

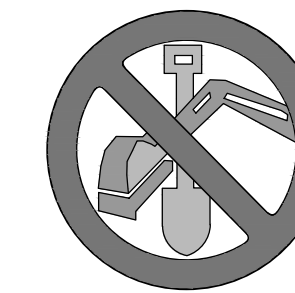
LEGEND

	EXISTING	PROPOSED
EDGE OF GRAVEL	---	---
EDGE OF PAVEMENT	---	---
VERTICAL GRANITE CURB	---	---
PROPERTY LINE	---	---
STONE WALL	---	---
IRON PIPE/REBAR	○	○
CONCRETE BOUND	□	□
EASEMENT LINE	---	---
BUILDING SETBACK LINE	---	---
ZONING BOUNDARY	---	---
ALLENSTOWN PROPERTY MAP	---	---
CONTOURS	282 X 152.65	282 152.65
SPOT ELEVATIONS		
SOILS BOUNDARY	43B	
SOIL IDENTIFICATION SYMBOL		
EDGE OF WATER	---	---
TREE LINE	---	---
DECIDUOUS TREE	○	○
EVERGREEN TREE	○	○
DECIDUOUS SHRUB	○	○
EVERGREEN SHRUB	○	○
STOCKADE FENCE	X	X
SILTATION FENCE	SF	SF
SILT SOCK	SS	SS
PIPE FLOW ARROWS	→	→
STORM SEWER	---	---
OVERHEAD UTILITIES	O/E&T	PO/E&T
UNDERGROUND TELEPHONE	U/T	PU/T
UNDERGROUND UTILITIES	U/E&T	PU/E&T
SANITARY SEWER	S	PS
FORCE MAIN	PFM	PFM
WATER LINE	W	PW
CATCH BASIN	⊞	⊞
HEADWALL	⊞	⊞
FLARED END SECTION	⊞	⊞
RIPRAP	⊞	⊞
DRAIN MANHOLE	⊞	⊞
SEWER MANHOLE	⊞	⊞
FIRE HYDRANT	⊞	⊞
UTILITY POLE	⊞	⊞
LIGHT POLE	⊞	⊞
UTILITY POLE W/ STREET LIGHT	⊞	⊞
TELEPHONE MANHOLE	⊞	⊞
TEST PIT	⊞	⊞
TRAFFIC FLOW ARROWS	→	→
ACCESSIBLE PARKING	⊞	⊞
DUMPSTER	⊞	⊞
SIGN	⊞	⊞
PHOTO LOCATION	⊞	⊞
SILT SACK LOCATION	⊞	⊞

Site Development Plans for Niyati Realty, LLC Allenstown, NH

November 23, 2016

THIS PLAN SET
LAST REVISED ON:
9/5/2017



DIG SAFE 1-888-344-7233

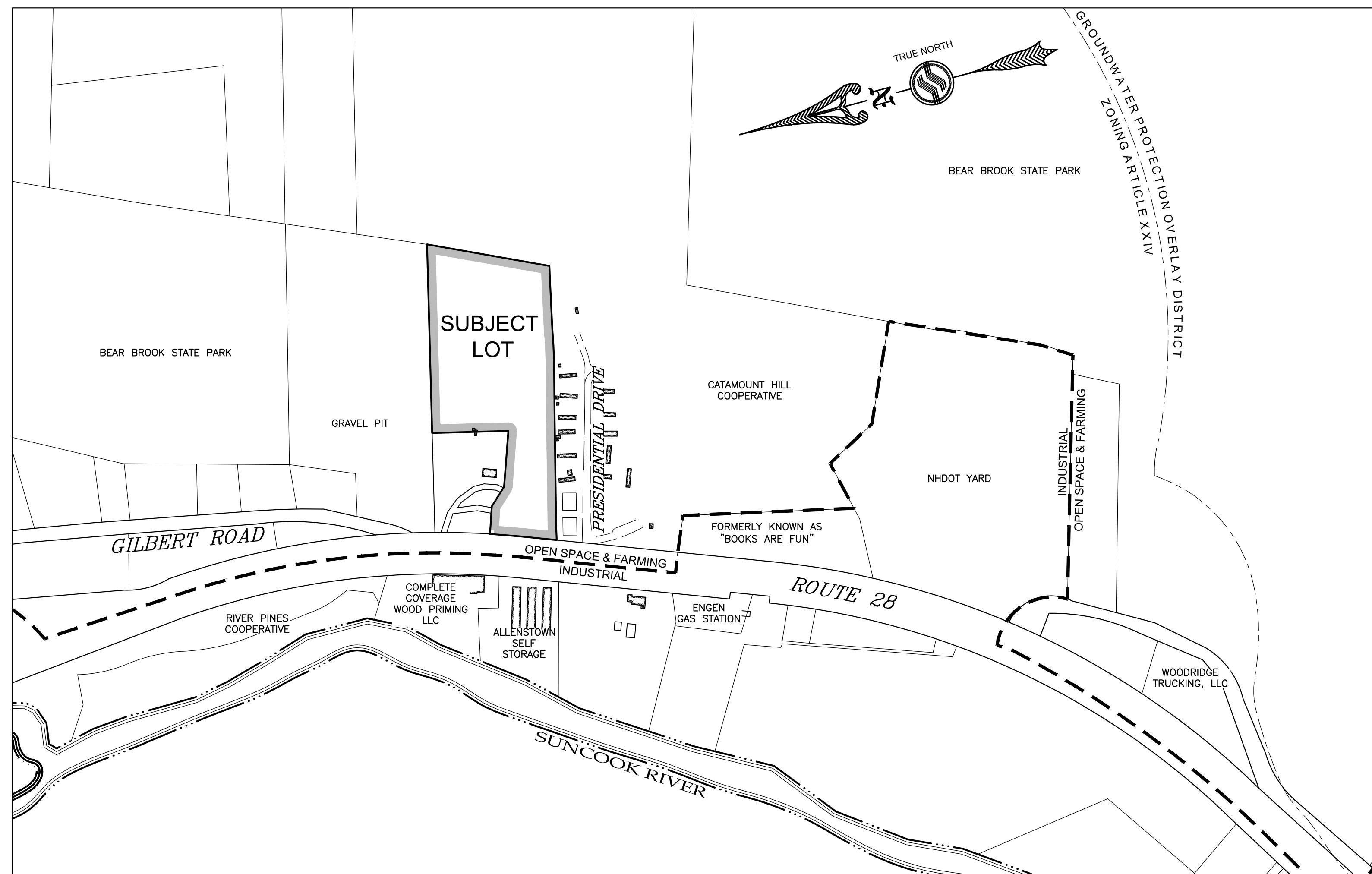


LOCATION PLAN
SCALE: 1" = 1 1/2 MILES (7,920 FEET)

SHEET INDEX

SHEET NUMBER	DESCRIPTION	REVISION NUMBER	DATE
1	TITLE SHEET	5	9/5/2017
2	EXISTING CONDITIONS PLAN	3	5/10/2017
3	SITE DEVELOPMENT PLAN	4	9/5/2017
4	GRADING AND DRAINAGE PLAN	4	8/24/2017
5	UTILITY PLAN	4	9/5/2017
6	EROSION CONTROL PLAN	3	8/24/2017
7	CONSTRUCTION DETAILS	1	4/26/2017
8	CONSTRUCTION DETAILS	2	8/24/2017
9	CONSTRUCTION DETAILS	2	8/24/2017
10	CONSTRUCTION DETAILS	1	5/10/2017
11	DRIVEWAY PLAN, PROFILE & CONSTRUCTION DETAILS	.	8/24/2017
12	LIGHTING PLAN	1	8/24/2017
12A	LIGHTING DETAILS	.	5/10/2017
LD1	LANDSCAPE PLAN	.	8/24/2017

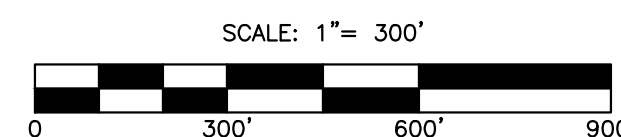
5	Update Sheet Index	9/5/2017
4	Site Rotation Revisions	8/24/2017
3	Update Sheet Index	5/10/2017
2	Update Sheet Index	4/26/2017
1	Update Sheet Index	12/7/2016
No.	Revision	Date
Designed by: JRB		Drawn by: JRB
		Checked by: GRF



OWNERS SIGNATURE:

 NIYATI REALTY, LLC

 CATAMOUNT HILL COOPERATIVE



Title Sheet
Niyati Realty, LLC
 289 Pinewood Road
 Allenstown, NH
 Assessors Map 409 Lot 32

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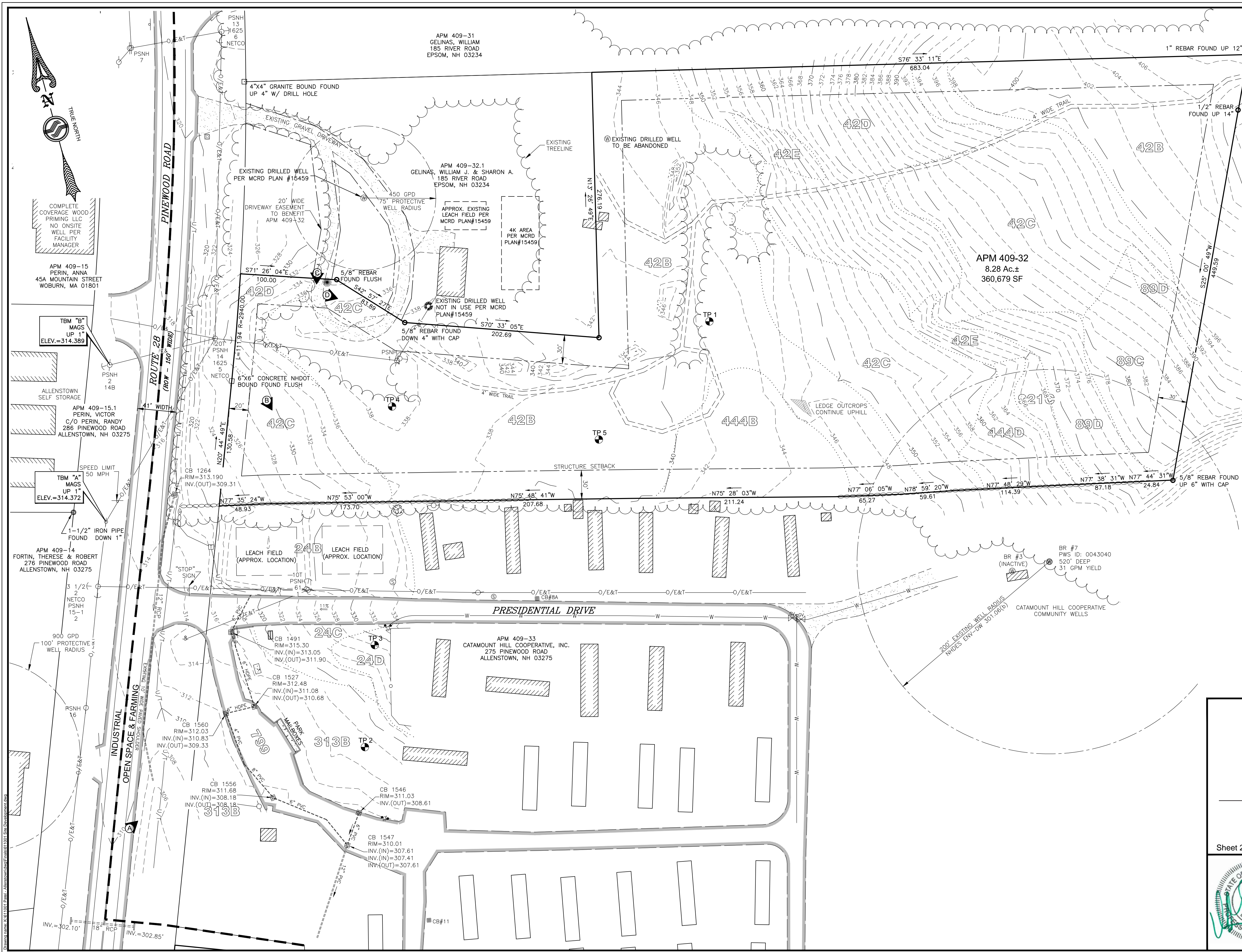
1 INDUSTRIAL DRIVE
 WINDHAM, NH 03087 (603) 647-8700
 www.sfceng.com

Sheet 1 of 12 Scale: 1" = 300' Date: 11/23/2016

Prepared for:
 Niyati Realty, LLC
 239 Steam Mill Road
 Auburn, NH 03032

Allenstown Planning Board
 Approval

Zoning Classification: Open Space & Farming

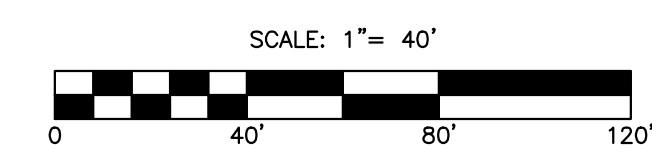
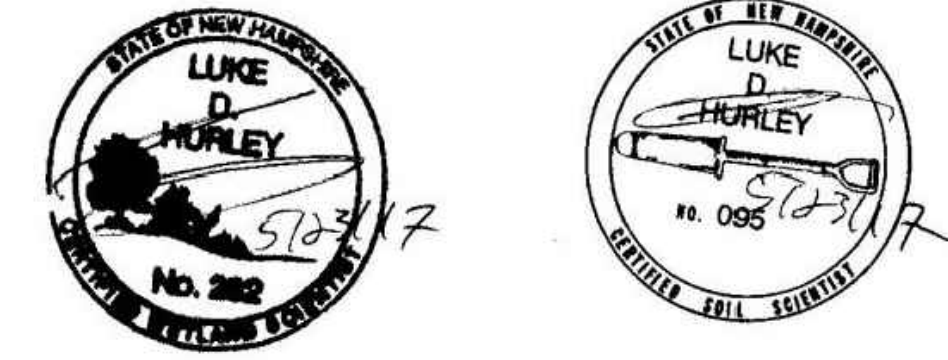


PLANS OF REFERENCE

1. PLOT PLAN PREPARED FOR: BEAR BROOK VILLA, PREPARED BY: JOSEPH WICHERT, LLS, INC., DATED: MARCH 15, 2002
2. MINOR SUBDIVISION PREPARED FOR: ERIC KEELER, PREPARED BY: JOSEPH WICHERT, LLS, INC., DATED: DECEMBER 10, 2000, LAST REVISED: MAY 5, 2001, PLANNING BOARD APPROVAL DATED: APRIL 18, 2001, AND SIGNED BY PLANNING BOARD CHAIRPERSON ON MAY 7, 2001.
3. SUBDIVISION LOT LINE ADJUSTMENT PLAN ON THE LAND OF PENRICH, INC. AND ASTIM, LLC PREPARED BY: HOLDEN ENGINEERING AND SURVEYING, INC., DATED: SEPTEMBER 16, 1998, LAST REVISED: JULY 30, 200.
4. NHDOT PROJECT #F023-1(1) ROADWAY PLANS FOR ROUTE 28, SHEETS 39 THROUGH 43, LAST REVISED: NOVEMBER 21, 1973.
5. CATAMOUNT HILL COOPERATIVE, INC. WATER SUPPLY IMPROVEMENTS, PREPARED BY: PROVAN & LORBER, INC., DATED: JULY 2010.

NOTES

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING CONDITIONS OF PROPERTY MAP 409 LOT 32 CONSISTING OF 8.28 AC.
2. THE OWNER OF RECORD: NIYATI REALTY, LLC DEED REFERENCE BOOK 3457 PAGE 1389, MERRIMACK COUNTY REGISTRY OF DEEDS
3. GOVE ENVIRONMENTAL SERVICES PERFORMED THE WETLAND MAPPING ON JULY 23, 2015 ACCORDING TO CURRENT METHODOLOGY REQUIRED BY NHDES WETLANDS BUREAU RULES, AS OF 2007, AND THE TECHNICAL CRITERIA OF THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (TECHNICAL REPORT Y-87-1, JANUARY 1987). NO WETLANDS FOUND ON SITE.
4. GOVE ENVIRONMENTAL SERVICES PERFORMED A SITE SPECIFIC SOIL SURVEY ON JULY 23, 2015.
5. THIS PLAN SHOWS CONDITIONS AS DEFINED BY INSTRUMENT FIELD SURVEY BY SFC ENGINEERING PARTNERSHIP, INC. ON 6/23/15-6/26/15. THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY BY SFC ENGINEERING PARTNERSHIP, INC.
6. ALL BOUNDARY INFORMATION SHOWN ON PLAN IS TAKEN FROM PLAN OF REFERENCE NO. 2.
7. SUBJECT LOT AREA: 8.28 Ac.± (360,679 SQ.FT.)
8. SUBJECT LOT IS IN THE GROUNDWATER PROTECTION OVERLAY DISTRICT.
9. ZONING DISTRICT: OPEN SPACE & FARMING
FRONT SETBACK: 20'
SIDE SETBACK: 30'
REAR SETBACK: 30'
10. NO PORTION OF THIS PARCEL IS LOCATED WITHIN A FLOOD HAZARD AREA AS INTERPRETED FROM THE FLOOD INSURANCE RATE MAP FOR THE TOWN OF ALLENSTOWN, COMMUNITY-PANEL NUMBER 33013C0569E. EFFECTIVE DATE: APRIL 19, 2010 PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
11. BENCHMARK: PHASE PROCESSED GPS
DATUM: NAD83
ELEVATION: 317.62
12. LOCATION OF EXISTING LEACH BEDS ON PROPERTY OWNED BY CATAMOUNT HILL COOPERATIVE, LLC IS TAKEN FROM UNUTILIZED PLANS PROVIDED BY CATAMOUNT HILL COOPERATIVE.
13. EXISTING LEACH FIELDS NEAR THE WEST END OF PRESIDENTIAL DRIVE SERVE APPROXIMATELY TEN HOMES. NO RECORD PLANS OF THESE FIELDS WERE FOUND (PROPERTY CONDITIONS REPORT BY PROVAN & LORBER, INC., NOVEMBER 2007).
14. INFORMATION SHOWN OUTSIDE THE PROPOSED DEVELOPMENT AREA HAS BEEN COMPILED FROM PLANS OF REFERENCE AND IS APPROXIMATE ONLY.
15. ABUTTING WELL LOCATIONS HAVE BEEN COMPILED FROM PLANS OF REFERENCE OR FIELD LOCATED. RESIDENTIAL WELL FLOWS TAKEN FROM TOWN ASSESSING RECORDS. CATAMOUNT HILL COOPERATIVE WELL FLOWS TAKEN FROM NHDES RECORDS.



No.	Revision	Date
3	Add Radii and Yield for Existing Wells, Location of Gelinias Septic	5/10/2017
2	Add Location of TP5	4/26/2017
1	Revise Soil Survey Note and Add Photo Locations	12/7/2016
No.	Revision	Date

Designed by: JRR Drawn by: JRR Checked by: GRF

Existing Conditions Plan
Niyati Realty, LLC
 289 Pinewood Road
 Allenstown, NH
 Assessors Map 409 Lot 32

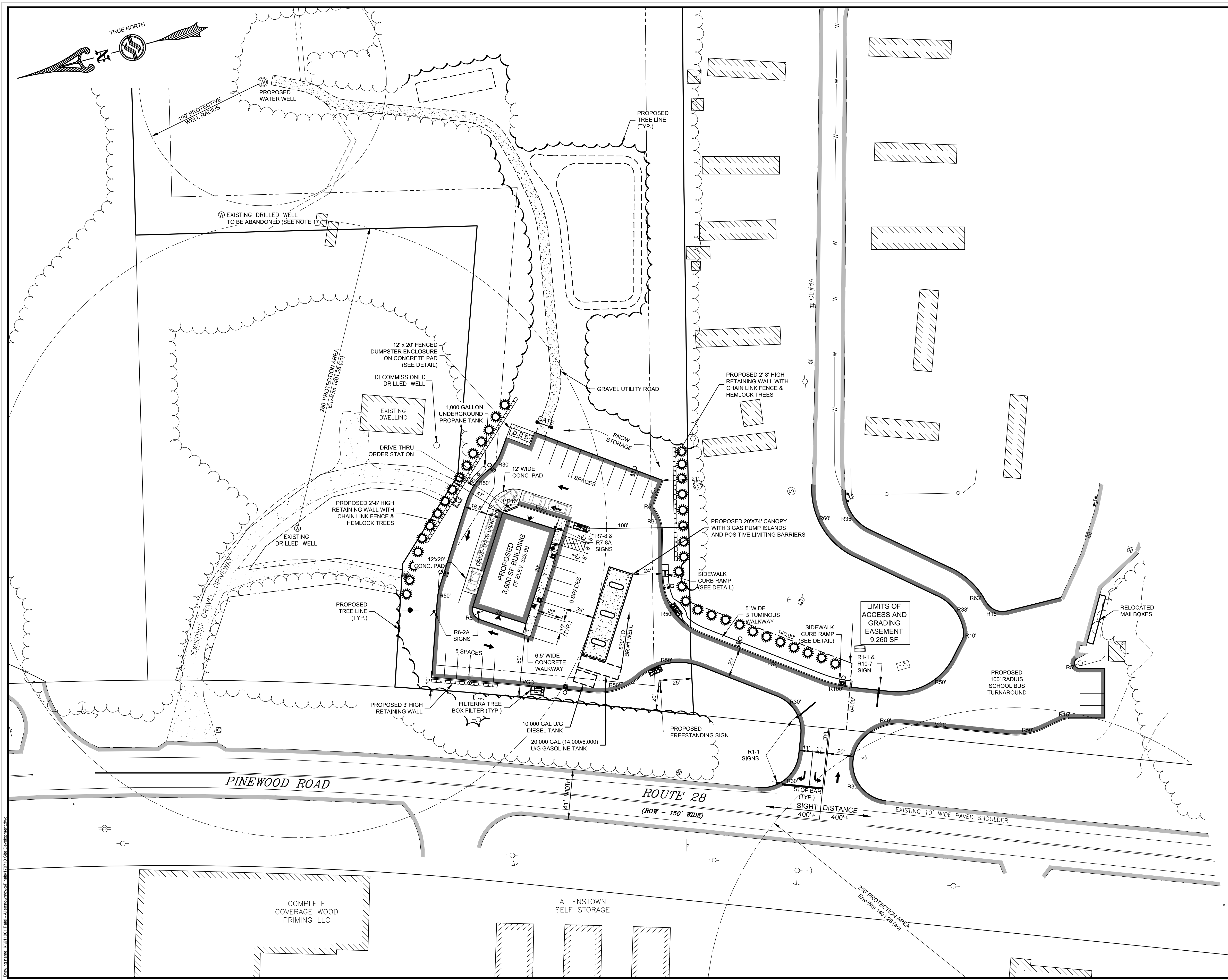
SFC ENGINEERING
 1 INDUSTRIAL DRIVE
 WINDHAM, NH 03087 (603) 647-8700
 www.sfceng.com

Sheet 2 of 12 Scale: 1" = 50' Date: 11/23/2016

Prepared for:
 Niyati Realty, LLC
 239 Steam Mill Road
 Auburn, NH 03032

Allenstown Planning Board
 Approval

Zoning Classification: Open Space & Farming



- NOTES**
- THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED DEVELOPMENT OF ALLENSTOWN PROPERTY MAP 409 LOT 32 CONSISTING OF 8.28 AC.±
ON-SITE (LOT 32) PROJECT FEATURES:
A) CONSTRUCTION OF 3,600 SF CONVENIENCE STORE
B) CONSTRUCTION THREE GAS/DIESEL PUMP ISLANDS
C) CONSTRUCTION OF 25 PARKING SPACES
D) CONSTRUCTION OF STORMWATER MANAGEMENT FEATURES

- OFF-SITE (LOT 33) IMPROVEMENTS SHOWN INCLUDE:
A) RECONSTRUCTION OF DRIVEWAY ENTRANCE TO CATAMOUNT HILL COOPERATIVE
B) RECONSTRUCTION OF WESTERLY LEACH FIELD ON CATAMOUNT PROPERTY
C) CONSTRUCTION OF SCHOOL BUS TURN AROUND
D) RECONSTRUCTION OF STORMWATER MANAGEMENT FEATURES

2. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING DIG SAFE (1-800-394-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAW.

3. ALL WORK SHALL CONFORM TO THE TOWN OF ALLENSTOWN STANDARDS.

DIMENSIONAL REQUIREMENT	REQUIRED	PROVIDED
MAX. IMPERVIOUS COVER:	20%	10%
MAXIMUM BUILDING HEIGHT	35'	30'
FRONT SETBACK:	20'	60'
SIDE SETBACK:	30'	47'
REAR SETBACK:	30'	800'±

	TOTAL	LOT 32	LOT 33
PAVEMENT AREA:	34,110 SF	25,550 SF	8,560 SF (INCREASE)
IMPERVIOUS AREA:	40,630 SF	31,870 SF	8,760 SF (INCREASE)
DISTURBED AREA:	145,000 SF	80,000 SF	65,000 SF

5. PARKING REQUIREMENTS: CONVENIENCE STORE = 1 SPACE/200 SF
RESTAURANT = 1 SPACE/50 SF OF SEATING
3,300 SF = 17 SPACES
300 SF = 6 SPACES
TOTAL = 23 SPACES

PARKING PROVIDED: (INCLUDING 2 ACCESSIBLE SPACES) = 25 SPACES

6. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY THAT THEY HAVE THE MOST RECENT SET OF PLANS. ALL WORK SHALL BE PERFORMED USING A COMPLETE SET OF PLANS AS SOME ITEMS ARE NOT SHOWN ON EVERY SHEET.

7. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF CONDITIONS ARE FOUND THAT DO NOT MATCH WHAT IS SHOWN ON THESE PLANS.

8. THERE ARE NO WETLANDS WITHIN 50' OF PROPOSED DEVELOPMENT.

9. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

10. EACH ACCESSIBLE SPACE SHALL BE MARKED WITH AN UPRIGHT SIGN.

11. ALL PARKING SPACES SHALL BE STRIPED WITH WHITE TRAFFIC PAINT WITH A 4" MINIMUM LINE WIDTH.

12. ALL DISTURBED AREAS SHALL BE AERATED AND DRESSED WITH 6" OF LOAM AND SEED UNLESS OTHERWISE SPECIFIED SEE LANDSCAPE PLAN.

13. ALL SITE AND CONSTRUCTION PLANS MAY BE REVIEWED BY A THIRD PARTY CONSULTANT OF THE TOWNS CHOOSING. ALL COSTS ASSOCIATED WITH THIRD PARTY REVIEWS AND INSPECTION SHALL BE PAID BY THE DEVELOPER.

14. FACILITY LIGHTING COMPLIES WITH TOWN EXTERIOR LIGHTING STANDARDS (SECTION 2306).

15. SNOW WILL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IF NECESSARY.

16. SITE DISTANCE AT PINWOOD ROAD IS GREATER THAN 400 FEET.

17. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE EXISTING INACTIVE WELL ON THE PROPERTY SHALL BE ABANDONED AND SEALED IN ACCORDANCE WITH WE 604 OF THE NH WATER WELL BOARD RULES.

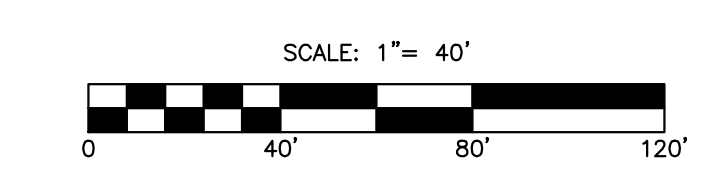
18. PROPOSED FUEL TRANSFER AND DELIVERY AREAS SHALL BE OVER IMPERVIOUS SURFACE AND HAVE POSITIVE LIMITING BARRIERS AT THEIR PERIMETER. POSITIVE LIMITING BARRIERS SHALL BE DESIGNED BY OTHERS.

19. PROPOSED DAILY SEWAGE FLOW FOR FACILITY SHOWN SHALL BE LESS THAN 1440 GPD.

20. PROPOSED RETAINING WALLS TO BE DESIGNED BY OTHERS.

21. PROPOSED SELECTIVE CUTTING WITHIN ROUTE 28 RIGHT OF WAY ALONG FRONTAGE OF SITE WILL BE AS DIRECTED BY NHDOT.

22. FIRE ALARM AND SUPPRESSION SYSTEM TO BE INSTALLED ACCORDING TO LOCAL FIRE CHIEF.



No.	Revision	Date
4	Add Underground Propane Tank and Note 22	9/5/2017
3	Site Rotation Revisions	8/24/2017
2	Revise per Engineering Review Comments and Add Sign	5/10/2017
1	Revise Diesel Pump Label	12/7/2016
No.	Revision	Date

Designed by: JRB Drawn by: JRB Checked by: GRF

Site Development Plan
Niyati Realty, LLC
289 Pinewood Road
Allenstown, NH
Assessors Map 409 Lot 32

SFC ENGINEERING

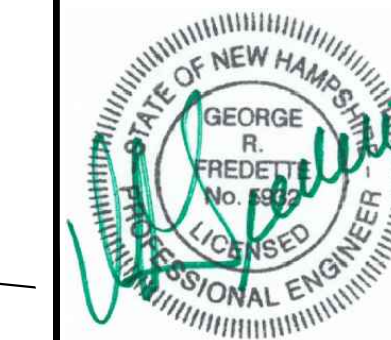
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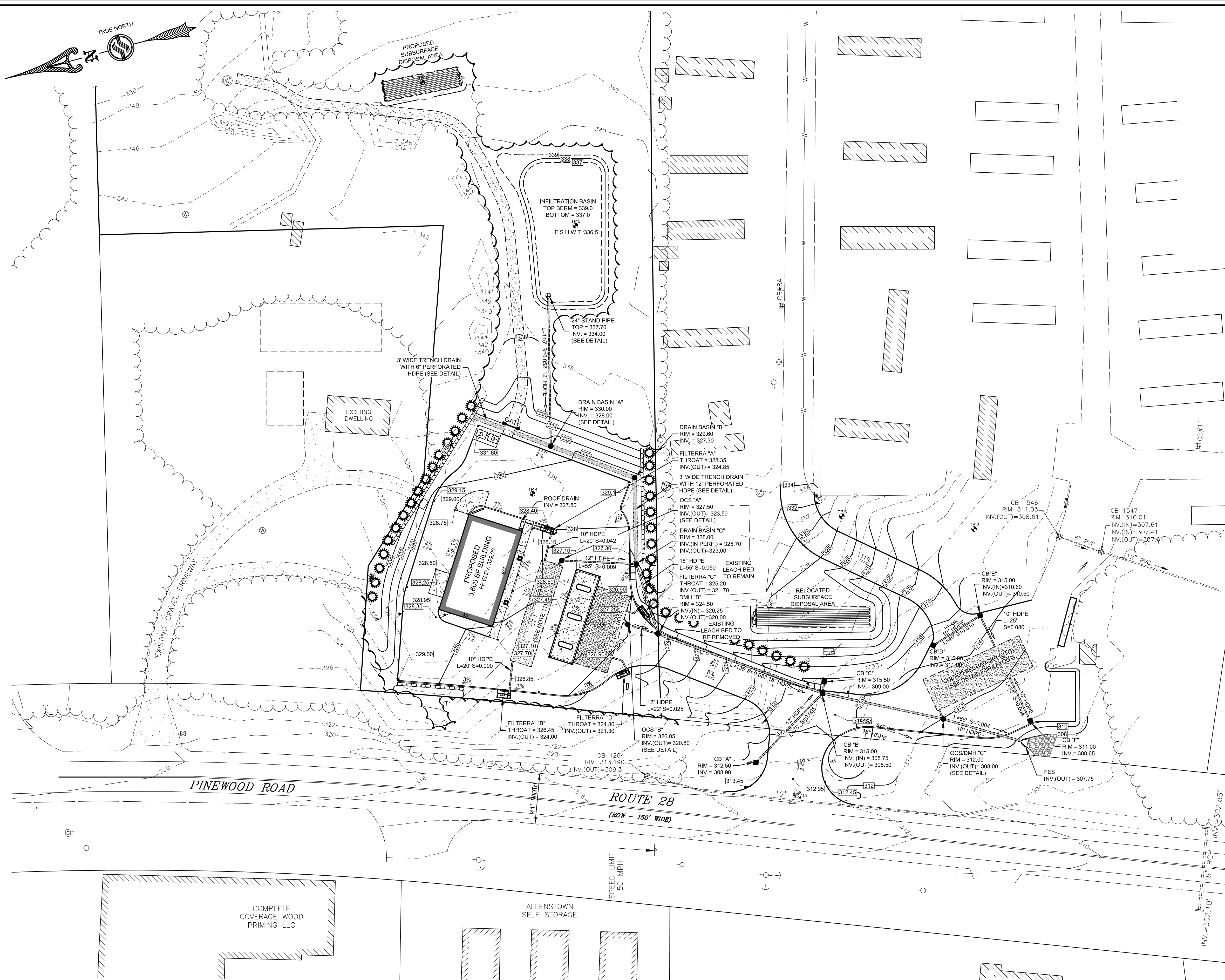
Sheet 3 of 12 Scale: 1" = 40' Date: 11/23/2016

Prepared for: Niyati Realty, LLC
239 Steam Mill Road
Auburn, NH 03032

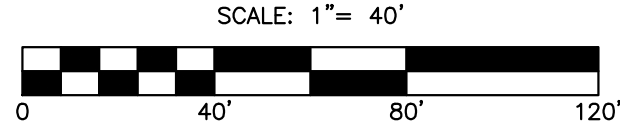
Allenstown Planning Board
Approval

Zoning Classification: Open Space & Farming





- NOTES**
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH TOWN OF ALLENSTOWN AND NHDOT REQUIREMENTS.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING DIG SAFE (1-800-394-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAW.
 3. CONTRACTOR SHALL VERIFY TEMPORARY BENCH MARK (TBM) ELEVATIONS PRIOR TO CONSTRUCTION.
 4. ALL 2:1 SLOPES SHALL BE STABILIZED WITH JUTE MATTING OR EROSION CONTROL BLANKET IMMEDIATELY FOLLOWING FINAL GRADING.
 5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING APPROPRIATE EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH NHDES AND US EPA BEST MANAGEMENT PRACTICES.
 6. ALL STRUCTURES TO HAVE RIMS SET AT FINISH GRADE REGARDLESS OF STATED RIM DATA.
 7. ALL SPOT GRADES ARE AT BOTTOM OF CURB UNLESS OTHERWISE SPECIFIED.
 8. SOIL COMPACTION ON SITE SHALL BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
 9. NO GROUND DISTURBED AS A RESULT OF SITE CONSTRUCTION AND DEVELOPMENT SHALL BE LEFT AS EXPOSED BARE SOIL AT PROJECT COMPLETION.
 10. INFORMATION SHOWN OUTSIDE THE PROPOSED DEVELOPMENT AREA HAS BEEN COMPILED FROM PLANS OF REFERENCE AND IS APPROXIMATE ONLY.
 11. CT-1 AND CT-2 ARE CULTC RECHARGER CHAMBER FIELDS SEE DETAIL ON SHEET 8 FOR LAYOUT.
 12. PROPOSED NORTHERLY RETAINING WALL IS 2'-7" HIGH. SOUTHERLY RETAINING WALL IS 2'-8". WESTERLY RETAINING WALL IS 3' HIGH.
 13. ALL PROPOSED DRAINAGE FEATURES AND STRUCTURES IN NHDOT R.O.W. TO BE OWNED, MAINTAINED, REPAIRED AND REPLACED BY LOT OWNER(S).



