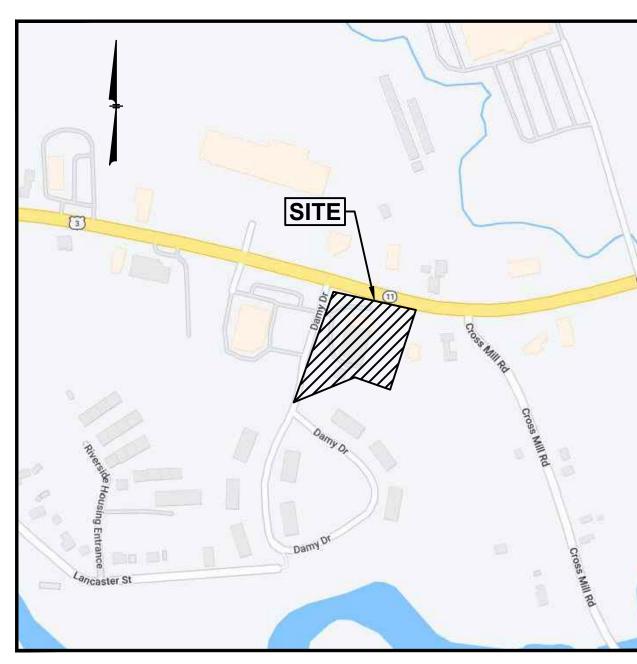
PROPOSED RETAIL MOTOR FUEL OUTLET SITE RE-DEVELOPMENT PLANS

for
ASSESSORS MAP 148 LOT 15.2
901 CENTRAL STREET
FRANKLIN, NEW HAMPSHIRE
Prepared for:

TROPIC STAR DEVELOPMENT, LLC

321D LAFAYETTE ROAD HAMPTON, NH 03842



LOCATION MAP

(NOT TO SCALE)

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- . DEMOLITION PLAN
- I. SITE PLAN
- 5. GRADING & DRAINAGE PLAN
- 6. UTILITY PLAN
- . EROSION & SEDIMENT CONTROL PLAN
- LANDSCAPE PLAN
- . DETAIL SHEET
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- 1 OF 1. TRUCK TURN PLAN
- 1 OF 1. SIGN & GRAPHICS PLAN 1 OF 1 LIGHTING PLAN (RL-8366-S1-R1)
- 2 OF 2. LIGHTING SPECIFICATIONS (RL-8366-S1-R1)
- 1 OF 2. BUILDING ELEVATIONS (A2.1)
- 2 OF 2. BUILDING ELEVATIONS (A2.1)
- 1 OF 1. CANOPY ELEVATIONS

Engineering
Design
Planning
Construction Manageme
603.893.0720 GPINET.COM
Greenman-Pedersen, Inc.
44 Stiles Road, Suite One
Salem, NH 03079

