not be contrary to the public inferent because it will not denished the value of buildings.
The variance will not be contrary to the public inferent because it will not denished in force of the public pu

Mr. Reiph Torr - Chair Rochester Zoning Board of Adjustment

PLANNING-8-DEVELOPMENT DEPARTMENT City Half - Sebond Floor - 31 Wakeffold Street Roctiester, New Hampsifire 03887-1917 (603) 335-1338 - Pax (603) 335-7585 Wab State, www.rocteeleatmohile.

November 14, 2016

Re: 2-Lot subdivision: Cases 216 ~ 17 ~ R2 = 16

This is to inform you that it's Recreater Parking Board at its November 7, 2016 meeting.

APPROVED your application referenced above. Precedent Conditions (Office use ent). Cale contact - ROCHECHOUSE

All of this proportions conditions below must be martly the applicable at the second-of this applicable, prior for the plant being certified by the Planting Department Certification of the plants is provided prior test

Page 1 of 8

AUS '0 2-2016

August 16-2016

Tighe&Bond www.tighebond.com





# **Proposed Multi-family Development**

### **Norway Plains Road** Site Plans

Tenants In Common: Robert Graham 81 Lakeview Drive Nottingham, NH

Michael Anderson 2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

Rochester, New Hampshire

MARK	DATE	DESCRIPTION
PROJECT	T NO:	G-0693
DATE: 0	1/13/2017	
FILE: G	0693-G-00	3,dwg

NHDES APPROVED SEWER SPECIFICATIONS

ERC/KAM

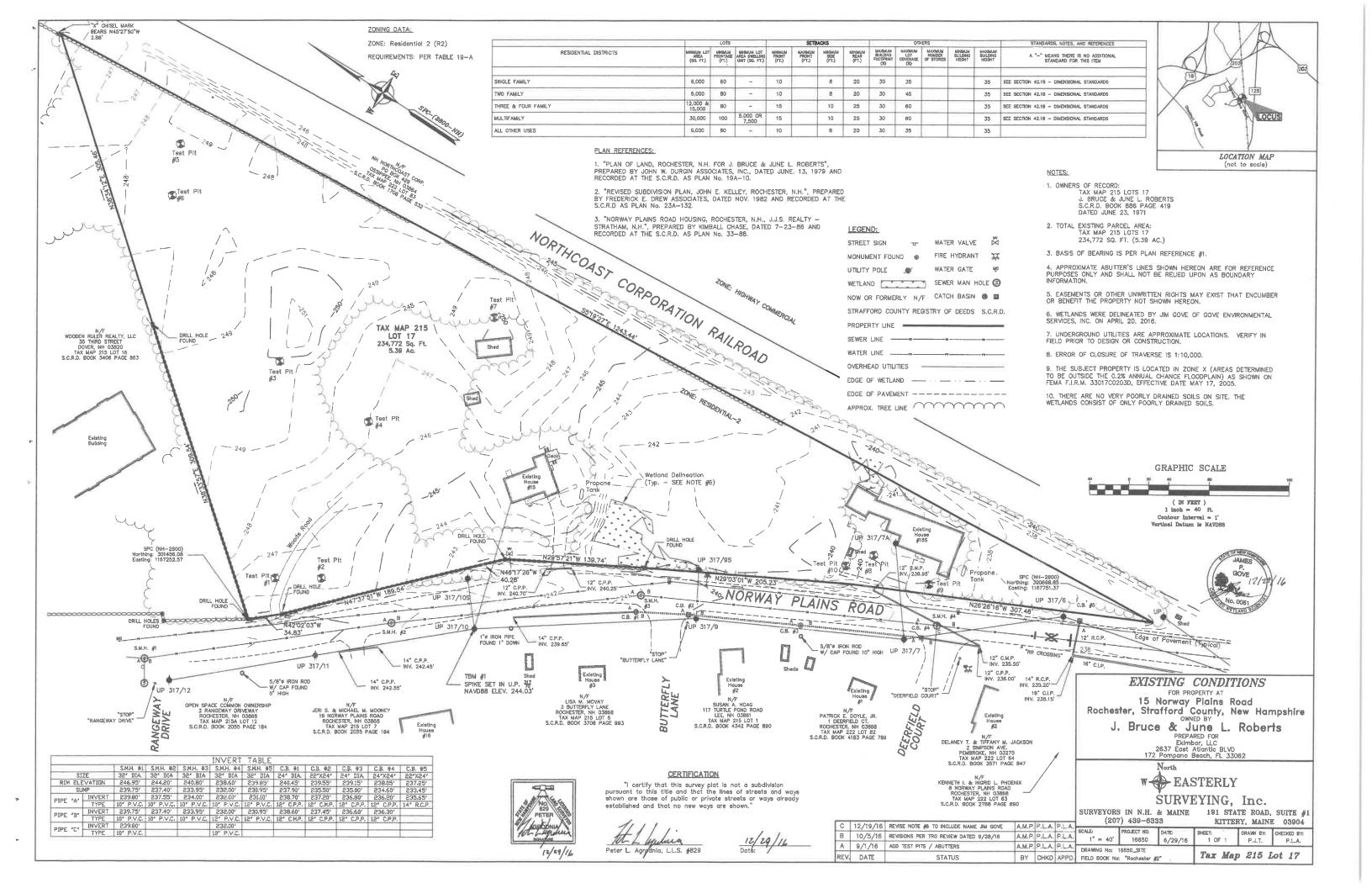
BLM

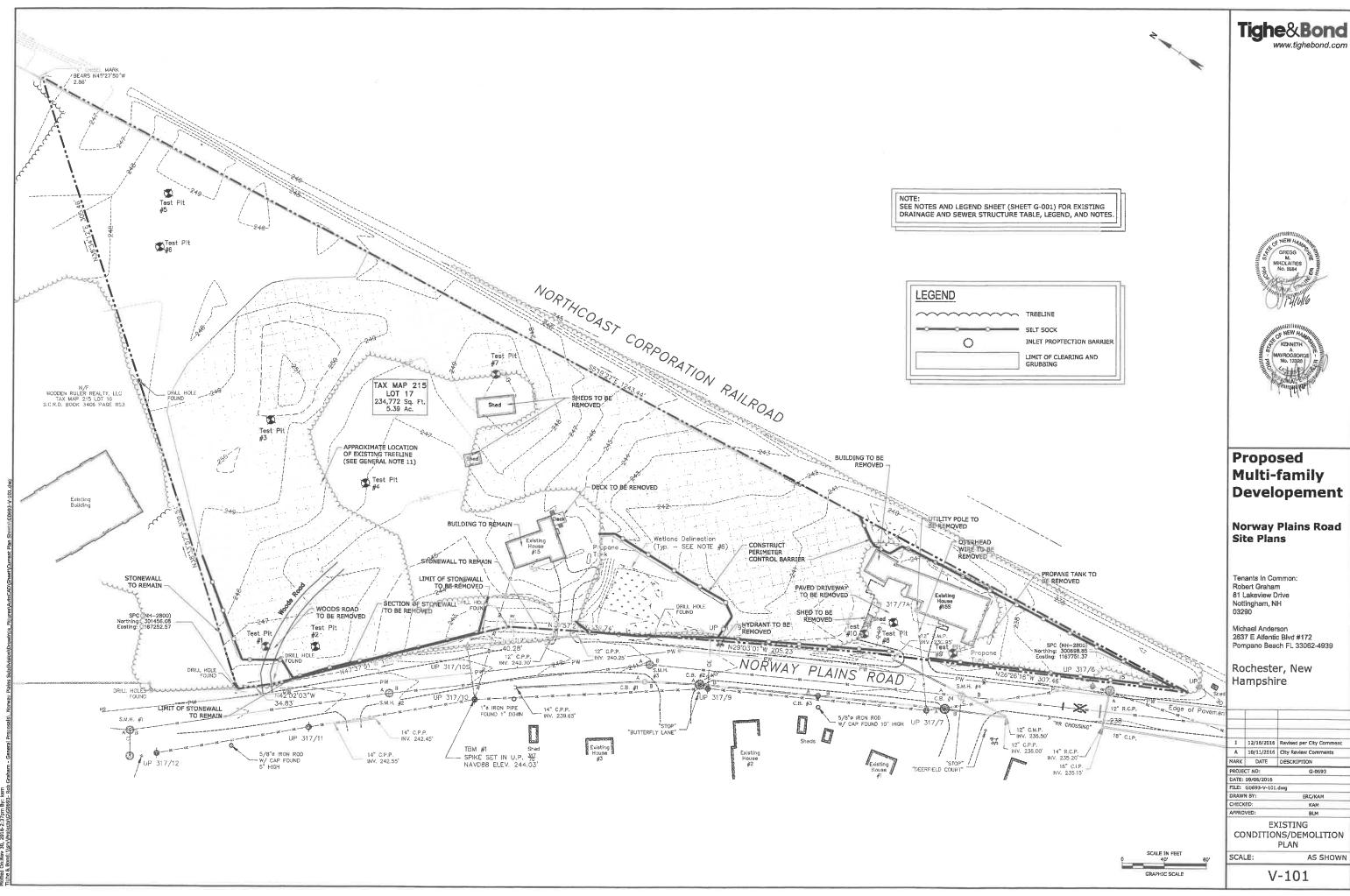
SCALE: AS SHOWN

CHECKED:

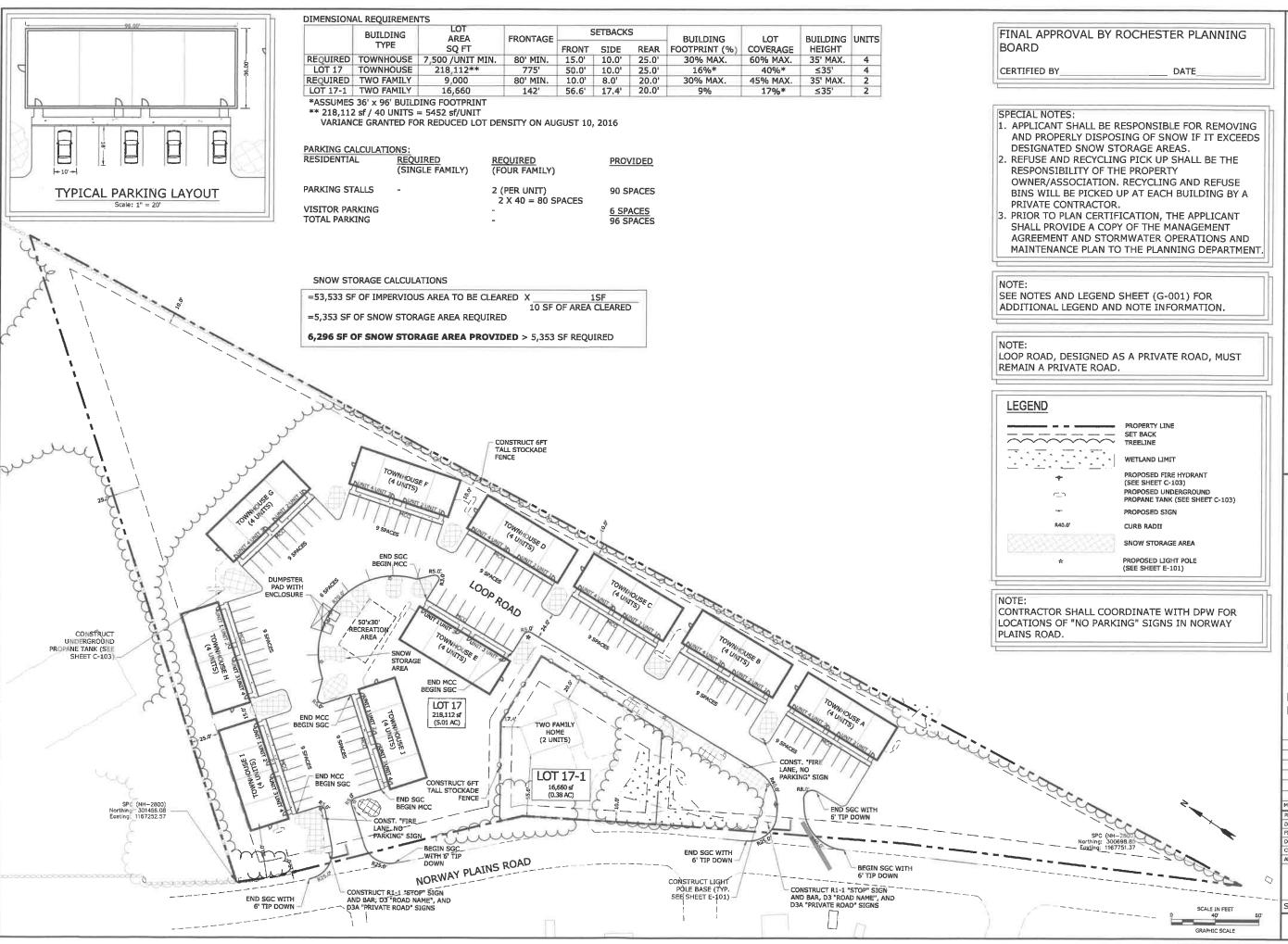
APPROVED:

G-004





_				
1	12/16/2016	Revised per City Comment		
Α	10/11/2016	City Review Comments		
MARK DATE		DESCRIPTION		
PROJE(	CT NO:	G-0693		
DATE:	09/06/2016			
FILE:	G0693-V-101	dwg		
DRAW	Y BY:	ERC/KAM		
CHECK	ED:	KAM		
APPRO	VED:	BLM		
	EV	TCTING		



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# Proposed Multi-family Development

### Norway Plains Road Site Plans

Tenants In Common: Robert Graham 81 Lakeview Drive Nottingham, NH 03290

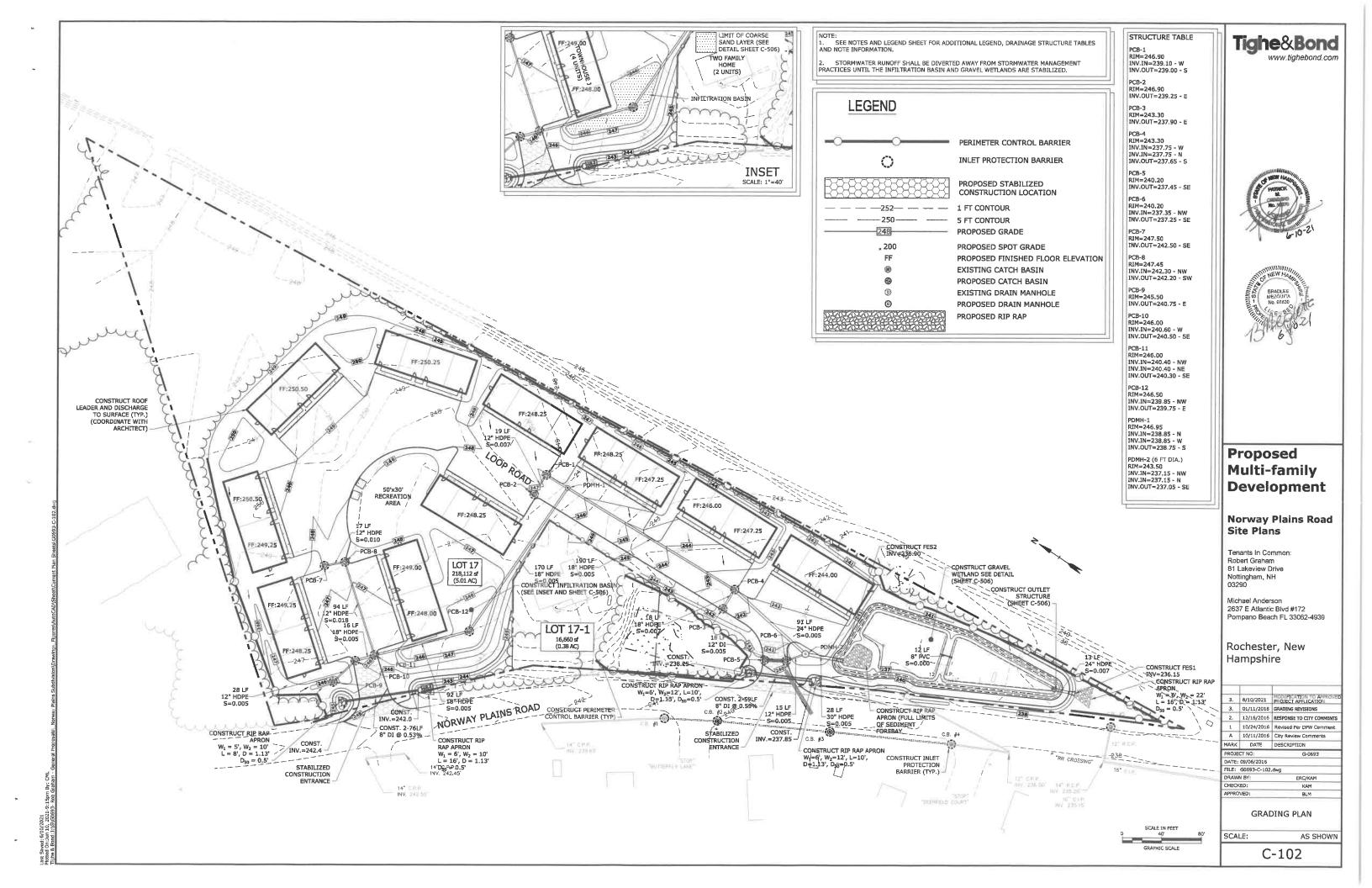
Michael Anderson 2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

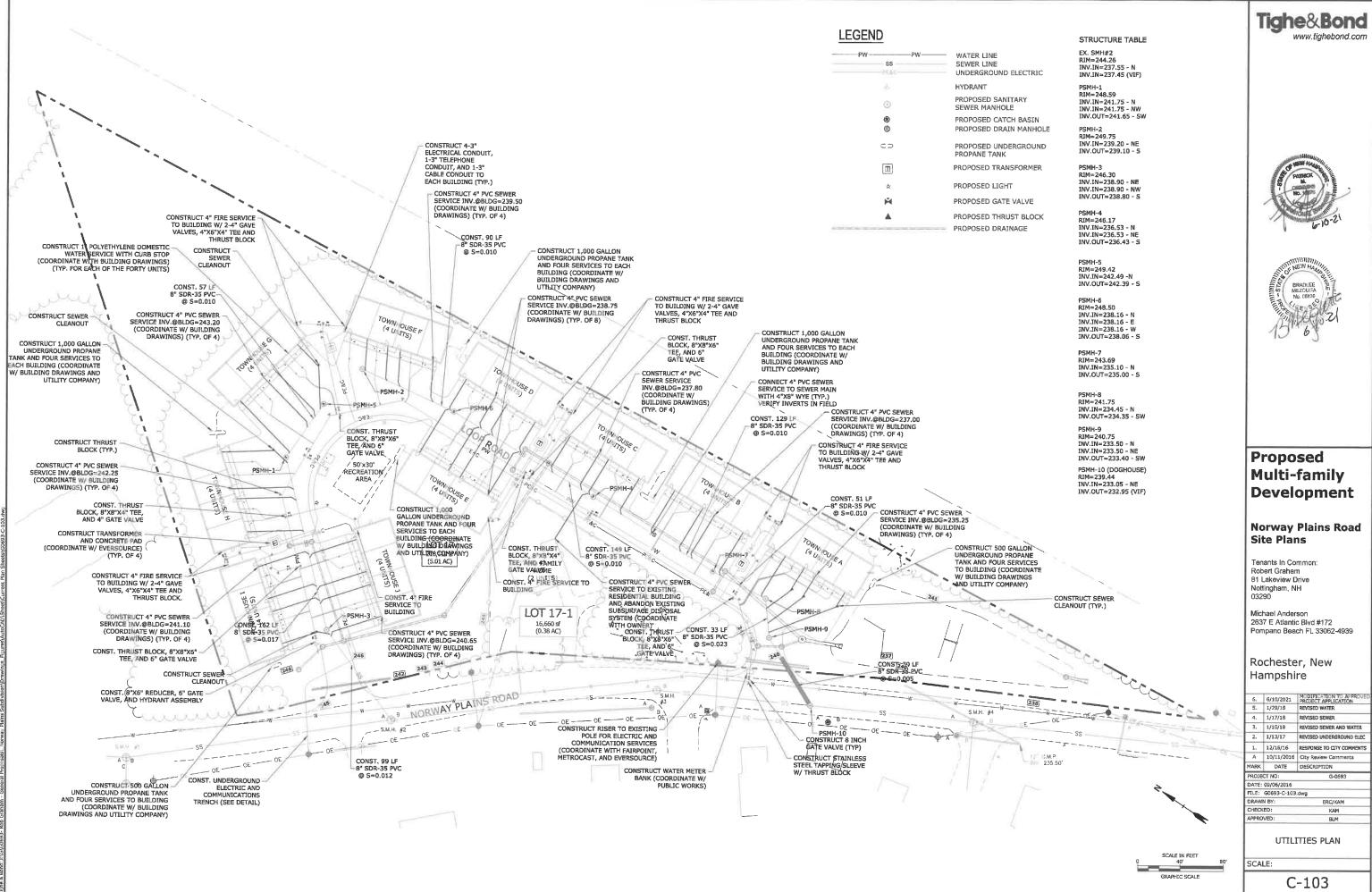
# Rochester, New Hampshire

3.	6/10/2021	MODIFICATION TO APPROVE	
2.	3/23/2018	REVISED FOOTPRINTS	
1.	12/16/2016	RESPONSE TO CITY COMMENTS	
Α	10/11/2016	City Review Comments	
ARK	DATE	DESCRIPTION	
ROJE	CT NO:	G-0693	
ATE:	09/06/2016		
ILE:	G0693-C-101	.dwg	
RAW	N BY:	ERC/KAM	
	ED:	KAM	
HECK			