No.	Revision	Date
4	Site Rotation Revisions	8/24/2017
3	Revise per Engineering Review Comments	5/10/2017
2	Revise per AoT Comments	4/26/2017
1	Revise CT-3 Size	12/7/2016
No.	Revision	Date

Designed by: JRB Drawn by: JRB Checked by: GRF

Grading & Drainage Plan
Niyati Realty, LLC
289 Pinewood Road
Allenstown, NH
 Assessors Map 409 Lot 32



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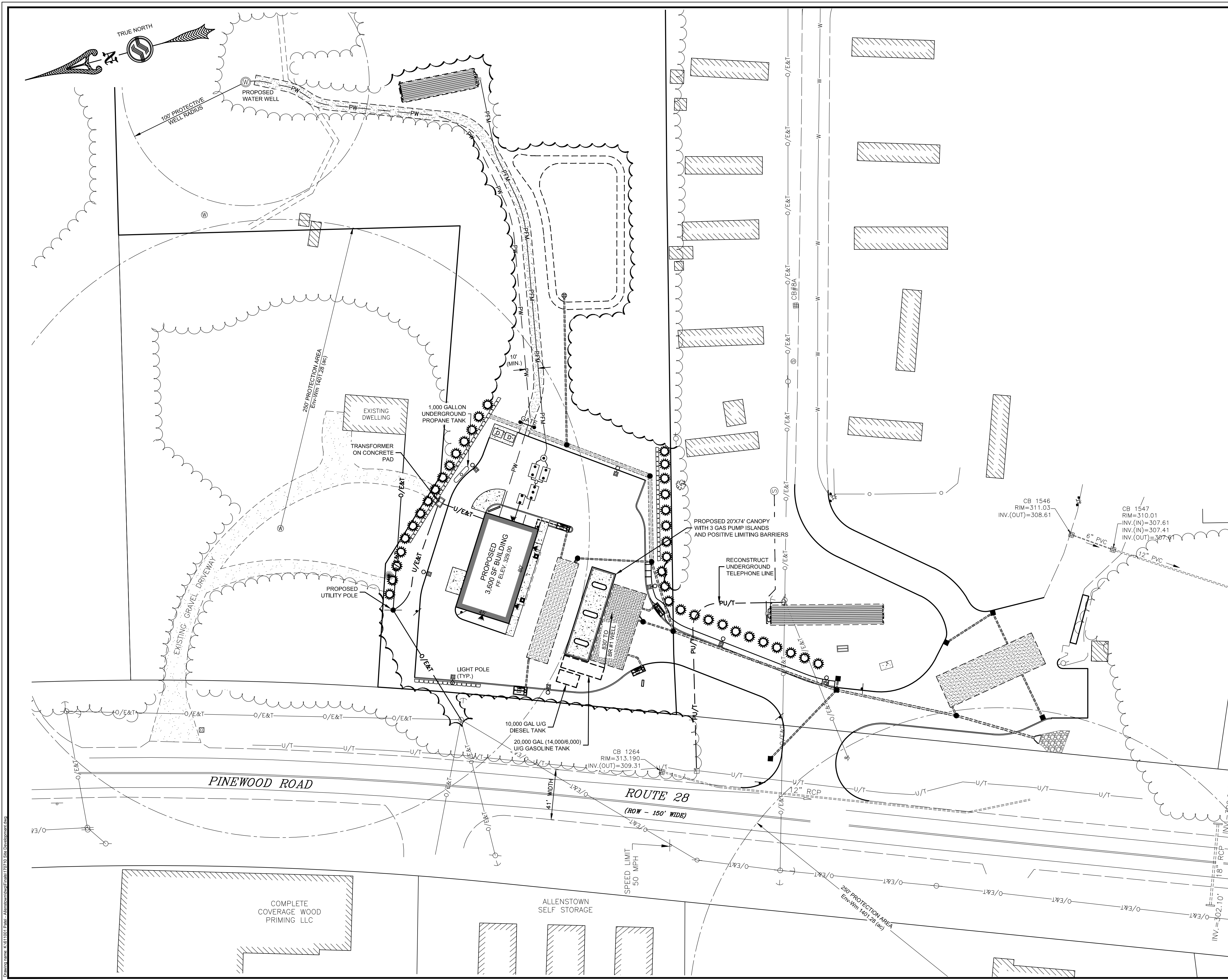
Sheet 4 of 12 Scale: 1" = 40' Date: 11/23/2016



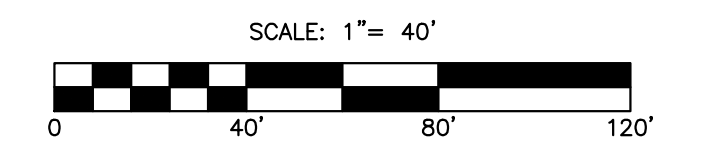
Prepared for:
Niyati Realty, LLC
239 Steam Mill Road
Auburn, NH 03032

Allenstown Planning Board
Approval

Zoning Classification: Open Space & Farming



- NOTES**
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH TOWN OF ALLENTOWN AND NHDOT REQUIREMENTS.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING DIG SAFE (1-800-394-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAW.
 3. CONTRACTOR SHALL VERIFY TBM ELEVATIONS PRIOR TO CONSTRUCTION.
 4. SEE SEPTIC SYSTEM DESIGN PLAN AND DETAILS FOR ADDITIONAL INFORMATION REGARDING CONSTRUCTION OF THE WASTE DISPOSAL SYSTEMS.
 5. CONTRACTOR TO VERIFY SIZE OF WATER SERVICE WITH ARCHITECT.
 6. SEE LIGHTING PLAN FOR SPECIFICATIONS AND ADDITIONAL INFORMATION ON SITE LIGHTING.



4	Add Underground Propane Tank	9/5/2017
3	Site Rotation Revisions	8/24/2017
2	Revise per AoT Comments	4/26/2017
1	Revise CT-3 Size	12/7/2016
No.	Revision	Date
Designed by: JRB		Drawn by: JRB
		Checked by: GRF

Utility Plan
Niyati Realty, LLC
 289 Pinewood Road
 Allentown, NH
 Assessors Map 409 Lot 32

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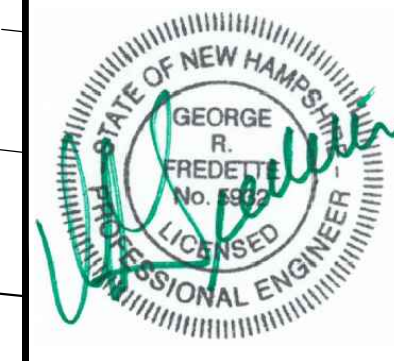
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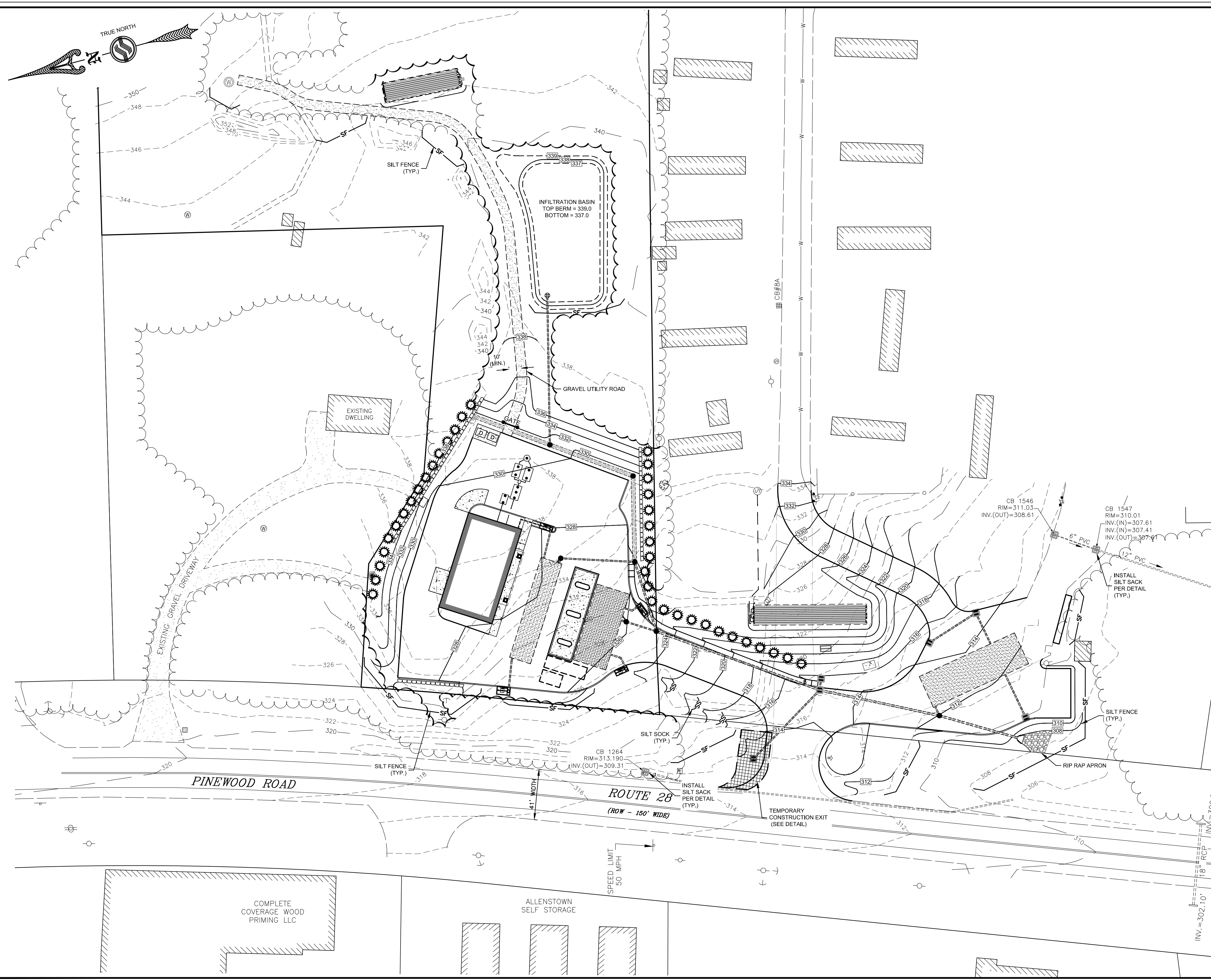
Sheet 5 of 12 Scale: 1" = 40' Date: 11/23/2016

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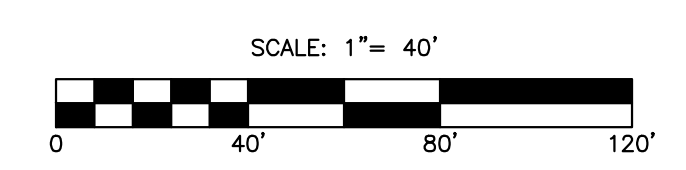
Allenstown Planning Board
 Approval

Zoning Classification: Open Space & Farming





- NOTES**
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH TOWN OF ALLENTOWN REQUIREMENTS.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING DIG SAFE (1-800-394-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAW.
 3. CONTRACTOR SHALL VERIFY TEMPORARY BENCH MARK (TBM) ELEVATIONS PRIOR TO CONSTRUCTION.
 4. ALL CATCH BASINS SHALL HAVE A SILTSACK INSTALLED DURING CONSTRUCTION (SEE SHEET 7).
 5. EROSION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER BMPs.



3	Site Rotation Revisions	8/24/2017
2	Revise per AoT Comments	4/26/2017
1	Revise CT-3 Size	12/7/2016
No.	Revision	Date
Designed by: JRB		Drawn by: JRB
		Checked by: GRF

Erosion Control Plan
Niyati Realty, LLC
289 Pinewood Road
Allentown, NH
 Assessors Map 409 Lot 32

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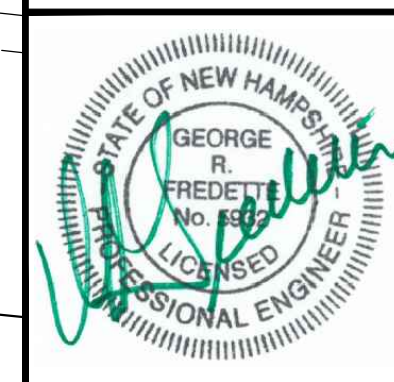
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Sheet 6 of 12 Scale: 1" = 40' Date: 11/23/2016

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Auburn, NH 03032

Allenstown Planning Board
Approval

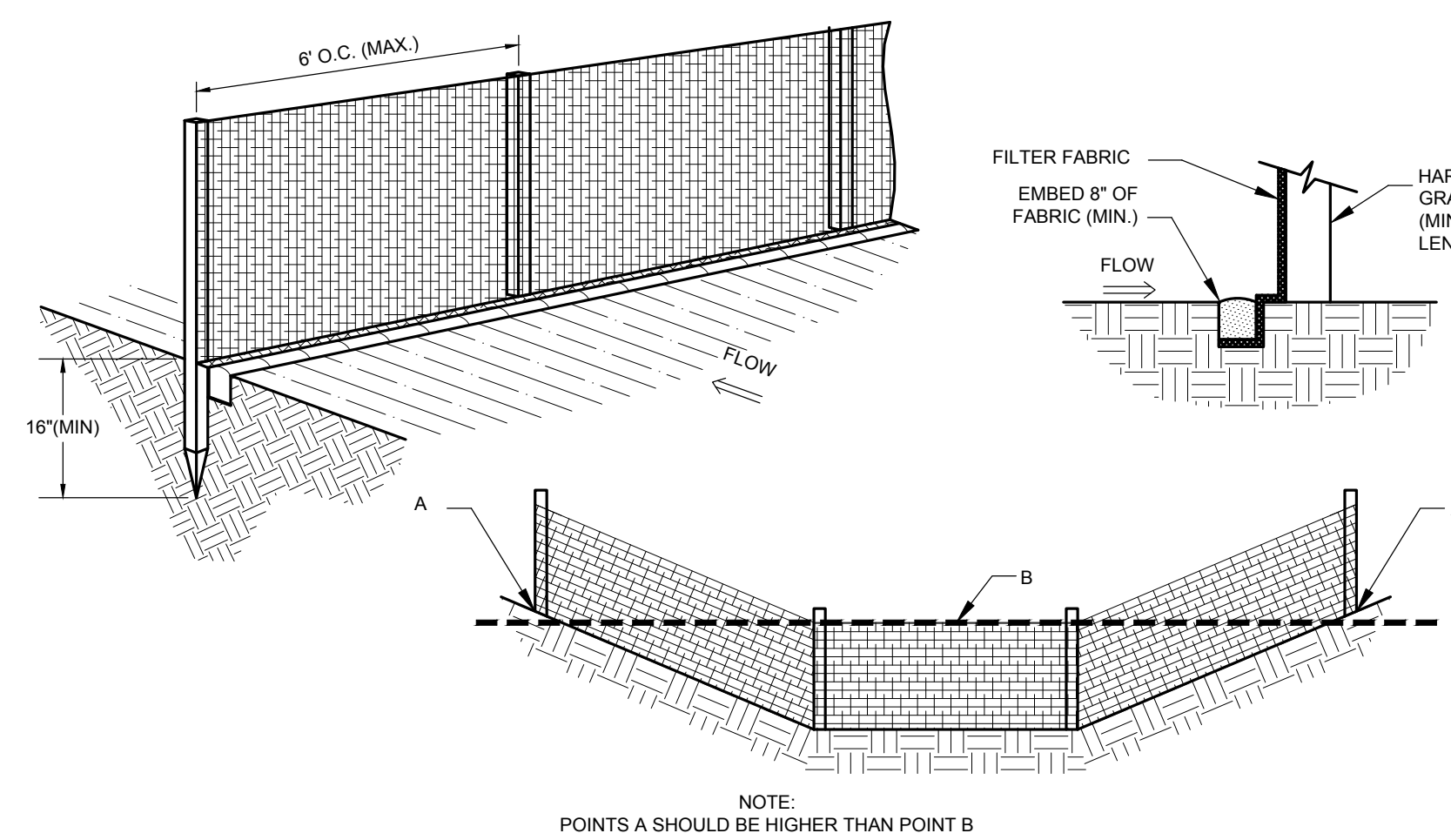
Zoning Classification: Open Space & Farming



SILT FENCE SPECIFICATIONS

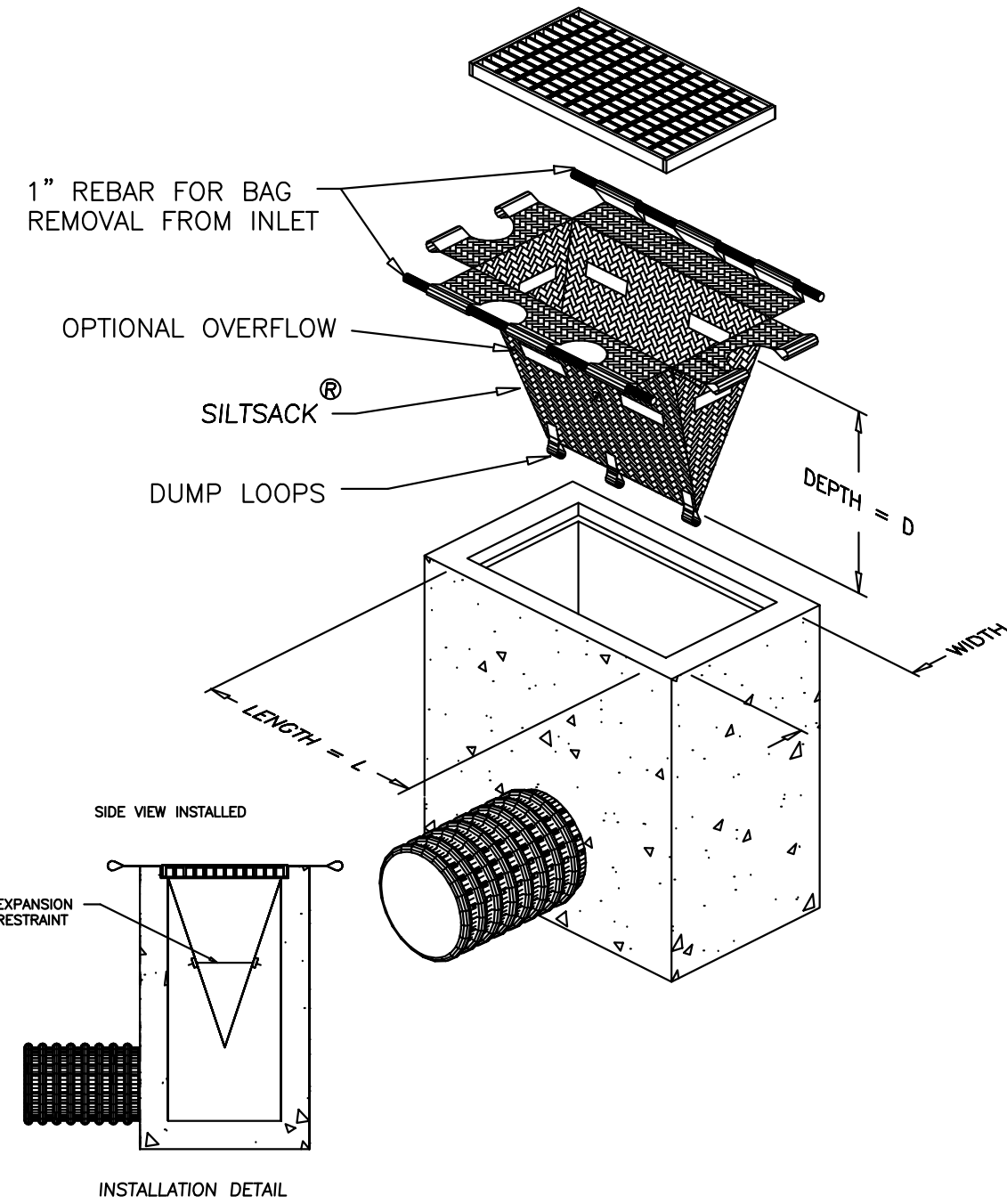
- MAINTENANCE**
- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
 - IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING CONSTRUCTION, THE FABRIC SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
 - SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

- CONSTRUCTION SEQUENCE**
- THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
 - THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
 - SILT FENCES SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
 - FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.



SILT FENCE INSTALLATION

NOT TO SCALE
(TO BE INSTALLED AS SHOWN ON SHEET 7)



SILT SACK CONSTRUCTION SEQUENCE:

- TO INSTALL SILTSACK® IN THE CATCH BASIN, REMOVE THE GRATE AND PLACE THE SACK IN THE OPENING. HOLD OUT APPROXIMATELY SIX INCHES OF THE SACK OUTSIDE THE FRAME. THIS IS THE AREA OF THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE SACK IN PLACE.
- WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, SILTSACK® IS FULL AND SHALL BE EMPTIED.
- TO REMOVE SILTSACK®, TAKE TWO PIECES OF 1" DIAMETER REBAR AND PLACE THROUGH THE LIFTING LOOPS ON EACH SIDE OF THE SACK TO FACILITATE THE LIFTING OF SILTSACK®.
- TO EMPTY SILTSACK®, PLACE IT WHERE THE CONTENTS WILL BE COLLECTED. PLACE THE REBAR THROUGH THE LIFT STRAPS (CONNECTED TO THE BOTTOM OF THE SACK) AND LIFT. THIS WILL TURN SILTSACK® INSIDE OUT AND EMPTY THE CONTENTS. CLEAN OUT AND RINSE. RETURN SILTSACK® TO ITS ORIGINAL SHAPE AND PLACE BACK IN THE BASIN.
- SILTSACK® IS REUSABLE. ONCE THE CONSTRUCTION CYCLE IS COMPLETE, REMOVE SILTSACK® FROM THE BASIN AND CLEAN.

SILTSACK®

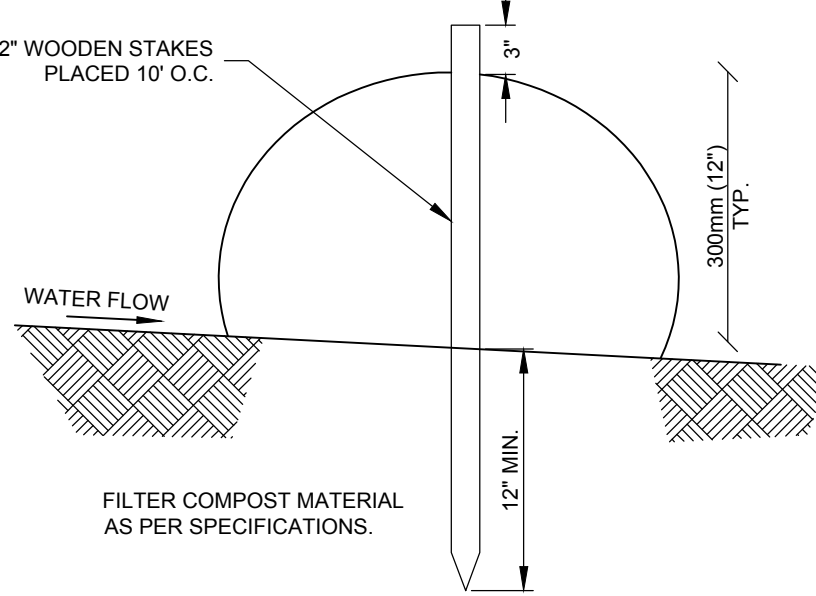
NOT TO SCALE
SILTSACK TO BE INSTALLED IN EXISTING CATCH BASINS 1264, 1546, & 1547 AND ALL PROPOSED CATCH BASINS

NOTES

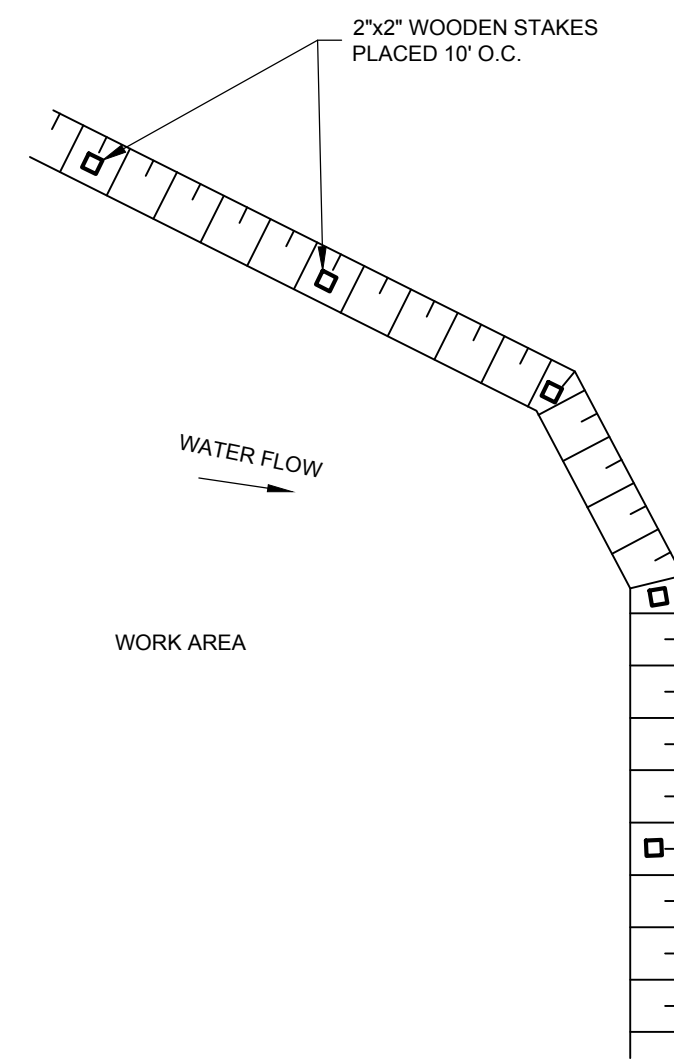
- ALL MATERIAL TO MEET FILTREXX™ SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTER BERM IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
- WHERE THE BERM REQUIRES REPAIR, IT WILL BE ROUTINELY REPAIRED.
- THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE BERM WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE BERM, OR AS DIRECTED BY THE ENGINEER.
- THE COMPOST FILTER BERM WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.

SOCK OPTION:

FILTREXX™ FILTER SOCK, SIZED TO SUIT CONDITIONS.
300mm TO 450mm (12" TO 18") TYPICAL.

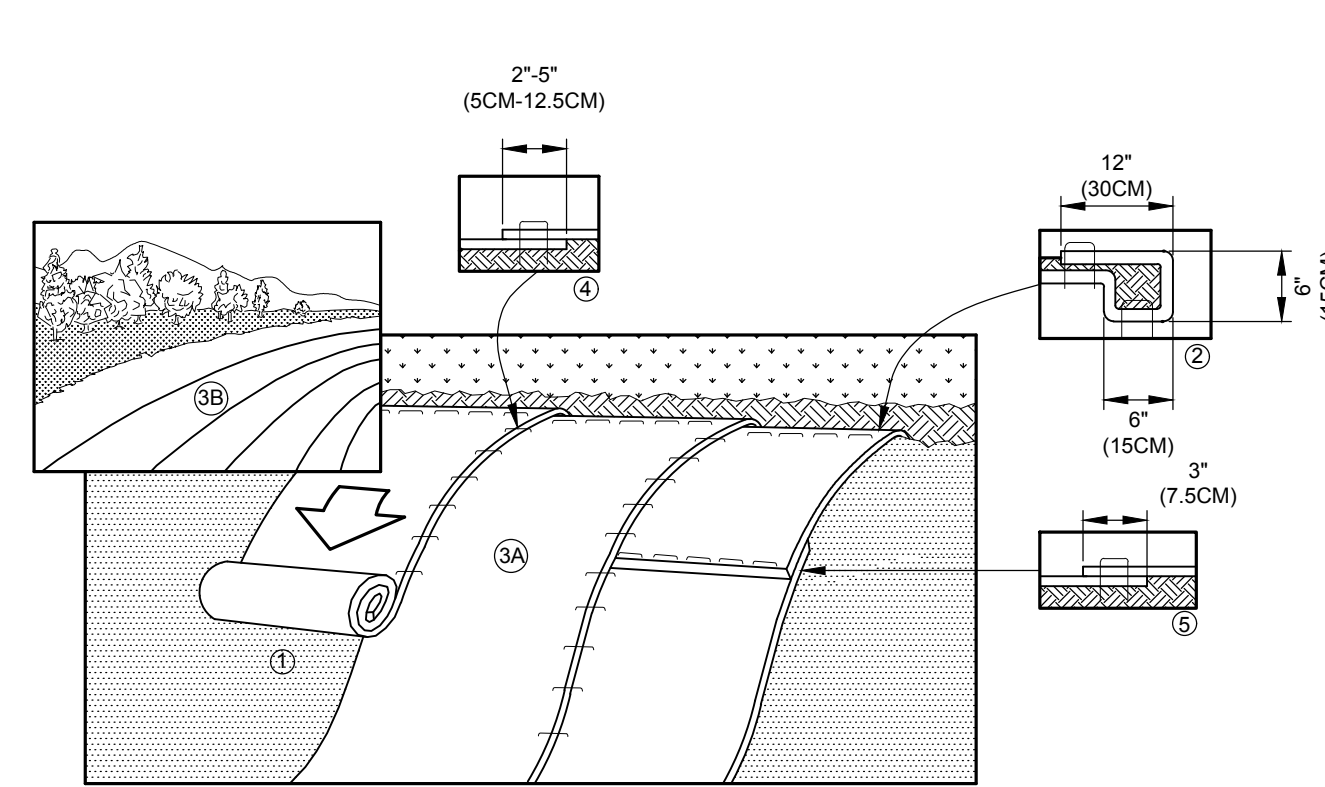


TYPICAL BERM FOR MINIMAL GRADES SHOWN.
FOR STEEPER GRADES, I.E. 2:1 SLOPES
INCREASE BERM SIZE AS DETERMINED ON
SITE BY ENGINEER.



SILT SOCK INSTALLATION DETAIL

NOT TO SCALE



SLOPE INSTALLATION

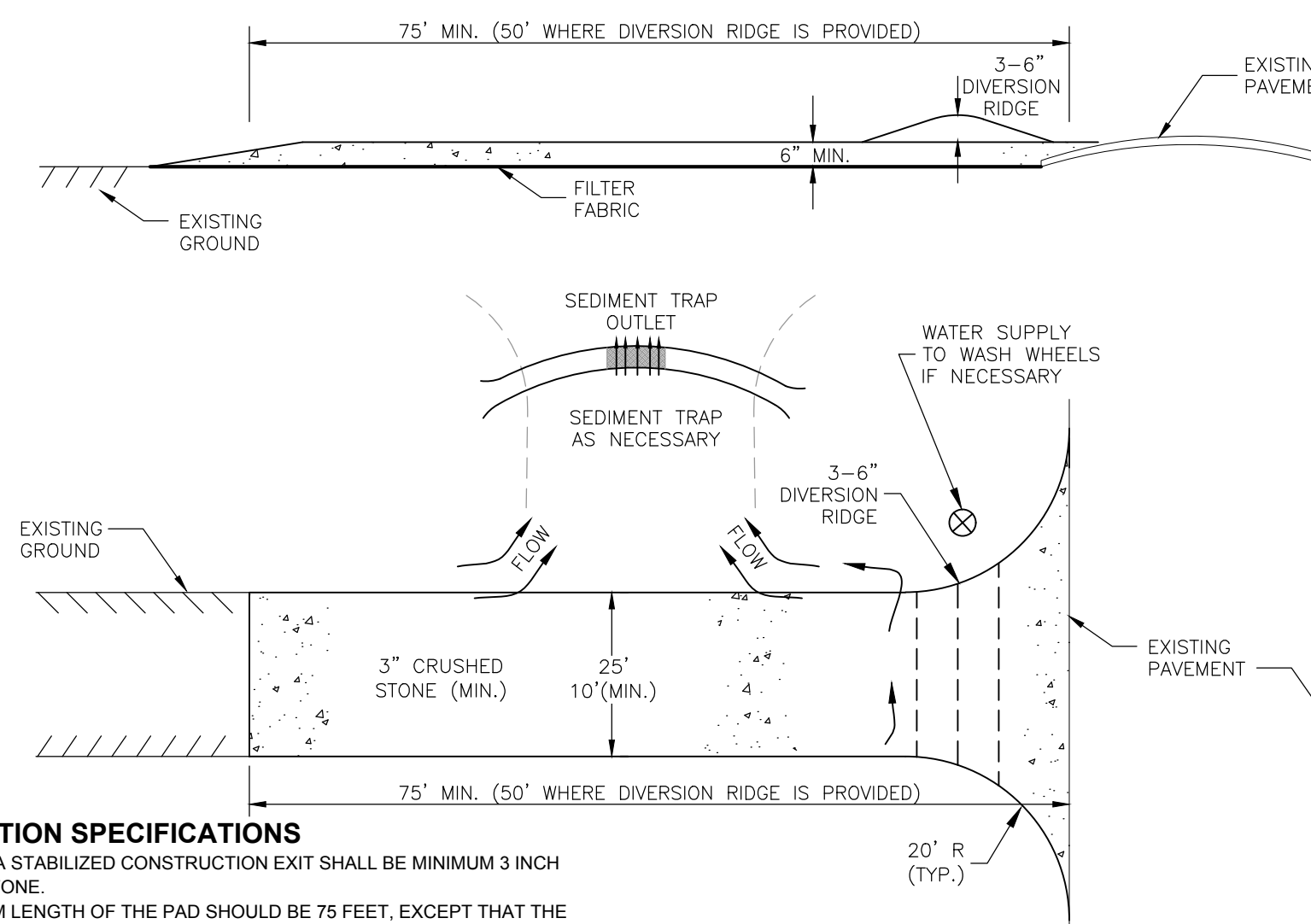
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. SEE MANUFACTURER'S SPECIFICATIONS FOR REQUIREMENTS.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15CM) DEEP X 6" (15CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30CM) APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2'-5" (61CM) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30CM) APART ACROSS ENTIRE BLANKET WIDTH.