PREPARED FOR
TROPIC STAR
DEVELOPMENT, LLC
321D LAFAYETTE ROA
HAMPTON, NH 03842

OTOR FUEL OUTLET
AP 148 LOT 15.2
11 CENTRAL STREET

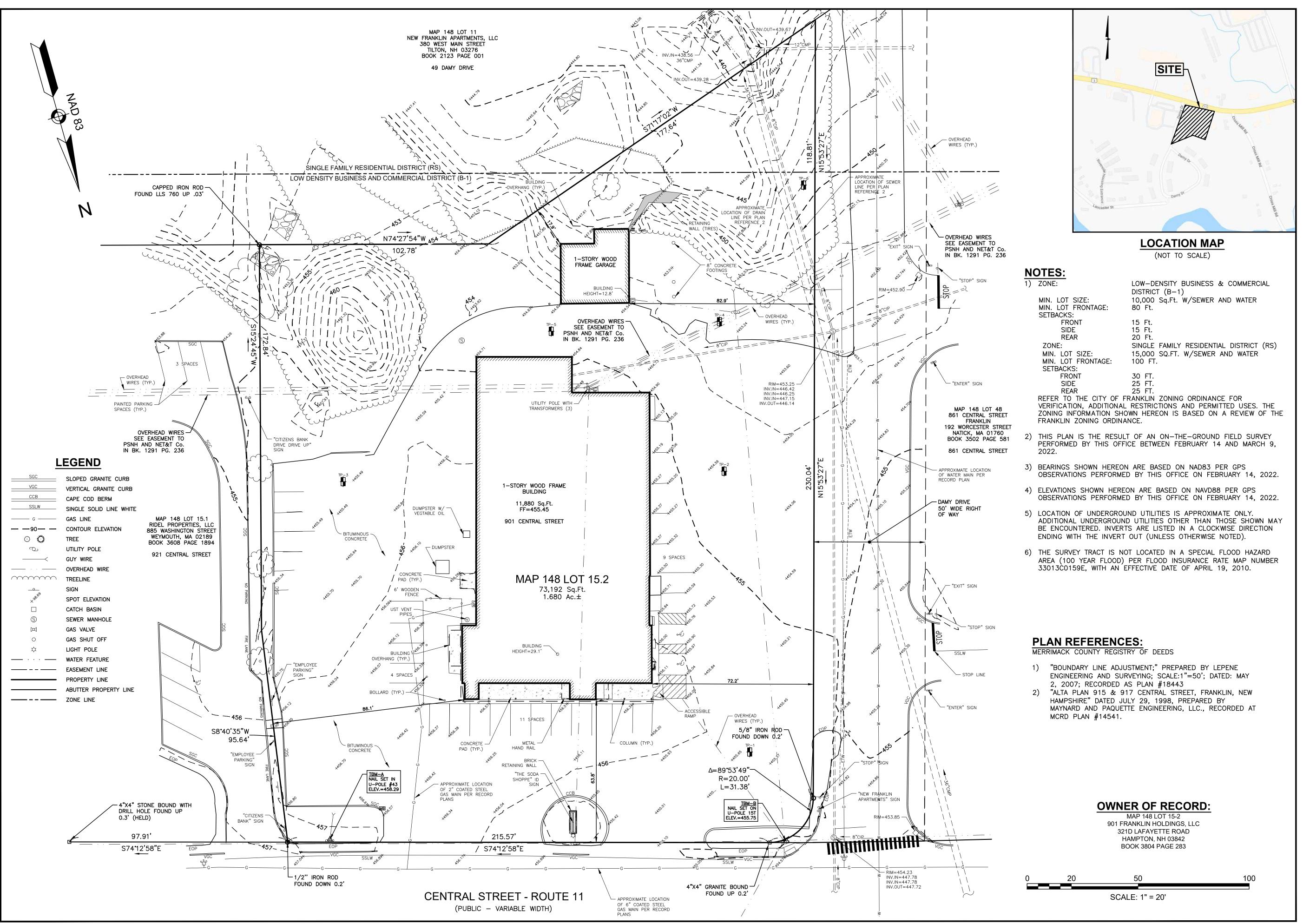


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TITLE SHEET

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HAMPTON, NH 03842

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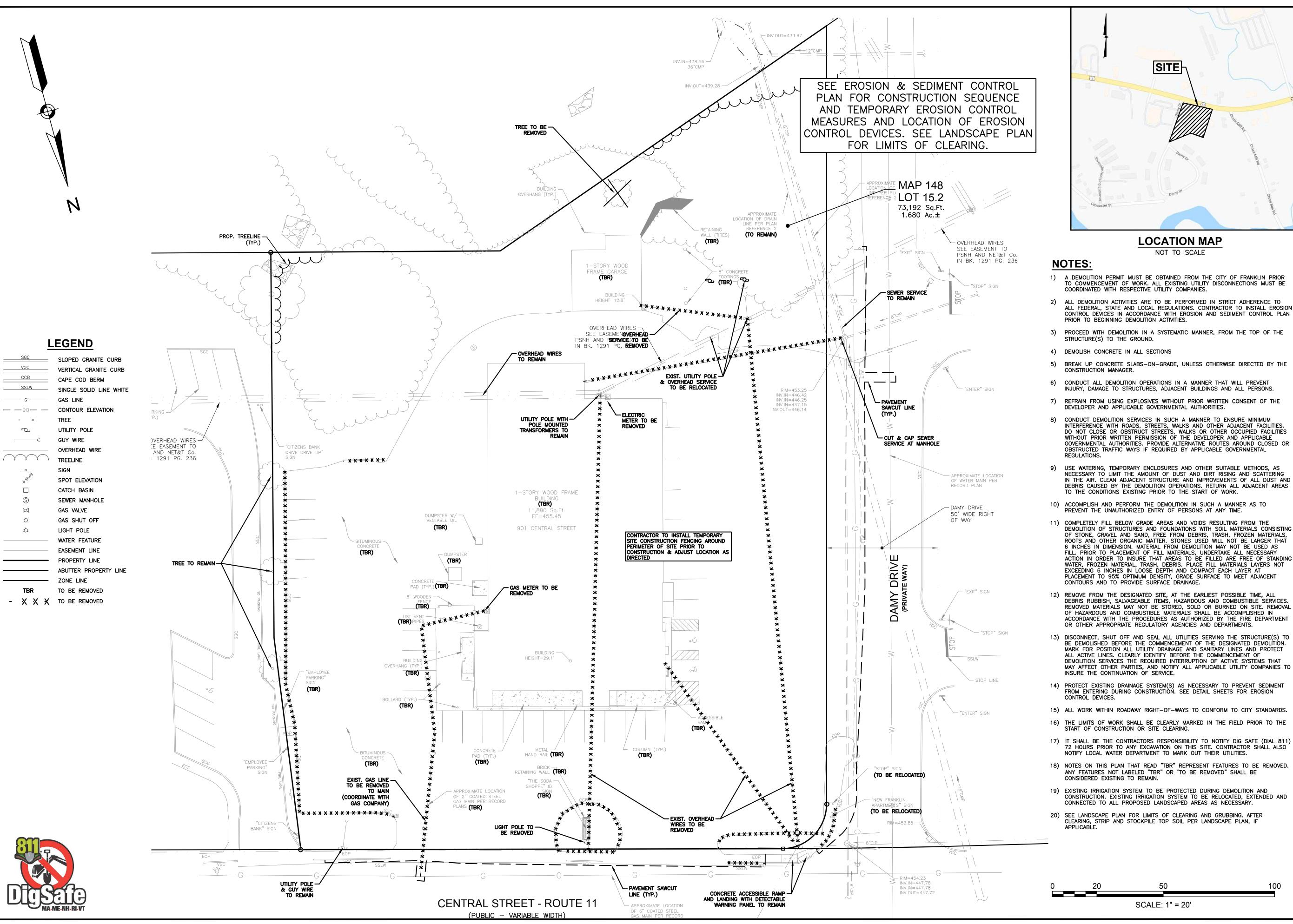
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EXISTING CONDITIONS PLAN