SITE PLAN

SCALE: AS SHOWN





Tighe&Bond www.tighebond.com





# Proposed **Multi-family** Development

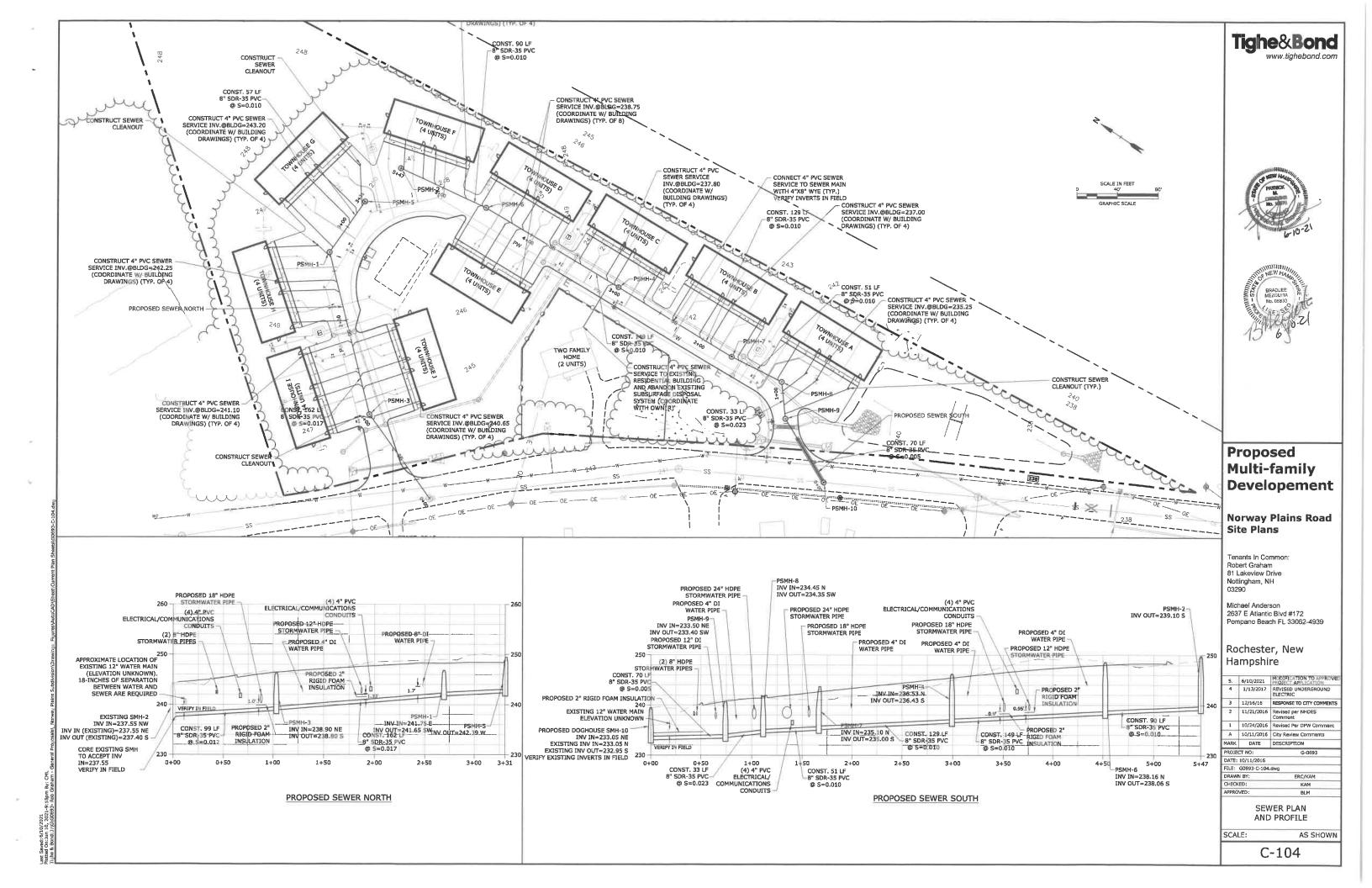
# **Norway Plains Road**

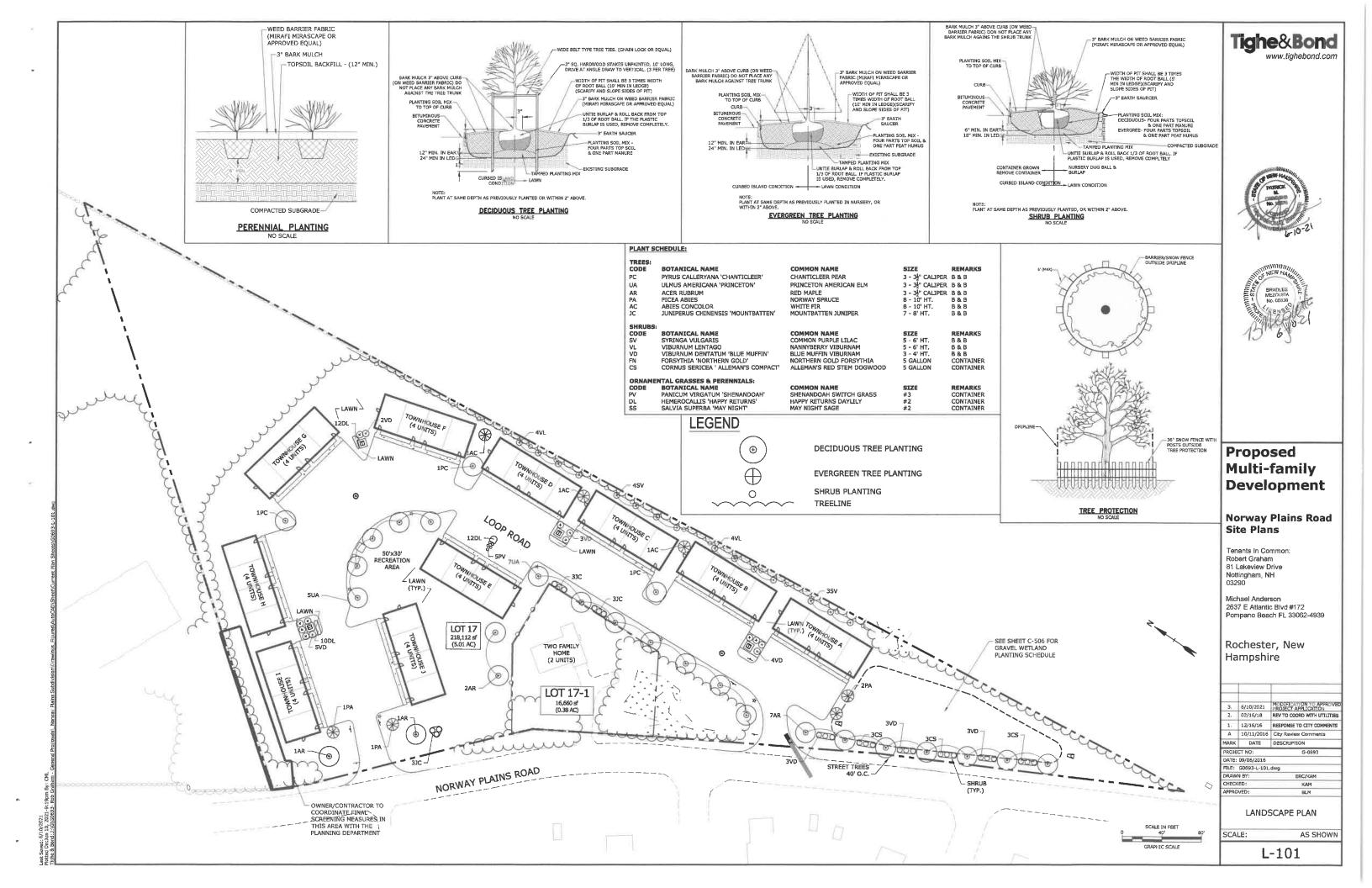
2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

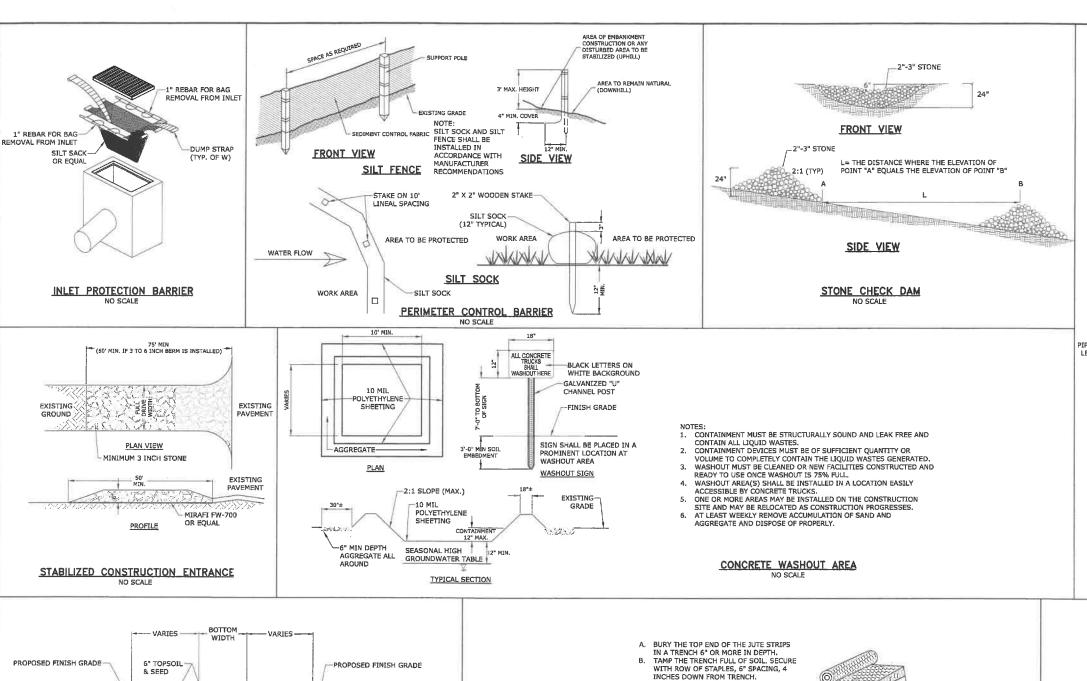
# Rochester, New

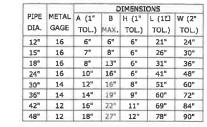
υ.	0/10/2021	PROJECT APPLICATION		
5.	1/29/18	REVISED WATER		
4.	1/17/18	REVISED SEWER		
3.	1/10/18	REVISED SEWER AND WATER		
2.	1/13/17	REVISED UNDERGROUND ELEC		
1.	12/15/16	RESPONSE TO CITY COMMENTS		
A	10/11/2016	City Review Comments		
MARK	DATE	DESCRIPTION		
PROJE	CT NO:	G-0693		
DATE:	09/06/2016			
FILE:	G0693-C-103	.dwg		
DRAW	N BY:	ERC/KAM		
CHECK	ED:	KAM		

UTILITIES PLAN



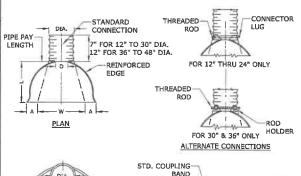


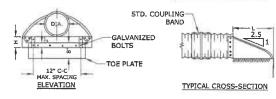




### NOTES:

- END SECTION FOR 12" TO 30" DIA. PIPE IN ONE PIECE, FOR 36" TO 48" DIA, PIPE TO BE MADE FROM TWO SHEETS JOINED BY RIVETING OR BOLTING ON CENTER LINE.
- CONNECTOR SECTION, CORNER PLATE AND TOE PLATE TO BE SAME THICKNESS AS END SECTION AND EACH TO BE GALVANIZED.





RIP-RAP

FLARED END SECTION

NOTES:

METAL FLARED END SECTION

# **Proposed Multi-family** Development

Tighe&Bond

### **Norway Plains Road Site Plans**

Tenants in Common Robert Graham 81 Lakeview Drive Nottingham, NH 03290

Michael Anderson 2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

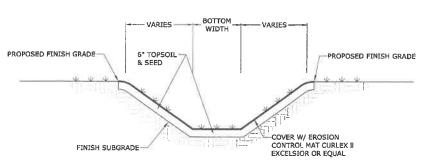
### Rochester, New Hampshire

	RIP-RAP	-				
	MIRAFI FW-700	$\vdash$				
01	TES: OR EQUAL	1	12/16/16	Revised per City Comment		
	STONE SIZE AND MAT DIMENSIONS DETAILED ON PLANS.	Α	10/11/2016	City Review Comments		
	STORE SIZE AND THAT BITISHOLDED BETALLED SHITEMIS.	MARK	DATE	DESCRIPTION		
	STONE SHALL CONSIST OF SUB-ANGULAR FIELD STONE OR ROUGH UNHEWN QUARRY STONE	PROJECT NO: G-0693				
	OF APPROXIMATELY RECTANGULAR SHAPE, FLAT OR ROUND ROCKS ARE NOT ACCEPTABLE.  THE STONE SHALL BE HARD AND OF SUCH QUALITY THAT IT WILL NOT DISINTEGRATE ON	DATE:	09/06/2016			
	EXPOSURE TO WATER OR WEATHERING, BE CHEMICALLY STABLE AND IT SHALL BE SUITABLE	FILE:	G0693-C-501.	dwg		
	IN ALL OTHER RESPECTS FOR THE PURPOSE INTENDED. THE BULK SPECIFIC GRAVITY	DRAW	N BY:	ERC/KAM		
	(SATURATED SURFACE-DRY BASIS) OF THE INDIVIDUAL STONES SHALL BE AT LEAST 2.5.	CHECK	ED:	KAM		
		APPRO	VED:	BLM		
	THE STONE SHALL BE COMPOSED OF A WELL-GRADED MIXTURE DOWN TO THE ONE-INCH SIZE PARTICLE SUCH THAT 50 PERCENT OF THE MIXTURE BY WEIGHT SHALL BE LARGER THAN					

**DETAILS SHEET** 

SCALE: AS SHOWN

C-501



THE FOUNDATION AREA OF THE WATERWAY SHALL BE CLEARED AND GRUBBED OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL.
MATERIALS REMOVED SHALL BE DISPOSED OF SO THEY WILL NOT INTERFERE WITH THE CONSTRUCTION OR PROPER FUNCTIONING OF THE WATERWAY.

. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS-SECTION AS REQUIRED TO MEET THE DESIGN CRITERIA. THE WATERWAY SHALL BE FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.

EARTH FILLS REQUIRED TO MEET SUBGRADE REQUIREMENTS BECAUSE OF OVER EXCAVATION OR TOPOGRAPHY SHALL BE COMPACTED TO THE SAME DENSITY AS THE SURROUNDING SOIL TO PREVENT UNEQUAL SETTLEMENT THAT COULD CAUSE DAMAGE TO THE COMPLETED WATERWAY. EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO IT WILL NOT INTERFERE WITH THE PUNCTIONING OF THE WATERWAY.

CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE EROSION AND AIR AND WATER POLLUTION. ALL APPROPRIATE STATE AND LOCAL LAWS AND REGULATIONS SHALL BE COMPLIED WITH FOR INSTALLATION,

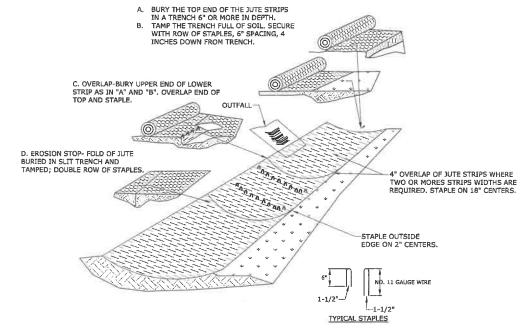
VEGETATION SHALL BE ESTABLISHED IN THE SWALE PRIOR TO ALLOWING STORMWATER RUNOFF TO FLOW THROUGH THE SWALE.

MAINTENANCE OF THE VEGETATION IN THE GRASSED WATERWAY IS EXTREMELY IMPORTANT IN ORDER TO PREVENT RILLING, EROSION, AND FAILURE OF THE WATERWAY. MOWING SHOULD BE DONE PREQUENTLY ENDUGH TO CONTROL ENCROACHMENT OF WEEDS AND WOODDY VEGETATION AND TO KEEP THE GRASSES IN VIGOROUS CONDITION. THE VEGETATION SHOULD NOT BE MOWED TOO CLOSELY SO AS TO REDUCE THE EROSION RESISTANCE IN THE WATERWAY.

THE WATERWAY SHOULD BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE THE CONDITION OF THE WATERWAY. RILLS AND DAMAGED AREAS SHOULD BE PROMPTLY REPAIRED AND REVEGETATED AS NECESSARY TO PREVENT FURTHER DETERIORATION.

PERIODIC APPLICATIONS OF LIME AND FERTILIZER MAY BE NEEDED TO MAINTAIN VIGOROUS GROWTH.

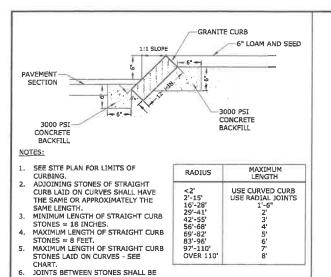
GRASS LINED CHANNEL NO SCALE



JUTE MATTING DETAIL

RIP-RAP APRON DETAIL

THE DSO SIZE SPECIFIED. A WELL-GRADED MIXTURE IS DEFINED AS A MIXTURE COMPOSED PRIMARILY OF THE LARGER STONE SIZE BUT WITH A SUFFICIENT MIXTURE OF OTHER SIZES TO FILL THE PROGRESSIVELY SMALLER VOIDS BETWEEN THE STONES. THE DIAMETER OF THI LARGEST STONE SIZE IN SUCH A MIXTURE SHALL BE 1.5 TIMES THE D50 SIZE.



SIGN ID NUMBER	SIGN SIZE WIDTH x HEIGHT	SIGN	TEXT DIMENSIONS	NO. OF SIGNS		LEGEND	BORDER	POST SIZE & QUANTITY	UNIT AREA	AREA (SQ. FT.)
R1-1	30" x 30"	STOP	SEE STANDARD HIGHWAY SIGNS 2004 EDITION(W/2012 SUPPLEMENT) PUBLISHED BY USDOT - FHWA		RED	WHITE	WHITE	U-CHANNEL	6.25	12.5
D3	36" x 9"	LOOP ROAD		2	GREEN	WHITE	WHITE	U-CHANNEL	2,25	4.50
D3A	30" x 9"	PRIVATE ROAD		2	WHITE	BLACK	WHITE	U-CHANNEL	1.75	3.50
R7-1	12" × 18"	NO PARKING FIRE LANE		4	WHITE	RED	wнıте	U-CHANNEL	1.50	6.00

SECTION A-A \* IN LEDGE DRILL & GROUT TO A MIN OF 2' TYPICAL METAL SIGN POST NO SCALE

SEE PAVEMENT DETAIL

DETAIL

2" MIN. CLOSED CELL PIPE INSULATION WHERE CALLED

BASE-

SUBBASE

FOR ON PLANS

-- SPRING LINE

& SEED

TRACER TAPE

COMPACTED-

COMMON FILL

BACKFILL MATERIAL-

BEDDING MATERIAL

UNDISTURBED

ABOVE TOP OF PIPE.

SOIL

CENTERED



Tighe&Bond



# **Proposed Multi-family** Development

### **Norway Plains Road** Site Plans

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Michael Anderson 2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

### Rochester, New Hampshire

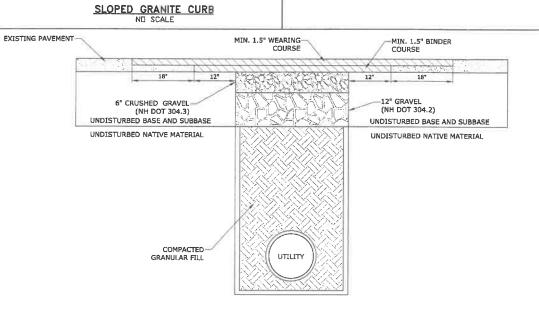
1	12/16/16	Revised per City Comment					
А	10/11/2016	City Review Comments					
MARK	DATE	DESCRIPTION					
PROJE	CT NO:	G-0693					
DATE:	09/06/2015						
FILE:	G0693-C-502	.dwg					
DRAW	N BY;	ERC/KAM					
CHECK	ED:	КАМ					
APPRO	VED:	BLM					

**DETAILS SHEET** 

SCALE: AS SHOWN

C-502

SIGN LEGEND NO SCALE



PAVEMENT EDGES SHALL BE DEFINED BY A STRAIGHT EDGE FORMED BY A MACHINED SAW CUT.

TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH GRANULAR FILL ANDD COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY.

TOP 18" OF BACKFILL SHALL BE 5" IF COMPACTED 3/4" CRUSHED GRAVEL (NHDOT 304.3) SUPPORTED BY 12" OF COMPACTED GRAVEL (NHDOT 304.2), ALL VERTICAL AND HORIZONTAL JOINTS BETWEEN PAVEMENTS SHALL BE TACK COATED.
PAVEMENT THICKNESS SHALL MATCH EXISTING BUT IN NO CASE SHALL BE LESS THAN 3" THICK TOTAL.

PAVEMENT SHALL BE PLACED IN TWO PHASES:

VEMENT SHALL BE PLACED IN 1 WO PHASES:

THE FIRST PHASE SHALL CONSIST OF CUTTING BACK THE FULL DEPTH OF PAVEMENT 12" BEYOND THE EDGES OF THE DISTURBED TRENCH AND PAVING A
BINDER COURSE THE FULL DEPTH OF THE PAVEMENT AS TO BRING THE PATCH FULSH WITH THE EXISTING ROAD SURFACE.

THE SECOND PHASE SHALL BE CONDUCTED THE FOLLOWING YEAR AND SHALL CONSIST OF MILLING OVER THE EGGES OF THE PREVIOUS PATCH BY A MINIMUM
OF 18" IN ALL DIRECTIONS TO A DEPTH OF 1.5". WEARING COURSE PAVEMENT SHALL BE USED TO CREATE A SMOOTH SURFACE WITH THE ROADWAY OVER THE

TEXTENTS OF THE MILLED AREA.

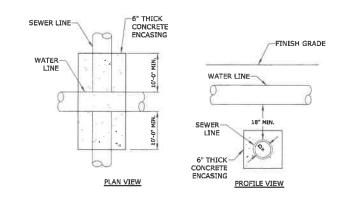
Y TRENCH PATCH REQUIRES PRE-APPROVAL BY DPW AND IS SUBJECTED TO INSPECTION TO ENSURE COMPLIANCE WITH CITY STANDARDS.

# ROCHESETER. NH UTILITY TRENCH PATCH

-6" LOAM & SEED VARIES NHDOT SECTION #401 HOT BITUMINOUS CONCRETE 3" NOMINAL 1.5" OF 3" SUPERPAVE WEARING COURSE 1.5" OF 3" SUPERPAVE BINDER COURSE SEE GRADING PLAN FOR SLOPE LIMITS 6" CRUSHED GRAVEL BASE NHDOT ITEM #304.3 SEE GRADING (SLOPE TO MATCH PAVEMENT SLOPE) SEE CURB DETAIL AND PLAN FOR SLOPE LIMITS SITE PLAN FOR LOCATIONS NHDOT ITEM #304.2 (SLOPE TO MATCH PAVEMENT SLOPE) COMPACTED COMPACTED COMMON FILE SUBGRADE NOTE: SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION,
 SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PAVEMENT SLOPE AND CROSS-SLOPE.
 A TACK COAT SHALL BE PLACED ON TOP OF BINDER COURSE PAVEMENT PRIOR TO PLACING WEARING COURSE.

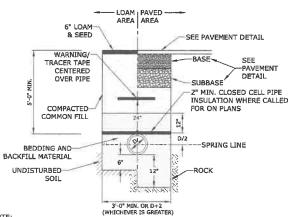
4. CONTRACTOR SHALL HAVE THE OPTION OF RECLAIMING THE EXISTING PAVEMENT AND REMOVING TH MATERIAL, THEN REUSING THE RECLAIMED MATERIAL AS A PAVEMENT SUBBASE.

STANDARD DUTY PAVEMENT SECTION



NOTE: A 10 FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18" MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER AND SANITARY SEWER CROSSINGS, WHERE SEWER AND WATER CROSS, ENCASE SEWER IN CONCRETE 6" THICK OR SUBSTITUTE RUBBER GASKETED PRESSURE PIPE WITH JOINTS FOR A MINIMUM DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING. CROSSING SHALL CONFORM TO CITY OF ROCHESTER WATER DEPARTMENT STANDARDS AND SPECIFICATIONS.

# WATER & SEWER CROSSING



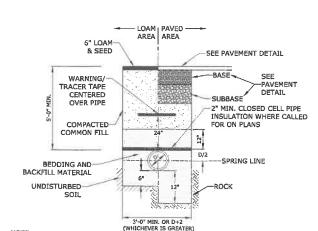
NOTE: (WHICHEVER IS GREATER)

1. SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO 12" ABOVE TOP OF PIPE.

2. ALL UTILITIES SHALL BE INSTALLED PER THE INDIVIDUAL UTILITY COMPANY

STANDARDS. COORDINATE ALL INSTALLATIONS WITH INDIVIDUAL UTILITY COMPANIES AND THE CITY OF ROCHESTER.