NOTES:

- GEONATURAL EROSION CONTROL BLANKETS (WOVEN JUTE MATS) BIODEGRADABLE SHORT-TERM EROSION CONTROL MAT OR EQUAL SHALL BE USED.
- NO PLASTIC NETTING ON EROSION CONTROL BLANKETS SHALL BE USED.
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DO NOT SCALE DRAWINGS.
- IN LOOSE SOIL CONDITIONS THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS

ROLLED EROSION CONTROL PRODUCT

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

- STONE FOR A STABILIZED CONSTRUCTION EXIT SHALL BE MINIMUM 3 INCH CRUSHED STONE.
- THE MINIMUM LENGTH OF THE PAD SHOULD BE 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH HIGH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
- THE THICKNESS OF THE STONE FOR THE STABILIZED EXIT SHALL NOT BE LESS THAN 6 INCHES.
- THE PAD SHOULD EXTEND THE FULL WIDTH OF THE CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS GREATER.
- GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
- ALL SURFACE WATER SHALL BE DIRECTED AWAY FROM THE EXIT. IF WATER IS FLOWING TOWARD THE EXIT, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE ADDED.
- THE PAD SHOULD BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE Voids IN THE STONE SUCH THAT THE CONTROL PAD BECOMES INEFFECTIVE AND MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE.
- NATURAL DRAINAGE THAT CROSSES THE LOCATION OF THE STONE PAD SHOULD BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.

MAINTENANCE

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

TEMPORARY GRAVEL CONSTRUCTION EXIT

NOT TO SCALE

CONSTRUCTION SEQUENCE

- INSTALL PERIMETER EROSION CONTROL MEASURES. TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATION. EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE, AUGUST 1992, OR THE NEW HAMPSHIRE STORMWATER MANUAL, DECEMBER 2008.
- CUT AND CLEAR TREES. IDENTIFY TREES TO BE SAVED AND INSTALL PROTECTIVE FENCES AROUND THESE TREES. CUT TREES, CLEAR AND DISPOSE OF DEBRIS.
- INSTALL OTHER EROSION CONTROL MEASURES. TEMPORARY AND PERMANENT EROSION, SEDIMENT AND DETENTION PRACTICES - INCLUDING PONDS AND SWALES - SHALL BE INSTALLED PRIOR TO ROUGH GRADING. PERMANENT STORMWATER TREATMENT SYSTEMS ARE TO BE CONSTRUCTED AND SEEDED AS SOON AS PRACTICAL SO THAT VEGETATION MAY BE ESTABLISHED PRIOR TO DIRECTING RUNOFF TO THEM. ADDITIONAL STORMWATER MANAGEMENT PRACTICES SHALL BE IMMEDIATELY INSTALLED WHEN NECESSARY AND APPROPRIATE DURING CONSTRUCTION.
- PROTECT DRAINAGE STRUCTURES. DURING CONSTRUCTION, ALL DRAINAGE INLETS SHALL BE PROTECTED BY INSTALLING A GEOTEXTILE BARRIER UNDER THE GRATE OR BY INSTALLING A STONE CHECK DAM AROUND THE PERIMETER OF THE GRATE.
- CLEAR AND GRUB. STRIP ORGANIC SOILS. LOAM SHALL BE STRIPPED FROM THE SITE AS REQUIRED. THE SMALLEST PRACTICAL AREA SHALL BE EXPOSED AT ANY TIME AND SHALL NOT EXCEED ONE ACRE. UNSTABILIZED SOIL SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 45 DAYS AFTER INITIAL DISTURBANCE.
- STABILIZE STOCKPILES. SOIL STOCKPILES SHALL BE LOCATED AND PROTECTED TO MINIMIZE EROSION. INSTALL SILT FENCING AROUND THE BASE OF ALL STOCKPILES ON THE DOWNHILL SIDE.
- INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES. ALL PRACTICES ARE TO BE INSPECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD ACCORDING TO RECOMMENDED SCHEDULED, BUT AT LEAST ONCE PER WEEK, AND DURING RAINFALL EVENTS IN WHICH 1/2 INCH OF PRECIPITATION OR MORE FALLS WITHIN A 24 HOUR PERIOD. THE BOTTOM OF SEDIMENT BASINS SHALL BE PERIODICALLY CLEANED, WITH SEDIMENT REMOVED TO A SECURE LOCATION. ALL DAMAGED SILT FENCES SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL BE PERIODICALLY REMOVED.
- GRADE AND FILL AREAS TO BE PAVED. ROADWAYS AND PARKING LOTS SHALL BE GRADED, AND UNDERGROUND UTILITIES SHALL BE INSTALLED. GRAVEL SHALL BE INSTALLED AS SOON AS PRACTICAL. THESE AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. ALL FILL MATERIAL SHALL BE FREE FROM STUMPS, ROOTS, WOOD, ETC.
- STABILIZE DISTURBED AREAS. BEGIN SEED AND MULCH OF ALL DISTURBED AREAS AS SOON AS PRACTICAL, BUT NO LATER THAN THREE DAYS AFTER FINAL GRADING. ALL CUT AND FILL SLOPES SHALL BE SEED AND MULCHED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. A MINIMUM OF 8" OF LOAM SHALL BE INSTALLED, WITH SEED, LIME, AND FERTILIZER APPLIED AS PRESCRIBED BY NIDES IN THE "NH STORMWATER MANUAL, VOLUME 3, EROSION & SEDIMENT CONTROLS DURING CONSTRUCTION", DECEMBER 2008, ON PAGES 54-58.
- FINISH PAVING AND GRAVEL SURFACING. INSTALL FINISH PAVING OR GRAVEL ON ROADWAYS AND PARKING LOTS.
- COMPLETE PERMANENT SEEDING AND LANDSCAPING. SPREAD LOAM AND STABILIZE PER PLANS AND SPECIFICATIONS, AS PRESCRIBED BY NIDES IN THE "NH STORMWATER MANUAL, VOLUME 3, EROSION & SEDIMENT CONTROLS DURING CONSTRUCTION", DECEMBER 2008, ON PAGES 60-67.
- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - 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; OR
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- REMOVE TEMPORARY EROSION CONTROL MEASURES. AFTER CONSTRUCTION IS COMPLETED AND THE AREAS ARE STABILIZED (MINIMUM 85% VEGETATIVE COVER, BASE COURSE GRAVELS INSTALLED, 3" NON-EROSIVE MATERIAL INSTALLED, OR EROSION CONTROL BLANKET INSTALLED) IN THE DISTURBED AREAS, THE AREAS IN AND AROUND THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE CLEANED UP, WITH CARE BEING TAKEN NOT TO ALLOW THE ACCUMULATION OF SILT TO RUN INTO THE WETLANDS AND / OR PROTECTED AREAS. AFTER CLEAN-UP, THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AND THE AREA RETURNED AS NEAR AS POSSIBLE TO ITS NATURAL STATE.
- WINTER CONSTRUCTION NOTES:
 - ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 30, OR WHICH ARE DISTURBED AFTER NOVEMBER 30, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
 - ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 30, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
 - AFTER NOVEMBER 30, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM 3" OF CRUSHED GRAVEL PER (NHDOT ITEM 304.3).
- MINIMUM REQUIREMENTS THE EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE THE MINIMUM NECESSARY DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ADEQUATE EROSION CONTROL PRACTICES ARE EMPLOYED TO PREVENT EROSION AND SEDIMENTATION TO ADJACENT PROPERTIES, ROADS, OR DRAINAGE SYSTEMS.

1	Revise per AoT Comments	4/26/2017
No.	Revision	Date
Designed by: JRB		Checked by: GRF
Drawn by: JRB		

Construction Details
Niyati Realty, LLC
289 Pinewood Road
Allenstown, NH
Assessors Map 409 Lot 32

SFC
ENGINEERING

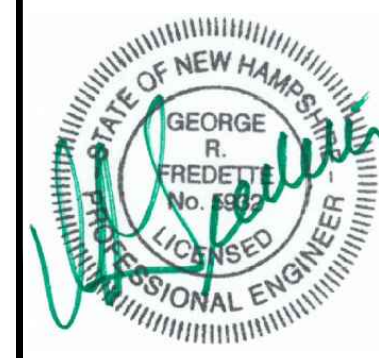
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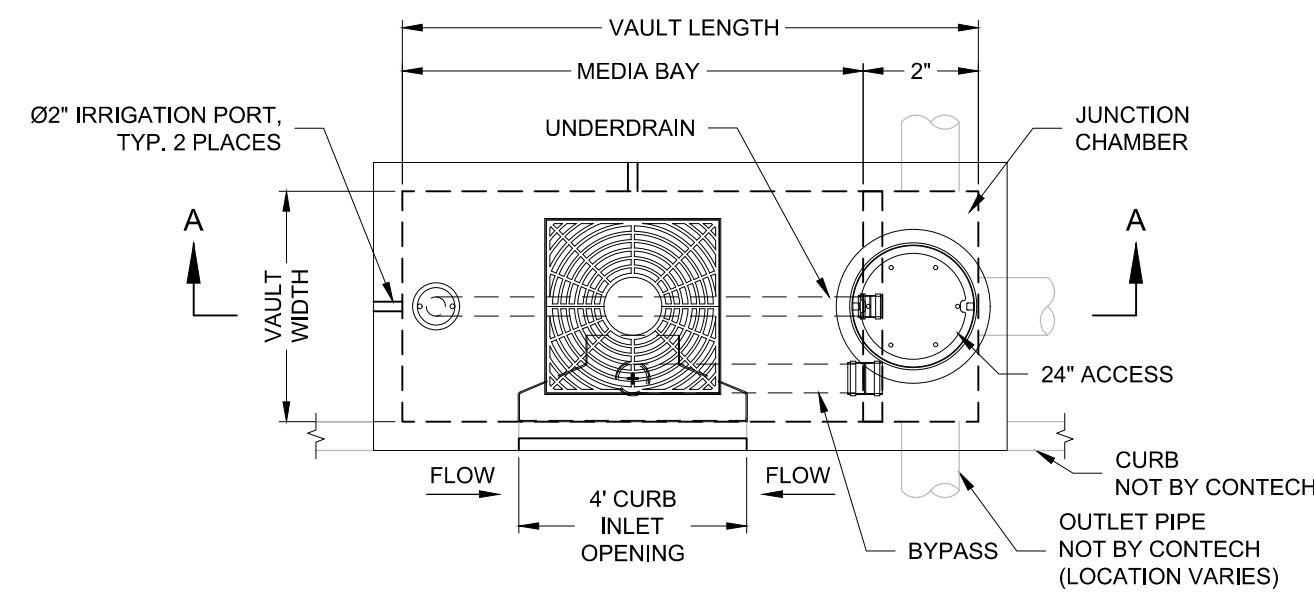
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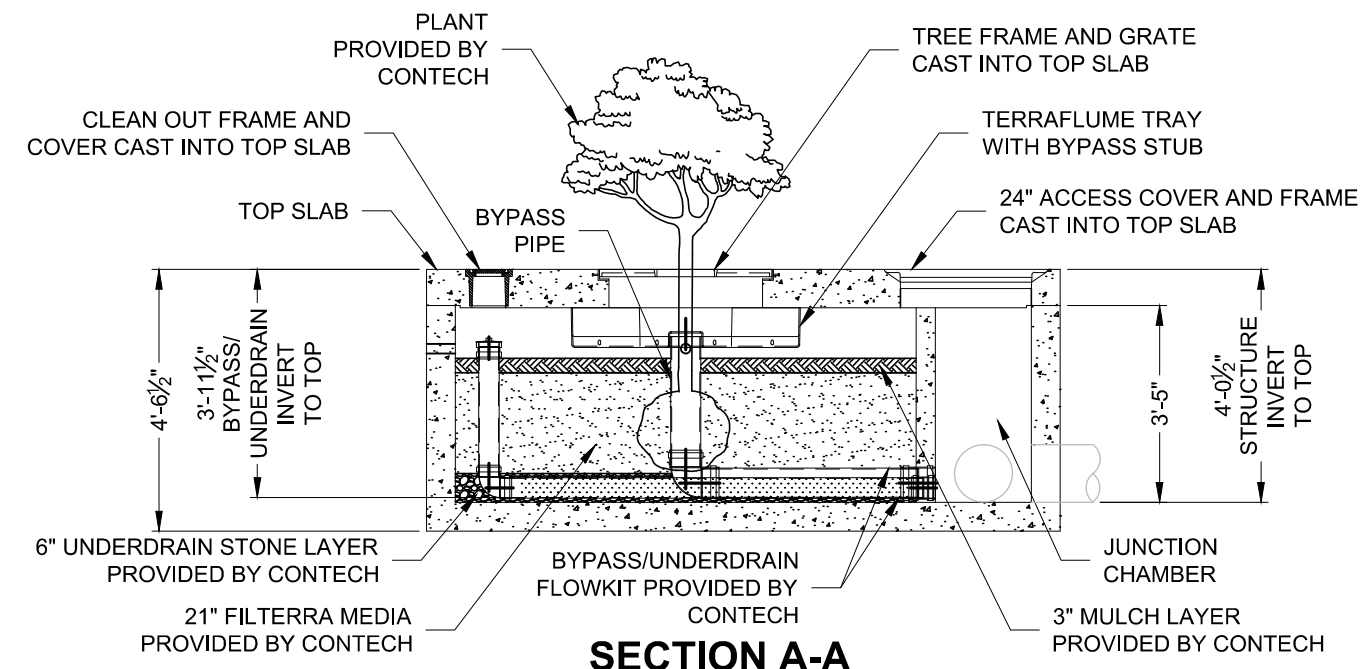
Prepared for:
Niyati Realty, LLC
239 Steam Mill Road
Auburn, NH 03032

Allenstown Planning Board
Approval

Zoning Classification: Open Space & Farming



PLAN VIEW

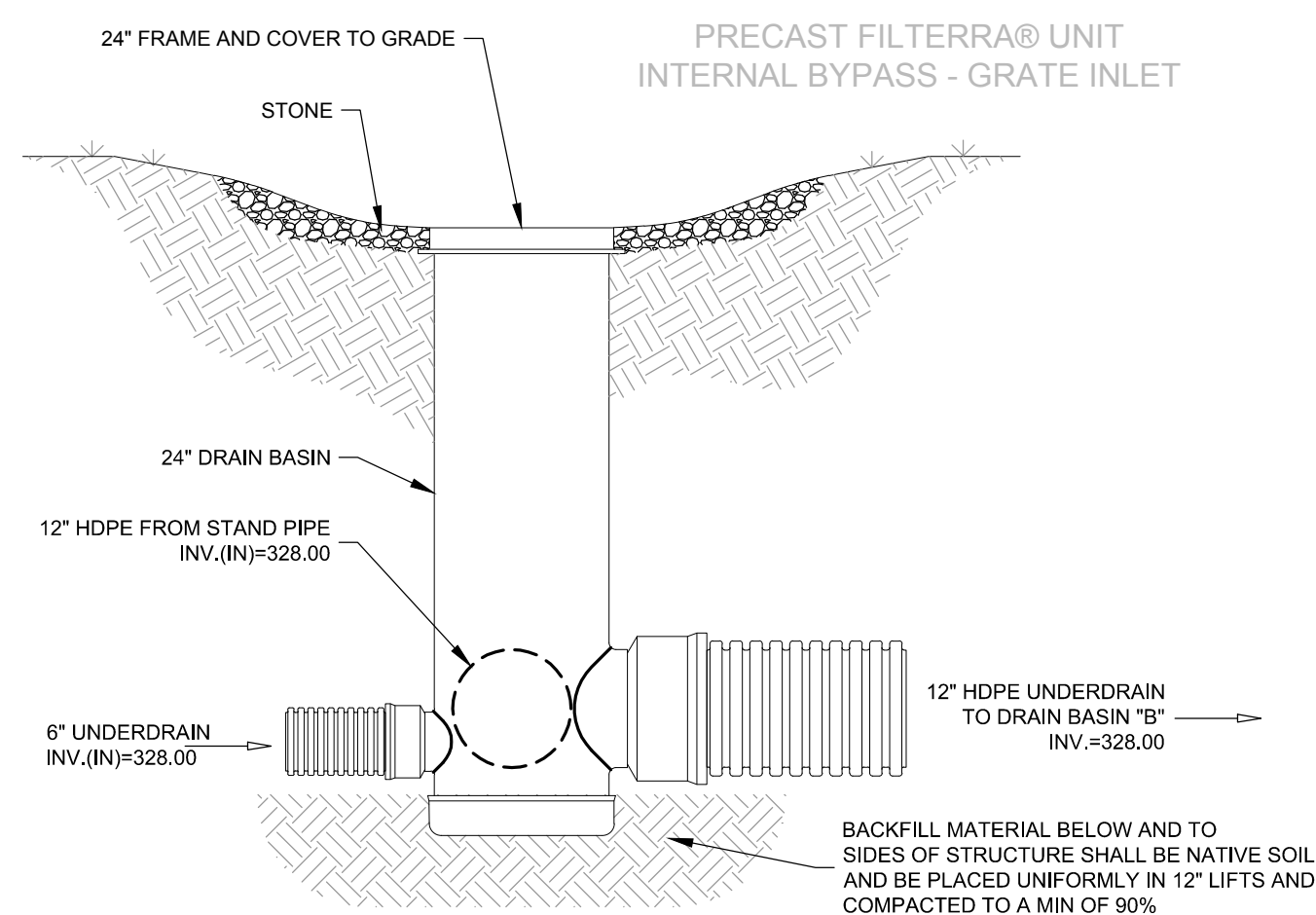


SECTION A-A

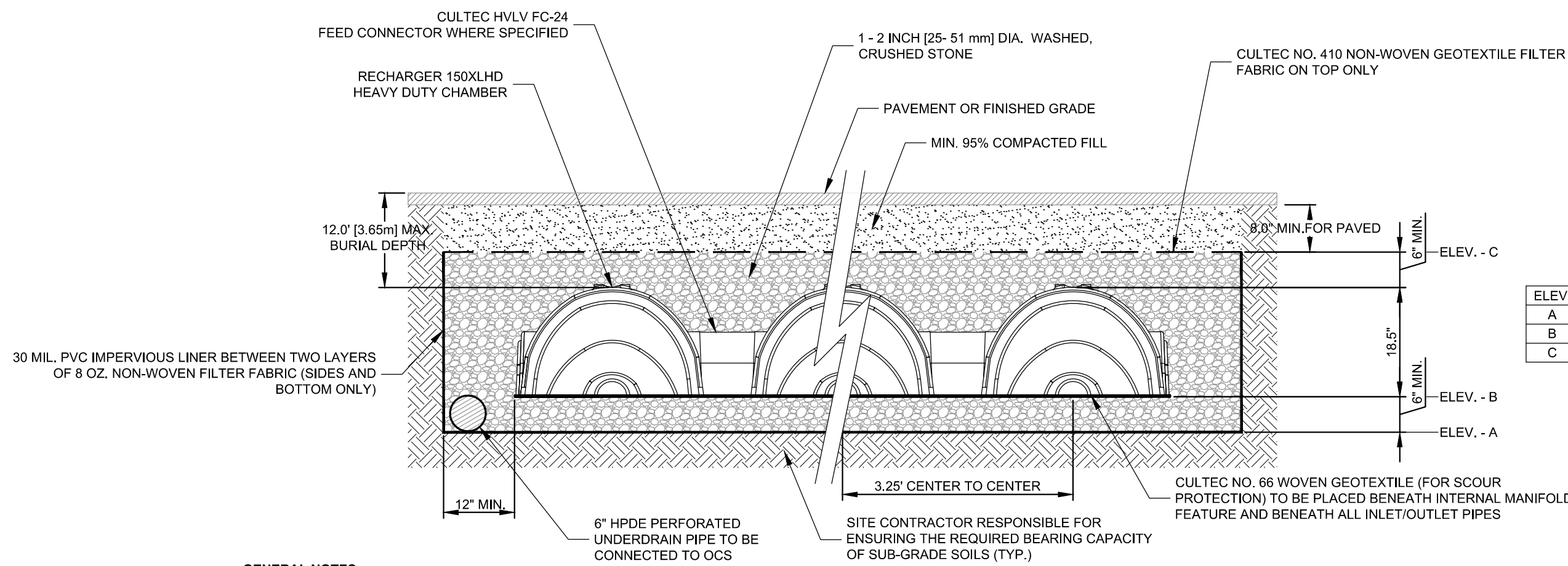
FILTERRA LONG SIDE CURB INLET								
DESIGNATION (PLAN VIEW)	DESIGNATION (PART NUMBER)	SIZE (MEDIA BAY)	VAULT LENGTH	VAULT WIDTH	MAX. BYPASS PIPE SIZE	MAX. BYPASS FLOW (CFS)	UNDERDRAIN PIPE DIA. (PERF.)	TREE GRATE QTY. & SIZE
FILTERRA "A,C,D"	FTBIC-C0804	8' x 4'	10'-0"	4'-0"	8" SDR 35	1.89	4" SDR 35	(1) 3' x 3'
FILTERRA "B"	FTBIC-C0806	8' x 6'	10'-0"	6'-0"	10" SDR 35	2.37	4" SDR 35	(1) 4' x 4'

INTERNAL PIPE CONFIGURATION MAY VARY DEPENDING ON VAULT SIZE

FILTERRA DETAIL
NOT TO SCALE



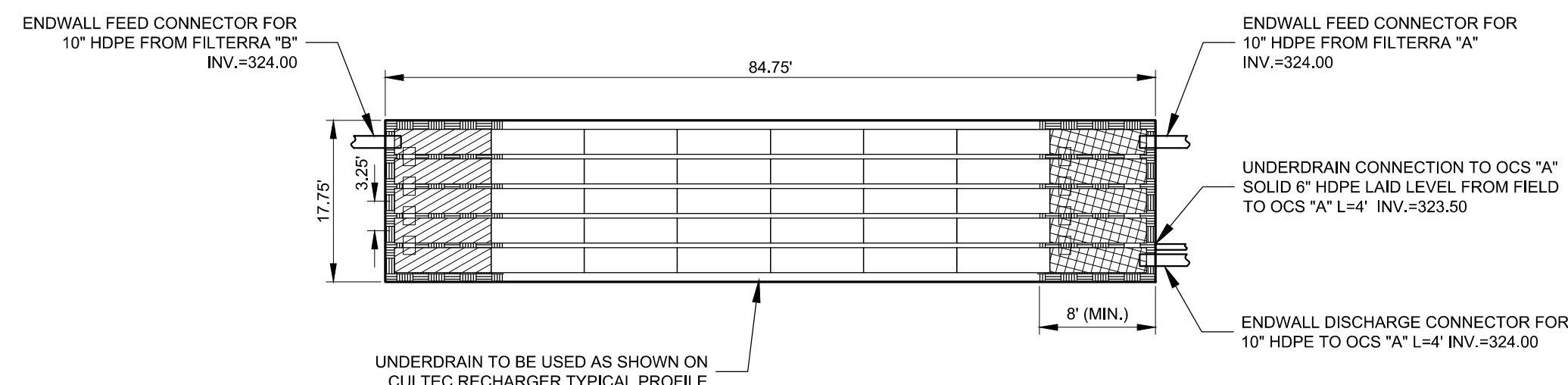
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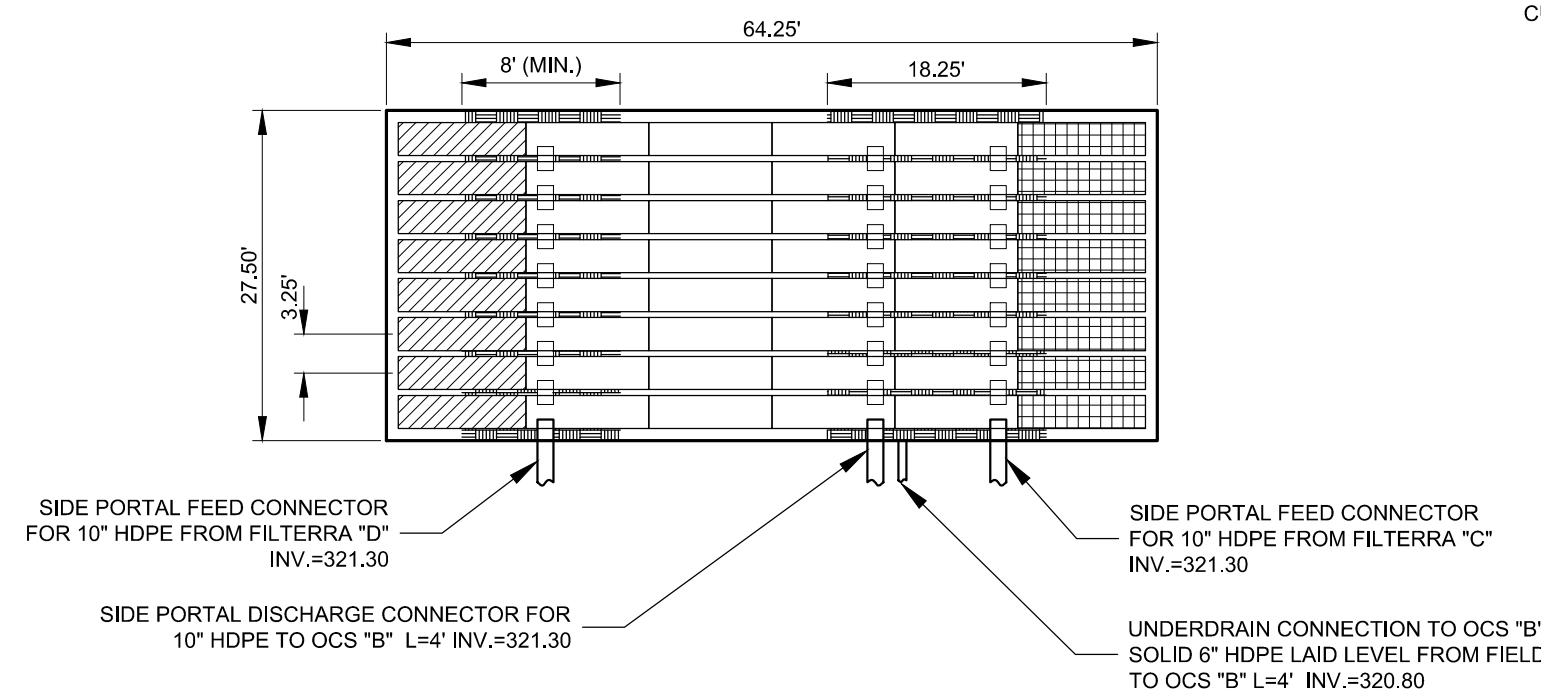
GENERAL NOTES

RECHARGER 150XLHD BY CULTEC, INC. OF BROOKFIELD, CT. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12\"/>

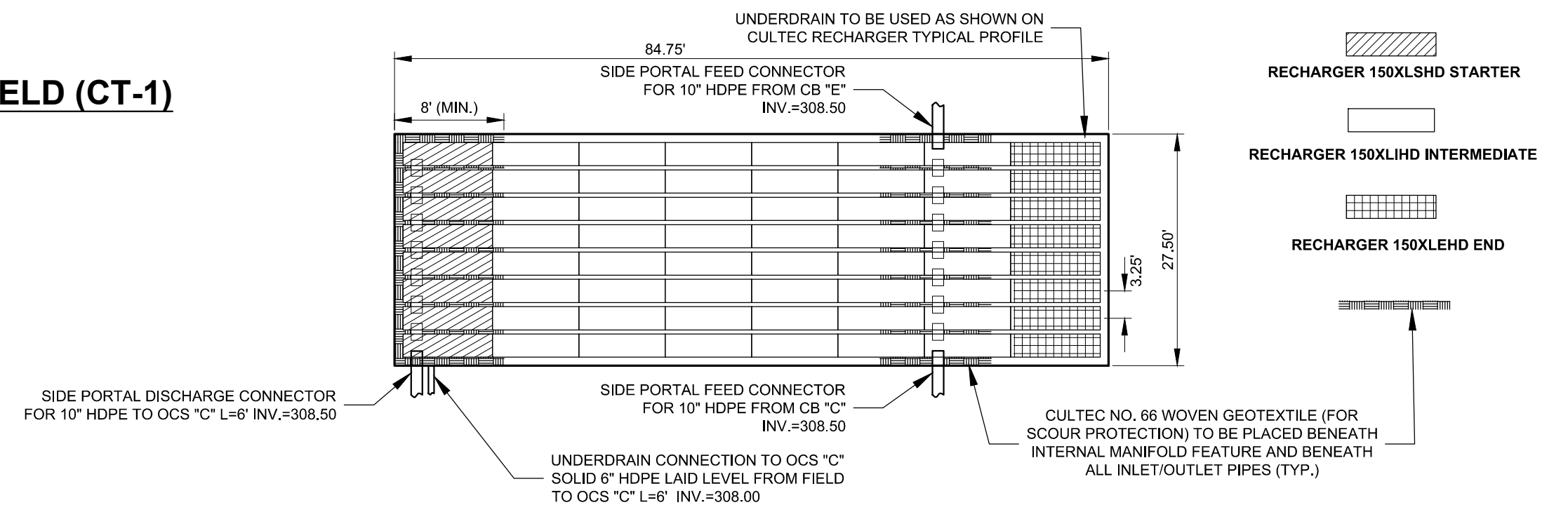
CULTEC RECHARGER TYPICAL PROFILE VIEW
NOT TO SCALE



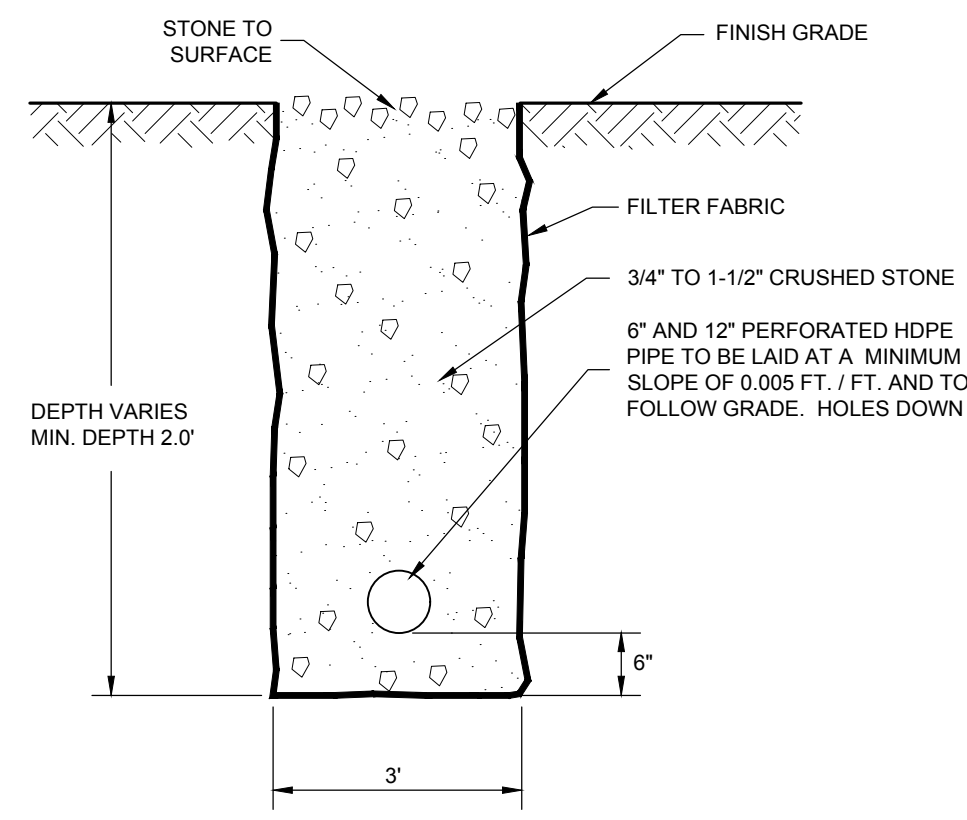
CULTEC RECHARGER FIELD (CT-1)
NOT TO SCALE



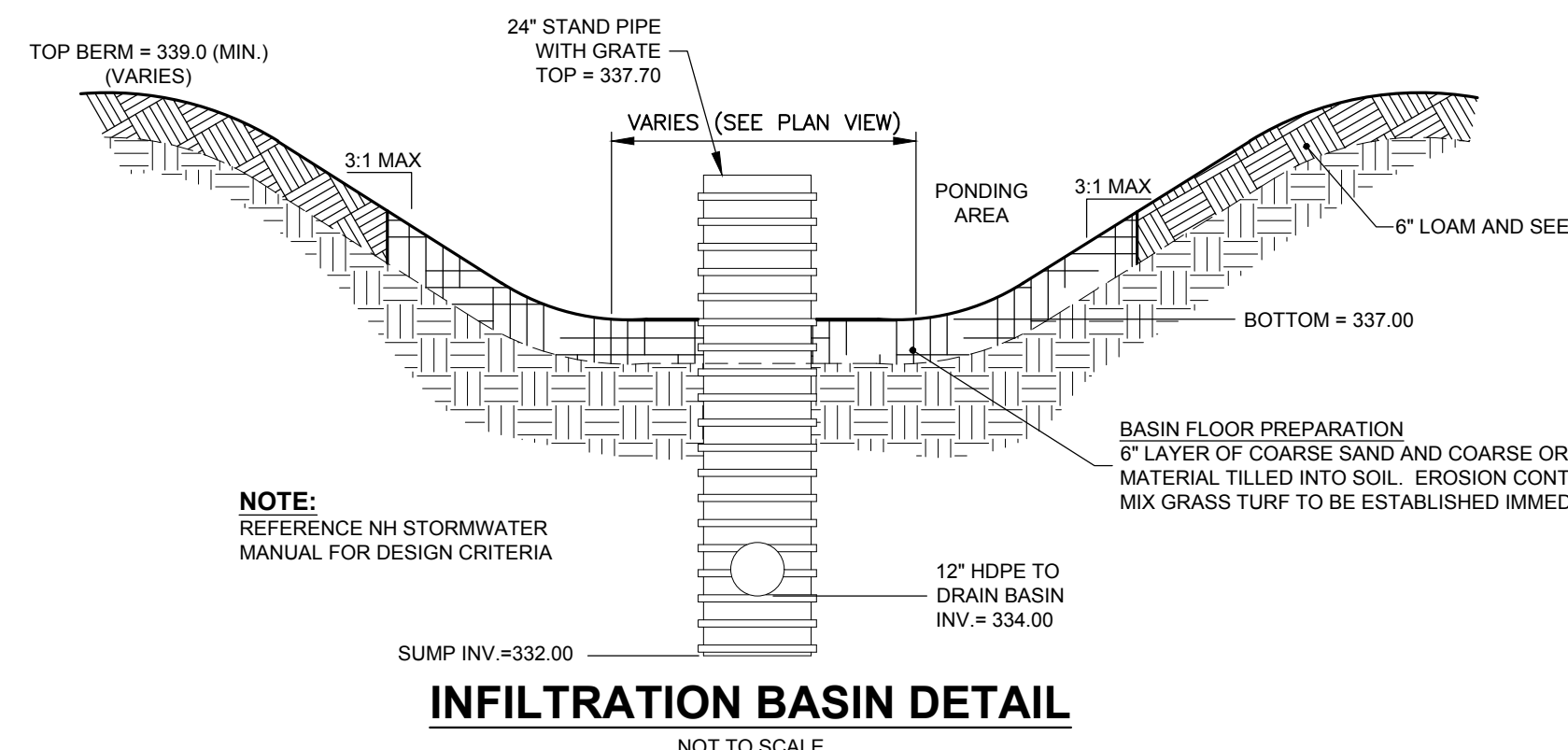
CULTEC RECHARGER FIELD (CT-2)
NOT TO SCALE