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2 OF 14



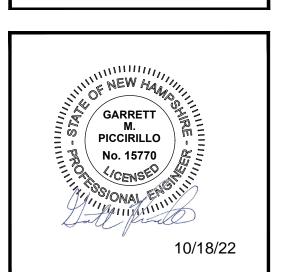


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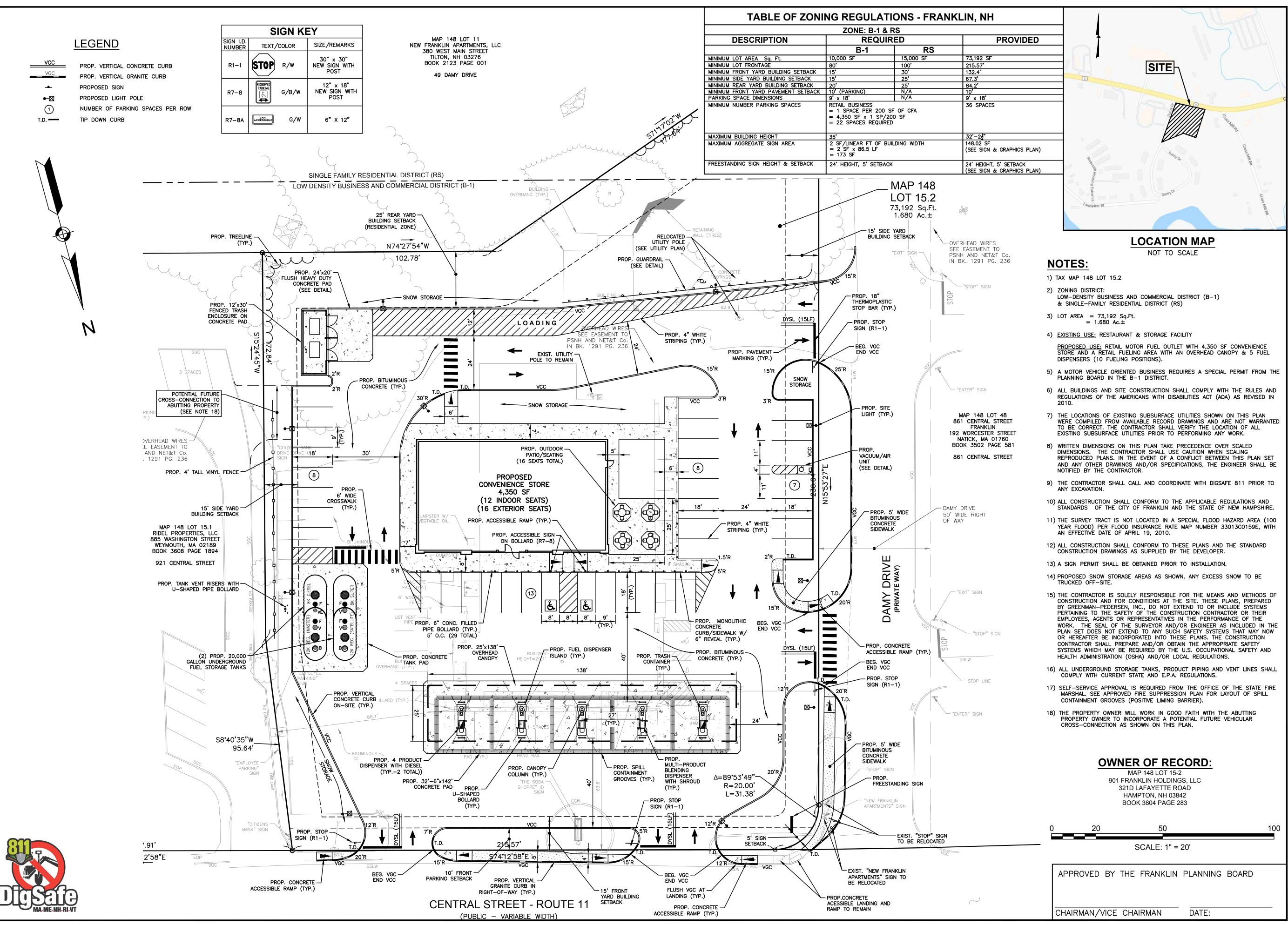
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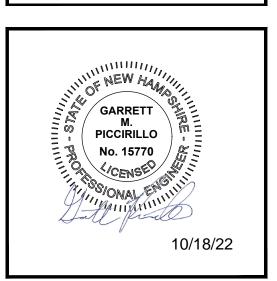
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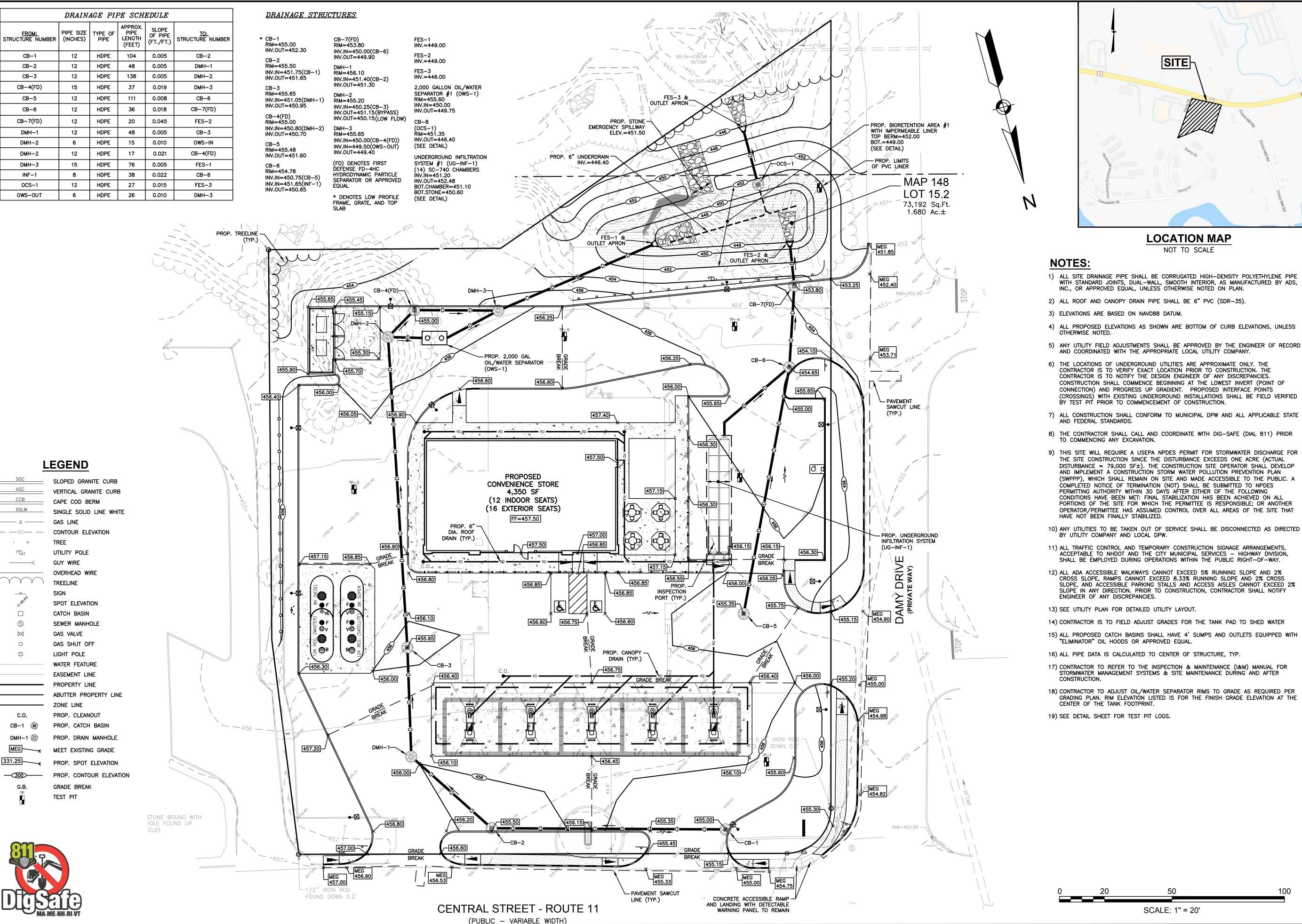
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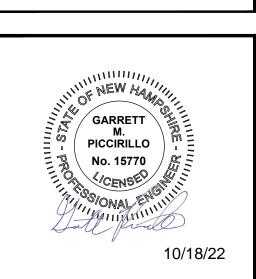




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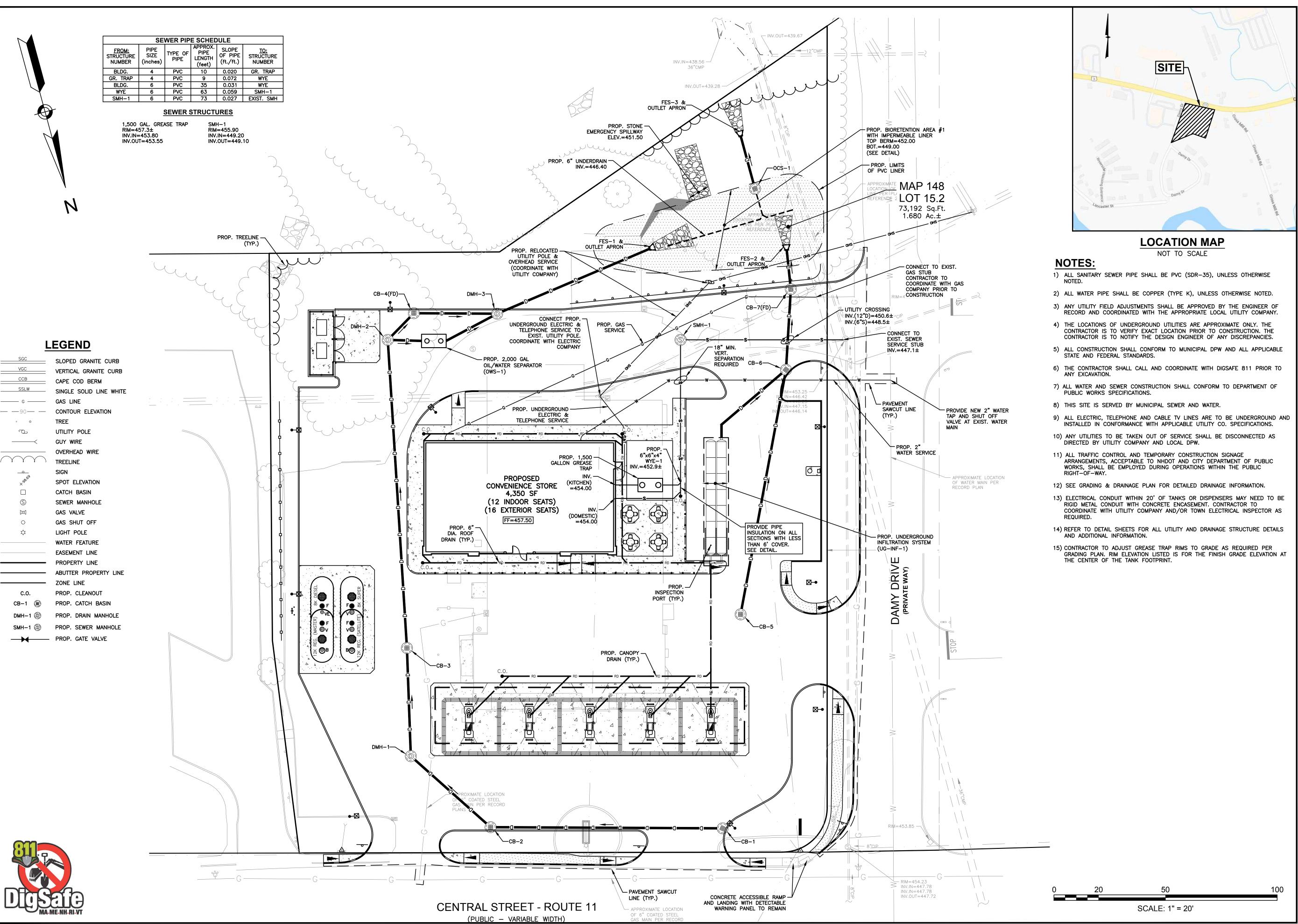
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GRADING & DRAINAGE PLAN