WATER TRENCH



NOTE:
1. CRUSHED STONE BEDDING FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE

IN EARTH AND 12" BELOW PIPE IN ROCK UP TO SPRING LINE.

SAND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM SPRING LINE UP TO 12"

ADDUCTOR OF PIPE.

ALL UTILITIES SHALL BE INSTALLED PER THE INDIVIDUAL UTILITY COMPANY STANDARDS, COORDINATE ALL INSTALLATIONS WITH INDIVIDUAL UTILITY COMPANIES AND THE CITY OF ROCHESTER.

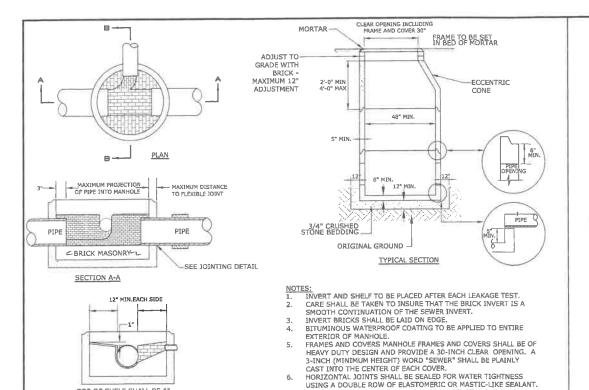
SEWER TRENCH NO SCALE

NOTE:

1. SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO 12" ABOVE TOP OF PIPE.

2. ALL JTILITIES SHALL BE INSTALLED PER THE INDIVIDUAL UTILITY COMPANY STANDARDS. COORDINATE ALL INSTALLATIONS WITH INDIVIDUAL UTILITY COMPANIES AND THE CITY OF ROCHESTER.

**GAS TRENCH** 



ABOVE CROWN OF HIGHEST PIPE SECTION B-B

SEWER MANHOLE

HYDRANT-4 FT BOLT MOUNTED FIBERGLASS HYDRANT MARKER -VALVE BOX THRUST BLOCK (SEE DETAIL) WATER MAIN 12" CRUSHED STONE 6" MIN. 6" M3 GATE VALVE-CRUSHED STONE-18"x18"x6" CONCRETE BASE (SEE DETAIL) DRAIN PIT - 3' DIA. x 2'-TO BE PLUGGED

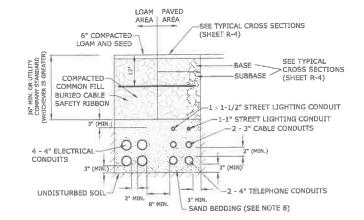
- HYDRANT INSTALLATION AND OPERATION, MANUFACTURE AND MODEL, AND STANDARD DIMENSIONAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF ROCHESTER WATER DEPARTMENT AND THE CITY OF ROCHESTER FIRE DEPARTMENT. HYDRANT MARKER TO BE 3/8" FIBERGLASS RODS BY E-ZGUIDE PRODUCTS OR
- APPROVED FOUAL
- APPROVED EQUAL.

  COLOR CODED COLLARS ARE REQUIRED ON ALL PROPOSED HYDRANTS.

  COLOR CODED COLLARS SHALL BE 4.5" NST REFLECTIVE 11" OD X 5-3/4" ID4.

  TESTING OF ALL HYDRANTS SHALL BE COORDINATED WITH THE CITY OF ROCHESTER FIRE DEPARTMENT AND DPW, AND BE PERFORMED PRIOR TO INSTALLING COLOR CODED COLLARS.

FIRE HYDRANT



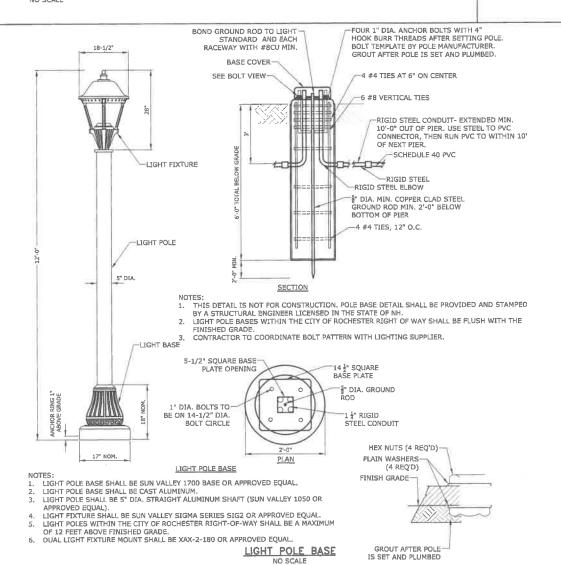
- NOTE:

  1. NUMBER, MATERIAL, AND SIZE OF UTILITY CONDUITS TO BE DETERMINED BY LOCAL UTILITY OR AS SHOWN ON RELECTRICAL DRAWINGS. CONTRACTOR TO PROVIDE ONE SPARE CONDUIT FOR EACH UTILITY TO BUILDING.
  DIMENSIONS SHOWN REPRESENT OWNERS MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS MAY BE GREATER
  BASED ON UTILITY COMPANY STANDARDS, BUT SHALL NOT BE LESS THAN THOSE SHOWN.
- NO CONDUIT RUN SHALL EXCEED 360 DEGREES IN TOTAL BENDS.
  A SUITABLE PULLING STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE UTILITY COMPANY IS NOTIFIED TO INSTALL CABLE. THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER
- THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT.

  UTILITY COMPANY MUST BE GIVEN THE OPPORTUNITY TO INSPECT THE CONDUIT PRIOR TO BACKFILL, THE

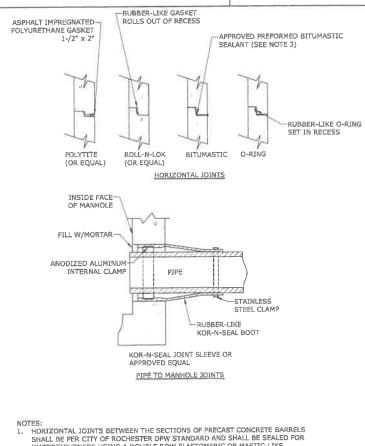
  CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS SHOULD THE UTILITY COMPANY BE UNABLE TO INSTALL ITS CABLE IN A SUTTABLE MANNER.
- CABLE IN A SUITABLE MANNER.
  ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY
  CODE, STATE AND LOCAL CODES AND ORDINANCES, AND, WHERE APPLICABLE, THE NATIONAL ELECTRIC CODE.
  ALL 90° SWEEPS WILL BE MADE USING RIGID GALVANIZED STEEL. SWEEPS WITH A 36 TO 48 INCH RADIUS.
- SAND BEDDING TO BE REPLACED WITH CONCRETE ENCASEMENT WHERE COVER IS LESS THAN 3 FEET, WHEN LOCATED BELOW PAVEMENT, OR WHERE SHOWN ON THE UTILITIES PLAN.

# UNDERGROUND ELECTRICAL AND COMUNICATION UTILITY TRENCH



BARREL AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE DESIGNED FOR H20 LOADING, AND CONFORMING TO ASTM C478-06.

BASE SECTION OF MANHOLE SHALL BE OF MONOLITHIC CONSTRUCTION TO A POINT AT LEAST 6" ABOVE THE CROWN OF THE HIGHEST INCOMING PIPE. THIS REQUIREMENT SHOULD BE STATED IN THE SPECS AND/OR PLANS.

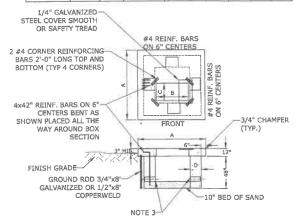


- WATERTIGHTNESS USING A DOUBLE ROW ELASTOMERIC OR MASTIC-LIKE GASKET.
- PIPE TO MANHOLE JOINTS SHALL BE PER CITY OF ROCHESTER STANDARD.
- FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CAVITY.

  ALL GASKETS, SEALANTS, MORTAR, ETC. SHALL BE INSTALLED IN ACCORDANCE
- WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.

SEWER MANHOLE JOINTS

KVA	KV	A	В	С	D	STEEL COVER
750 - 2500	15	9'-0"	5'-8"	1'-6"	12"	24"x24"x1/4"
150 - 2500	35	9'-0"	5'-8"	1'-6"	12"	24"x24"x1/4"
75 - 500	15	7'-0"	4'-0"	1'-6"	8"	16"x24"x1/4"
75 - 150	35	7'-0"	4'-0"	1'-6"	8"	16"x24"x1/4"



- SET CONCRETE BOX PAD ON SUITABLE GRAVEL BASE AND PROVIDE ADEQUATE DRAINAGE AWAY FROM PAD. REINFORCE ASS SHOWN. LOCATION TO BE ACCESSIBLE BY TRUCK AND SUITABLY PROTECTED
- FROM PLOW AND TRAFFIC DAMAGE.
  "FRONT" DENOTES THE SIDE ON WHICH THE ACCESS DOORS ARE
  LOCATED. THE PAD MUST BE INSTALLED SO THAT THE FRONT IS READILY ACCESSIBLE.
- READILY ACCESSIBLE.

  PROVIDE 8" x 12" CABLE HOLES- ONE PER WALL OR MORE IF NEEDED.
  LINE UP WITH TRENCHES. HOLES MAY EXTEND TO BOTTOM OF WALLS.

  PROVIDE REMOVABLE STEEL COVER, SET FLUSH WITH TOP OF

- CONCRETE- WITH MINIMUM OF 2" BEARING ON READ EDGE AND ENDS.
  INSTALL GROUND ROD 6" IN FRONT OR LEFT FRONT CORNER OF PAD.
  TOP OF GROUND ROD TO BE 6" BELOW FINAL GRADE.
- COORDINATE AND VERIEY ALL INFORMATION WITH THE LOCAL LECTRICAL POWER UTILITY COMPANY.

PRECEAST CONCRETE TRANSFORMER PAD



Tighe & Bond



# Proposed **Multi-family** Development

### **Norway Plains Road Site Plans**

Tenants In Common: Robert Graham 81 Lakeview Drive Nottingham, NH 03290

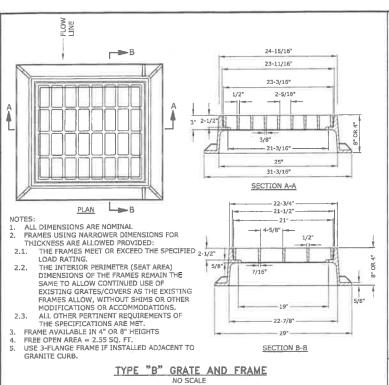
Michael Anderson 2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

# Rochester, New Hampshire

2.	12/16/16	Revised per City Comment					
1.	11/21/16	Revised per NHDES Commer					
A	10/11/2016	City Review Comments					
MARK	DATE	DESCRIPTION					
PROJE	CT NO:	G-0693					
DATE:	09/06/2016						
FILE:	G0693-C-503	.dwg					
DRAW	N BY:	ERC/KAM					
CHECK	ED:	KAM					
40000	AUCD.	DI N					

SCALE: AS SHOWN

**DETAILS SHEET** 



--- LOAM | PAVED ---AREA AREA

NOTE:

1. CRUSHED STONE BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO 6" ABOVE TOP OF PIPE. ALL UTILITIES SHALL BE INSTALLED PER THE INDIVIDUAL UTILITY COMPANY STANDARDS. COORDINATE ALL INSTALLATIONS WITH INDIVIDUAL UTILITY

STORM DRAIN TRENCH

NO SCALE

& SEED

WARNING TRACER TAPE

CENTERED

OVER PIPE

COMPACTED-

COMPANIES AND THE CITY OF ROCHESTER.