CULTEC RECHARGER FIELD (CT-3)
NOT TO SCALE

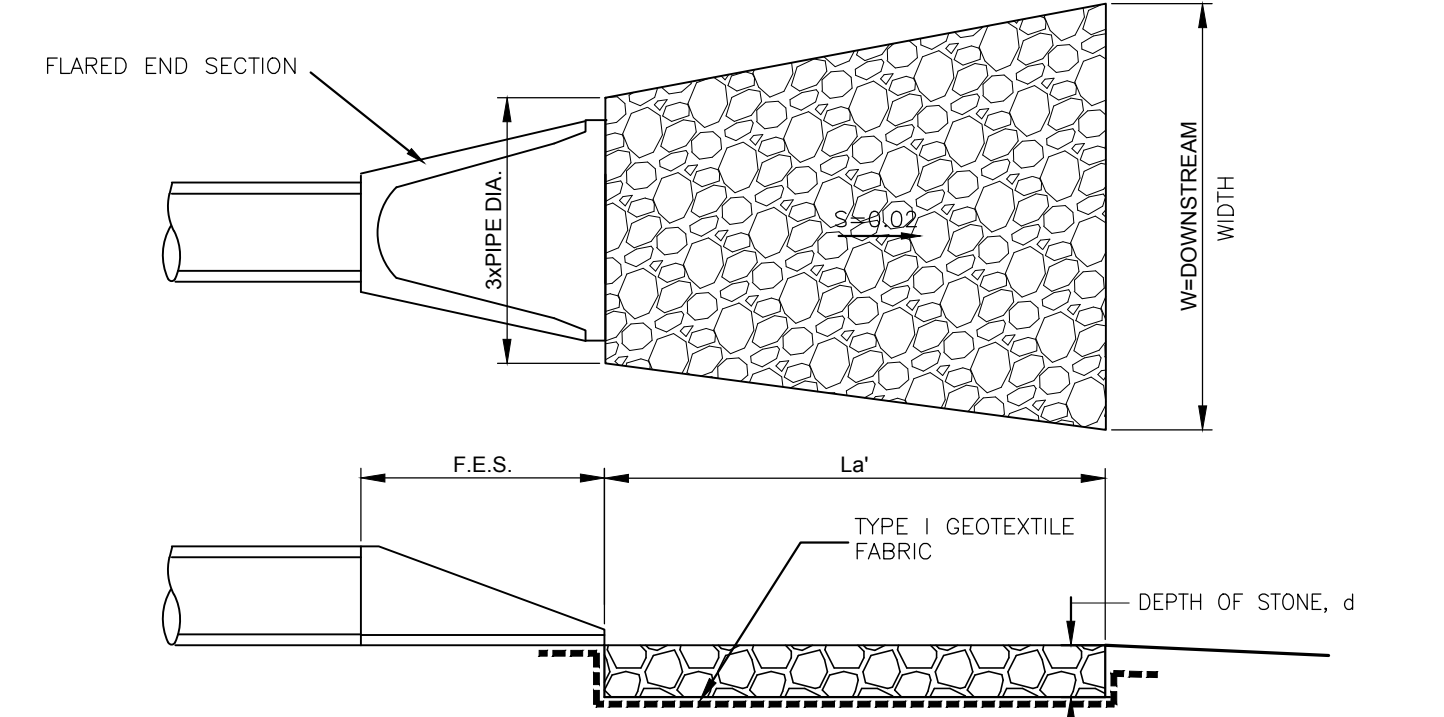


TRENCH DRAIN DETAIL
NOT TO SCALE



NOTE: REFERENCE NH STORMWATER MANUAL FOR DESIGN CRITERIA

INFILTRATION BASIN DETAIL
NOT TO SCALE



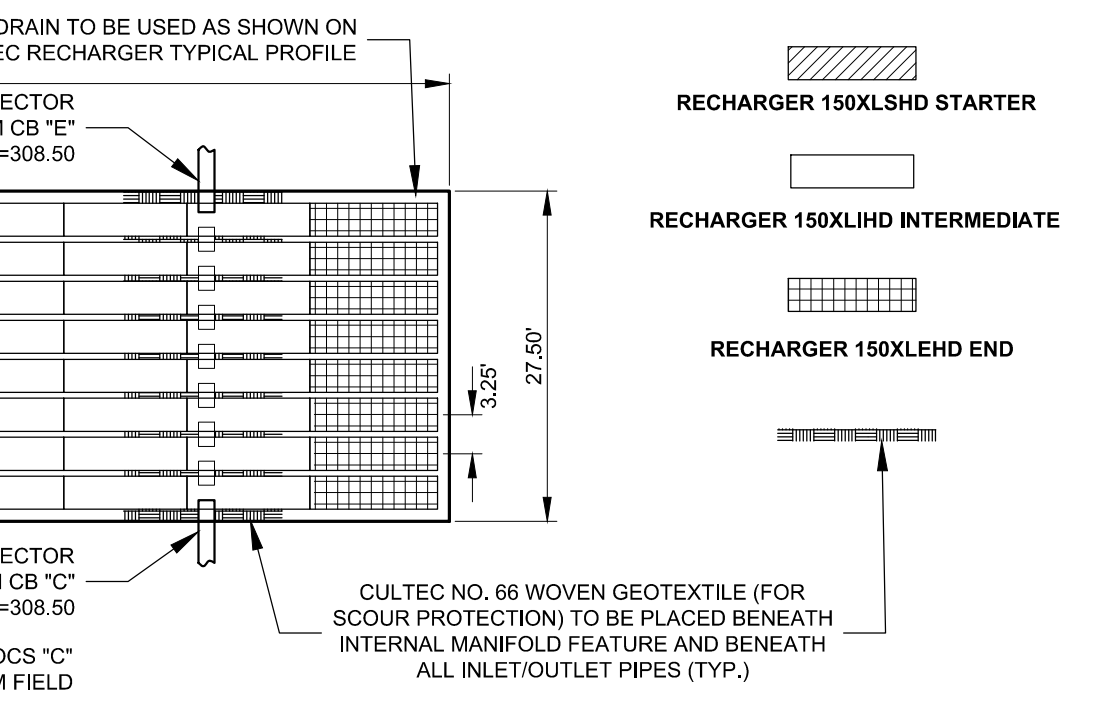
OUTLET LOCATION	DIA.	W	Lo	d	d ₅₀
FES	18"	24"	20'	16"	6"

FES RIPRAP GRADATION ENVELOPE		
% OF WEIGHT SMALLER THAN THE GIVEN SIZE	TO	SIZE OF STONE IN INCHES
100%	TO	10.2
85%	TO	9.2
50%	TO	7.6
15%	TO	2.5

CONSTRUCTION SPECIFICATIONS:

- THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIP-RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
- THE ROCK USED FOR RIP-RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
- GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP-RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
- STONE FOR THE RIP-RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

OUTLET APRON TO FLAT AREA
NOT TO SCALE



2	Site Rotation Revisions	8/24/2017
1	Revise Basin and CT-3 Details	12/7/2016
No.	Revision	Date
Designed by: JRB		Drawn by: JRB
		Checked by: GRF

Construction Details
Niyati Realty, LLC
289 Pinewood Road
Allenstown, NH
Assessors Map 409 Lot 32



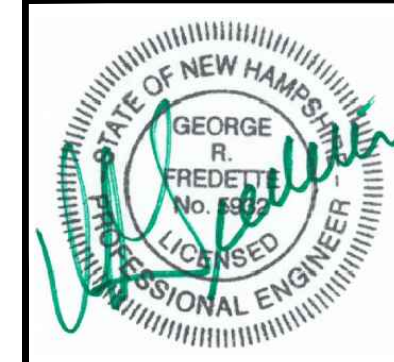
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Date: 11/23/2016



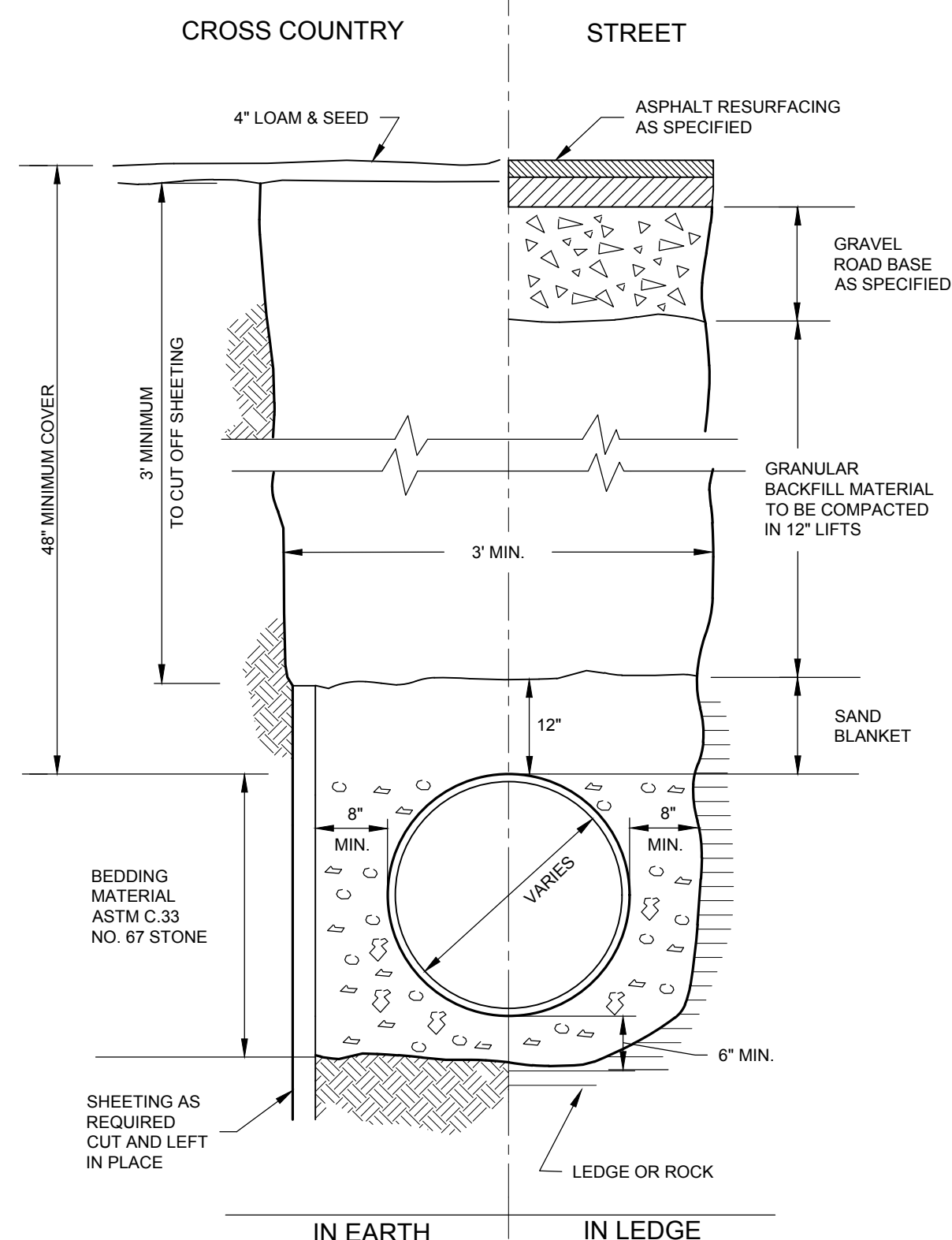
Prepared for:
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Allenstown Planning Board
Approval

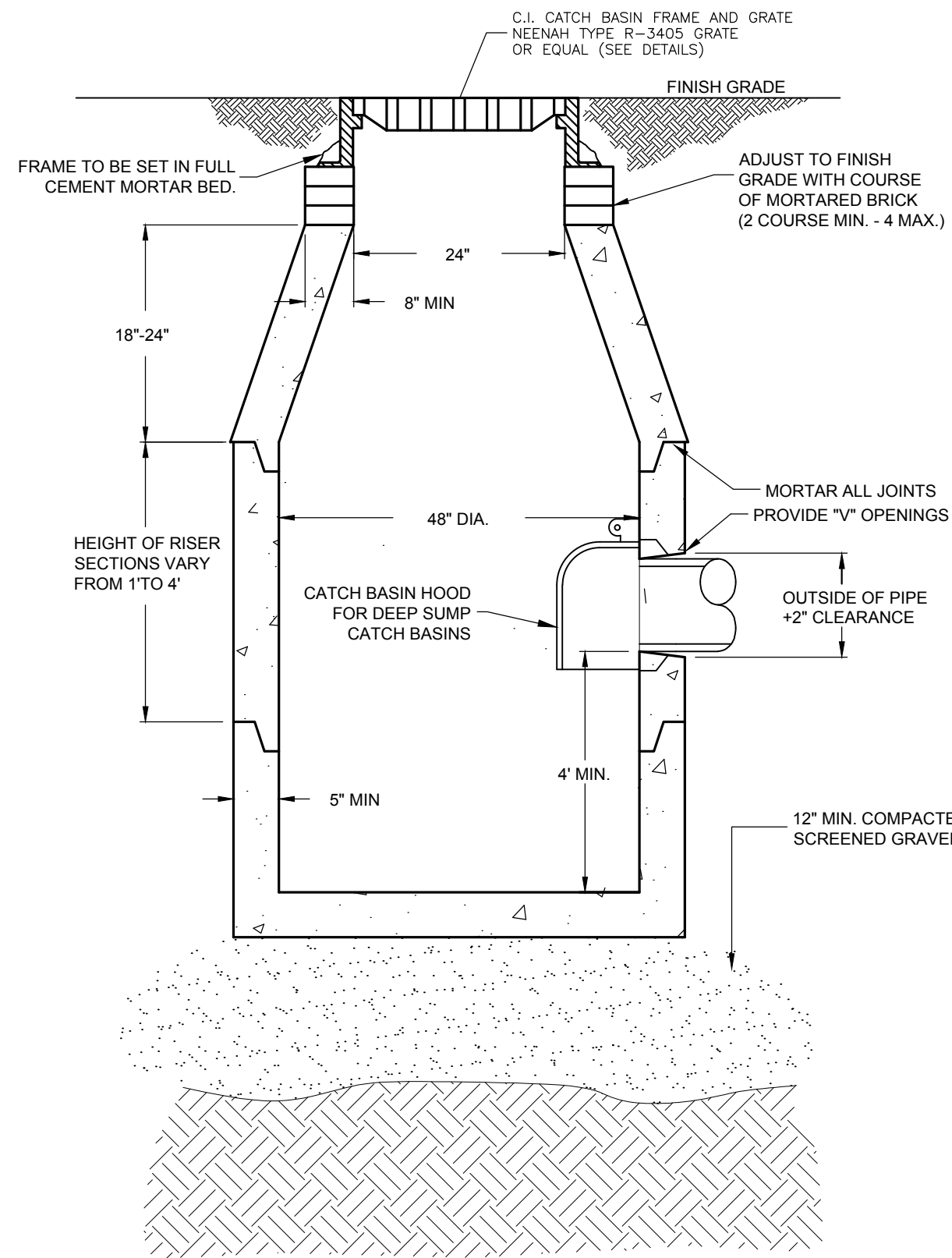
Zoning Classification: Open Space & Farming

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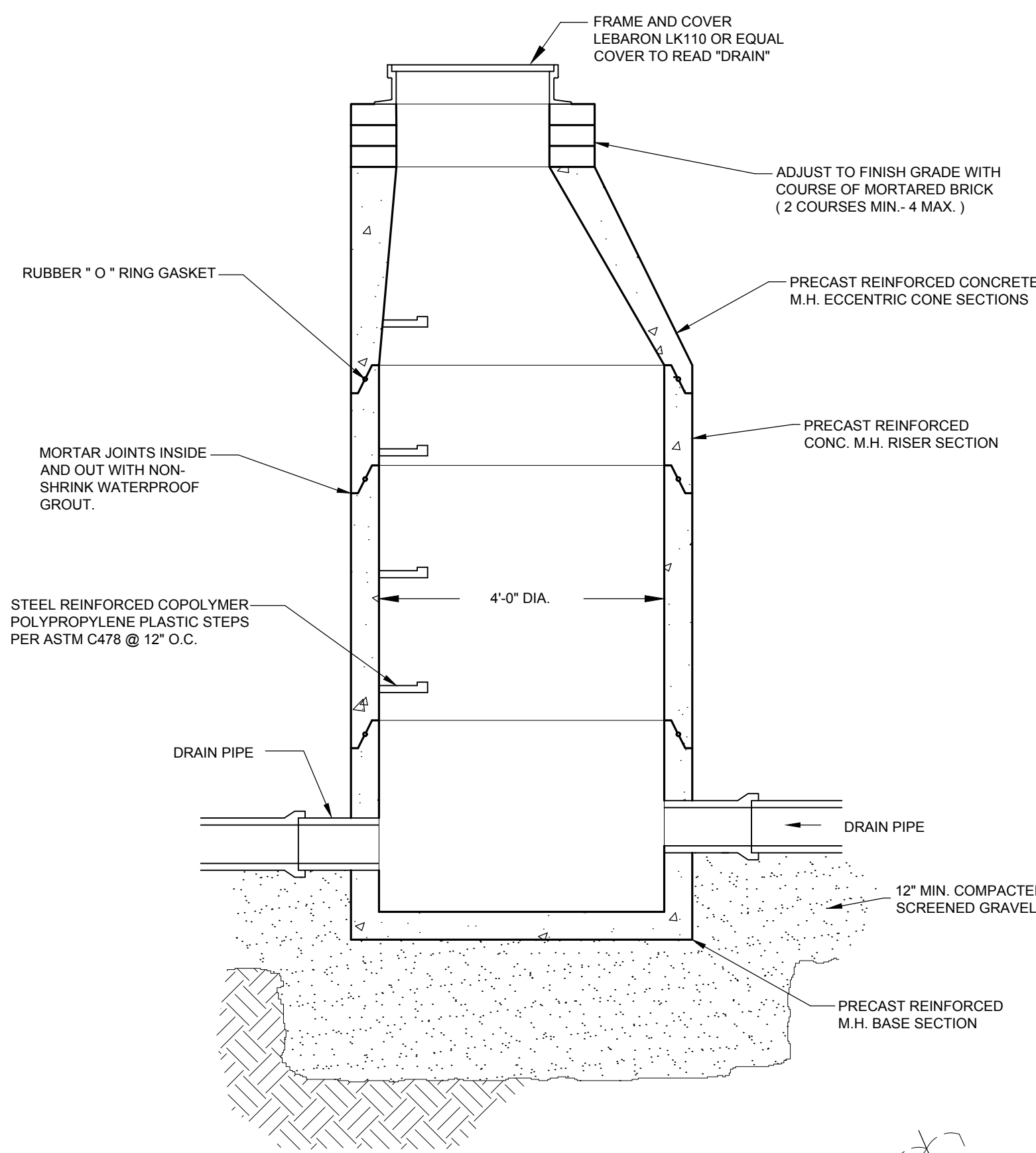
Drawing: 611001 Site Development
Layout: Construction Details - 8



TYPICAL TRENCH SECTION FOR STORM DRAIN
NOT TO SCALE



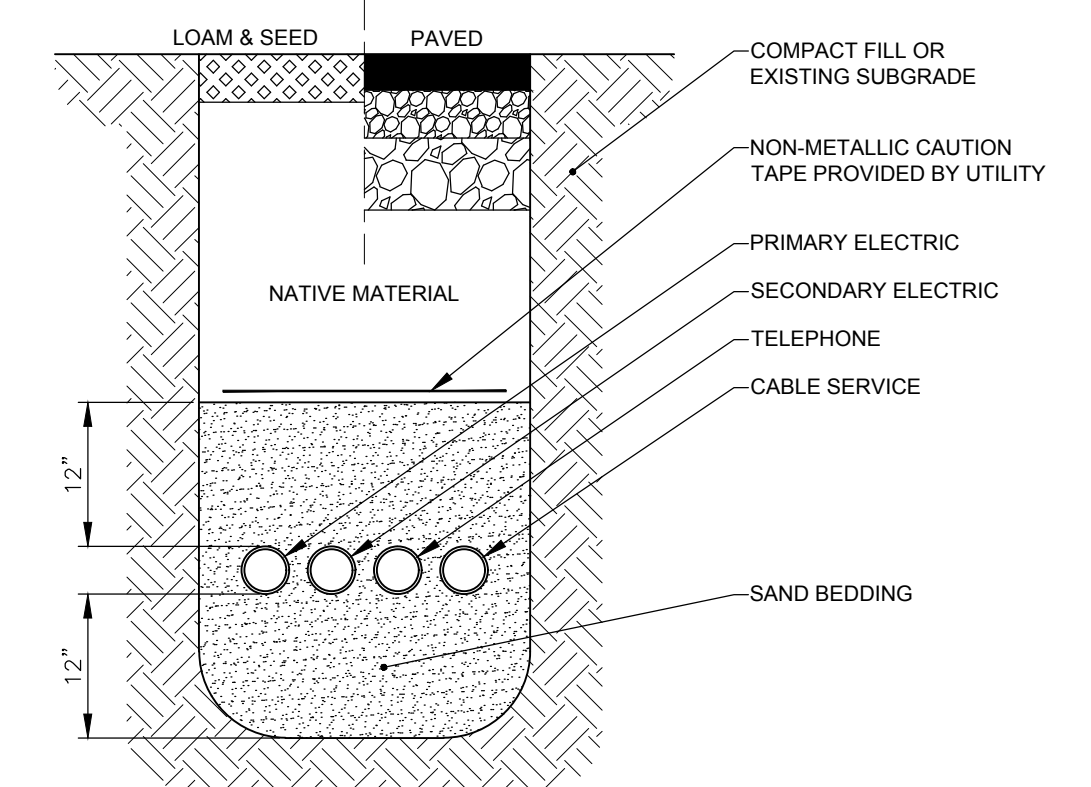
DEEP SUMP PRECAST CONCRETE CATCH BASIN
NOT TO SCALE



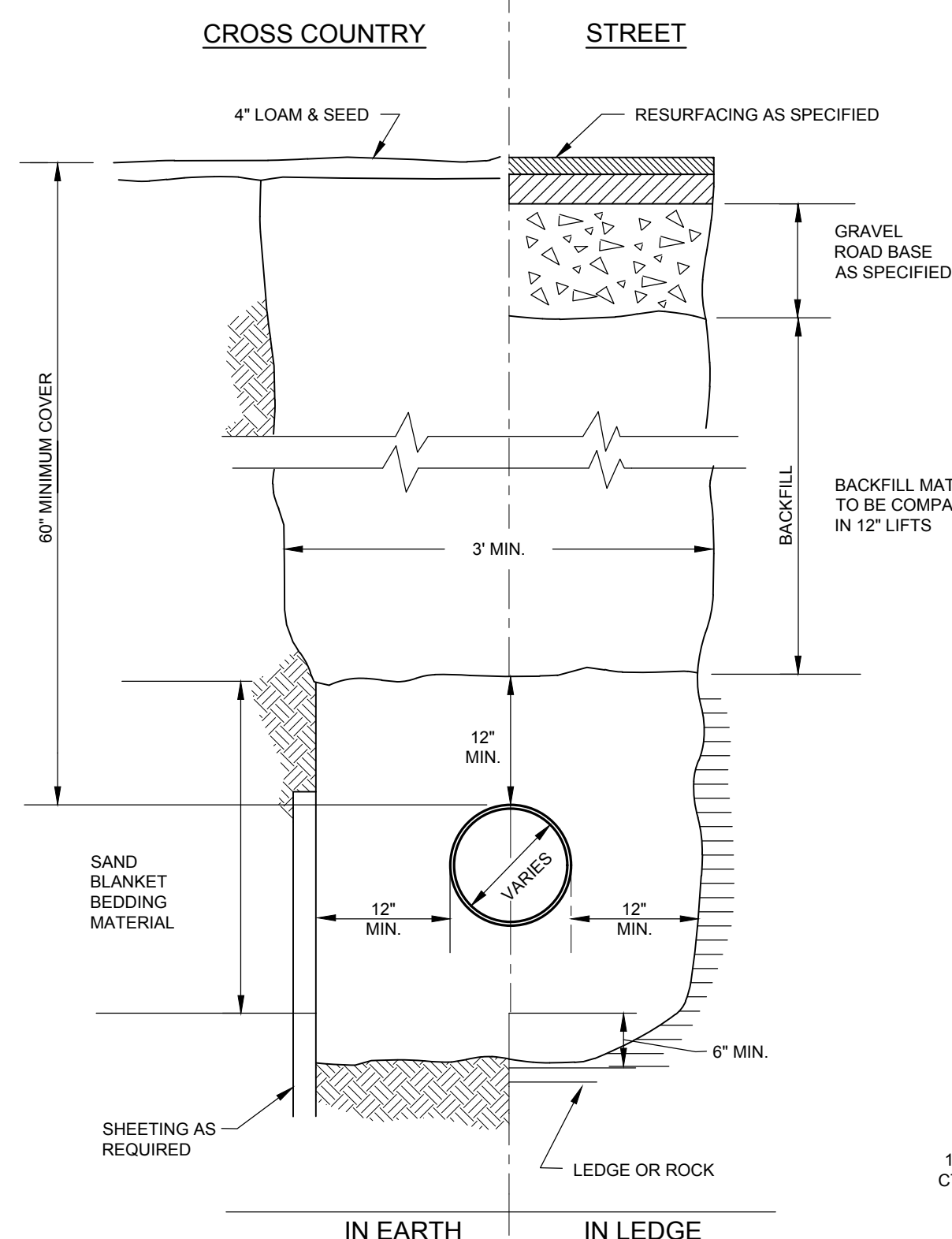
PRECAST DRAIN MANHOLE
NOT TO SCALE

TRACE WIRE NOTES:
THE TRACER WIRE SHALL BE INSTALLED ON TOP OF THE BURIED UTILITY CROWN. THE TRACER WIRE SHALL BE POSITIVELY ATTACHED TO THE NON-METALLIC BURIED UTILITIES BY PLASTIC WIRE TIES OR SIMILAR TYPE OF ATTACHMENT EVERY 10 FEET FOR STRAIGHT RUN OF UTILITY AND AT ALL CHANGES OF DIRECTION. IF TAPE IS USED IT SHALL BE POLYKEN '930-35', PROTECTO-WRAP '310', OR EQUAL. THE TERMINATION ENDS OF THE TRACER WIRE SHALL BE GROUNDED WITH 7 LB. OR LARGER ANODE BAGS WITH THE CONNECTORS HEREIN SPECIFIED.
INSTALL APPROVED CAST IRON VALVE BOXES AT ALL LOCATIONS WHERE THE ENDS OF THE TRACER WIRE ARE EXPOSED ABOVE THE FINISHED GRADE. THE BOXES SHALL CONTAIN A 24' COIL OF WIRE FROM EACH END OF THE TRACER WIRE.
TRACER WIRE SHALL BE CONTINUOUS BETWEEN BOXES AND SHALL BE TESTED FOR CONTINUITY IN THE PRESENCE OF THE INSPECTOR.
TRACER WIRE SHALL BE MINIMUM NO. 12 AWG, COPPER WIRE OR COPPER CLAD STEEL HIGH STRENGTH WITH A MINIMUM 450 LB. BREAK LOAD WITH A MINIMUM 30 MIL HDPE INSULATION THICKNESS (BLUE IN COLOR FOR USE WITH POTABLE WATER, GREEN FOR USE WITH SEWER).
CONNECTORS SHALL BE COPPERHEAD SNAKEBITE, 3M DBR OR DRY-CON TYPE CONNECTORS FOR SPECIFIED WIRE GAGE AND SUITABLE FOR USE WITH BURIED TRACER WIRE.

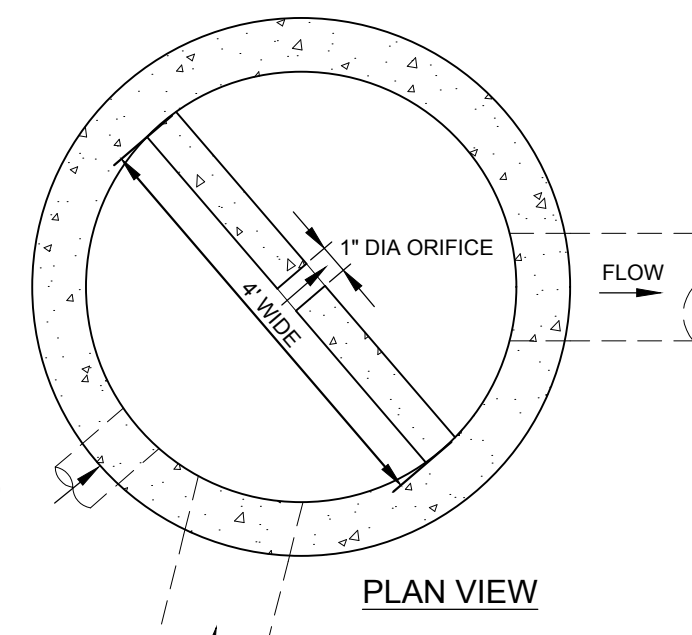
- NOTES:**
1. ALL FILL MATERIAL TO BE PLACED IN LIFTS NO GREATER THAN 12 INCHES.
 2. ALL FILL MATERIAL TO BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY.
 3. MINIMUM COVER OF THREE FEET IS REQUIRED FOR ALL CONDUIT PIPES, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 4. CONDUIT SIZE, MATERIAL, AND INSTALLATION TO MEET UTILITY COMPANIES STANDARD SPECIFICATIONS.
 5. MINIMUM TRENCH WIDTH SHALL ALLOW FOR A MINIMUM OF 6 INCH CLEARANCE FROM TRENCH SIDE WALLS.