SCALE: 1"=20' PROJECT NO.

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NEX-2200013





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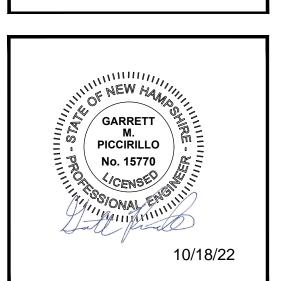
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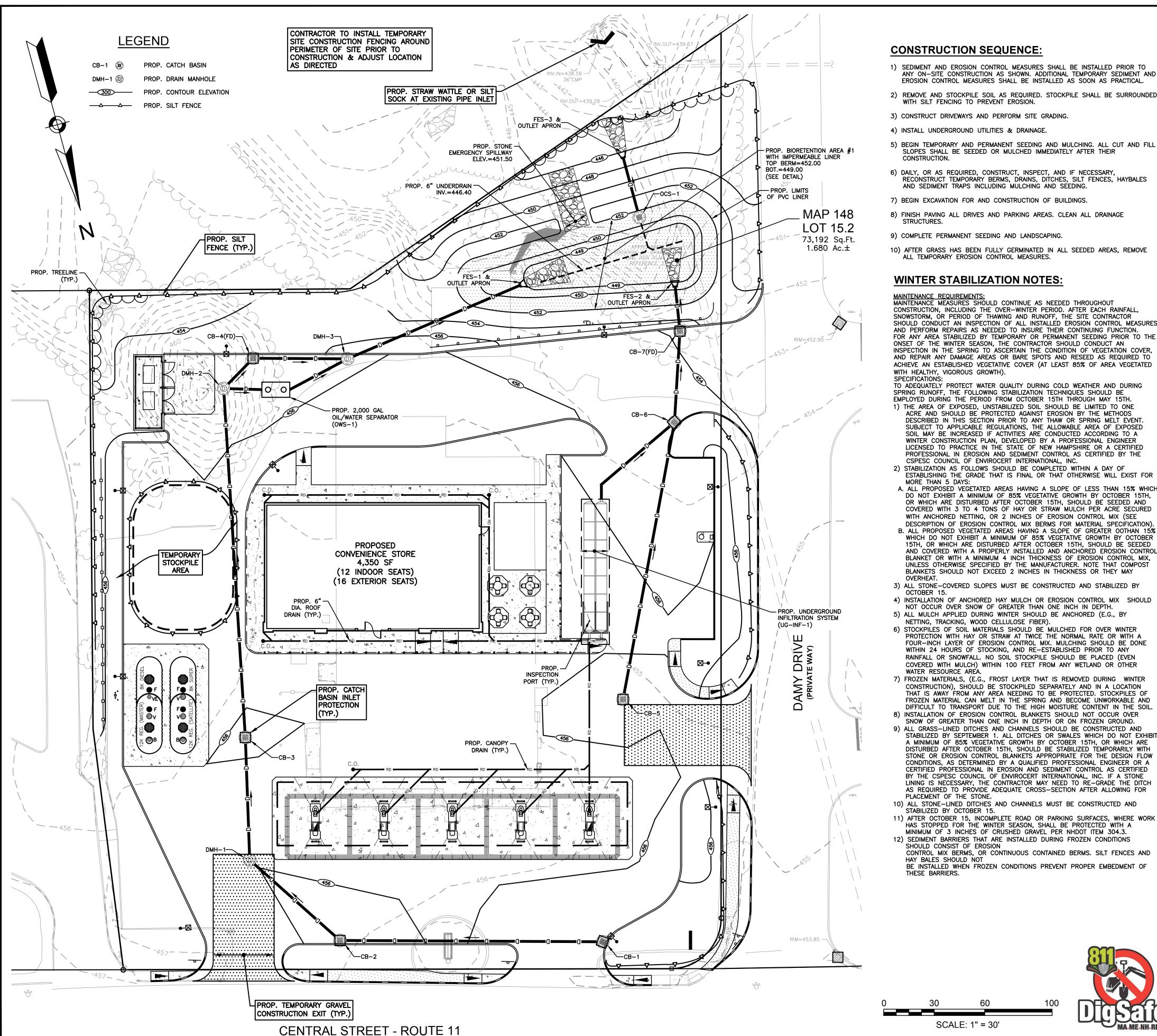
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CONSTRUCTION SEQUENCE:

- 1) SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY ON-SITE CONSTRUCTION AS SHOWN. ADDITIONAL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICAL.
- 2) REMOVE AND STOCKPILE SOIL AS REQUIRED. STOCKPILE SHALL BE SURROUNDED WITH SILT FENCING TO PREVENT EROSION.
- 3) CONSTRUCT DRIVEWAYS AND PERFORM SITE GRADING.
- 4) INSTALL UNDERGROUND UTILITIES & DRAINAGE.
- 5) BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED OR MULCHED IMMEDIATELY AFTER THEIR
- 6) DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES, HAYBALES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING.
- 7) BEGIN EXCAVATION FOR AND CONSTRUCTION OF BUILDINGS.
- 8) FINISH PAVING ALL DRIVES AND PARKING AREAS. CLEAN ALL DRAINAGE STRUCTURES.
- 9) COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 10) AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDED AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

WINTER STABILIZATION NOTES

MAINTENANCE REQUIREMENTS:
MAINTENANCE MEASURES SHOULD CONTINUE AS NEEDED THROUGHOUT CONSTRUCTION, INCLUDING THE OVER-WINTER PERIOD. AFTER EACH RAINFALL, SNOWSTORM, OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHOULD CONDUCT AN INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUING FUNCTION. FOR ANY AREA STABILIZED BY TEMPORARY OR PERMANENT SEEDING PRIOR TO THE ONSET OF THE WINTER SEASON, THE CONTRACTOR SHOULD CONDUCT AN INSPECTION IN THE SPRING TO ASCERTAIN THE CONDITION OF VEGETATION COVER, AND REPAIR ANY DAMAGE AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH). SPECIFICATIONS:

TO ADEQUATELY PROTECT WATER QUALITY DURING COLD WEATHER AND DURING SPRING RUNOFF, THE FOLLOWING STABILIZATION TECHNIQUES SHOULD BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15TH THROUGH MAY 15TH. 1) THE AREA OF EXPOSED, UNSTABILIZED SOIL SHOULD BE LIMITED TO ONE ACRE AND SHOULD BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SPRING MELT EVENT SUBJECT TO APPLICABLE REGULATIONS, THE ALLOWABLE AREA OF EXPOSED SOIL MAY BE INCREASED IF ACTIVITIES ARE CONDUCTED ACCORDING TO A WINTER CONSTRUCTION PLAN, DEVELOPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW HAMPSHIRE OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL AS CERTIFIED BY THE CSPESC COUNCIL OF ENVIROCERT INTERNATIONAL, INC.