DRAIN

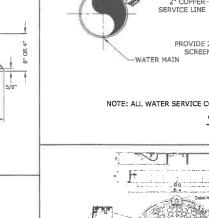
PLAN

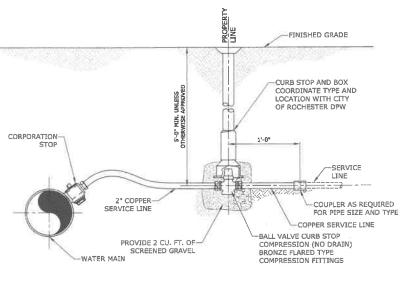
COMMON FILL

BEDDING AND

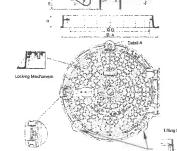
UNDISTURBED-

DIAMOND TOP NON-SKID SURFACE





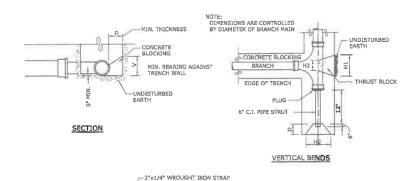
NOTE: ALL WATER SERVICE CONNECTIONS SHALL CONFORM TO CITY OF ROCHESTER STANDARDS. WATER SERVICE CONNECTION

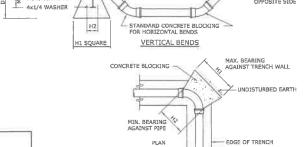


Model	A. Inches	E inches	H inches	O inchas	Reference	Total Weight ibs	Cover Weight
Non-ventilated	40	4%	5	32	CDPA80EH	269	162

NOTE:
PAMREX FRAME AND COVER SHALL BE USED WITHIN THE
CITY OF ROCHESTER RIGHT—OF—WAY ONLY.

PAMREX 32-INCH MANHOLE FRAME & COVER





NOTES:
1. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL, WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTENS THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE. ON BENDS AND TEES, EXTEND THRUST BLOCKS FUL

- LENGTH OF FITTING.
  PLACE BOARD IN FRONT OF ALL PLUGS BEFORE
- POURING THRUST BLOCKS.
  WHERE M.J. PIPE IS USED, M.J., PLUG WITH RETAINER
  GLAND MAY SE SUBSTITUTED FOR RND BLOCKINGS.
  INSTALLATION AND STANDARD DIMENSIONAL
  REQUIREMENTS SHALL BE PER CITY WATER
  DEPARTMENT STANDARDS,

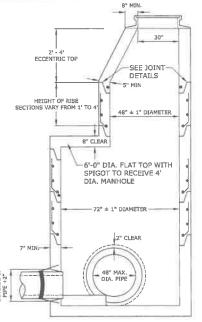
CONCRETE	THRUST	BLOCKING
	NO SCALE	

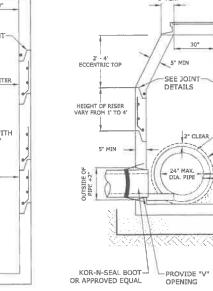
HORIZONTAL BENDS

PIPE			, CRO				91	o BE	NOS			4	5º BEI	VDS			22 1	/2° B	ENDS			11	1/4°	BENDS	5
(H)	H1	H2	V	_	CU. FT.	H1	H2	٧	D	CU. FT.	H1	H2	٧	D	CU. FT.	н1	Н2	ν	D	CU. FT.	H1	HZ	V	D	CU. F
6"Ø	248	16"	18"	18"	3.50	30"	16"	18"	18"	4.05	24°	10"	16"	18"	3.20	24"	10"	16"	18"	3.20	24"	10"	16*	18"	3.2
8"Ø	36°	18"	18"	18"	5.05	39"	18"	24"	18"	7.30	30"	21"	18"	18"	3.95	24"	11"	18"	18°	3.45	24"	111	16"	18"	3,4
12"Ø	54"	30°	24"	24°	13.4	54"	32"	36°	24"	18.15	42*	18"	24"	24"	9.60	24"	18"	24"	24"	6.60	24 <sup>st</sup>	18"	21"	24"	6.1

	COR	E HOLE SIZE			
PIPE SIZ		ICP IOLE DIA.	PLASTIC CORE HOLE DIA.		
INCHES	INCHES	FEET	INCHES	FEET	
6			7	0.6	
12	18	1.5	18	1.5	
15	22	1.8	20	1.7	
18	26	2.2	24	2.0	
24	34	2,8	32	2.7	
30	42	3.5	42	3.5	
36	48	4.0	48	4.0	
42	54	4.5	54	4.5	
48	64	5.3	64	5.3	
54	72	6.0			
60	78	6.5			

DIAMETER	WALL THICKNESS (MIN.)	FLOOR THICKNESS (MIN.)
4'	5"	6"
5'	6"	8"
6'	7"	8"
8'	g <sub>s</sub>	10"
		R <sup>N</sup> MTN





4' DIAMETER DRAIN MANHOLE

	Site Plans
MANHOLE FRAME AND COVER	Tenants In Common: Robert Graham 81 Lakeview Drive Nottingham, NH 03290

ADJUST TO GRADE WITH CONCRETE

GRADE RINGS OR CLAY BRICKS. FRAME TO BE SET IN FULL BED OF

MORTAR. (2 COURSES MAX).

MORTAR ALL JOINTS

VERTICAL FOOT, PLACED

ACCORDING TO AASHTO

PRECAST IN RISER SECTION #3 BAR AROUND OPENING

FOR PIPES 18" DIAMETER

STRUCTURE TO BE

STONE BEDDING

CONCRETE CLASS "B"

AND OVER, 1" COVER

Michael Anderson 2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

**Proposed** 

**Multi-family** 

Development

**Norway Plains Road** 

Tighe&Bond

www.tighebond.com

### Rochester, New Hampshire

_		
-		
	12/16/16	Revised per City Comment
A	10/11/2016	City Review Comments
RK	DATE	DESCRIPTION
OJE	CT NO:	G-0693
TE:	09/06/2016	
.E:	G0693-C-504.	dwg
AWI	N BY:	ERC/KAM
IECK	ED:	KAM
200	VED:	BLM

**DETAILS SHEET** AS SHOWN

C-504

CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL. CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR FOOT. THE STRUCTURES SHALL BE DESIGNED FOR H20 LOADING. CONSTRUCT CRUSHED STONE BEDDING AND BACKFILL UNDER (6" MINIMUM THICKNESS)
THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH

ONE STRIP OF BUTYL RUBBER SEALANT.
PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD
VERIFIED PRIOR TO PRECASTING.
OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE.
PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE
JOINT 4" HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.

10. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A

MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZNTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS.

1. ALL SECTIONS SHALL BE 4,000 PSI CONCRETE.

THE TONGUE AND THE GROOVE OF THE JOINT SHALL

# (3) STACKING

SECTION A-A

-SEE PAVEMENT DÉTAIL

-SURBASE

-PAVEMENT

DETAIL

-2" MIN. CLOSED CELL PIPE INSULATION WHERE CALLED

ALL DIMENSIONS ARE NOMINAL. FRAMES USING NARROWER DIMENSIONS FOR THICKNESS ARE ALLOWED PROVIDED:

2.A. THE FRAMES MEET OR EXCEED THE SPECIFIED LOAD

RATING.
THE INTERIOR PERIMETER (SEAT AREA) DIMENSIONS OF THE FRAMES REMAIN THE SAME TO ALLOW CONTINUED. USE OF EXISTING GRATES/COVERS AS THE EXISTING FRAMES ALLOW, WITHOUT SHIMS OR OTHER MODIFICATIONS OR ACCOMMODATIONS.

.C. ALL OTHER PERTINENT REQUIREMENTS OF THE SPECIFICATIONS ARE MET.

LABEL TYPE OF MANHOLE WITH 3" HIGH LETTERS IN HE

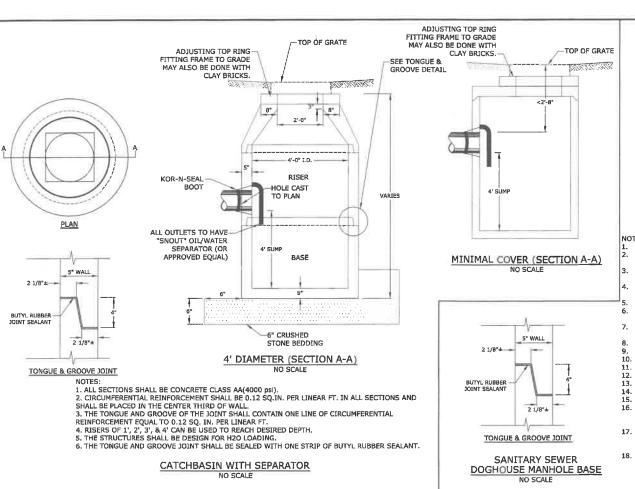
CENTER OF THE COVER.

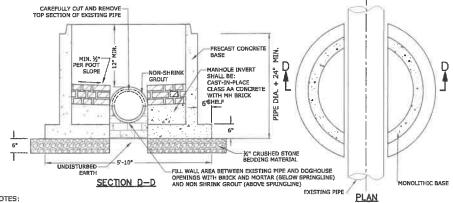
SEE NHDOT DETAIL DR-2 "Grate and Frame, M.H.Cover and Pavement Depression Details" FOR MORE DETAILS

DRAIN MANHOLE COVER AND FRAME

1 30

6' DIAMETER DRAIN MANHOLE





MINIMUM 4' DIAMETER MANHOLE

18R 24R 30R 54R 72F 72F 96F 96F 96F

DOGHOUSE OPENING MAY ONLY BE USED WHEN PLACING A NEW MANHOLE OVER AN EXISTING LINE; OTHERWISE, THE OPENING MUST BE CAST. SIZE, LOCATION AND ANGLE OF ENTRY SHOULD BE AS REQUIRED BY THE PLANS.

OPENINGS IN PRECAST UNITS ARE TO BE 4" MINIMUM TO 8" MAXIMUM LARGER THAN THE OUTSIDE DIAMETER OF THE EXISTING

TOP HALF OF THE EXISTING PIPE TO BE REMOVED FOR FULL LENGTH EXPOSED INSIDE MANHOLE. EXISTING MAIN TO BE NEATLY

CUT ALONG THE SPRING LINE OF THE PIPE.
SEE SANITARY MANHOLE DETAIL FOR ADDITIONAL INFORMATION.

MANHOLE BASE SECTION SHOWN, ALL OTHER SECTIONS AND CONSTRUCTION DETAILS SHALL COMPLY WITH THE SEWER MANHOLE DETAIL.

BARREL AND SLAB SECTIONS SHALL BE PRECAST REINFORCED CONCRETE DESIGNED FOR H20 LOADING, AND CONFORMING TO

BARREL AND SLAB SECTIONS SHALL BE PRECAST REINFORCED CONCRETE DESIGNED FOR H20 LOADING, AND CONFORMING TO ASTM C478-06 & AASHTO M-199.

CIRCUMFERENTIAL REINFORCEMENT SHALL CONFORM TO ASTM A-185.

BOTTOM REINFORCEMENT SHALL CONFORM TO ASTM A-615 GRADE 60 AND PLACED PER ASTM C-478.

INVERT AND SHELF TO BE PLACED AFTER EACH VACUUM TESTING OF THE MANHOLE.

CARE SHALL BE TAKEN TO ENSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT.

INVERT BRICKS SHALL BE LAID ON EDGE.

BITUMINOUS WATERPROOF COATING TO BE APPLIED TO ENTIRE EXTERIOR OF MANHOLE.

CONTRACTOR TO VERLEY NUMBER AND LOCATION OF OPENINGS WITH UTILITIES PLAN.

THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTTY. RUBBER SEALANT

THE OPENINGS BETWEEN THE PRECAST BASE SECTION AND EXISTING FLOW THROUGH SEWER PIPE PENETRATIONS SHALL BE

FILLED WITH NON-SHRINK GROUT. PROVIDE BRICK AND MORTAR BELOW THE PIPE PENETRATION, AND PARGE EXTERIOR OF

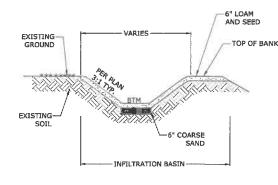
THE BRICK WITH MORTAR AND WATERPROOP WITH BITUMINOUS DAMP-PROOFING COATING.

THE INVERT AND SHELF OF ANY NEW CHANNELS SHALL BE CONSTRUCTED ENTIRELY OF BRICK AND MORTAR. THE BRICK SHELF

SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST FIPE CROWN AND SLOPED TO DRAIN TOWARD THE FLOW

SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPED TO DRAIN TOWARD THE FLOW THROUGH CHANNEL

THE DESIGN INTENT IS TO LEAVE THE NATIVE MATERIAL BENEATH THE EXISTING SEWER PIPE UNDISTURBED. IF THE NATIVE MATERIAL DIRECTLY BELOW THE EXISTING PIPE DOES GET DISTURBED, OR REMOVED, FOR ANY REASON, IT SHALL BE REPLACED WITH PROPERLY COMPACTED %" STONE AND APPROVED BY THE LOCAL INSPECTOR PRIOR TO COMPLETION OF THE



CONSTRUCTION NOTE

- THE BASIN FLOOR SHOULD BE OVERED WITH A 6" LAYER OF COARSE
- 2. THE FINISH BOTTOM SHALL BE A GRASS TURF THAT CAN BE INUNDATED

- 1. TO PREVENT DEGRADATION OF INFILTRATION FUNCTION: A. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION
- EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
- OF THE SYSTEM.

  DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION

  ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE

  INFILTRATION BASIN DURING ANY STAGE OF CONSTRUCTION.
- DO NOT PLACE INFILTRATION BASINS INTO SERVICE UNTIL THE CONTRIBUTING AREA HAS BEEN COMPLETELY STABILIZED.

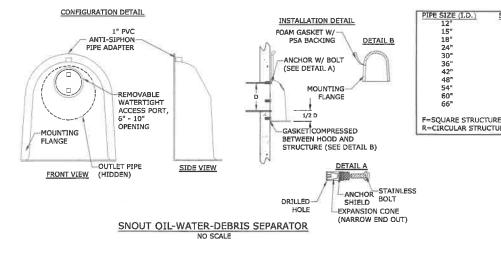
INFILTRATION BASIN TYPICAL CROSS-SECTIONS

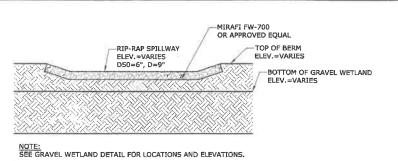


Tighe&Bond

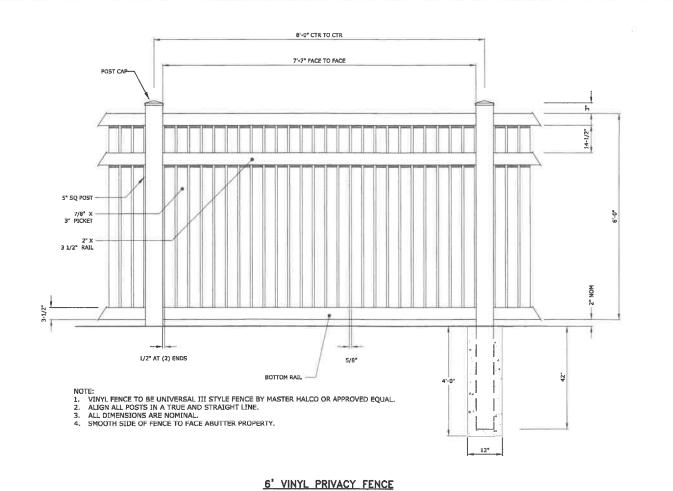
www.tighebond.com







RIP-RAP SPILLWAY



# **Proposed Multi-family Development**

### **Norway Plains Road** Site Plans

Tenants In Common: Robert Graham 81 Lakeview Drive Nottingham, NH 03290

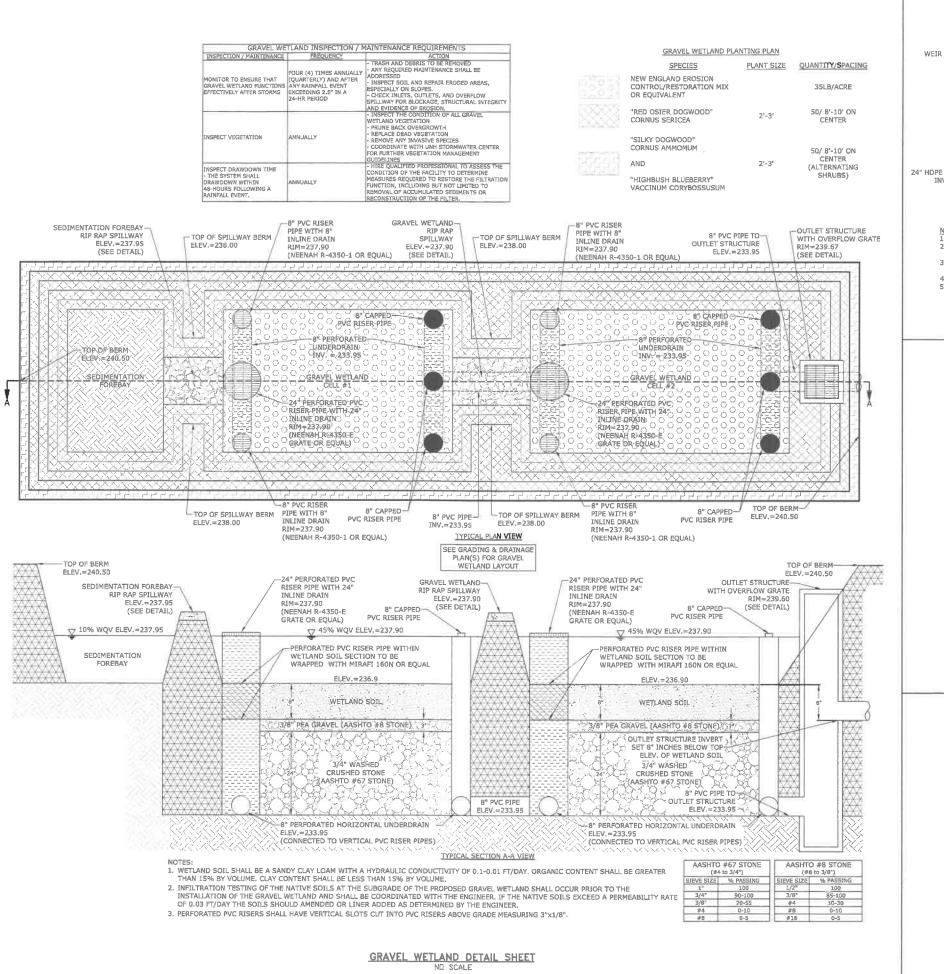
Michael Anderson 2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

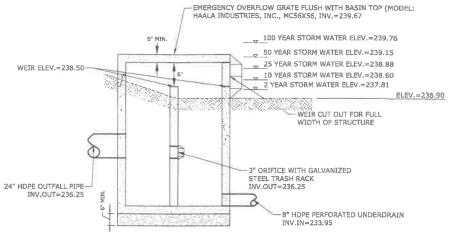
# Rochester, New Hampshire

_	-	
2.	1/9/17	RESPONSE TO NHDES COMMENTS
1.	12/16/16	RESPONSE TO CITY COMMENTS
Α	10/11/2016	City Review Comments
IARK	DATE	DESCRIPTION
ROJE	CT NO:	G-0693
ATE:	09/06/2016	
TLE:	G0693-C-505	.dwg
RAW	N BY:	ERC/KAM
HECK	ED:	KAM
PPRO	VED;	BLM

**DETAILS SHEET** 

SCALE: AS SHOWN





- NOTES:

  1. ALL SECTIONS SHALL BE 4,000 PSI CONCRETE (TYPE II CEMENT).

  2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER OF THE THIRDE WALL. 3. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF
- CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR FOOT.
  THE STRUCTURES SHALL BE DESIGNED FOR H20 LOADING,
  ALL JOINTS ON THE STRUCTURE AND PIPING SHALL BE WATERTIGHT.

### OUTLET STRUCTURE NO SCALE



NOTES:
1. GRATE SHALL BE HAALA INDUSTRIES, INC.
MC56X56 TOP MOUNT GRATE OR EQUAL.
2. GRATE TO BE SECURED TO CONCRETE

**OVERFLOW GRATE** NO SCALE

# CONSTRUCT OUTLET STRUCTURE (SEE DETAIL) 4' TOP WIDTH CORE OF BER

1. CORE MATERIAL SHALL MEET USGS CLASSIFICATION SC, SM, CL OR ML AND HAVE A MAXIMUM PARTICLE SIZE OF 3" AND A PERMEABILITY LESS THAN 0.000005 CM/S, AND MEET THE FOLLOWING GRADATION

NATIVE SOIL

SIEVE SIZE PERCENT FINER BY WEIGHT 3 INCH

No. 200 50 -100.