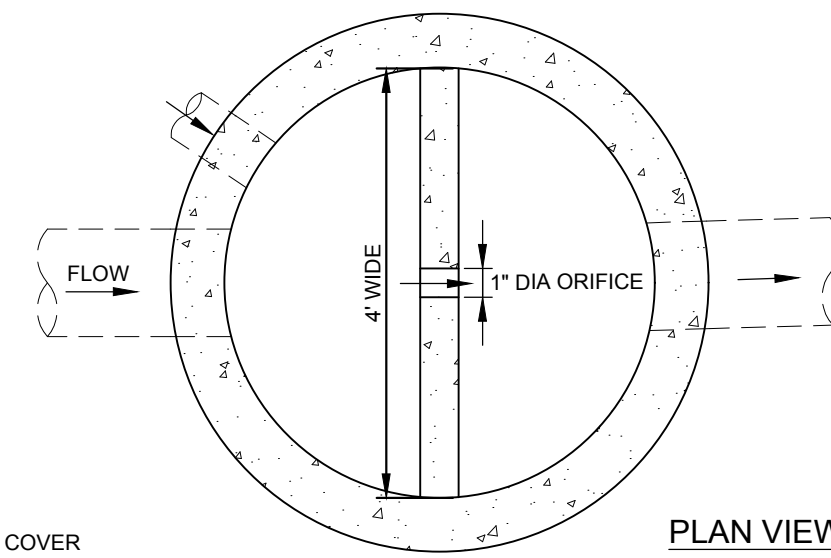
UTILITY TRENCH
NOT TO SCALE



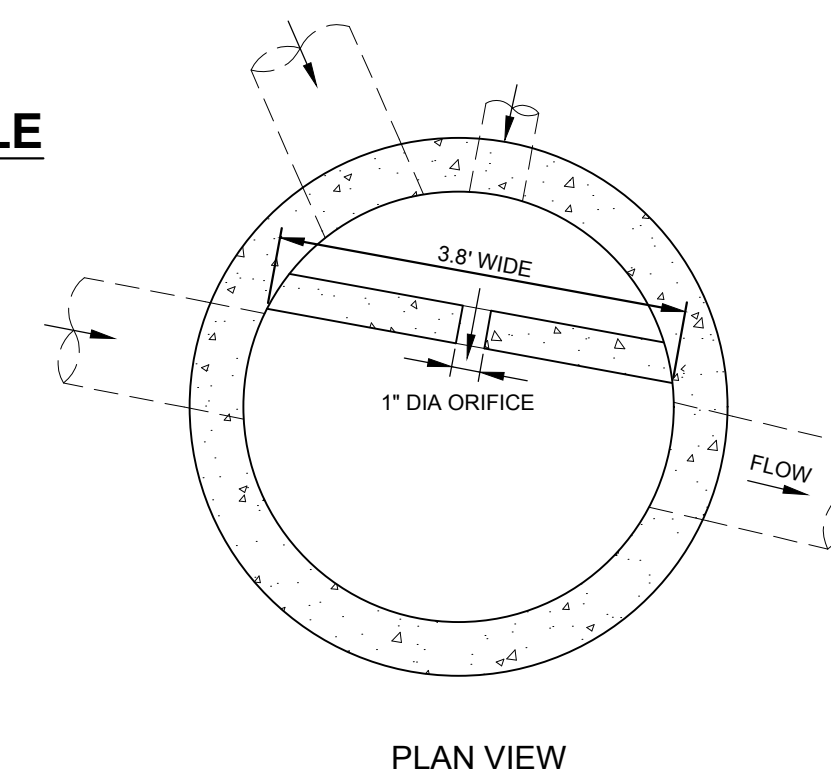
TYPICAL TRENCH SECTION FOR WATER SERVICE
NOT TO SCALE



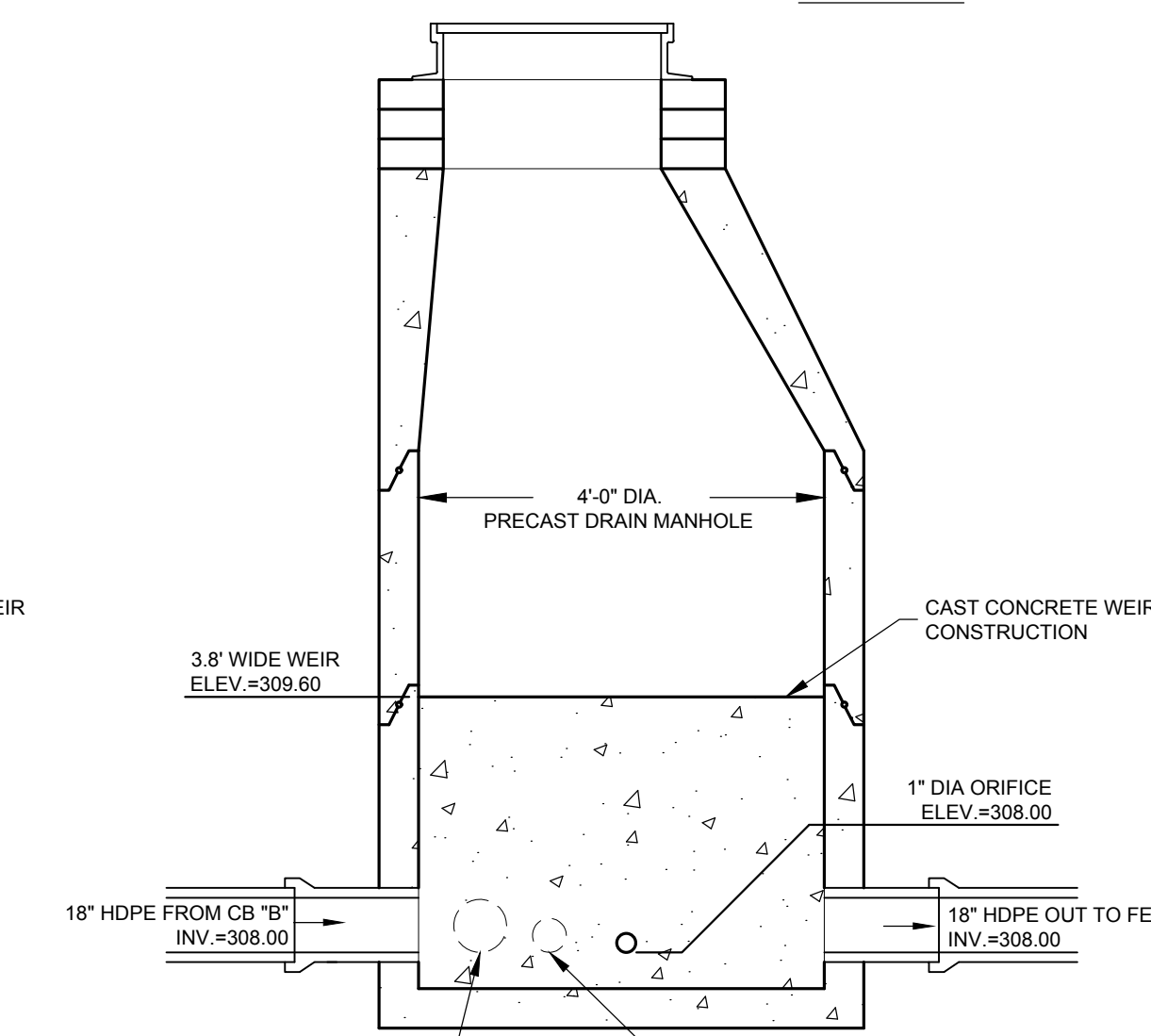
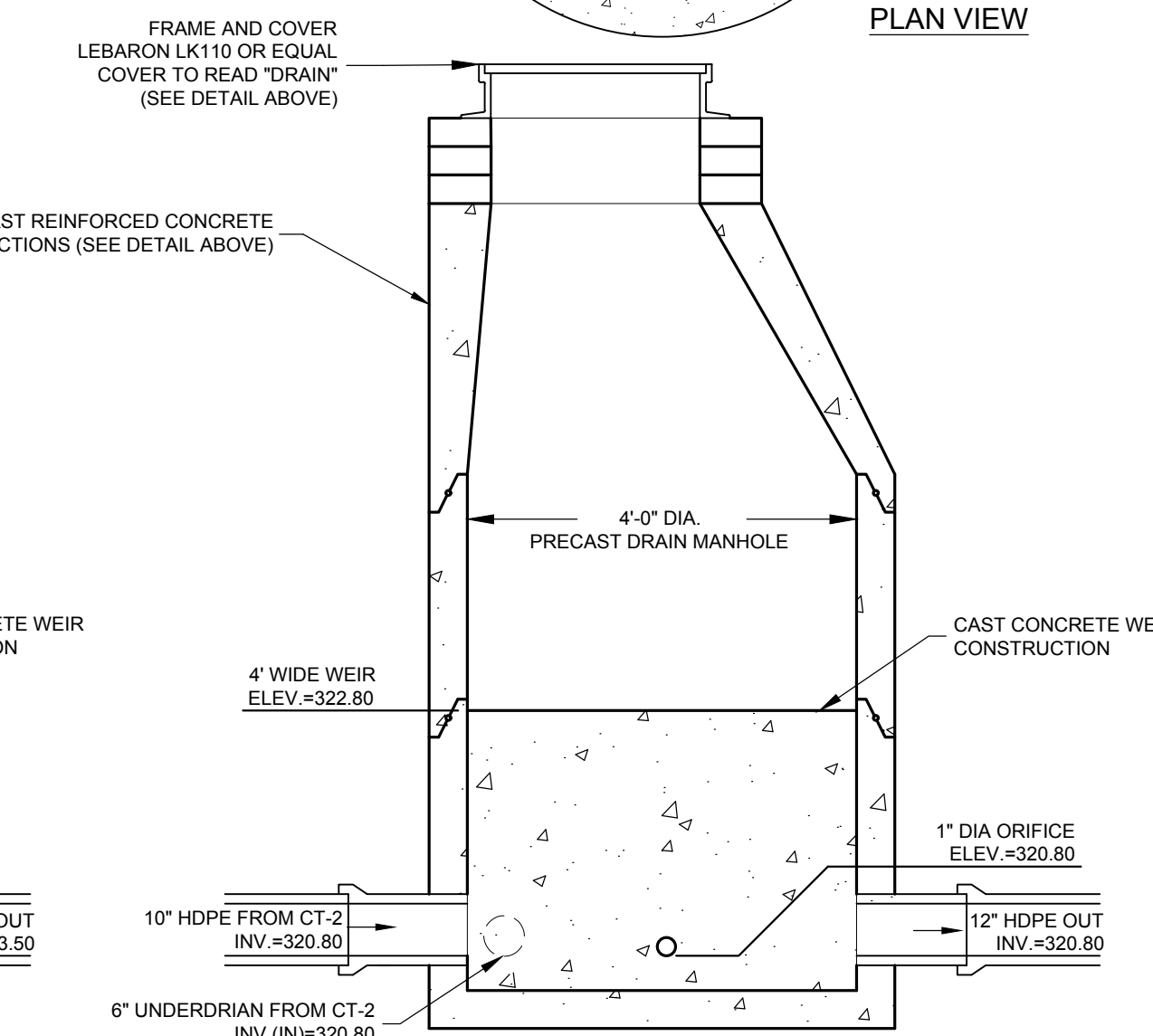
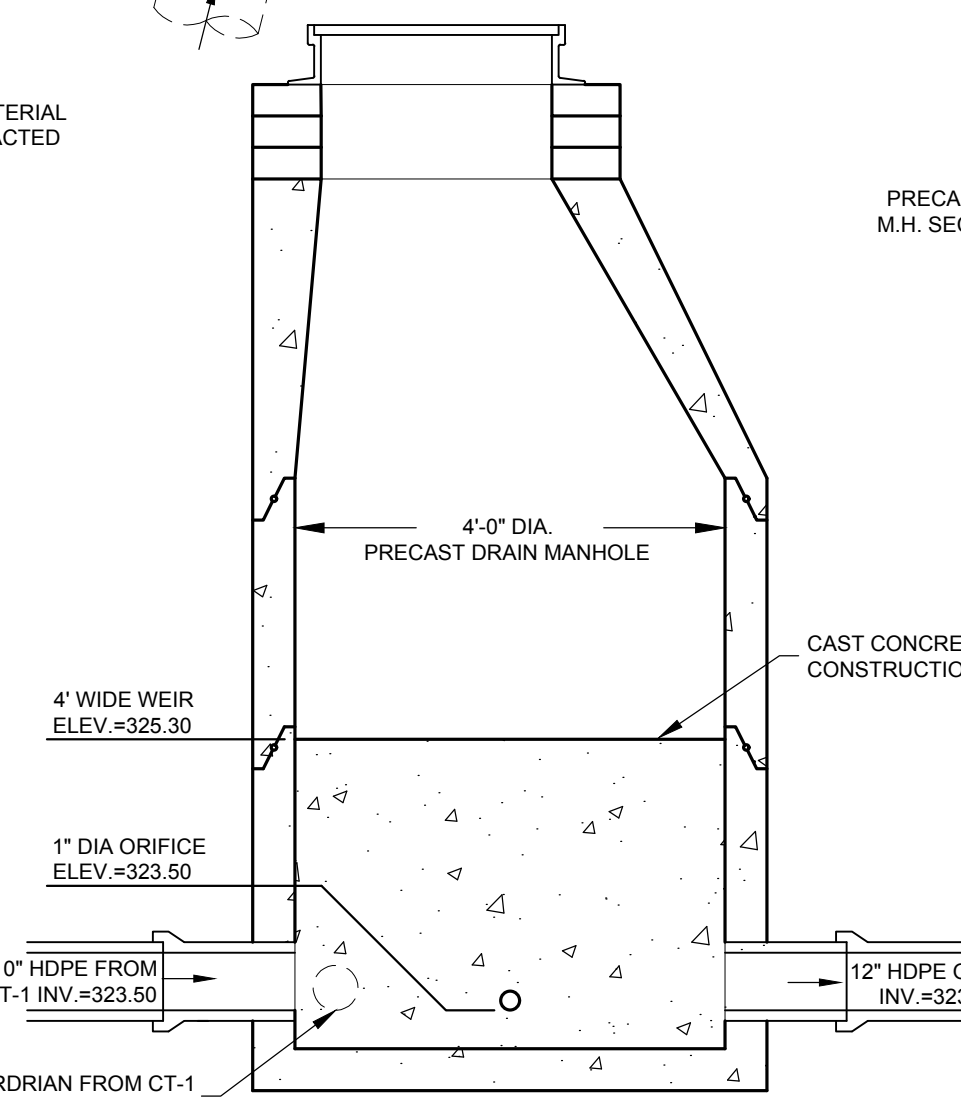
OUTLET CONTROL STRUCTURE - "A"
NOT TO SCALE



OUTLET CONTROL STRUCTURE - "B"
NOT TO SCALE



OUTLET CONTROL STRUCTURE - "C"
NOT TO SCALE



2	Site Rotation Revisions	8/24/2017
1	Revise per AoT Comments	4/26/2017
No.	Revision	Date
Designed by: JRB		Drawn by: JRB
		Checked by: GRF

Construction Details
Niyati Realty, LLC
 289 Pinewood Road
 Allenstown, NH
 Assessors Map 409 Lot 32

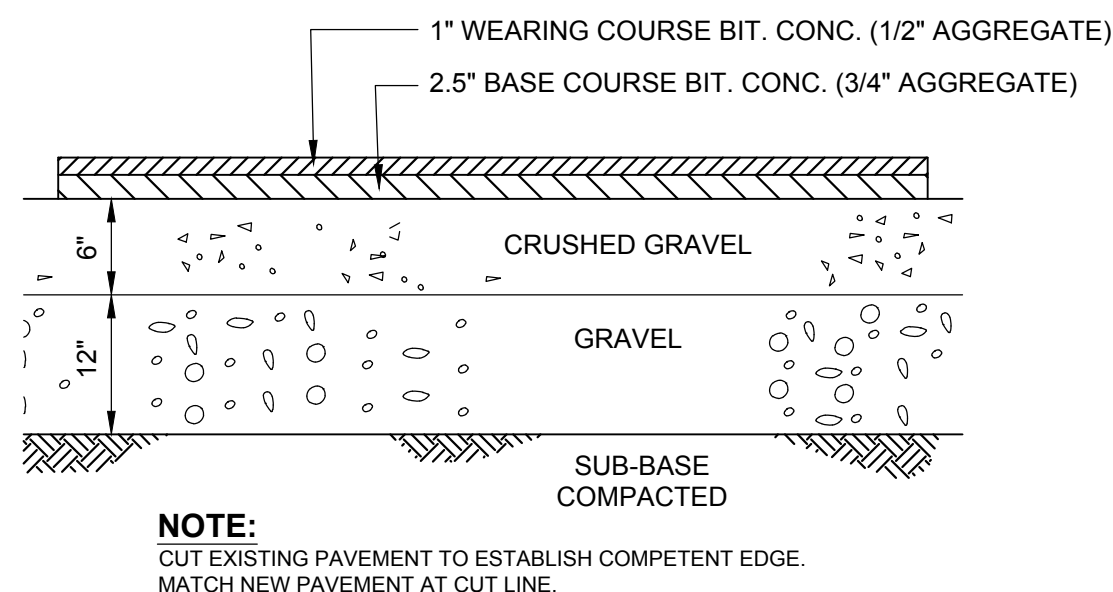
SFC ENGINEERING
 1 INDUSTRIAL DRIVE
 WINDHAM, NH 03087
 (603) 647-8700
 www.sfceng.com

Sheet 9 of 12 Scale: As Shown Date: 11/23/2016

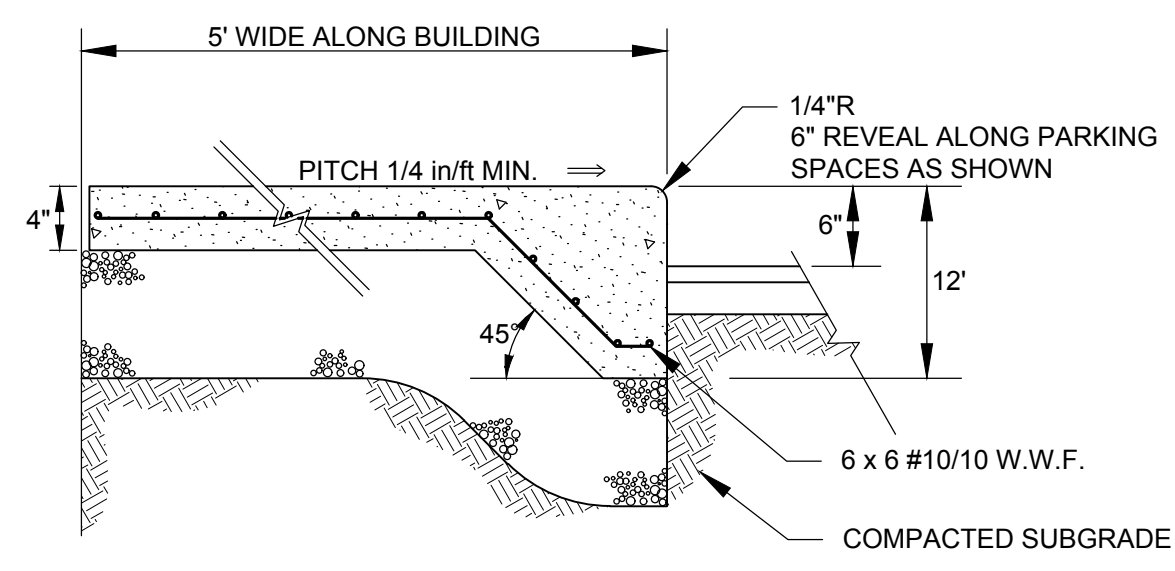
Prepared for:
 Niyati Realty, LLC
 239 Steam Mill Road
 Auburn, NH 03032

Allenstown Planning Board
 Approval

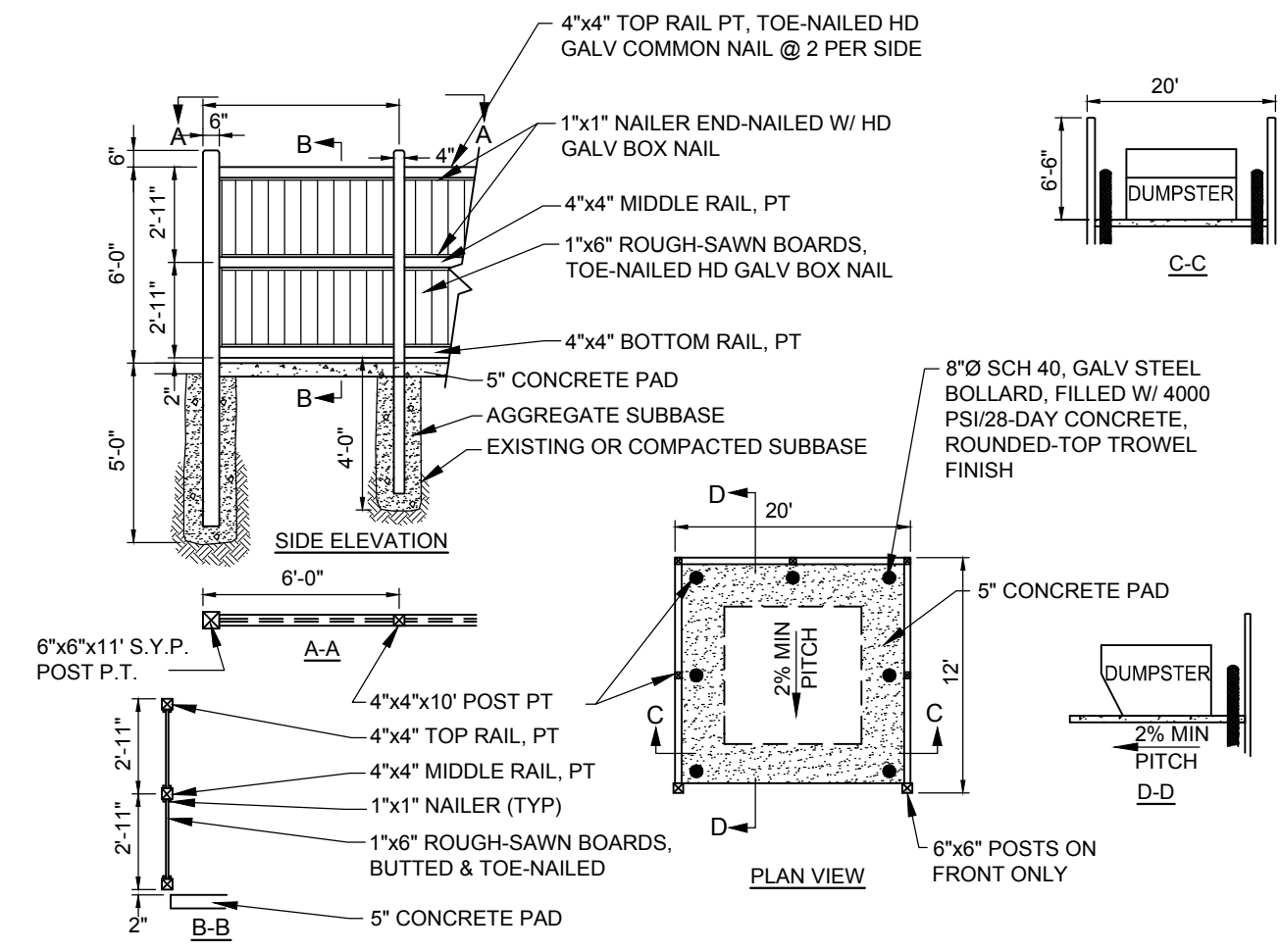
Zoning Classification: Open Space & Farming



STANDARD PAVEMENT DETAIL
NOT TO SCALE



CONCRETE SITE SIDEWALK DETAIL
NOT TO SCALE



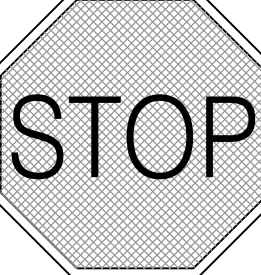
DUMPSTER PAD AND ENCLOSURE
NOT TO SCALE



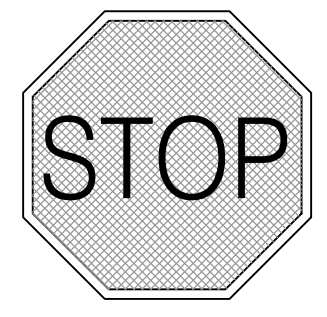
R7-8
12" X 18"



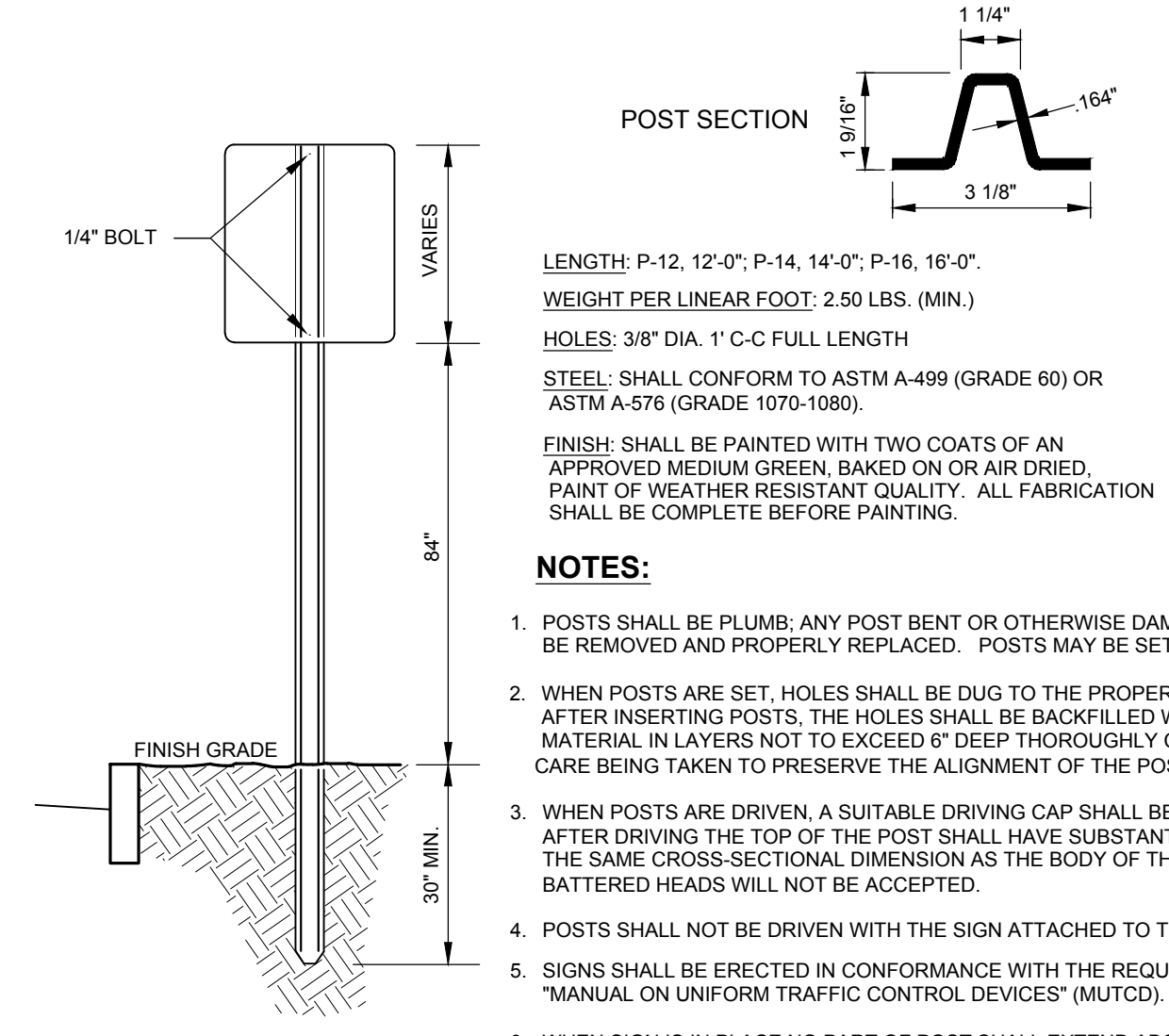
R7-8A
12" X 6"



R6-2A

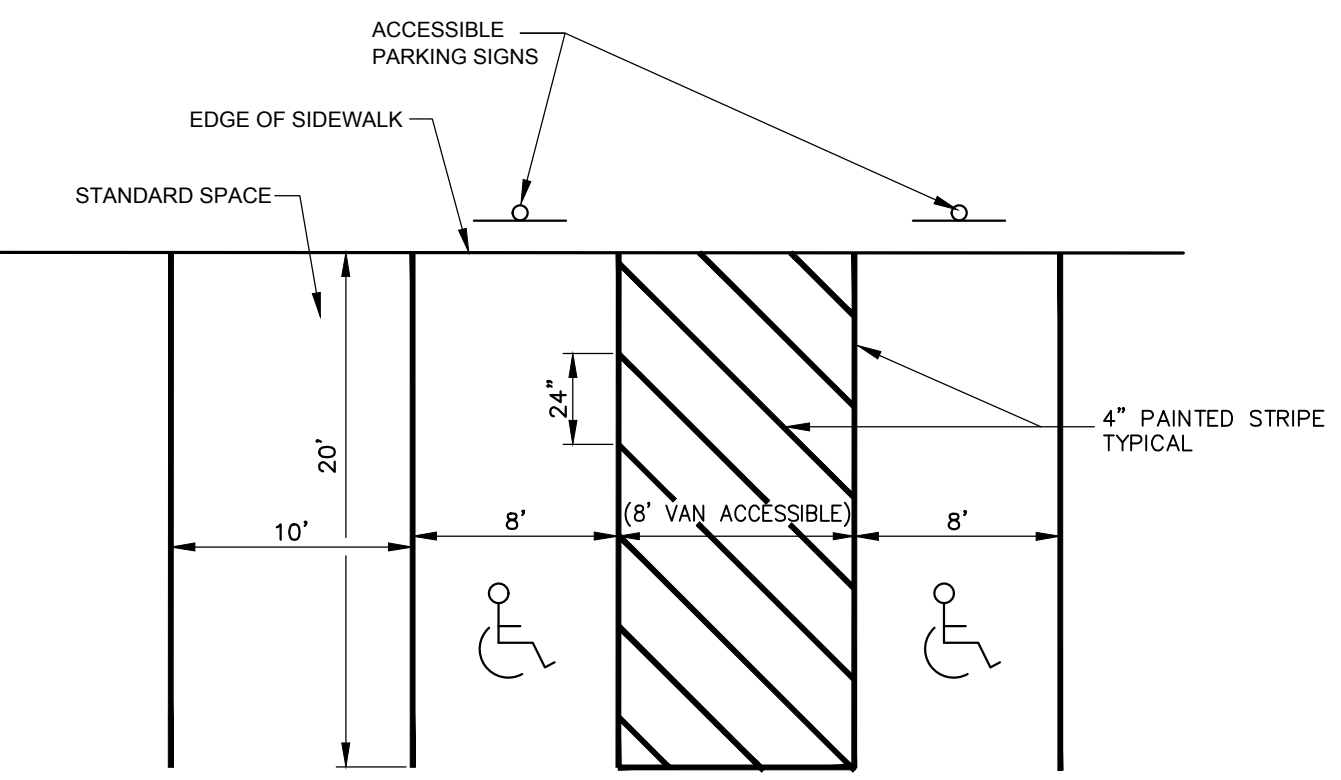


R1-1
30" X 30"

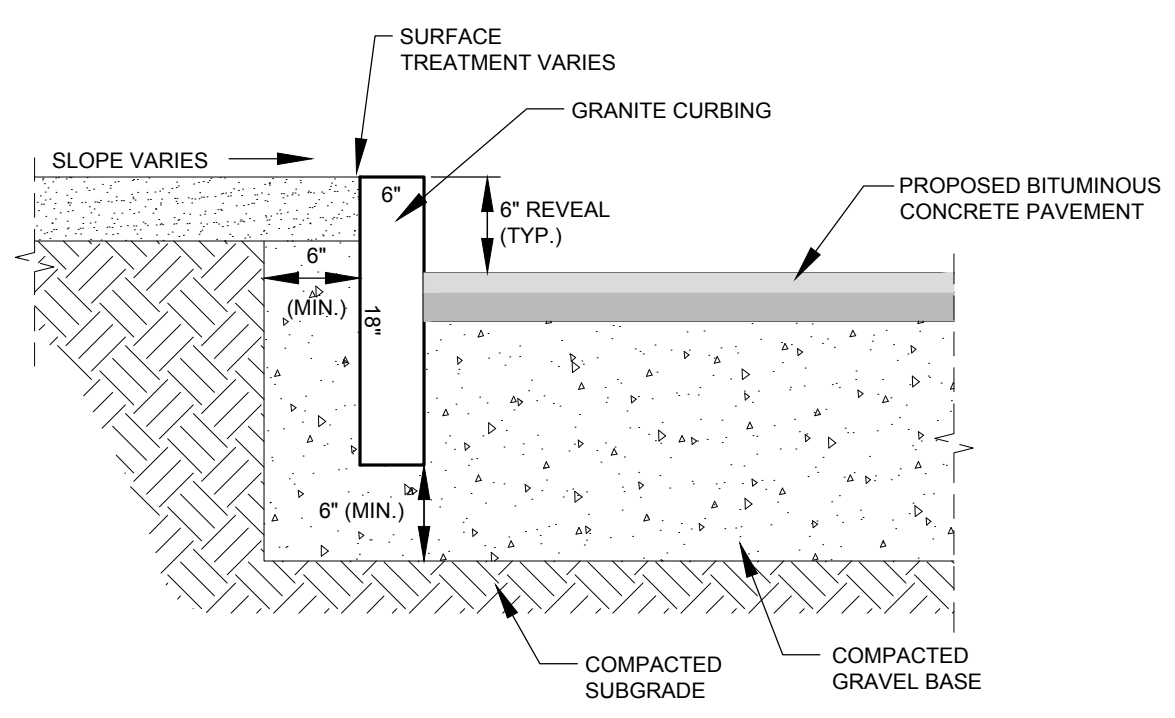


- NOTES:**
- POSTS SHALL BE PLUMB; ANY POST BENT OR OTHERWISE DAMAGED SHALL BE REMOVED AND PROPERLY REPLACED. POSTS MAY BE SET OR DRIVEN.
 - WHEN POSTS ARE SET, HOLES SHALL BE DUG TO THE PROPER DEPTH AFTER INSERTING POSTS. THE HOLES SHALL BE BACKFILLED WITH SUITABLE MATERIAL IN LAYERS NOT TO EXCEED 6" DEEP THOROUGHLY COMPACTED, CARE BEING TAKEN TO PRESERVE THE ALIGNMENT OF THE POST.
 - WHEN POSTS ARE DRIVEN, A SUITABLE DRIVING CAP SHALL BE USED AND AFTER DRIVING THE TOP OF THE POST SHALL HAVE SUBSTANTIALLY THE SAME CROSS-SECTIONAL DIMENSION AS THE BODY OF THE POST; BATTERED HEADS WILL NOT BE ACCEPTED.
 - POSTS SHALL NOT BE DRIVEN WITH THE SIGN ATTACHED TO THE POST.
 - SIGNS SHALL BE ERECTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
 - WHEN SIGN IS IN PLACE NO PART OF POST SHALL EXTEND ABOVE THE SIGN.
 - DIMENSIONS SHOWN ARE NOMINAL.
 - ALTERNATE SECTIONS MUST BE APPROVED PRIOR TO USE.