2) STABILIZATION AS FOLLOWS SHOULD BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS:

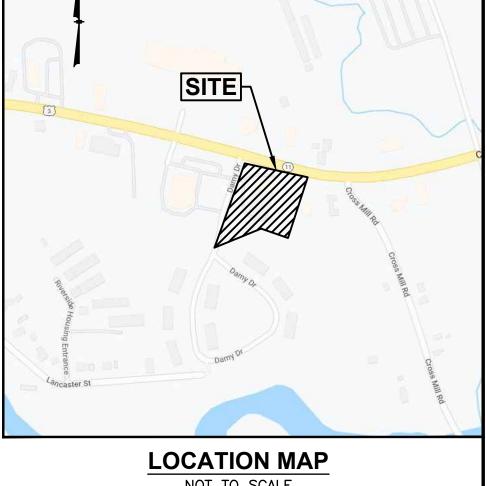
A. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (SEE

DESCRIPTION OF EROSION CONTROL MIX BERMS FOR MATERIAL SPECIFICATION) B. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER OOTHAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE SEEDED AND COVERED WITH A PROPERLY INSTALLED AND ANCHORED EROSION CONTROL BLANKET OR WITH A MINIMUM 4 INCH THICKNESS OF EROSION CONTROL MIX. UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHOULD NOT EXCEED 2 INCHES IN THICKNESS OR THEY MAY

- 3) ALL STONE-COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
- 4) INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHOULD NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH.
- 5) ALL MULCH APPLIED DURING WINTER SHOULD BE ANCHORED (E.G., BY NETTING, TRACKING, WOOD CELLULOSE FIBER)
- 6) STOCKPILES OF SOIL MATERIALS SHOULD BE MULCHED FOR OVER WINTER

SCALE: 1" = 30'

- PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A FOUR-INCH LAYER OF EROSION CONTROL MIX. MULCHING SHOULD BE DONE WITHIN 24 HOURS OF STOCKING, AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. NO SOIL STOCKPILE SHOULD BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100 FEET FROM ANY WETLAND OR OTHER WATER RESOURCE AREA.
- 7) FROZEN MATERIALS, (E.G., FROST LAYER THAT IS REMOVED DURING WINTER CONSTRUCTION), SHOULD BE STOCKPILED SEPARATELY AND IN A LOCATION THAT IS AWAY FROM ANY AREA NEFDING TO BE PROTECTED. STOCKPILES OF FROZEN MATERIAL CAN MELT IN THE SPRING AND BECOME UNWORKABLE AND DIFFICULT TO TRANSPORT DUE TO THE HIGH MOISTURE CONTENT IN THE SOIL.
- 8) INSTALLATION OF EROSION CONTROL BLANKETS SHOULD NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH OR ON FROZEN GROUND. 9) ALL GRASS-LINED DITCHES AND CHANNELS SHOULD BE CONSTRUCTED AND
- STABILIZED BY SEPTEMBER 1. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS, AS DETERMINED BY A QUALIFIED PROFESSIONAL ENGINEER OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL AS CERTIFIED BY THE CSPESC COUNCIL OF ENVIROCERT INTERNATIONAL, INC. IF A STONE LINING IS NECESSARY, THE CONTRACTOR MAY NEED TO RE-GRADE THE DITCH AS REQUIRED TO PROVIDE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE.
- 10) ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
- HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.
- 12) SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHOULD CONSIST OF EROSION CONTROL MIX BERMS, OR CONTINUOUS CONTAINED BERMS. SILT FENCES AND
- HAY BALES SHOULD NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BARRIERS.



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EROSION CONTROL NOTES:

- 1) THE EROSION CONTROL PROCEDURES SHALL CONFORM TO THE NH STORMWATER MANUAL, VOLUME 3, EROSION & SEDIMENT CONTROLS DURING CONSTRUCTION, DECEMBER 2008, OR LATEST EDITION.
- 2) DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED: THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME AS APPROVED BY THE ENGINEER. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER MONTHS.
- 3) LIMIT OF MAXIMUM AREA OF EXPOSED SOIL AT ANY ONE TIME TO LESS THAN 5 ACRES. THE EXPOSED AREA THAT IS BEING ACTIVELY WORKED DURING WINTER IS TO BE LESS THAN 3 ACRES DURING THE WINTER SEASON.
- 4) ALL PERMANENT STORM WATER STRUCTURES SHALL BE STABILIZED PRIOR TO DIRECTING FLOW INTO THEM. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURED:
- A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED. B) A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED. C) A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED.
- D) OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 5) SILT FENCE SHALL BE INSTALLED AND MAINTAINED DURING AND AFTER DEVELOPMENT TO REMOVE SEDIMENT FROM RUNOFF WATER AND FROM LAND UNDERGOING DEVELOPMENT. WHERE POSSIBLE. NATURAL DRAINAGE WAYS SHOULD BE UTILIZED AND LEFT OPEN TO REMOVE EXCESS SURFACE WATER. SILT FENCE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF
- 6) ALL DISTURBED AREAS AND SIDE SLOPES WHICH ARE FINISHED GRADED, WITH NO FURTHER CONSTRUCTION TO TAKE PLACE, SHALL BE LOAMED AND SEEDED WITHIN 72 HOURS AFTER FINAL GRADING, A MINIMUM OF 4" OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. THE SEED MIX SHALL BE AS DESIGNATED BELOW.
- 7) ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION. THE MAXIMUM LENGTH OF TIME FOR THE EXPOSURE OF DISTURBED SOILS SHALL BE 45 DAYS. HAY OR STRAW MULCH SHALL BE APPLIED TO ALL FRESHLY SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE. BALES SHALL BE UNSPOILED, AIR DRIED, AND FREE FROM WEED, SEEDS AND ANY COARSE MATERIAL.
- 8) DURING GRADING OPERATIONS INSTALL HAY BALE BARRIERS ALONG TOE OF SLOPE OF FILL AREAS WHERE SHOWN. BARRIERS ARE TO BE MAINTAINED UNTIL DISTURBED AREAS ARE PAVED OR GRASSED.
- 9) THE FILL MATERIAL SHALL BE OF APPROVED SOIL TYPE FREE FROM STUMPS, ROOTS, WOOD, ETC. TO BE PLACED IN 12" LIFTS OR AS SPECIFIED. BULLDOZERS, TRUCKS, TRACTORS, OR ROLLERS MAY BE USED FOR COMPACTION BY ROUTING THE EQUIPMENT TO ALL AREAS OR EACH LAYER.
- 10) AVOID THE USE OF FUTURE OPEN SPACES (LOAM & SEED) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF

TEMPORARY EROSION CONTROL MEASURES:

- 1) THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
- 2) SEDIMENT CONTROL FENCE SHALL BE INSTALLED AS REQUIRED. FENCE IS TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.
- 3) BALED HAY AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE FROM NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY. NO SALT HAY SHALL BE USED.
- 4) FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.
- 5) STOCKPILED MATERIALS SHALL BE PLACED ONLY IN AREAS SHOWN ON THE PLANS. STOCKPILES SHALL BE PROTECTED BY SILT FENCING AND SEEDED TO PREVENT EROSION. THESE MEASURES SHALL REMAIN UNTIL ALL MATERIAL HAS BEEN PLACED OR DISPOSED OFF SITE.
- 6) ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA.
- 7) SEED MIX SHALL BE EQUAL PARTS OF RED FESCUE (CREEPING), KENTUCKY BLUE GRASS, REDTOP, PERENNIAL RYEGRASS.
- 8) AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED.
- 9) PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 10) ALL CATCH BASIN INLETS WILL BE PROTECTED WITH INLET PROTECTION.
- 11) ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AND CLEANED AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- 12) ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT
- 13) TO PREVENT TRACKING OF SEDIMENT ONTO THE EXISTING ROADS, ALL CONSTRUCTION TRAFFIC CAN ONLY EXIT THE SITE OVER THE CONSTRUCTION ENTRANCES SHOWN ON THIS PLAN.



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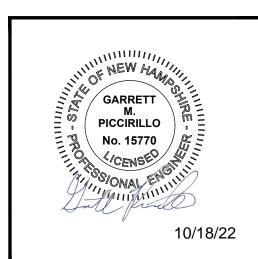
TROPIC STAR

DEVELOPMENT, LLC

321D LAFAYETTE ROAD

HAMPTON, NH 03842

PREPARED FOR



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EROSION & SEDIMENT CONTROL PLAN

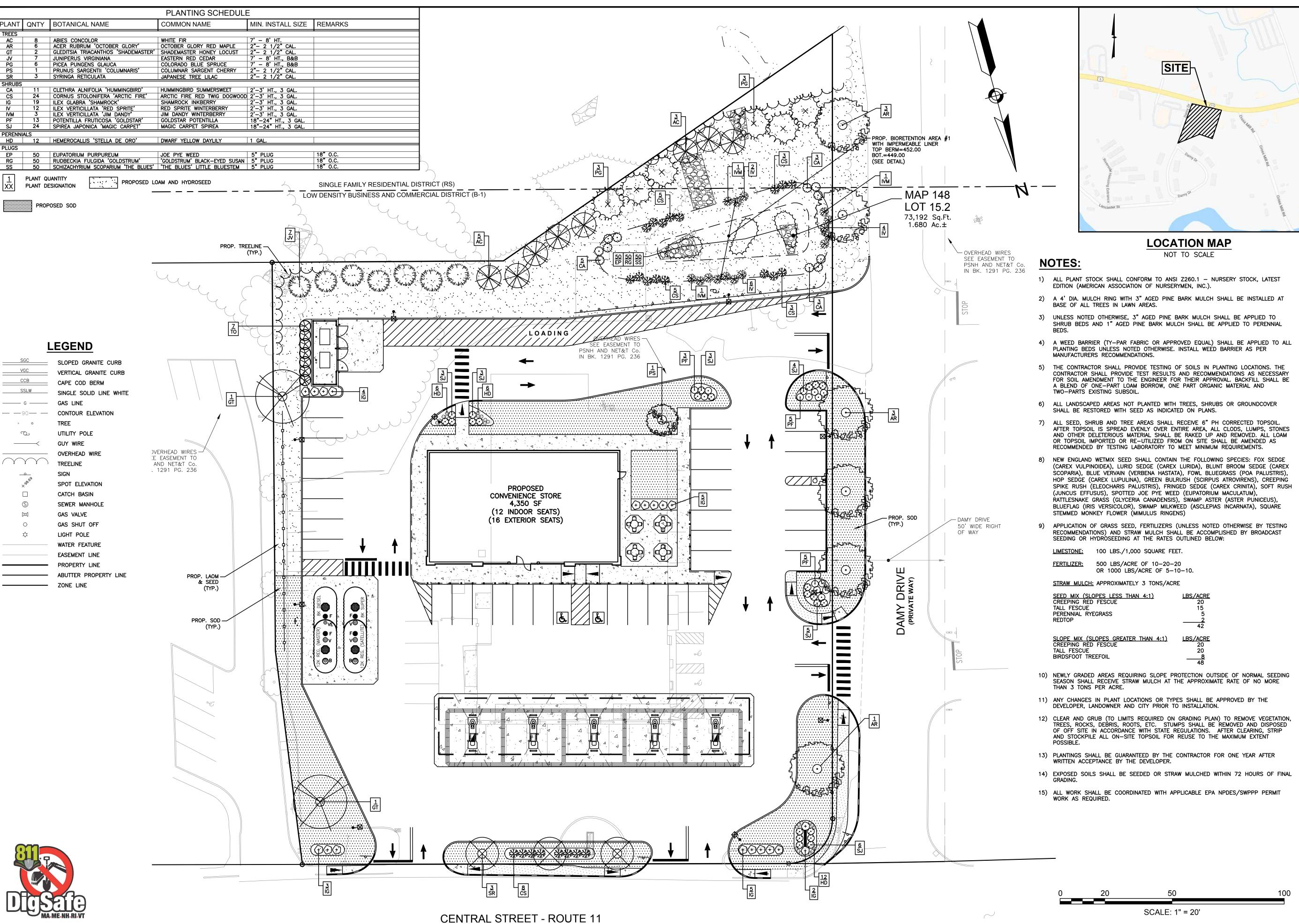
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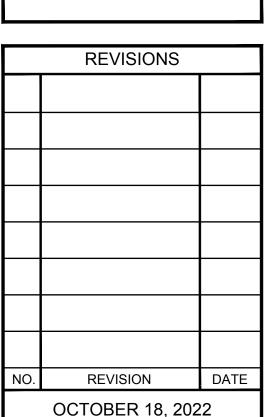
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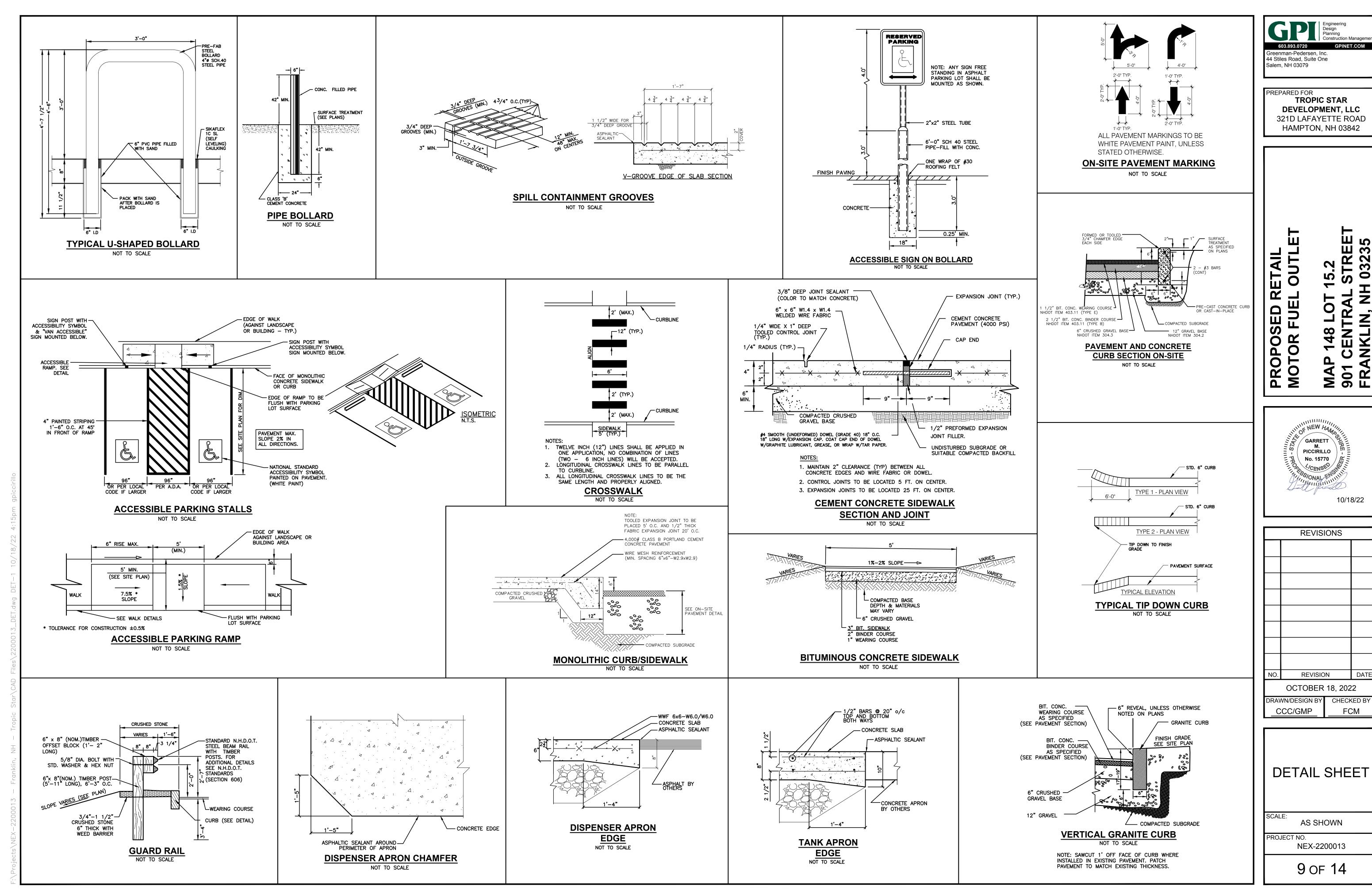