2. PIPE SHALL BE FULLY EMBEDDED IN CORE TO ELIMINATE SEEPAGE

CLAY CORE BERM







# **Proposed Multi-family Development**

### **Norway Plains Road Site Plans**

Tenants in Common: Robert Graham 81 Lakeview Drive Nottingham, NH 03290

Michael Anderson 2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

### Rochester, New Hampshire



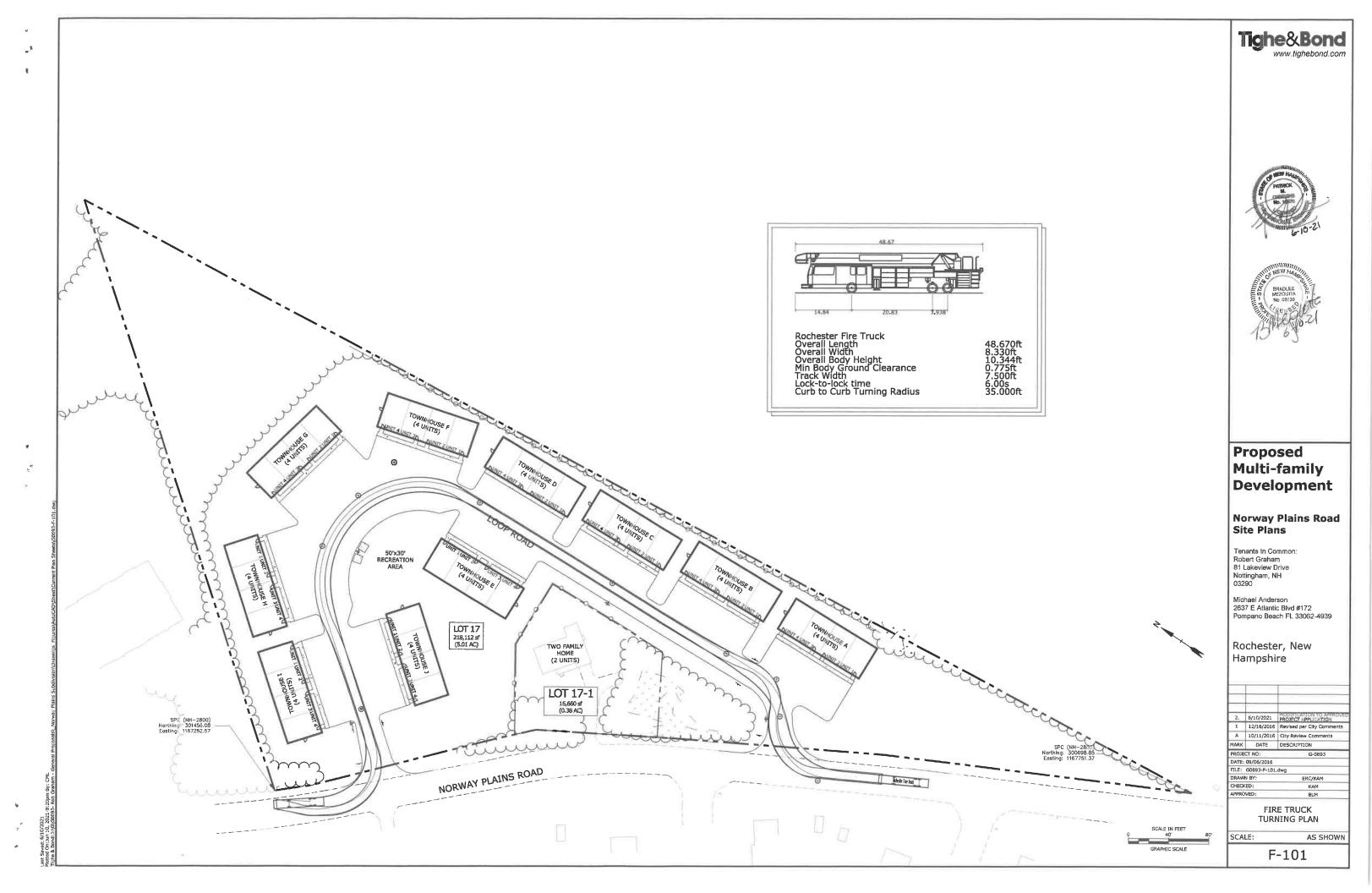
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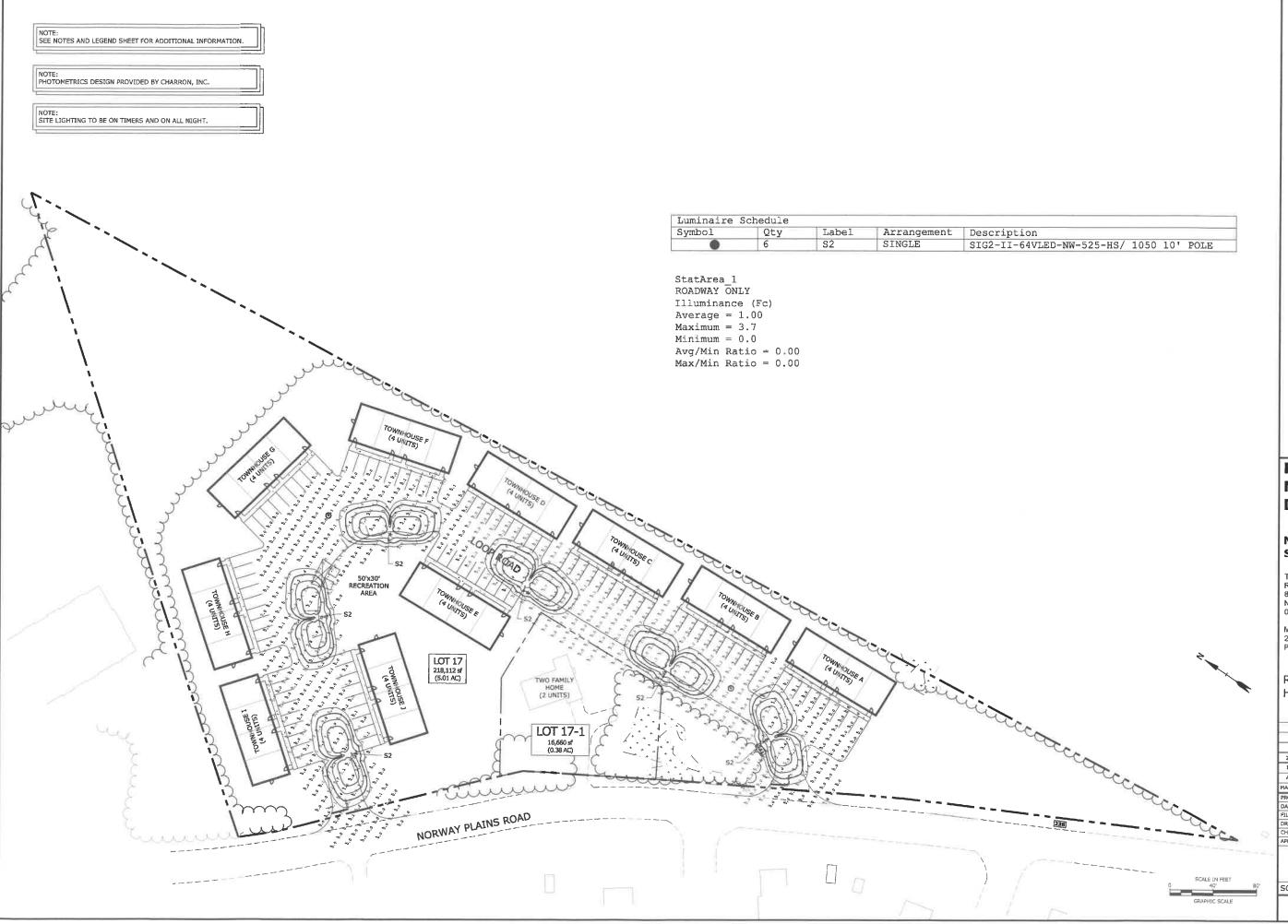
**DETAILS SHEET** 

SCALE;

C-506

AS SHOWN











# Proposed Multi-family Development

# Norway Plains Road Site Plans

Tenants In Common: Robert Graham 81 Lakeview Drive Nottingham, NH 03290

Michael Anderson 2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

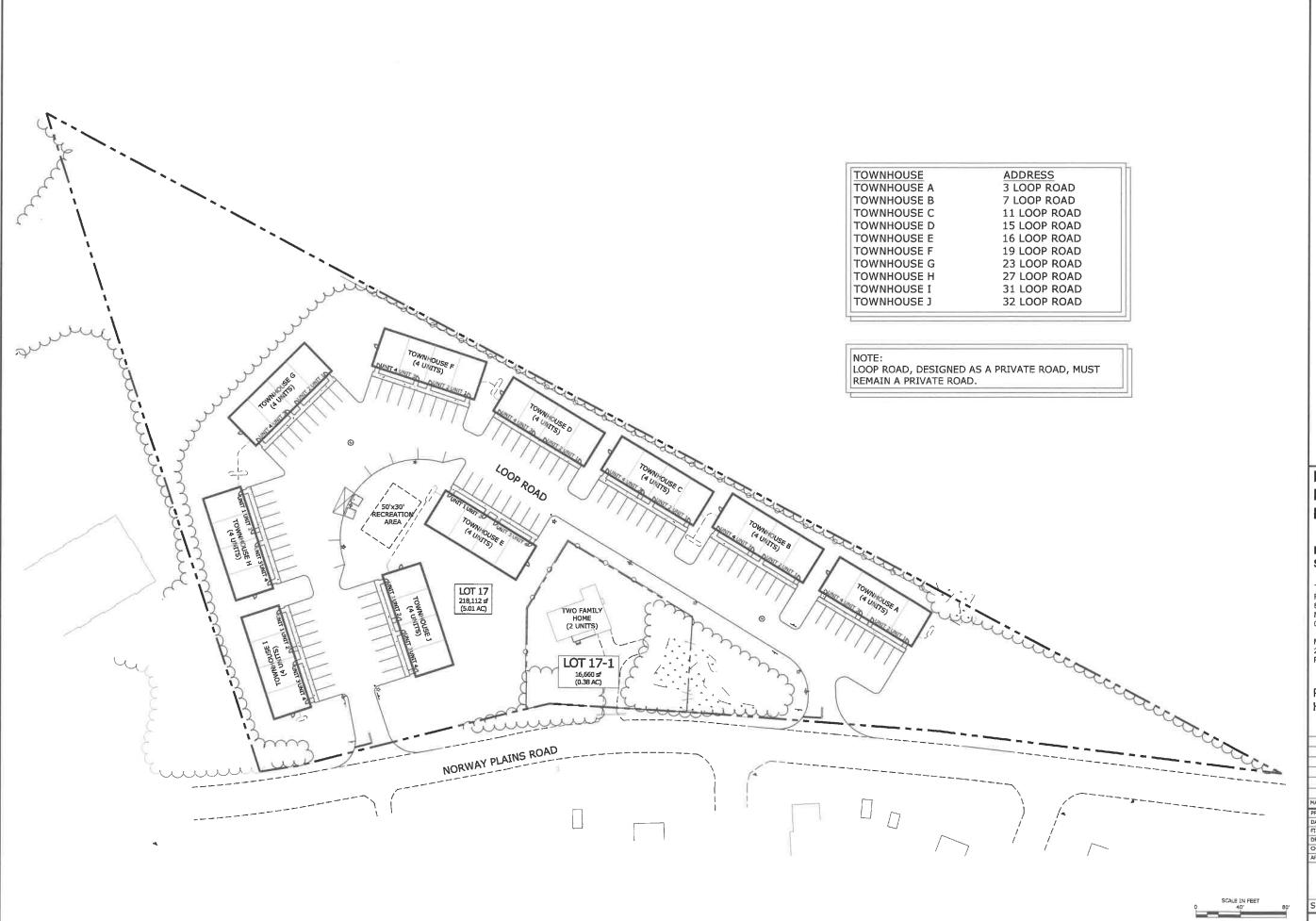
# Rochester, New Hampshire

2.	6/10/2021	PROJECT APPLICATION
1	12/16/2016	Revised per Comment
A	10/11/2016	City Review Comments
MARK	DATE	DESCRIPTION
PROJEC	T NO:	G-0693
DATE:	09/06/2016	
FILE:	G0693-E-101.	dwg
DRAW	N BY:	ERC/KAM
CHECK	ED:	KAM
APPRO	VED:	BLM

PHOTOMETRICS PLAN

SCALE: AS SHOWN

E-101









# Proposed Multi-family Development

# Norway Plains Road Site Plans

Tenants In Common: Robert Graham 81 Lakeview Drive Nottingham, NH 03290

Michael Anderson 2637 E Atlantic Blvd #172 Pompano Beach FL 33062-4939

# Rochester, New Hampshire

1.         12/16/16         REVISED PER CITY COMMENTS           A         10/11/2016         City Review Comments           MARK         DATE         DESCRIPTION           PROJECT NO:         G-0693           DATE:         09/06/2016           FILE:         G0693-C-602.DWG			
A 10/11/2016 City Review Comments  MARK DATE DESCRIPTION  PROJECT NO: G-0693  DATE: 09/06/2015  FILE: G0693-C-602.DWG	2	6/10/2021	MODIFICATION TO APPROVED PROJECT APPLICATION
MARK         DATE         DESCRIPTION           PROJECT NO:         G-0693           DATE:         09/06/2016.           FILE:         G0693-C-602.DWG	1.	12/16/16	REVISED PER CITY COMMENTS
PROJECT NO: G-0693  DATE: 09/06/2016.  FILE: G0693-C-602,DWG	Α	10/11/2016	City Review Comments
DATE: 09/06/2016 FILE: G0693-C-602,DWG	MARK	DATE	DESCRIPTION
FILE: G0693-C-602.DWG	PROJECT NO:		G-0693
	DATE:	09/06/2016	
DDAMN DV: EDC/MAN	FILE:	G0693-C-602	.DWG
DIONALIA DI.	DRAW	N BY:	ERC/KAM
CHECKED: KAM	CHECK	ED:	KAM

ADDRESS PLAN

SCALE: AS SHOWN