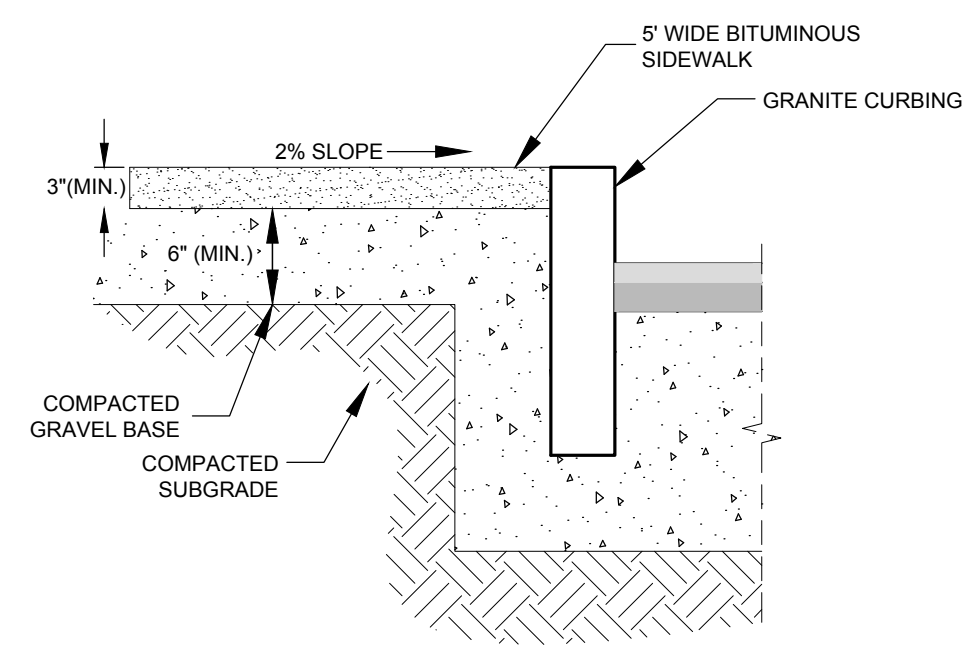
SIGN INSTALLATION DETAIL
NOT TO SCALE



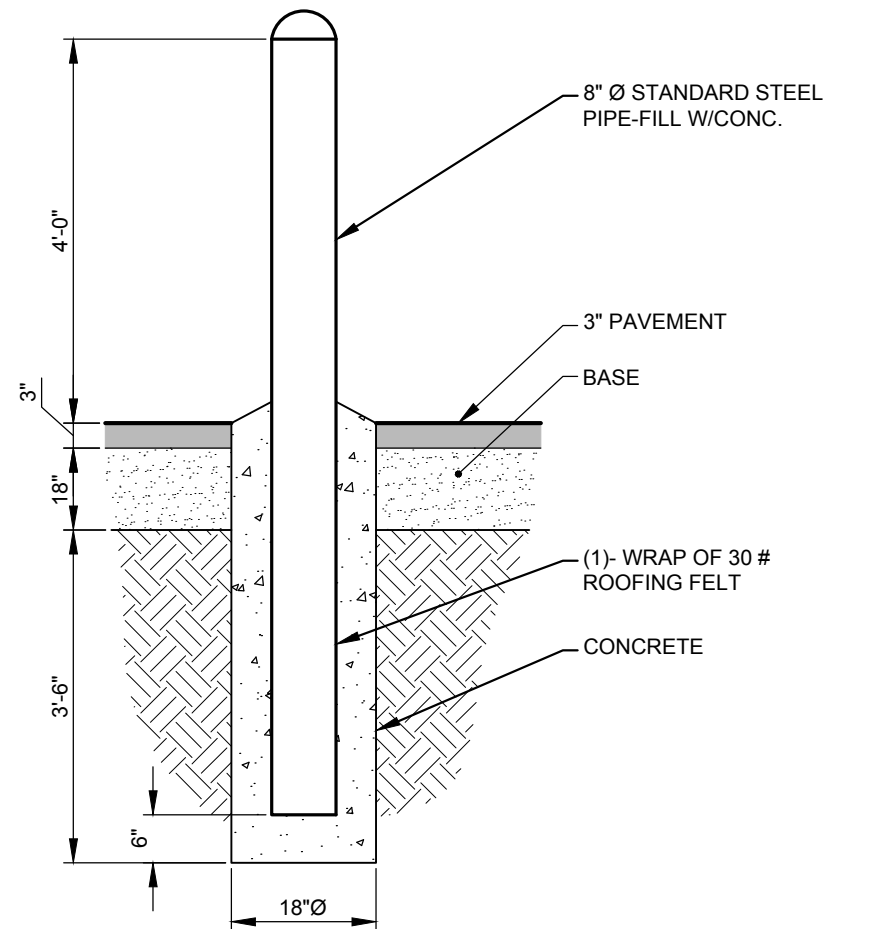
PARKING STRIPING DETAIL
NOT TO SCALE



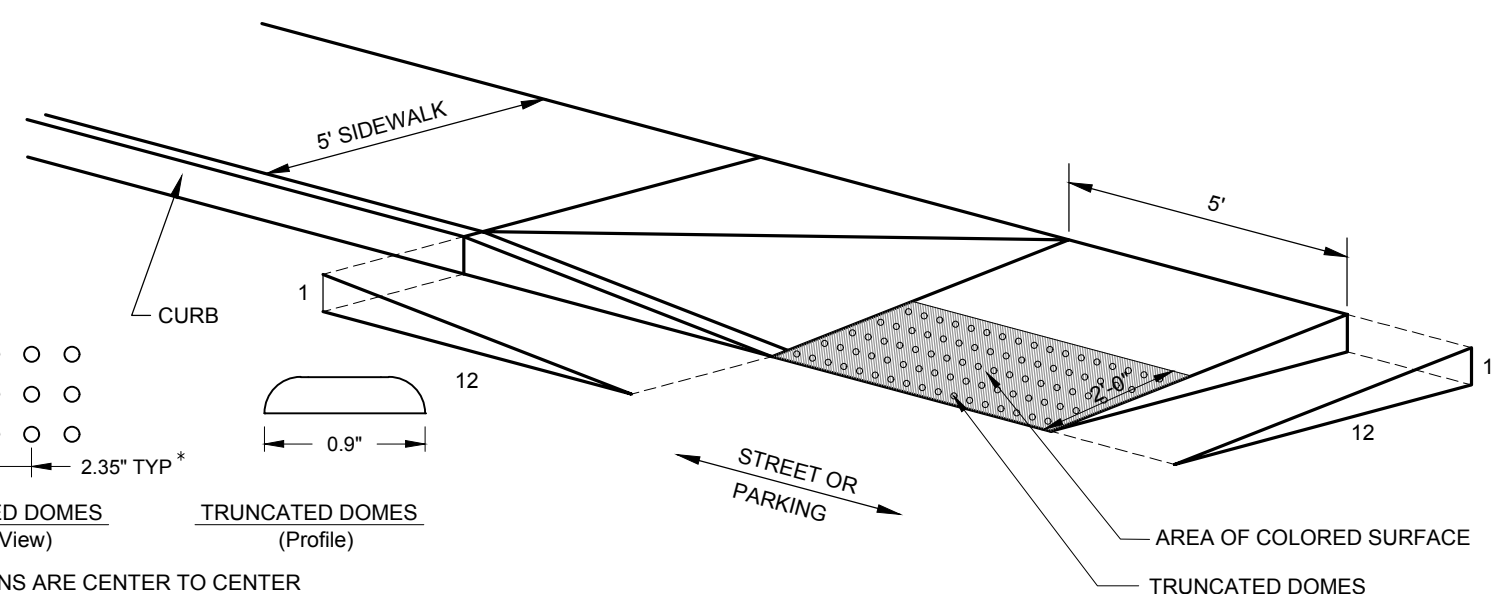
VERTICAL GRANITE CURBING
NOT TO SCALE



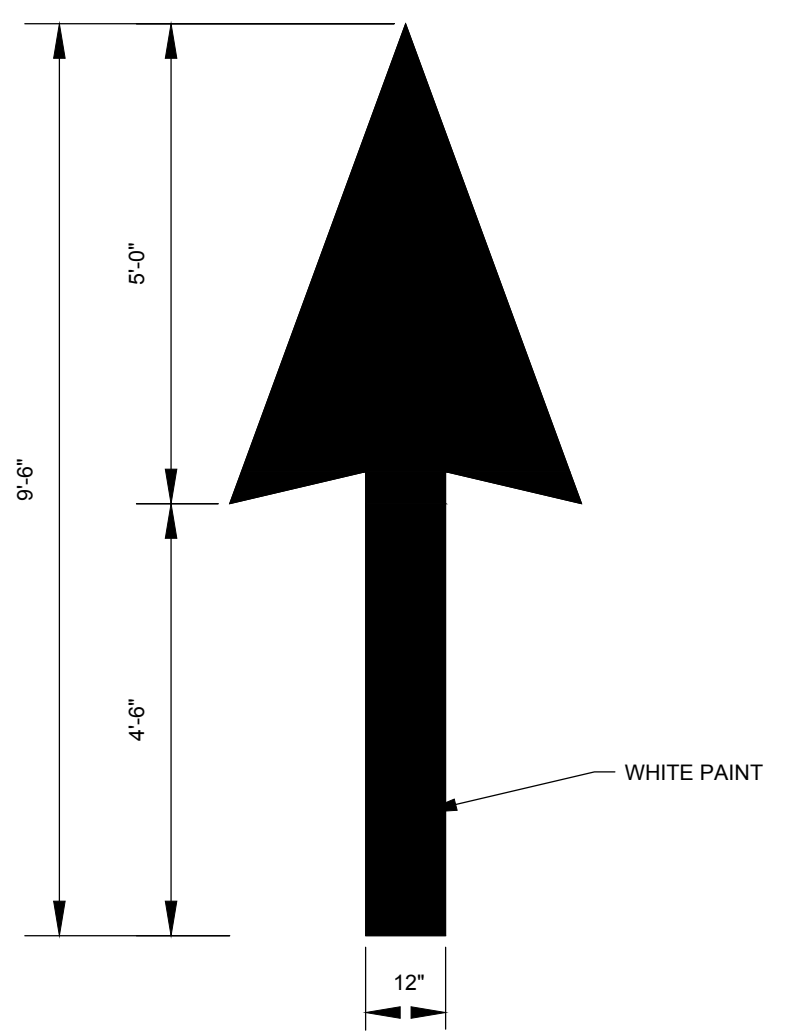
BITUMINOUS SIDEWALK DETAIL
NOT TO SCALE



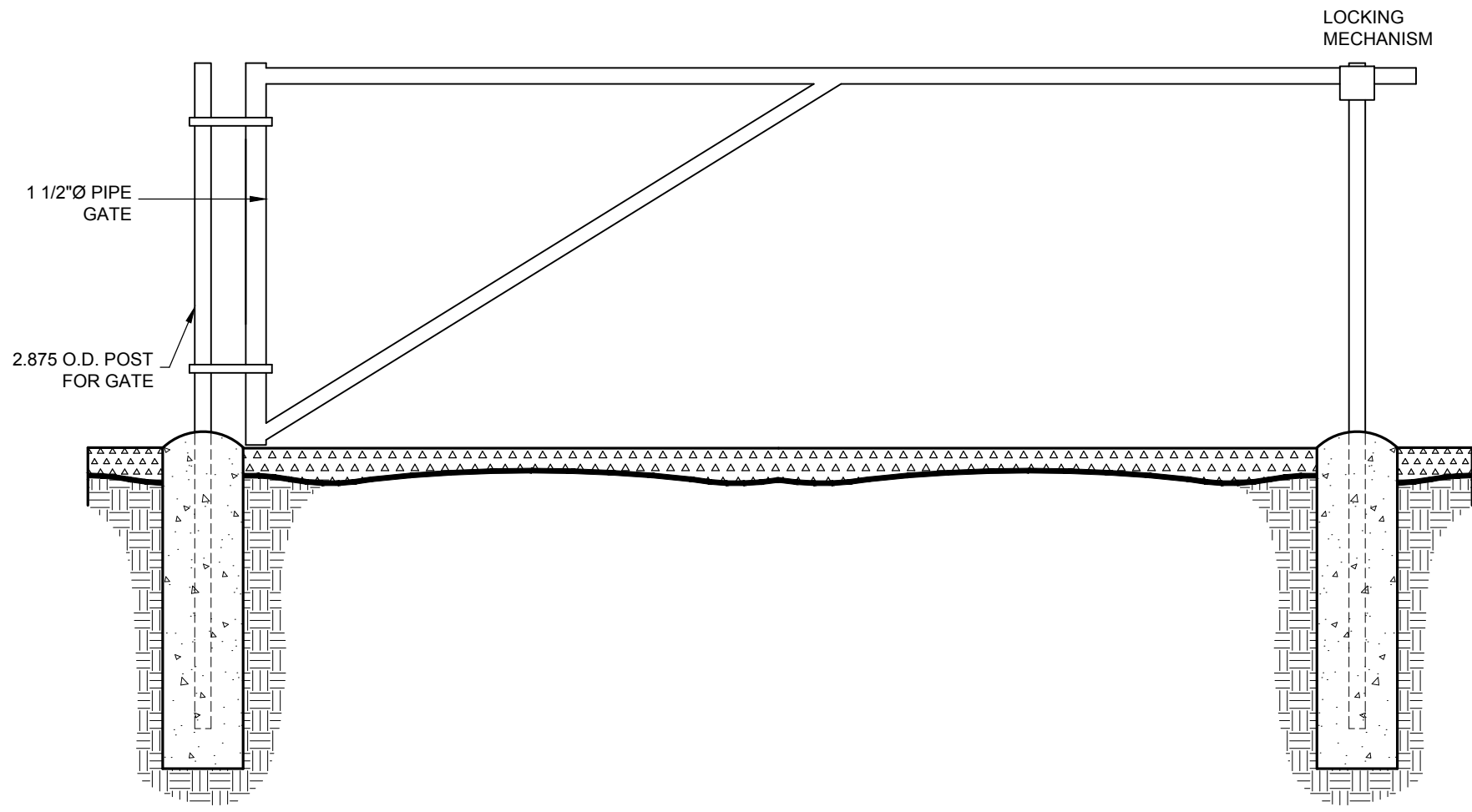
BOLLARD
NOT TO SCALE



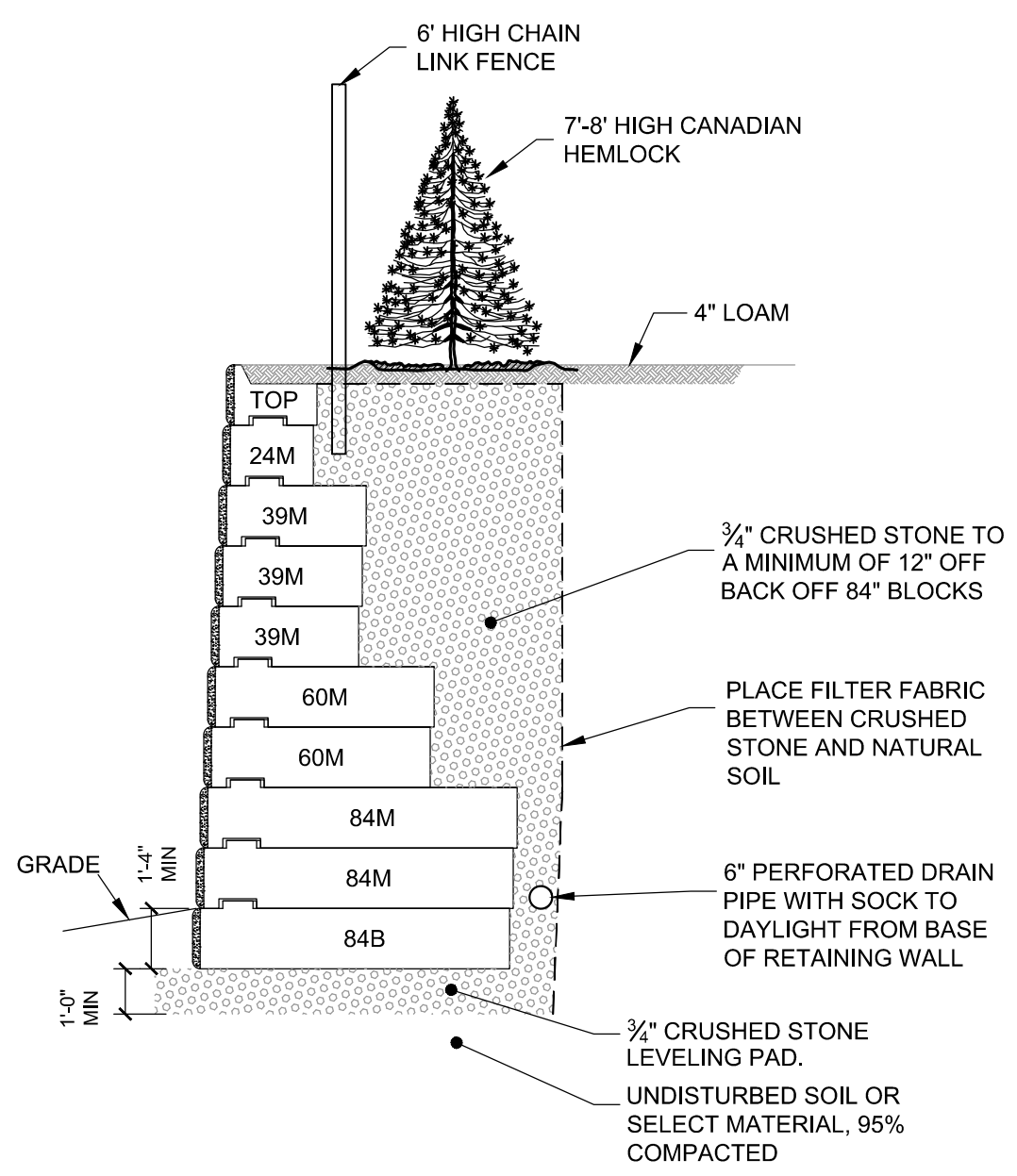
SIDEWALK CURB RAMP DETAIL
NOT TO SCALE



THROUGH (STRAIGHT) ARROW
NOT TO SCALE



SWING GATE DETAIL
NOT TO SCALE



TYPICAL RETAINING WALL DETAIL
NOT TO SCALE

- GENERAL NOTES:**
- ALL WORDS AND SYMBOLS SHALL BE RETROREFLECTIVE WHITE AND SHALL CONFORM TO THE LATEST VERSION OF THE MUTCD.
 - MULTI-WORD MESSAGES SHALL READ "UP". THAT IS THE FIRST WORD SHALL BE NEAREST THE APPROACHING DRIVER.
 - THE WORD "ONLY" SHALL NOT BE USED WITH THROUGH OR COMBINATION ARROWS, AND SHALL NOT BE USED ADJACENT TO A BROKEN LANE LINE. A WORD/SYMBOL SHALL PRECEED THE WORD "ONLY".
 - COMBINATION ARROWS MAY BE COMPRISED OF 2 SINGLE ARROWS (e.g. TURN AND THROUGH ARROWS), HOWEVER, THE SHAFTS OF THE ARROWS SHALL COINCIDE AS SHOWN.
 - PREFORMED WORDS AND SYMBOLS SHALL BE PRE-CUT BY THE MANUFACTURER.
 - WRONG-WAY ARROWS SHALL NOT BE SUBSTITUTED FOR THROUGH ARROWS.

1	Add Swing Gate Detail	5/10/2017
No.	Revision	Date
Designed by: JRB		Drawn by: JRB
		Checked by: GRF

Construction Details
Niyati Realty, LLC
 289 Pinewood Road
 Allenstown, NH
 Assessors Map 409 Lot 32

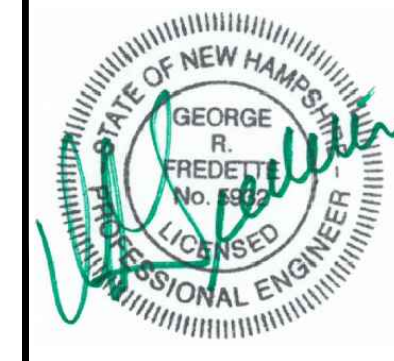
SFC ENGINEERING
 1 INDUSTRIAL DRIVE
 WINDHAM, NH 03087
 (603) 647-8700
 www.sfceng.com

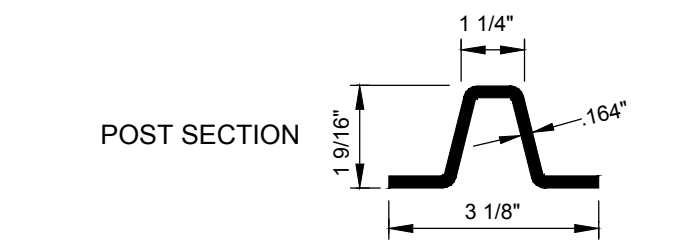
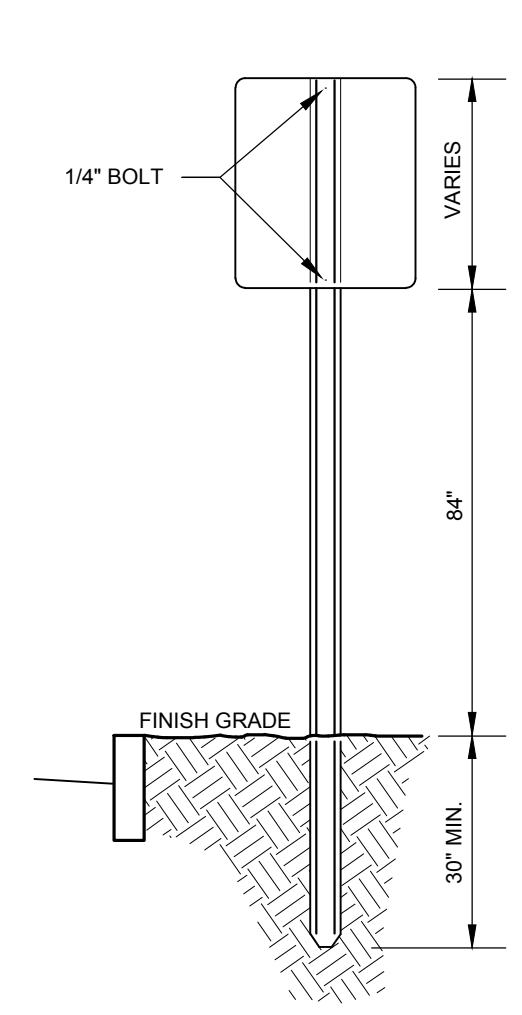
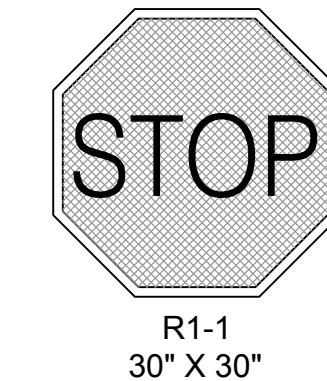
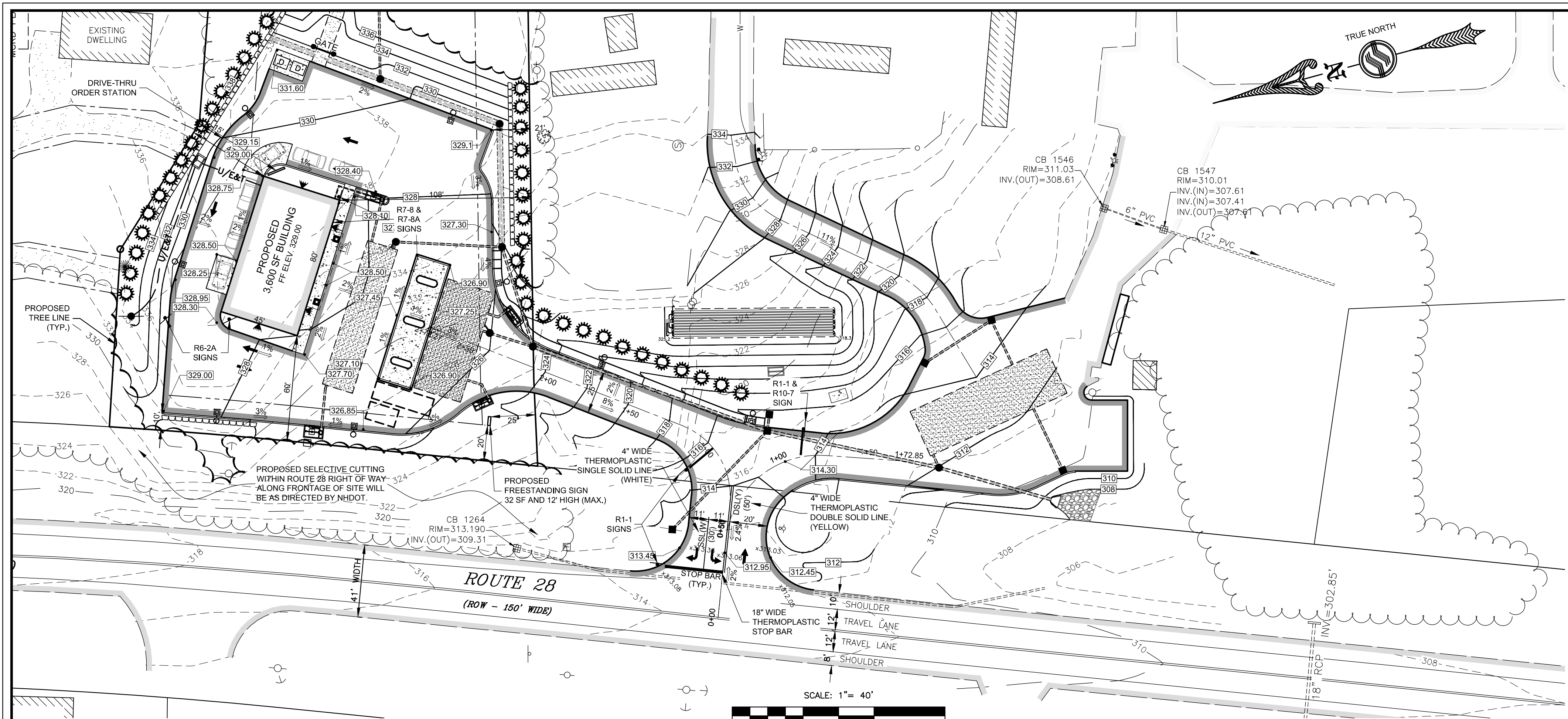
Sheet 10 of 12 Scale: As Shown Date: 11/23/2016

Prepared for:
 Niyati Realty, LLC
 239 Steam Mill Road
 Auburn, NH 03032

Allenstown Planning Board
 Approval

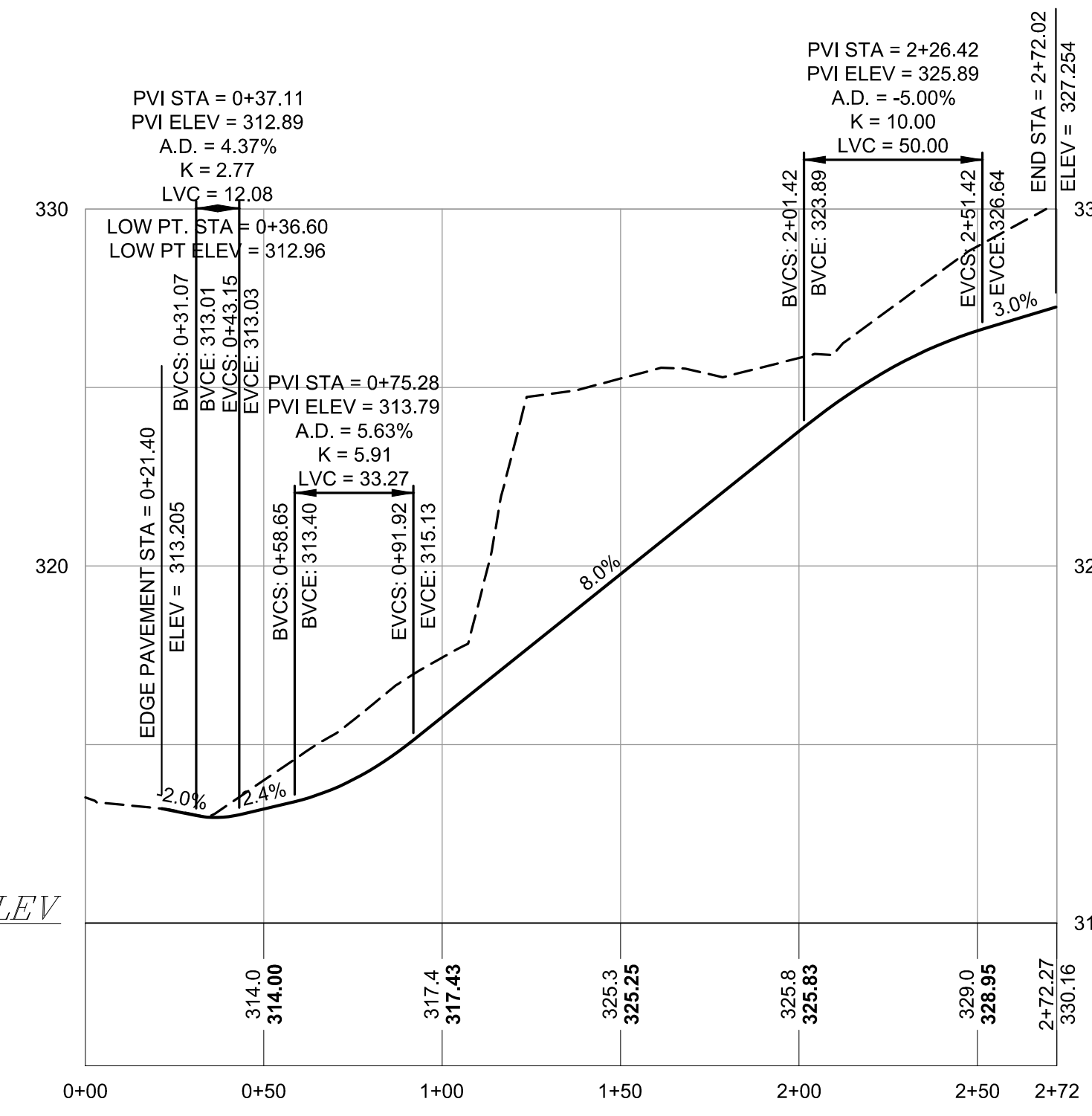
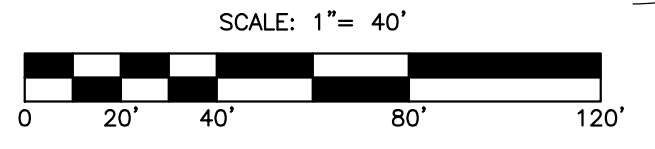
Zoning Classification: Open Space & Farming



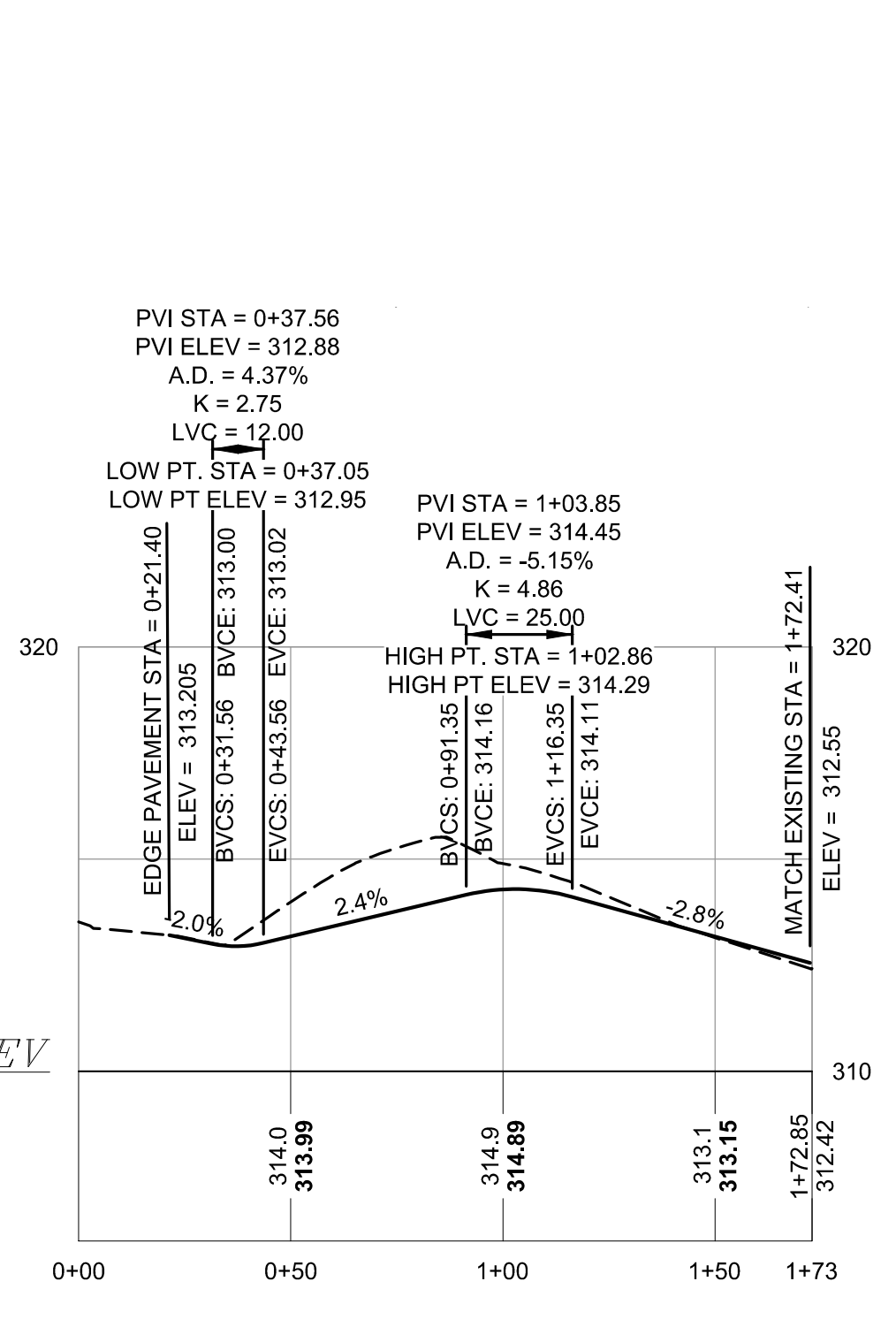


- LENGTH: P-12, 12'-0"; P-14, 14'-0"; P-16, 16'-0".
 WEIGHT PER LINEAR FOOT: 2.50 LBS. (MIN.)
 HOLES: 3/8" DIA. 1' C-C FULL LENGTH
 STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-576 (GRADE 1070-1080).
 FINISH: SHALL BE PAINTED WITH TWO COATS OF AN APPROVED MEDIUM GREEN, BAKED ON OR AIR DRIED. PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.
- NOTES:**
- POSTS SHALL BE PLUMB; ANY POST BENT OR OTHERWISE DAMAGED SHALL BE REMOVED AND PROPERLY REPLACED. POSTS MAY BE SET OR DRIVEN.
 - WHEN POSTS ARE SET, HOLES SHALL BE DUG TO THE PROPER DEPTH AFTER INSERTING POSTS. THE HOLES SHALL BE BACKFILLED WITH SUITABLE MATERIAL IN LAYERS NOT TO EXCEED 6" DEEP THOROUGHLY COMPACTED, CARE BEING TAKEN TO PRESERVE THE ALIGNMENT OF THE POST.
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 - ALTERNATE SECTIONS MUST BE APPROVED PRIOR TO USE.

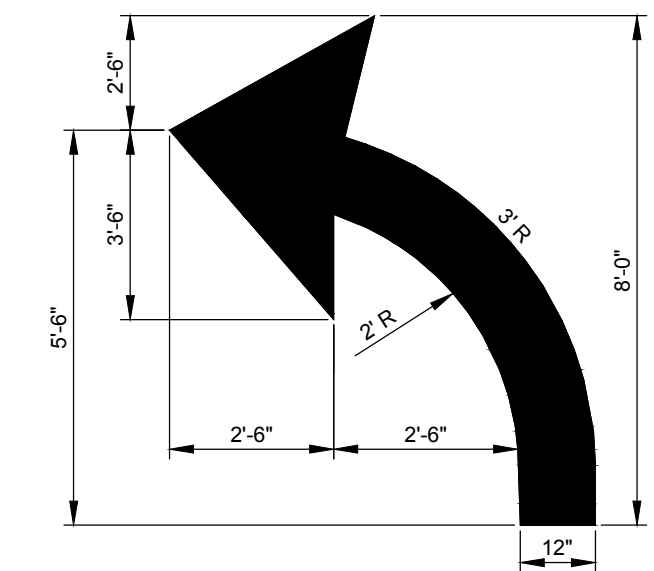
SIGN INSTALLATION DETAIL
NOT TO SCALE



PROPOSED DRIVEWAY PROFILE

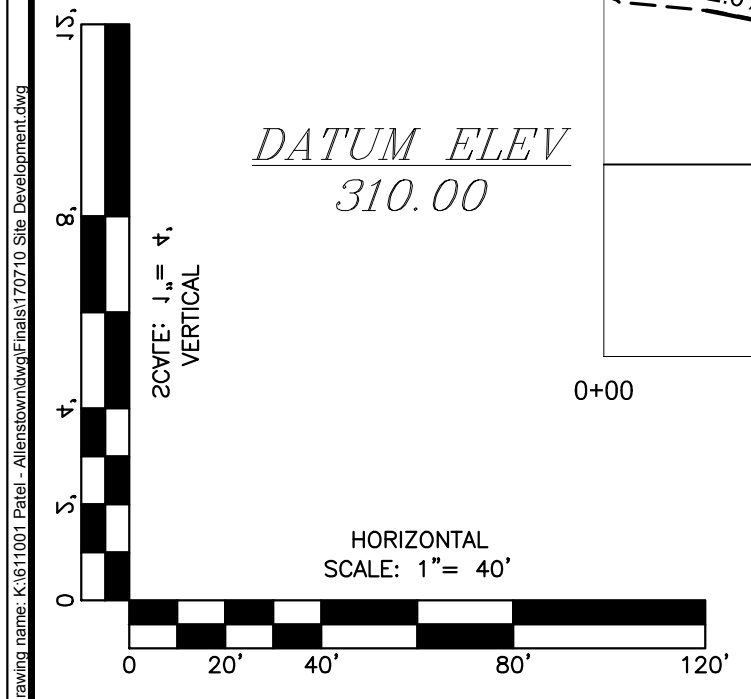


CATAMOUNT DRIVEWAY PROFILE



- GENERAL NOTES:**
- ALL LINES AND SYMBOLS SHALL BE THERMOPLASTIC WHITE OR YELLOW AND SHALL CONFORM TO THE LATEST VERSION OF THE MUTCD AND THE 2016 NHDOT STANDARD SPECIFICATIONS.
 - THE WORD "ONLY" SHALL NOT BE USED WITH THROUGH OR COMBINATION ARROWS, AND SHALL NOT BE USED ADJACENT TO A BROKEN LANE LINE. A WORD/SYMBOL SHALL PRECEED THE WORD "ONLY".
 - COMBINATION ARROWS MAY BE COMPRISED OF 2 SINGLE ARROWS (e.g. TURN AND THROUGH ARROWS), HOWEVER, THE SHAFTS OF THE ARROWS SHALL COINCIDE AS SHOWN.
 - PREFORMED WORDS AND SYMBOLS SHALL BE PRE-CUT BY THE MANUFACTURER.