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> LANDSCAPE **PLAN**

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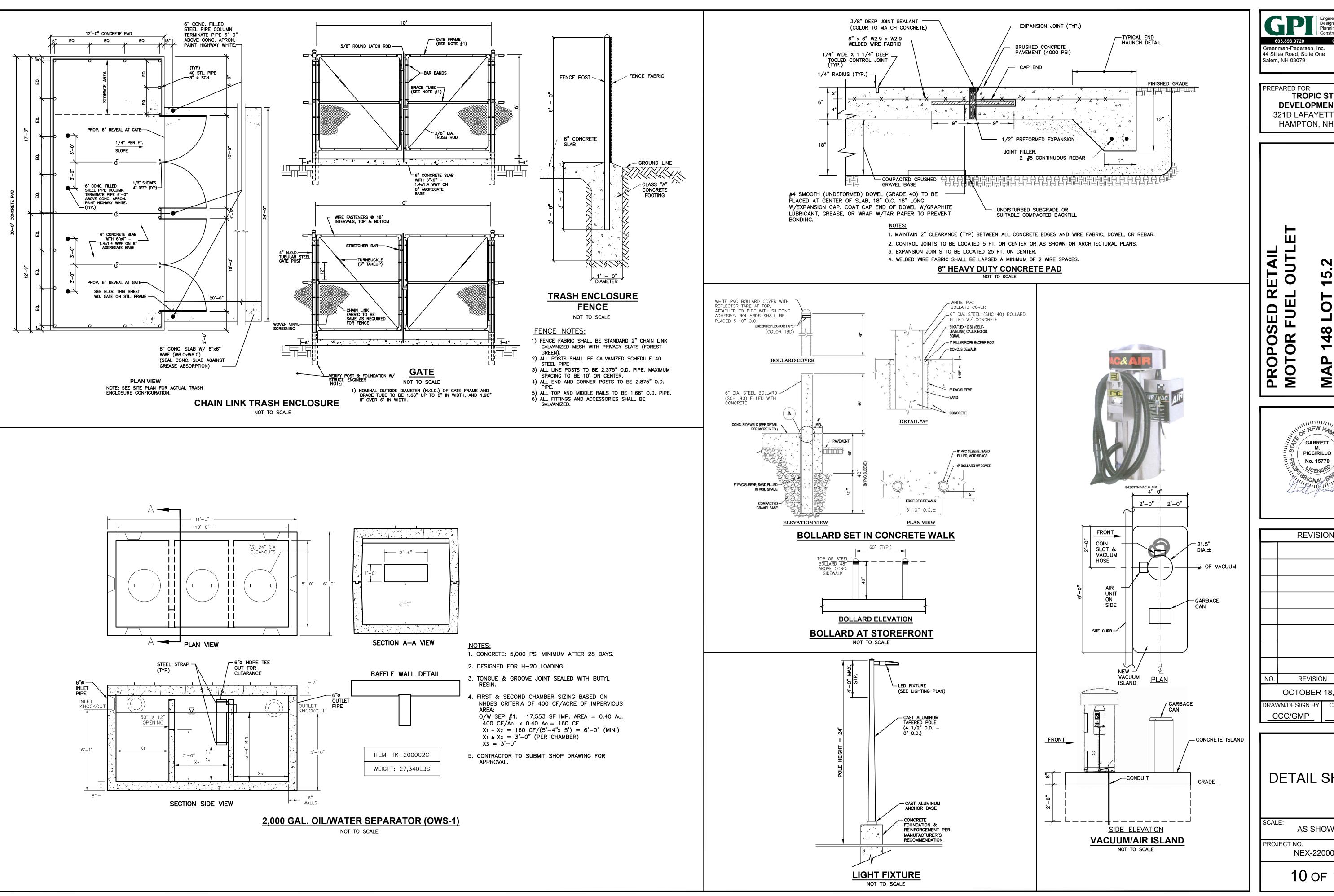