TURN ARROW
(RIGHT TURN OPPOSITE IN KIND)
NOT TO SCALE



No.	Revision	Date

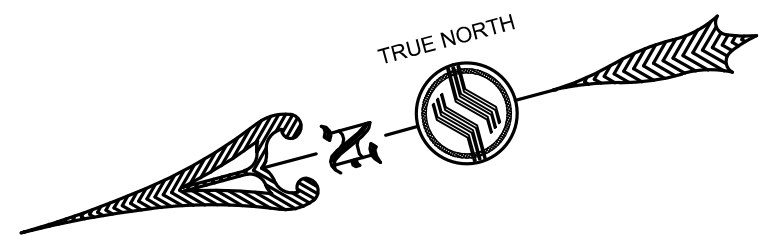
Driveway Plan, Profile and Construction Details
Niyati Realty, LLC
 289 Pinewood Road
 Allenstown, NH
 Assessors Map 409 Lot 32

SFC ENGINEERING
 1 INDUSTRIAL DRIVE WINDHAM, NH 03087 (603) 647-8700 www.sfceng.com

Sheet 11 of 12 Scale: As Shown Date: 8/24/2017

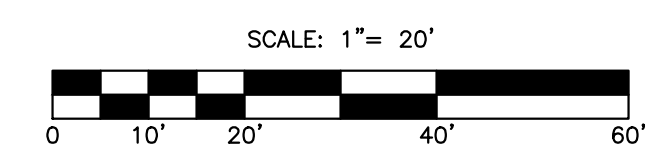
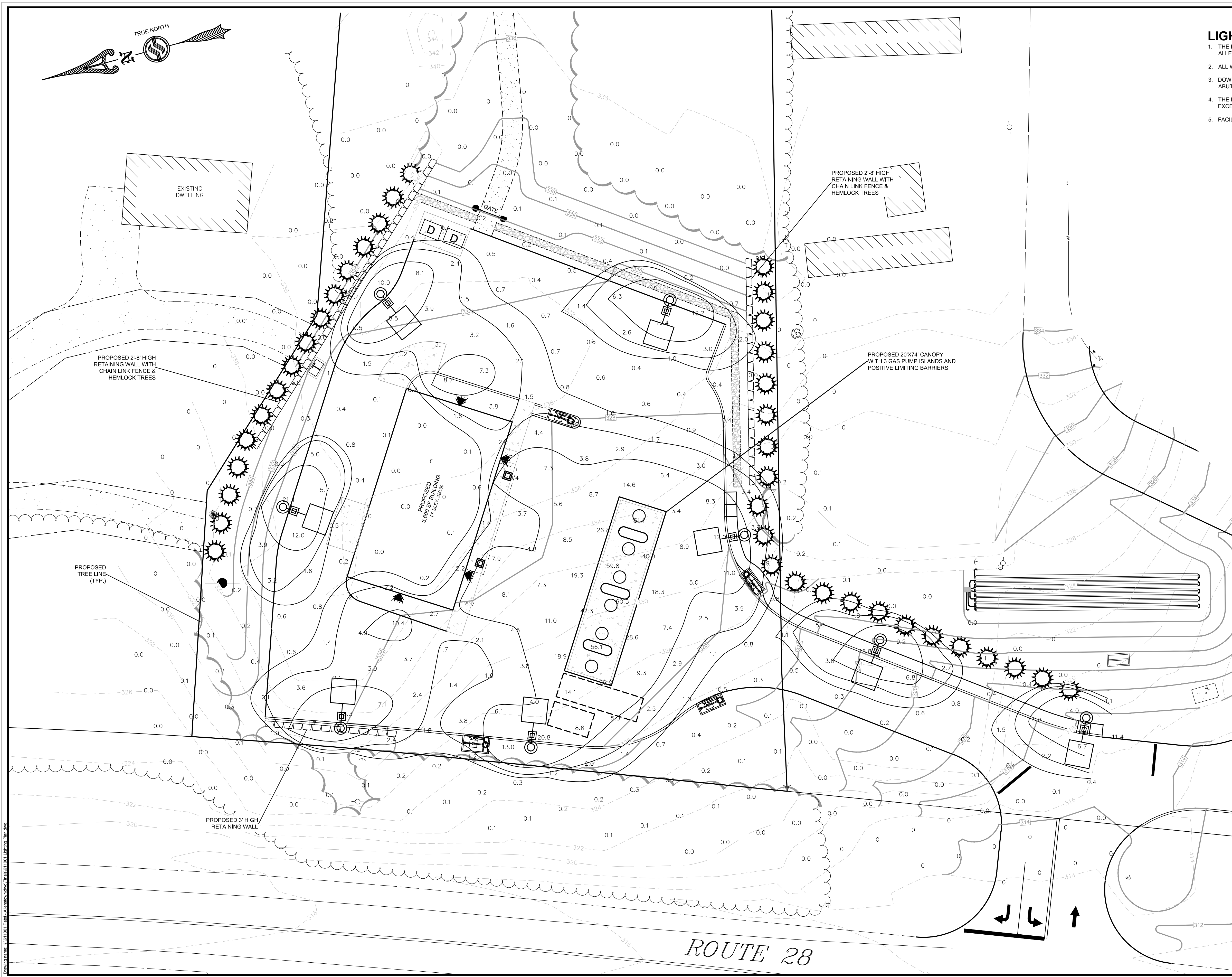
Prepared for: Niyati Realty, LLC 239 Steam Mill Road Auburn, NH 03032
 Allenstown Planning Board Approval

Zoning Classification: Open Space & Farming



LIGHTING NOTES:

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE LIGHTING LAYOUT FOR THE PROPOSED DEVELOPMENT OF ALLENSTOWN PROPERTY MAP 409 LOT 32 CONSISTING OF 8.28 Ac.s
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH TOWN OF ALLENSTOWN AND NHDOT REQUIREMENTS.
3. DOWNCAST AND FULL CUTOFF LIGHTING SHALL BE PROVIDED SUCH THAT LIGHT SHALL NOT TRESPASS ONTO ABUTTING LOTS OR ANY PUBLIC STREET.
4. THE INTENSITY OF LIGHTING AT ADJOINING STREETS AND ABUTTING RESIDENTIAL PROPERTIES DOES NOT EXCEED 0.5 FOOT CANDLES. SEE GENERAL PHOTOMETRIC SCHEDULE.
5. FACILITY LIGHTING COMPLIES WITH TOWN EXTERIOR LIGHTING STANDARDS SECTION 2306(L).



1	Revised Lighting Plan for Site Rotation Revisions	08/24/2017
No.	Revision	Date
	Designed by: JRB	Drawn by: DCF
		Checked by: GRF

Lighting Plan
Niyati Realty, LLC
 289 Pinewood Road
 Allenstown, NH
 Assessors Map 409 Lot 32

SFC
 ENGINEERING

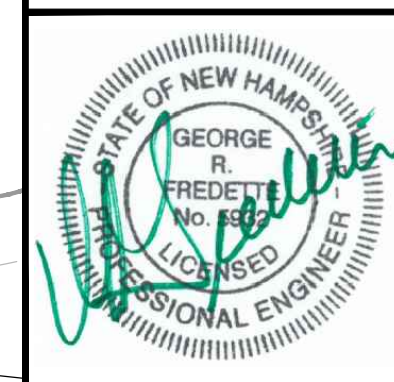
1 INDUSTRIAL DRIVE
 WINDHAM, NH 03087 (603) 647-8700
 www.sfceng.com

Sheet 12 of 12 Scale: 1" = 20' Date: 5/10/2017

Prepared for:
 Niyati Realty, LLC
 239 Steam Mill Road
 Auburn, NH 03032

Allenstown Planning Board
 Approval

Zoning Classification: Open Space & Farming



MASI20-160NW/480



Flush mount canopy fixture ideal for vehicle service and fueling stations as a retrofit or new construction installation. 20" x 20" models offered in two power packages with an equivalency range from 320W to 400W Metal Halide. Also available in 16" x 16" models with three power packages.

Color: White Weight: 33.7 lbs

Project:	Type:
Prepared By:	Date:
Driver Info	LED Info
Type: Constant Current	Watts: 160W
120V: N/A	Color Temp: 4000K
208V: N/A	Color Accuracy: 72 CRI
240V: N/A	L70 Lifespan: 100000
277V: N/A	Lumens: 23,017
Input Watts: 160W	Efficacy: 144 LPW
Efficiency: N/A	

Technical Specifications

Listings: UL Listing: Suitable for wet locations. IESNA LM-79 & LM-80 Testing: RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label. Electrical: Driver: Constant Current, Class 2 347-480V, 50/60 Hz, THD <20%, PF >0.99, 700mA. Optical: BUG Rating: B4 U0 G2. Construction: Ingress Protection rating of IP66 for dust and water. Maximum Ambient Temperature: Suitable for use in 40°C (104°F) ambient temperatures. Cold Weather Starting: Minimum starting temperature is -40°F/-40°C. Housing: Die-cast aluminum with stainless steel cover. Mounting: Semi-recessed construction. Junction box with four (4) 1/2" NPS conduit openings.

Lens: Tempered glass. **Gaskets:** High-temperature silicone gaskets. **Retroplate:** An optional retroplate allows for installation in openings from 4 to 6.5 inches in diameter. Additional retrofit options are available upon request to replace virtually any existing fixture. Please contact RAB Customer Service 1-888-722-1000. **Finish:** Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contain no VOC or toxic heavy metals. **Green Technology:** Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals. **LED Characteristics:** **Lifespan:** 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations. **LEDs:** Long-life, high-efficiency surface mount LEDs. **Color Consistency:** 7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color. **Color Stability:** RAB LEDs exceed industry standards for chromatic stability.

Color Uniformity: RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011. **Other:** **Equivalency:** MASI™ 160W replaces 320W metal halide. **Country of Origin:** Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers. **Buy American Act Compliant:** This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act. **Trade Agreements Act Compliant:** This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act. **GSA Schedule:** Suitable in accordance with FAR Subpart 25.4. **California Title 24:** Please refer to MASI models with 0-10V dimming drivers for fixtures that comply with 2013 California Title 24 building and electrical codes. **Warranty:** RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

RWLED2T150NW



LED roadway lighting that's easy to buy. Free trial program and leasing options make it easy to get started with LED. Specification-grade optics deliver efficient, clean, uniform light distributions at a reasonable cost. Optics are factory installed and meet IES Lateral Distribution Type II. LROAD™ 150W replaces 400W metal halide roadway fixtures.

Color: White Weight: 33.5 lbs

Project:	Type:
Prepared By:	Date:
Driver Info	LED Info
Type: Constant Current	Watts: 150W
120V: 1.31A	Color Temp: 4000K
208V: 0.80A	Color Accuracy: 82 CRI
240V: 0.69A	L70 Lifespan: 100000
277V: 0.60A	Lumens: 11,847
Input Watts: 154W	Efficacy: 77 LPW
Efficiency: 97%	

Technical Specifications

Listings: UL Listing: Suitable for wet locations as a downlight. IESNA LM-79 & IESNA LM-80 Testing: RAB LED fixtures have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label. **Dark Sky Approved:** The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire. **DLC Listed:** This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. **Mounting:** Fits most standard roadway uses. Adaptor brackets supplied fit 1", 1 1/4", 1 1/2" and 2" OD arms. **Wedge Mounting Option:** Allows field adjustment of +/- 5 degree tilt to achieve a level installation of LROAD150 universal adaptor roadway fixtures. **Recommended Mounting Height:** Up to 35 ft. **Reflector:** Specular vacuum-metalized polycarbonate. **Effective Projected Area:** EPA = 0.75. **IP Rating:** Ingress Protection rating of IP66 for dust and water.

Vibration Rating: Industry-leading 5G vibration rating per ANSI C136.31. **Ambient Temperature:** Suitable for use in 40°C ambient temperatures. **Cold Weather Starting:** The minimum starting temperature is -40°C/-40°F. **Thermal Management:** Superior patent pending thermal management design with external Air-Flow fins provides maximum operational life, even in high ambient temperature environments. **Housing:** Die cast aluminum housing, lens frame and mounting arm. **Color Consistency:** Multi-chip, high-output, long-life LEDs. **Color Stability:** LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period. **Color Uniformity:** RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011. **Electrical:** **Drivers:** Two Drivers Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, 1.1A, Power Factor 99%.

WPLED104NW/480



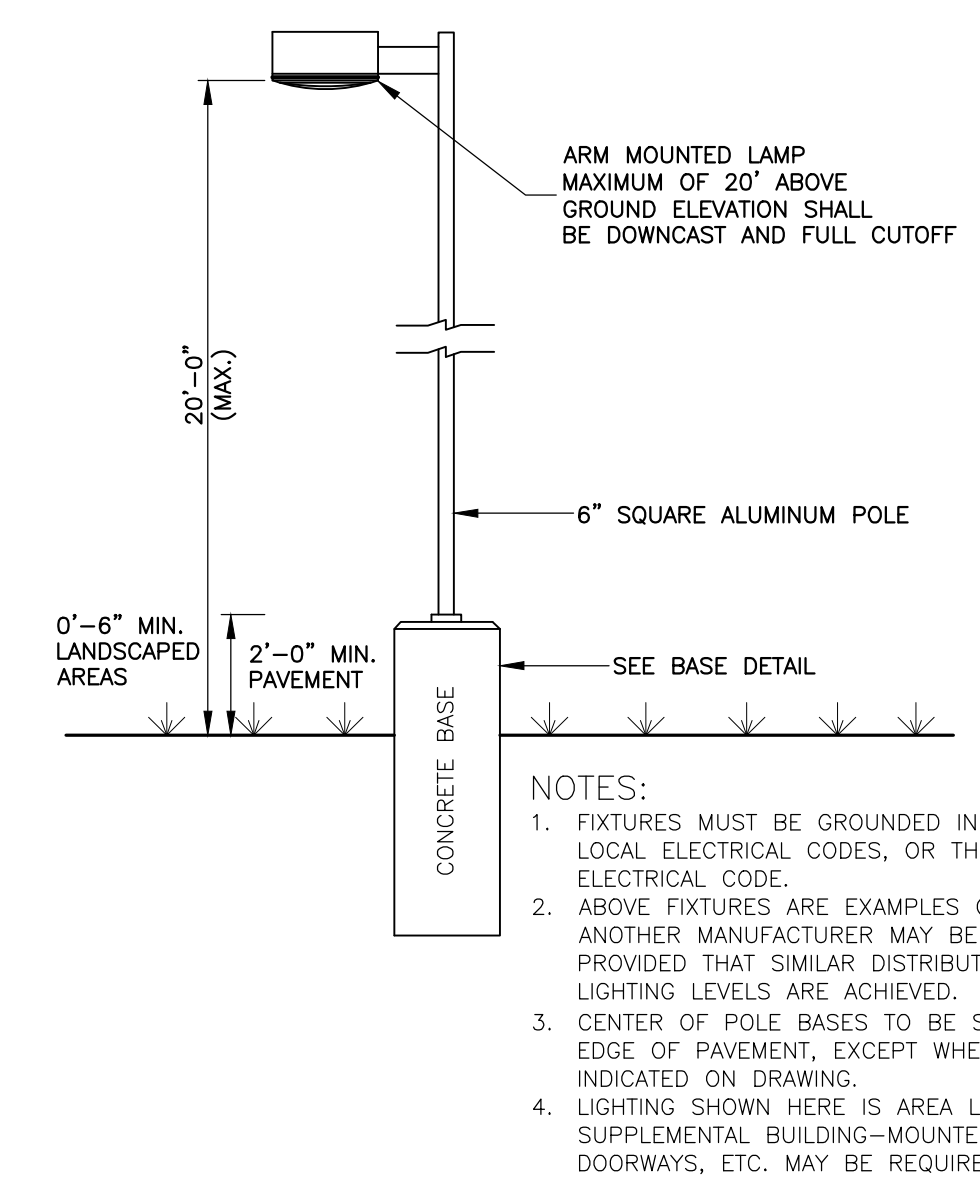
LED 104W Wallpacks. 3 cutoff options. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5 Year Warranty.

Color: White Weight: 26.0 lbs

Project:	Type:
Prepared By:	Date:
Driver Info	LED Info
Type: Constant Current	Watts: 104W
120V: N/A	Color Temp: 4000K
208V: N/A	Color Accuracy: 82 CRI
240V: N/A	L70 Lifespan: 100000
277V: N/A	Lumens: 9,823
Input Watts: 115W	Efficacy: 85 LPW
Efficiency: 90%	

Technical Specifications

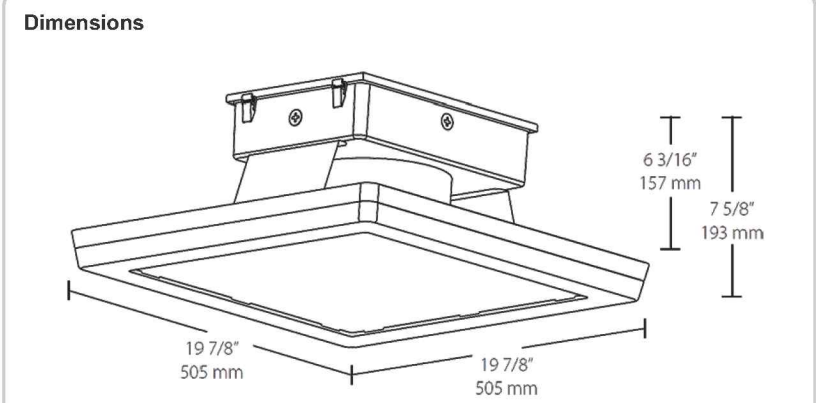
Listings: UL Listing: Suitable for Wet Locations as Uplight and Downlight Wall Mount Only. IESNA LM-79 & LM-80 Testing: RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label. **Construction:** Ingress Protection rating of IP66 for dust and water. **Cold Weather Starting:** Minimum starting temperature is -40°F / -40°C. **Maximum Ambient Temperature:** Suitable for use in 40°C (104°F) ambient temperatures. **Thermal Management:** Superior thermal management with external Air-Flow fins. **Housing:** Precision die-cast aluminum housing, door frame arm and wall bracket. **Mounting:** Die-cast aluminum wall bracket with (5) 1/2" conduit openings with plugs. Two-piece bracket with leather for ease of installation and wiring. **Arm:** Die-cast aluminum with wiring access plate. **Cutoff:** Standard (15°). **Lens:** Tempered glass. **Reflector:** Specular vacuum metalized polycarbonate. **Gaskets:** High-temperature silicone. **Finish:** Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals. **Green Technology:** Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals. **LED Characteristics:** **LEDs:** Four multi-chip, high-output, long-life LEDs. **Lifespan:** 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations. **Color Consistency:** 3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color. **Color Stability:** LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period. **Color Uniformity:** RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011. **Electrical:** **Driver:** Constant current, Class 1, 347-480V, 50/60 Hz, 4kV Surge Protection, 700mA, 347-480V = 0.26A. **Starting/Operating Amps:** 480V = 0.26A. **Ballast Volts:** 480V. **Other:** **Equivalency:** The WPLED104 is Equivalent in delivered lumens to a 400W Metal Halide Wallpack. **California Title 24:** See WPLED104BL for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page. **Patents:** The design of the WPLED104 is protected by patents pending in US, Canada, China, Taiwan and Mexico.



LIGHT POLE

NOT TO SCALE

MASI20-160NW/480



Features: All 120-277V models DLC Premium listed, qualifying for highest available utility rebates. Premium performance, ultra-high efficiency for fastest payback. Easily installs in 4" openings and replaces most existing fixtures. Retroplate accessory available for openings larger than 4". Water-resistant junction box and drain-off slots. 5-Year bumper-to-bumper warranty.

Ordering Matrix

Family	Size	Watts	Color Temp	Finish	Dimming	Voltage
MASI	20 = 20" x 20"	160 = 160W 200 = 200W	Blank = 5000K (Cool) Y = 3000K (Warm) N = 4000K (Neutral)	W = White	Blank = No Dimming /D10 = Dimmable	Blank = 120-277V /480 = 480V

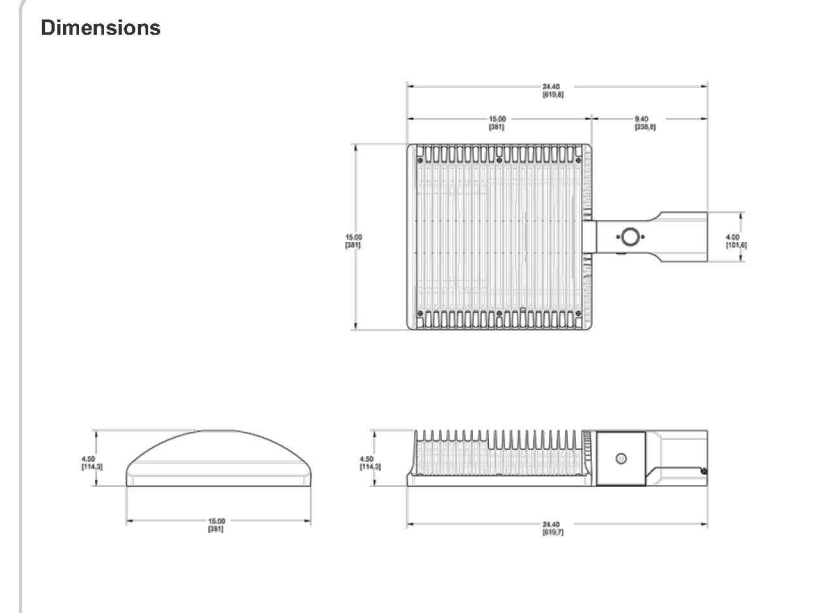
RWLED2T150NW



Technical Specifications (continued)

Electrical: THD: 5.9% at 120V, 11.2% at 277V. **Surge Protection:** 6kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2. **Other:** **Equivalency:** LROAD™ 150W replaces 400W metal halide. **California Title 24:** See RWLED2T150D10, RWLED2T150BL, RWLED2T150PCS, RWLED2T150PCS2, or RWLED2T150PCT for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Patents: The LROAD™ design is protected by patents pending in the U.S., Canada, China, Taiwan and Mexico. **Warranty:** RAB warrants that our LED products will be free from defects in materials and workmanship for a period of ten (10) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. **Country of Origin:** Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers. **Buy American Act Compliant:** This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.



Features: Ideal for entrance roadways, collector roads, and single-sided roads. 27 year lifespan dramatically reduces maintenance and re-lamping costs. Precision optics deliver maximum downward street side lumens with uniformity and minimal glare. Compatible with standard roadway arms. Universal adaptors for 1", 1 1/4", 1 1/2" and 2" OD pipe included. Industry-leading 5G vibration rating per ANSI C136.31. Easy-access electrical compartment makes wiring fast and secure. 10-Year no compromise warranty.

Ordering Matrix

Family	Distribution	Watts	Color Temp	Finish	Dimming	Photocell	Bi-Level
RWLED	2T = Type II	150 = 150W	Blank = 5000K (Cool) Y = 3000K (Warm) N = 4000K (Neutral)	Blank = Bronze W = White RG = Gray	Blank = No Dimming /D10 = Dimmable	Blank = No Photocell /PCT = 120-277V Twistlock	Blank = No Bi-Level /BL = Bi-Level

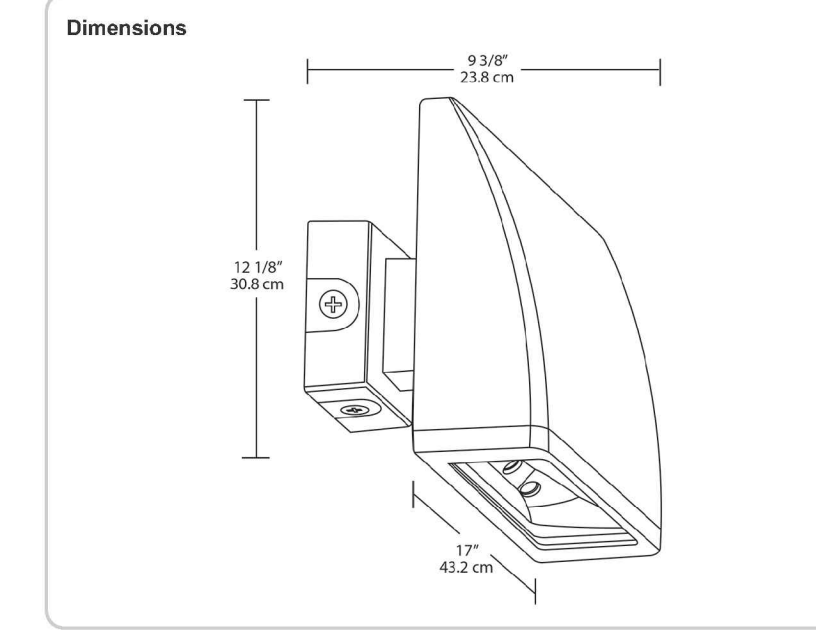
WPLED104NW/480



Technical Specifications (continued)

Other: **Country of Origin:** Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers. **Buy American Act Compliant:** This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act. **Recovery Act (ARRA) Compliant:** This product complies with the 52,225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010). **Trade Agreements Act Compliant:** This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act. **GSA Schedule:** Suitable in accordance with FAR Subpart 25.4.

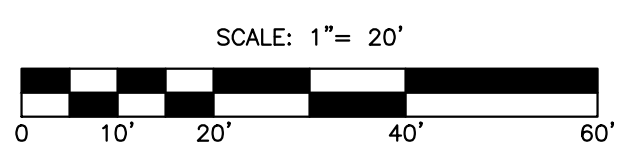
Trade Agreements Act Compliant: This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act. **GSA Schedule:** Suitable in accordance with FAR Subpart 25.4. **Warranty:** RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.



Features: High performance LED light engine. Maintains 70% of initial lumens at 100,000 hours. Weatherproof high temperature silicone gaskets. Superior heat sinking with die cast aluminum housing and external fins. Replaces 400W MH. 100 up to 277 Volts. 5-year warranty.

Ordering Matrix

Family	Cutoff	Watts	Color Temp	Finish	Voltage	Photocell	Bi-Level
WPLED	Blank = Standard C = Cutoff FC = Full Cutoff	104 = 104W	Blank = 5000K (Cool) Y = 3000K (Warm) N = 4000K (Neutral)	Blank = Bronze W = White	Blank = 120-277V /480 = 480V	Blank = No Photocell /PCS = 120V Swivel /PCS2 = 277V Swivel	Blank = No Bi-Level /BL = Bi-Level



1	Revised Lighting Plan for New Layout	08/24/2017
No.	Revision	Date
Designed by: JRB		Checked by: GRF
Drawn by: DCF		

Lighting Details
Niyati Realty, LLC
289 Pinewood Road
Allenstown, NH
Assessors Map 409 Lot 32

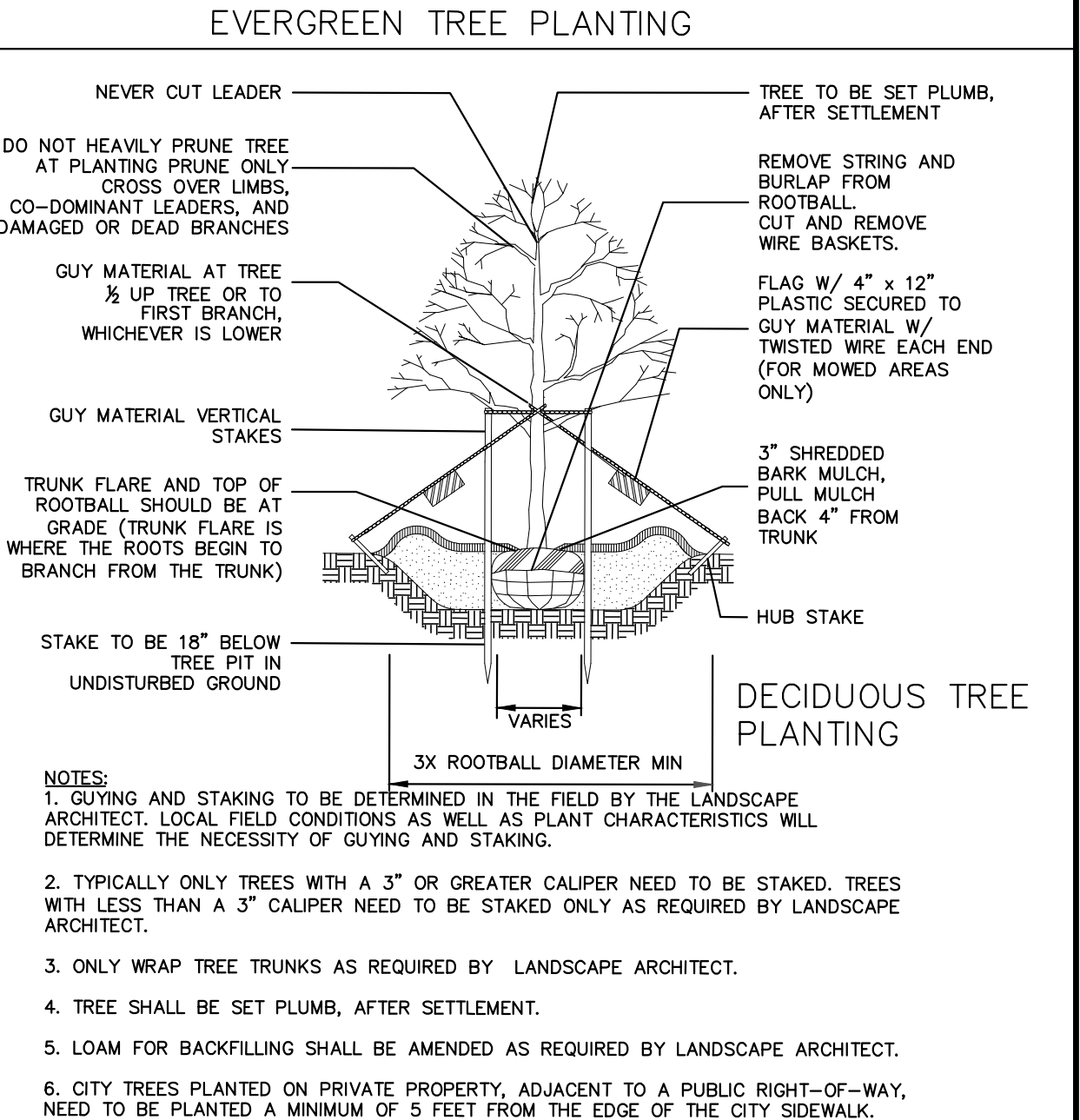
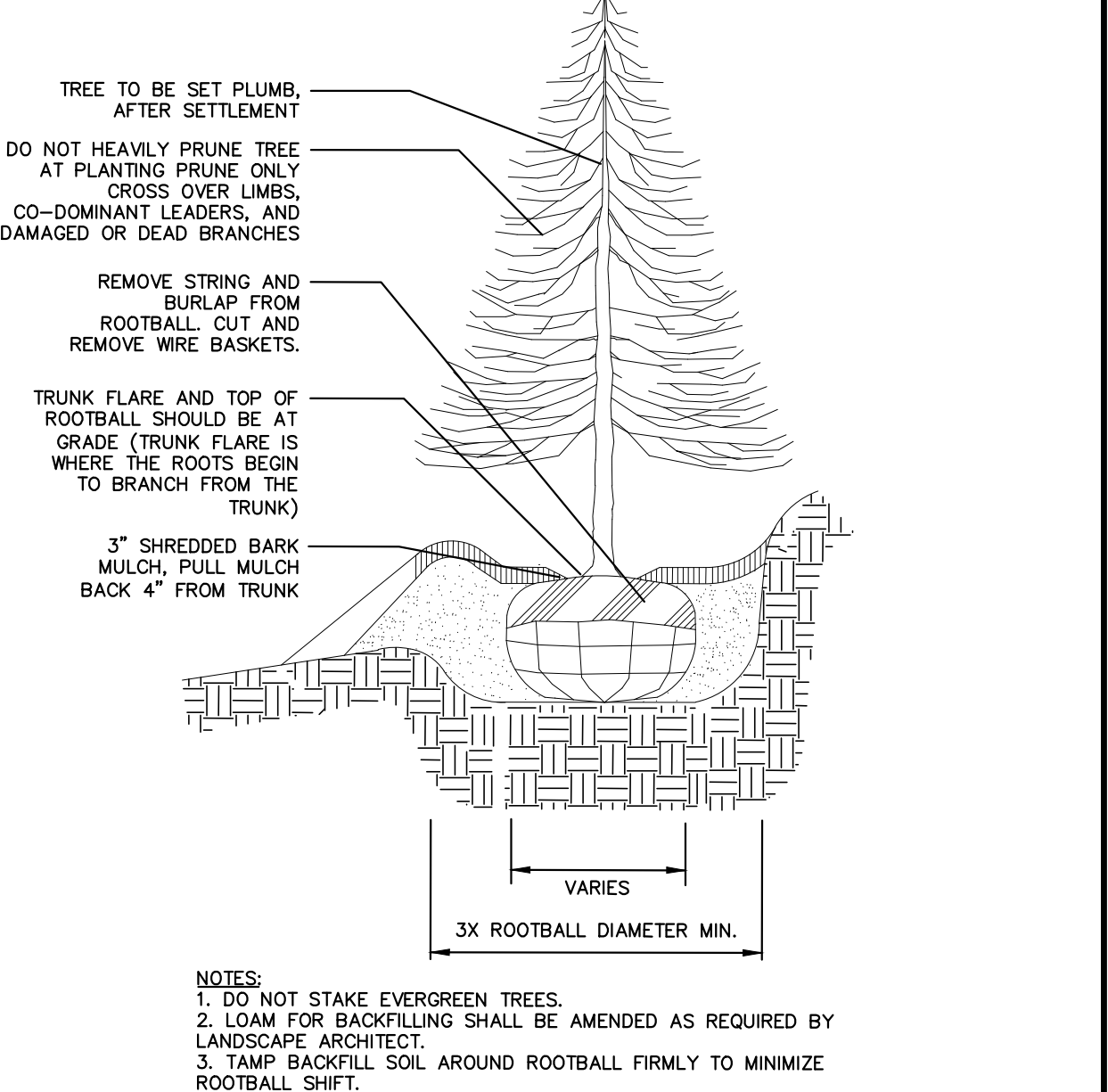
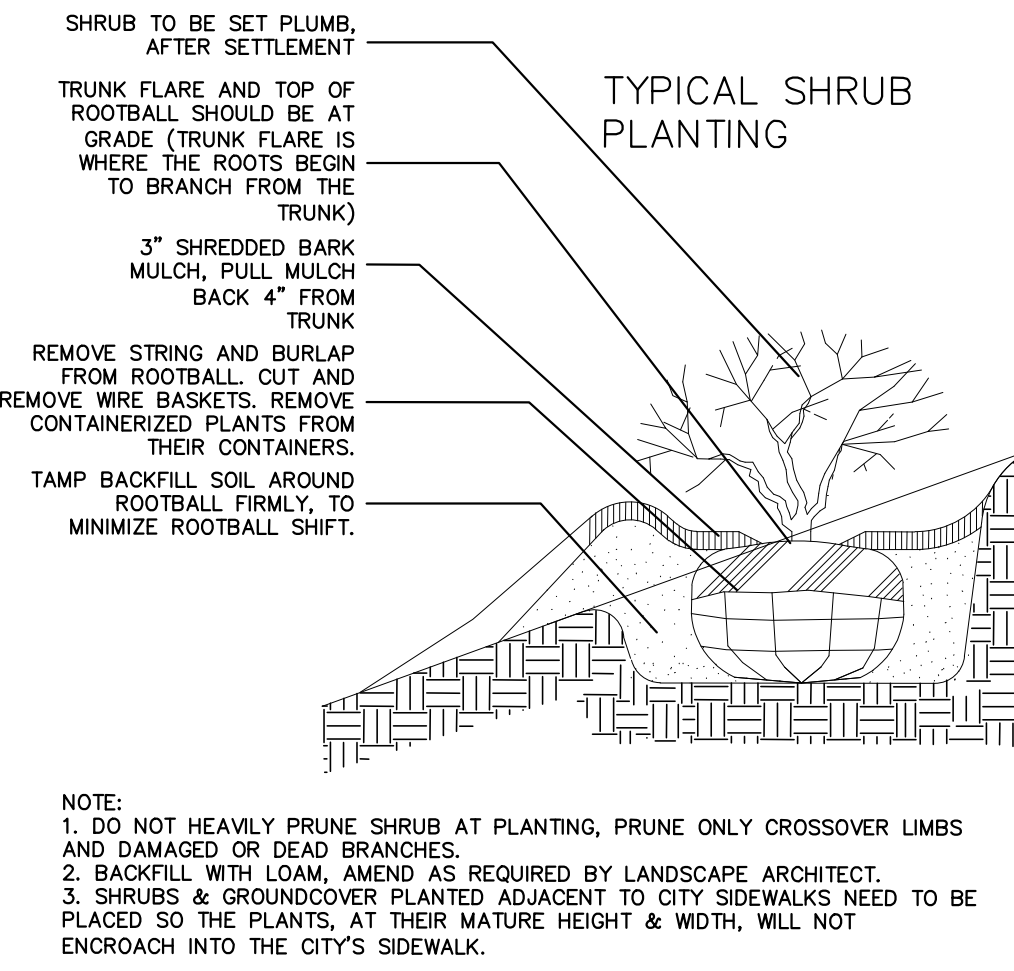
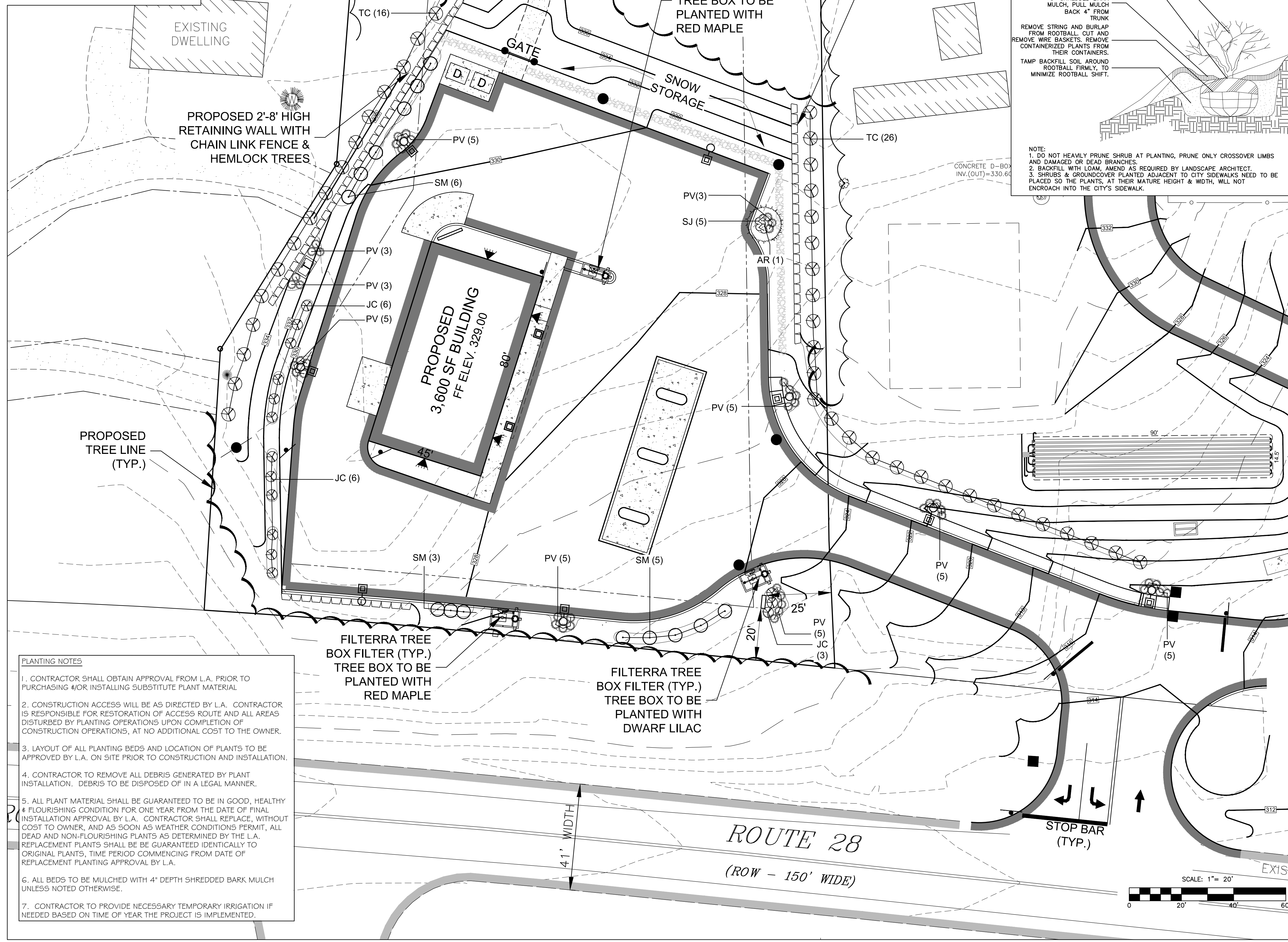
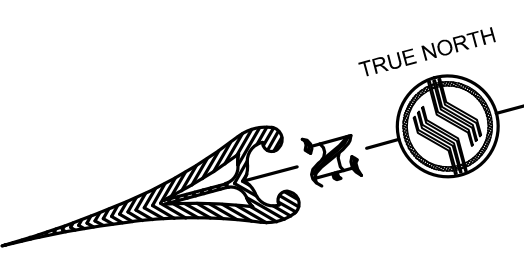
SFC ENGINEERING

1 INDUSTRIAL DRIVE WINDHAM, NH 03087 (603) 647-8700 www.sfceng.com

Sheet 12 of 12A Scale: N.T.S. Date: 5/10/2017

Prepared for: Niyati Realty, LLC 239 Steam Mill Road Auburn, NH 03032	Allenstown Planning Board Approval
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Zoning Classification: Open Space & Farming



- PLANTING NOTES**
1. CONTRACTOR SHALL OBTAIN APPROVAL FROM L.A. PRIOR TO PURCHASING #/OR INSTALLING SUBSTITUTE PLANT MATERIAL
 2. CONSTRUCTION ACCESS WILL BE AS DIRECTED BY L.A. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ACCESS ROUTE AND ALL AREAS DISTURBED BY PLANTING OPERATIONS UPON COMPLETION OF CONSTRUCTION OPERATIONS, AT NO ADDITIONAL COST TO THE OWNER.
 3. LAYOUT OF ALL PLANTING BEDS AND LOCATION OF PLANTS TO BE APPROVED BY L.A. ON SITE PRIOR TO CONSTRUCTION AND INSTALLATION.
 4. CONTRACTOR TO REMOVE ALL DEBRIS GENERATED BY PLANT INSTALLATION. DEBRIS TO BE DISPOSED OF IN A LEGAL MANNER.
 5. ALL PLANT MATERIAL SHALL BE GUARANTEED TO BE IN GOOD, HEALTHY & FLOURISHING CONDITION FOR ONE YEAR FROM THE DATE OF FINAL INSTALLATION APPROVAL BY L.A. CONTRACTOR SHALL REPLACE, WITHOUT COST TO OWNER, AND AS SOON AS WEATHER CONDITIONS PERMIT, ALL DEAD AND NON-FLOURISHING PLANTS AS DETERMINED BY THE L.A. REPLACEMENT PLANTS SHALL BE GUARANTEED IDENTICALLY TO ORIGINAL PLANTS, TIME PERIOD COMMENCING FROM DATE OF REPLACEMENT PLANTING APPROVAL BY L.A.
 6. ALL BEDS TO BE MULCHED WITH 4" DEPTH SHREDDED BARK MULCH UNLESS NOTED OTHERWISE.
 7. CONTRACTOR TO PROVIDE NECESSARY TEMPORARY IRRIGATION IF NEEDED BASED ON TIME OF YEAR THE PROJECT IS IMPLEMENTED.

Plant Schedule

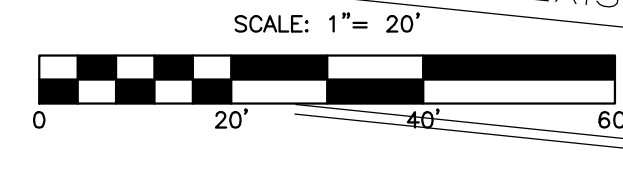
Botanical Name/ Common Name	Size	Label	Quantity
Trees			
<i>Acer rubrum</i> 'Red Sunset' / Red Sunset Maple	2.5-3" Cal	AR	3
<i>Tsuga canadensis</i> / Canadian Hemlock	7-8" B&B	TC	42
Shrubs			
<i>Syringa Meyer</i> / Dwarf Lilac	3-4" B&B	SM	15
<i>Juniperus chinensis</i> 'Seagreen' / Seagreen Juniper	2.5-3" B&B	JC	15
<i>Spiraea japonica</i> 'Little Princess' / Little Princess Spirea	#3 Gal.	SJ	5
Grasses			
<i>Panicum virgatum</i> 'Shenandoah' / Shenandoah Switch Grass	#2 Gal.	PV	44

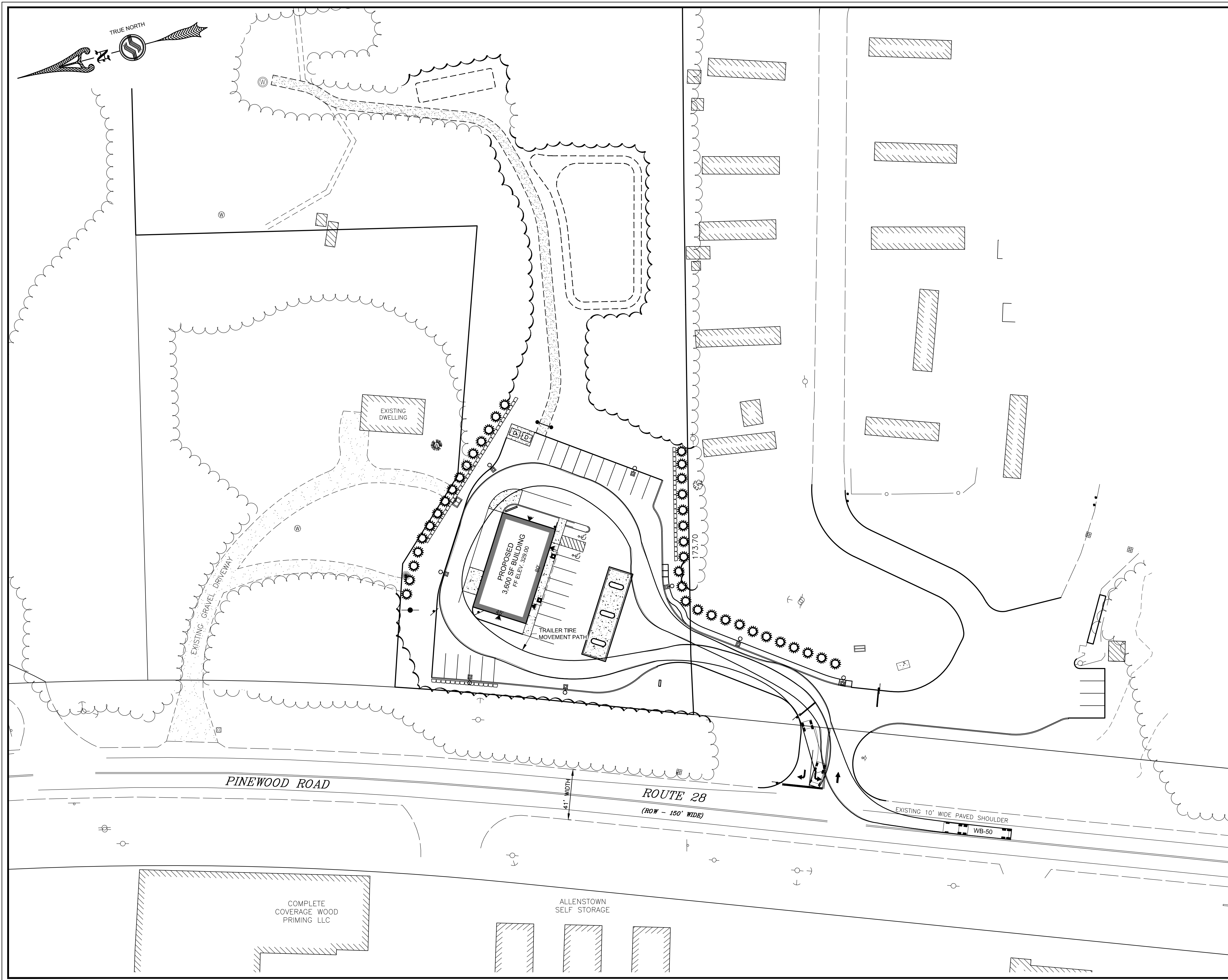
Landscape Plan
Niyati Realty, LLC
289 Pinewood Road
Allenstown, NH
 Assessors Map 409 Lot 32

Sheet LD1 Scale: 1" = 20' Date: 8/25/2017

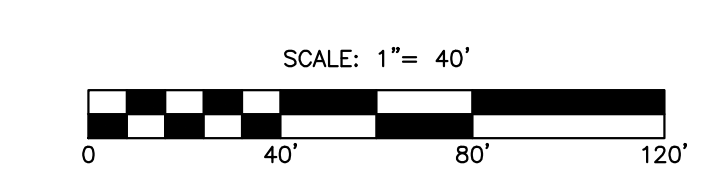
Prepared for: Niyati Realty, LLC 239 Steam Mill Road Auburn, NH 03032	Allenstown Planning Board Approval
--	---------------------------------------

Zoning Classification: Open Space & Farming





- NOTES**
1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE CIRCULATION MOVEMENTS OF A WB-50 TRUCK AND TRAILER THROUGH THE PROPOSED DEVELOPMENT OF ALLENSTOWN PROPERTY MAP 409 LOT 32.
 2. THE WB-50 REPRESENTS A 10,000 GALLON FUEL DELIVERY VEHICLE THAT IS EXPECTED TO ACCESS THIS SITE.



Site Rotation Revisions		
No.	Revision	Date
1		8/24/2017

Designed by: JRB Drawn by: JRB Checked by:

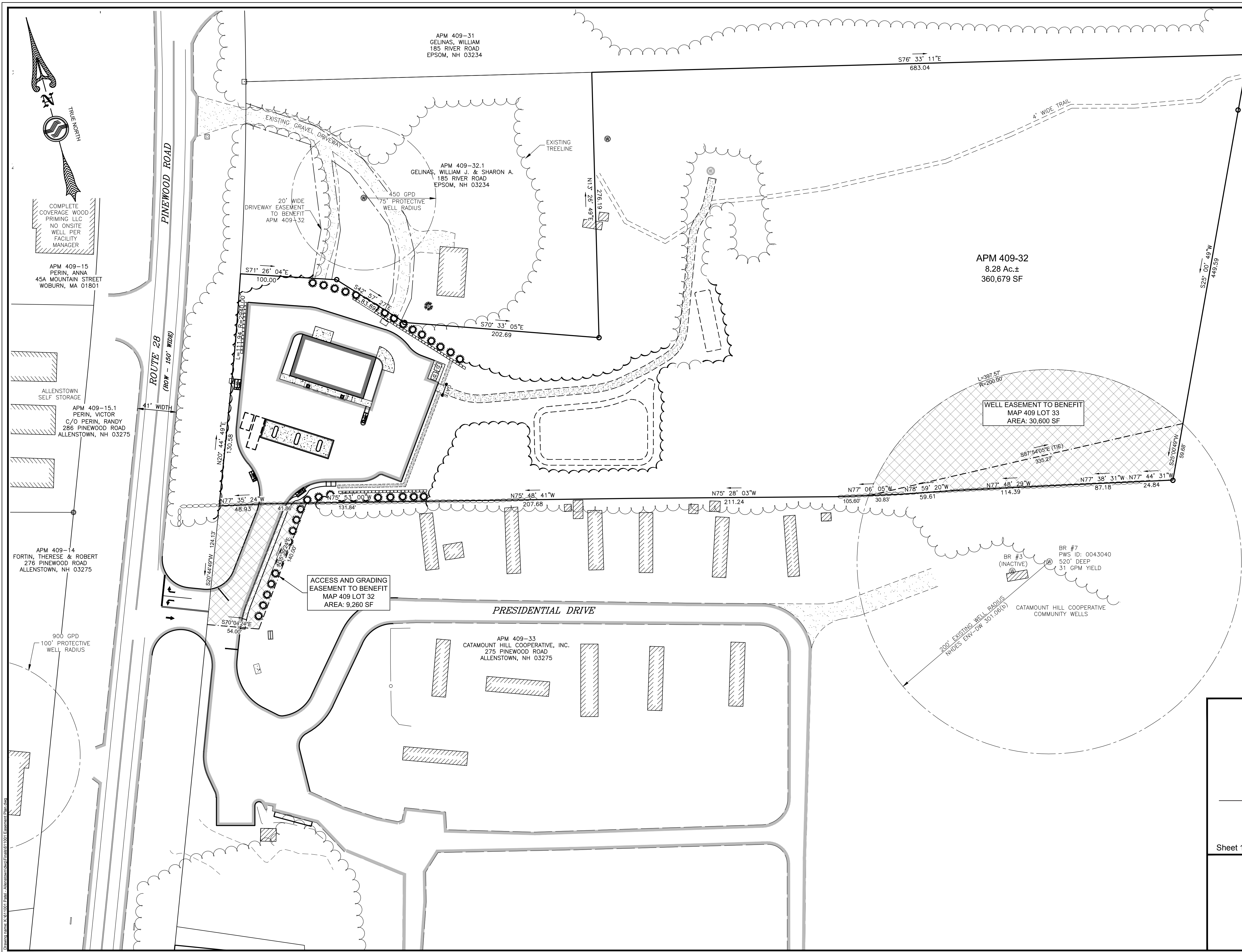
Truck Circulation Plan
Niyati Realty, LLC
289 Pinewood Road
Allenstown, NH
 Assessors Map 409 Lot 32

SFC
 ENGINEERING

1 INDUSTRIAL DRIVE
WINDHAM, NH 03087 (603) 647-8700
www.sfeng.com

Sheet 1 of 1 Scale: 1" = 40' Date: 5/10/2017

	Prepared for:	Allenstown Planning Board Approval
	Niyati Realty, LLC 239 Steam Mill Road Auburn, NH 03032	
Zoning Classification: Open Space & Farming		



PLANS OF REFERENCE

1. PLOT PLAN PREPARED FOR: BEAR BROOK VILLA, PREPARED BY: JOSEPH WICHERT, LLS, INC., DATED: MARCH 15, 2002
2. MINOR SUBDIVISION PREPARED FOR: ERIC KEELER, PREPARED BY: JOSEPH WICHERT, LLS, INC., DATED: DECEMBER 10, 2000, LAST REVISED: MAY 5, 2001, PLANNING BOARD APPROVAL DATED: APRIL 18, 2001, AND SIGNED BY PLANNING BOARD CHAIRPERSON ON MAY 7, 2001.
3. SUBDIVISION/LOT LINE ADJUSTMENT PLAN ON THE LAND OF PENRICH, INC. AND ASTIM, LLC PREPARED BY: HOLDEN ENGINEERING AND SURVEYING, INC., DATED: SEPTEMBER 16, 1998, LAST REVISED: JULY 30, 200.
4. NHDOT PROJECT #6023-1(1) ROADWAY PLANS FOR ROUTE 28, SHEETS 39 THROUGH 43, LAST REVISED: NOVEMBER 21, 1973.
5. CATAMOUNT HILL COOPERATIVE, INC. WATER SUPPLY IMPROVEMENTS, PREPARED BY: PROVAN & LORBER, INC., DATED: JULY 2010.

NOTES

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED EASEMENTS ON PROPERTY MAP 409 LOT 32 TO BENEFIT MAP 409 LOT 33 AND PROPOSED EASEMENTS ON MAP 409 LOT 33 TO BENEFIT MAP 409 LOT 32.
2. THE OWNER OF RECORD FOR MAP 409 LOT 32: NIYATI REALTY, LLC DEED REFERENCE BOOK 3457 PAGE 1389, MERRIMACK COUNTY REGISTRY OF DEEDS THE OWNER OF RECORD FOR MAP 409 LOT 33: CATAMOUNT HILL COOPERATIVE, INC. DEED REFERENCE BOOK 3035 PAGE 1289, MERRIMACK COUNTY REGISTRY OF DEEDS
3. THIS PLAN SHOWS CONDITIONS AS DEFINED BY INSTRUMENT FIELD SURVEY BY SFC ENGINEERING PARTNERSHIP, INC. ON 8/23/15-8/28/15. THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY BY SFC ENGINEERING PARTNERSHIP, INC.
4. ALL BOUNDARY INFORMATION SHOWN ON PLAN IS TAKEN FROM PLAN OF REFERENCE NO. 2.
5. INFORMATION SHOWN OUTSIDE THE PROPOSED DEVELOPMENT AREA HAS BEEN COMPLIED FROM PLANS OF REFERENCE AND IS APPROXIMATE ONLY.
6. ABUTTING WELL LOCATIONS HAVE BEEN COMPLIED FROM PLANS OF REFERENCE OR FIELD LOCATED. RESIDENTIAL WELL FLOWS TAKEN FROM TOWN ASSESSING RECORDS. CATAMOUNT HILL COOPERATIVE WELL FLOWS TAKEN FROM NHDES RECORDS.

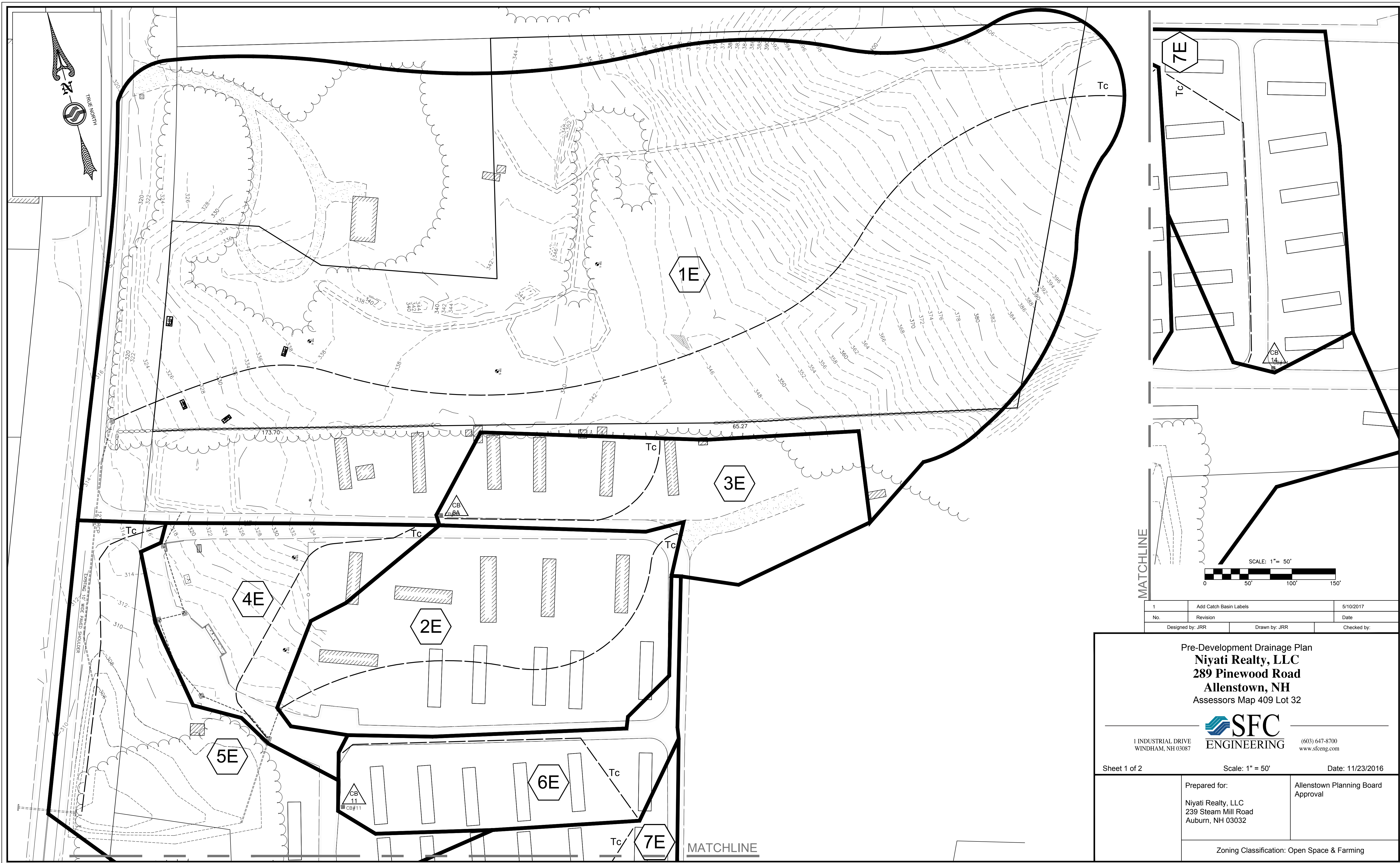
1	Site Rotation Revisions	8/24/2017
No.	Revision	Date
	Designed by: JRB	Drawn by: JRB
		Checked by: GRF

Easement Plan
Niyati Realty, LLC
289 Pinewood Road
Allenstown, NH
 Assessors Map 409 Lot 32

1 INDUSTRIAL DRIVE WINDHAM, NH 03087 (603) 647-8700 www.sfcceng.com


Sheet 1 of 1 Scale: 1" = 50' Date: 5/18/2017

Prepared for: Niyati Realty, LLC 239 Steam Mill Road Auburn, NH 03032	Allenstown Planning Board Approval
Zoning Classification: Open Space & Farming	



1	Add Catch Basin Labels	5/10/2017
No.	Revision	Date
Designed by: JRR	Drawn by: JRR	Checked by:

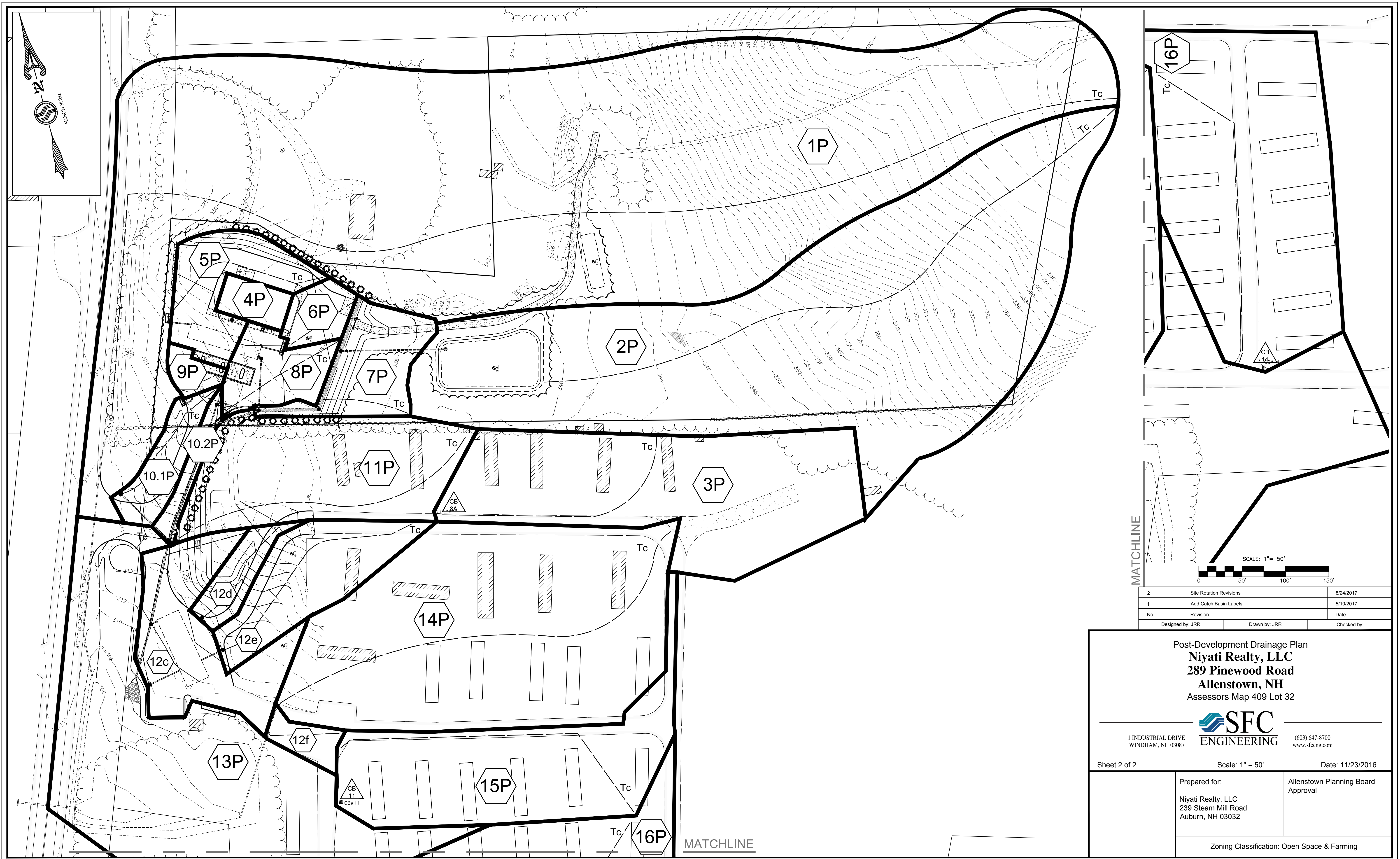
Pre-Development Drainage Plan
Niyati Realty, LLC
 289 Pinewood Road
 Allenstown, NH
 Assessors Map 409 Lot 32


 SFC ENGINEERING

1 INDUSTRIAL DRIVE WINDHAM, NH 03087 (603) 647-8700 www.sfceng.com

Sheet 1 of 2 Scale: 1" = 50' Date: 11/23/2016

Prepared for: Niyati Realty, LLC 239 Steam Mill Road Auburn, NH 03032	Allenstown Planning Board Approval
Zoning Classification: Open Space & Farming	



2	Site Rotation Revisions	8/24/2017
1	Add Catch Basin Labels	5/10/2017
No.	Revision	Date
Designed by: JRR		Checked by:
Drawn by: JRR		

Post-Development Drainage Plan
Niyati Realty, LLC
 289 Pinewood Road
 Allentown, NH
 Assessors Map 409 Lot 32

SFC
 ENGINEERING

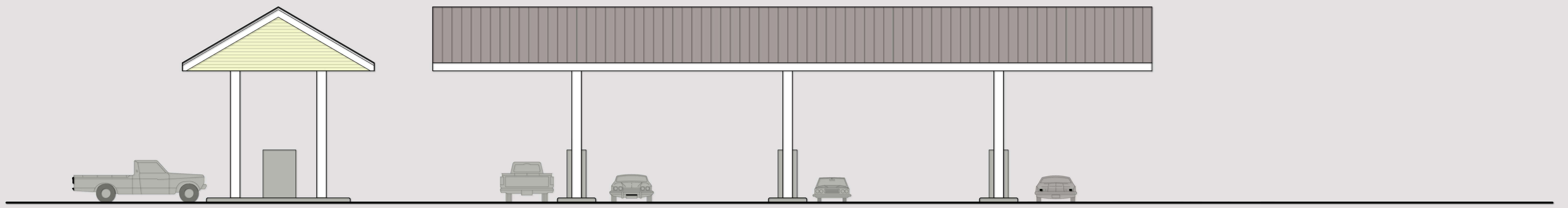
1 INDUSTRIAL DRIVE
 WINDHAM, NH 03087

(603) 647-8700
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Sheet 2 of 2 Scale: 1" = 50' Date: 11/23/2016

Prepared for: Niyati Realty, LLC 239 Steam Mill Road Auburn, NH 03032	Allenstown Planning Board Approval
--	---------------------------------------

Zoning Classification: Open Space & Farming



EXTERIOR ELEVATIONS

NIYATI REALTY, LLC
289 PINEWOOD ROAD, ALLENSTOWN, NH