DEVELOPMENT, LLC 321D LAFAYETTE ROAD

HAMPTON, NH 03842

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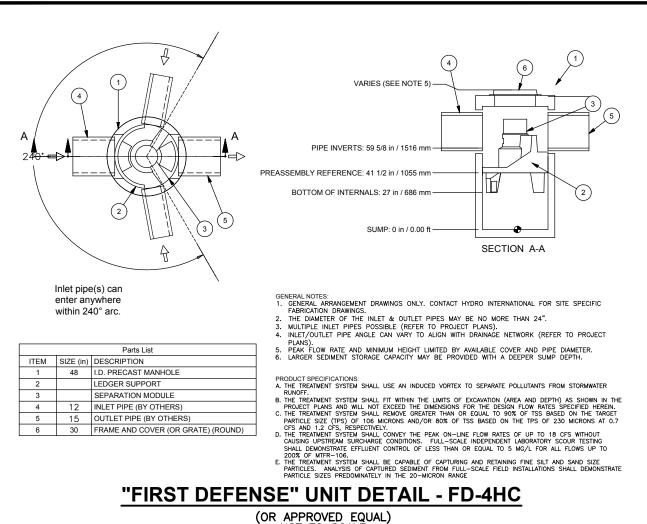
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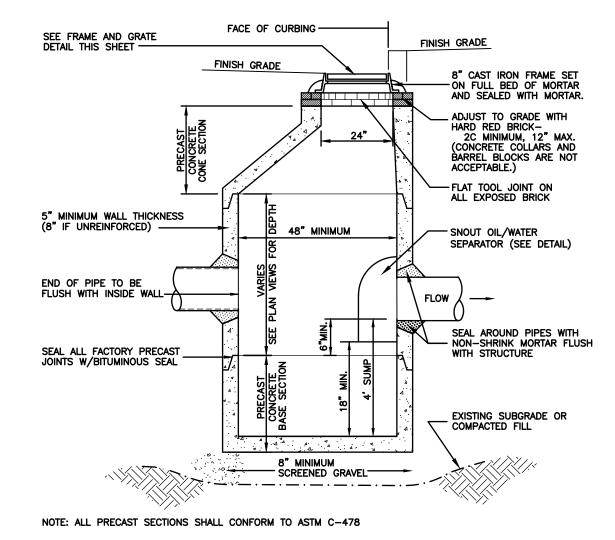
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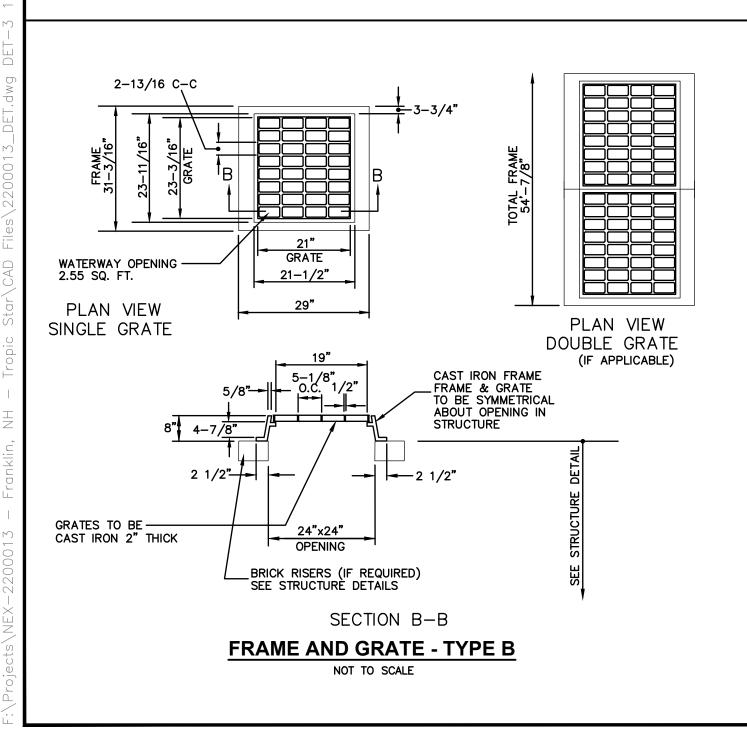


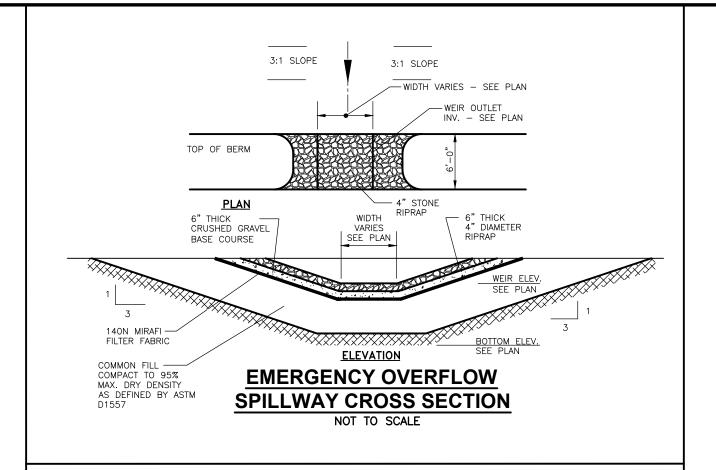
NOTE: CONTRACTOR SHOULD CONFIRM SYSTEM PARTS AND OBTAIN SHOP DRAWINGS FROM MANUFACTURER PRIOR TO CONSTRUCTION.

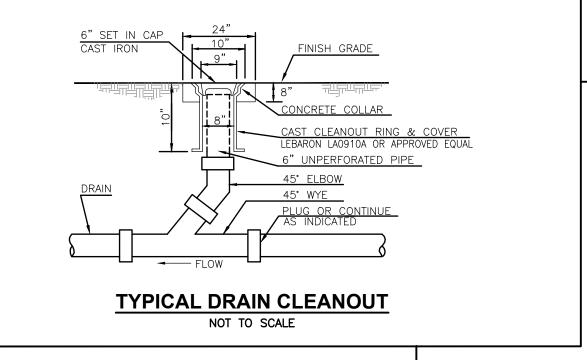


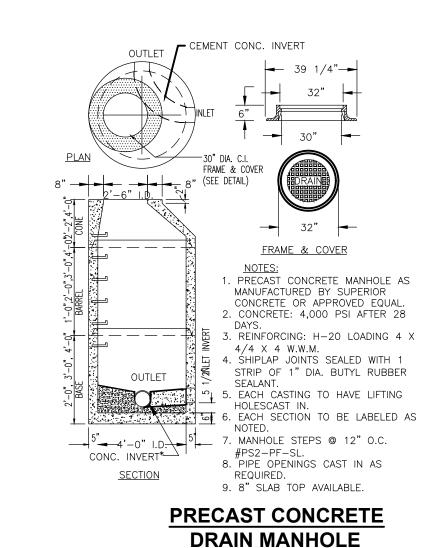
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(FOR USE IN CURBED AREAS) NOT TO SCALE





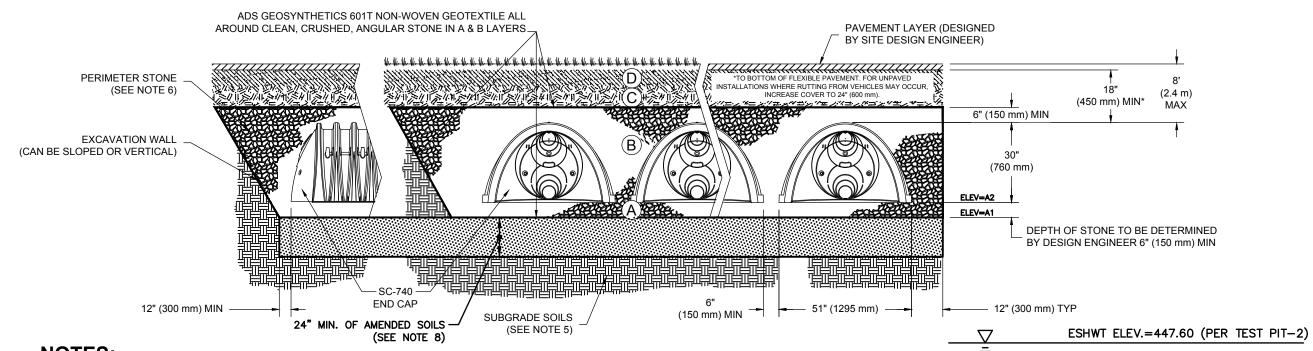




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UNDERGROUND INFILTRATION SYSTEM NOTES:

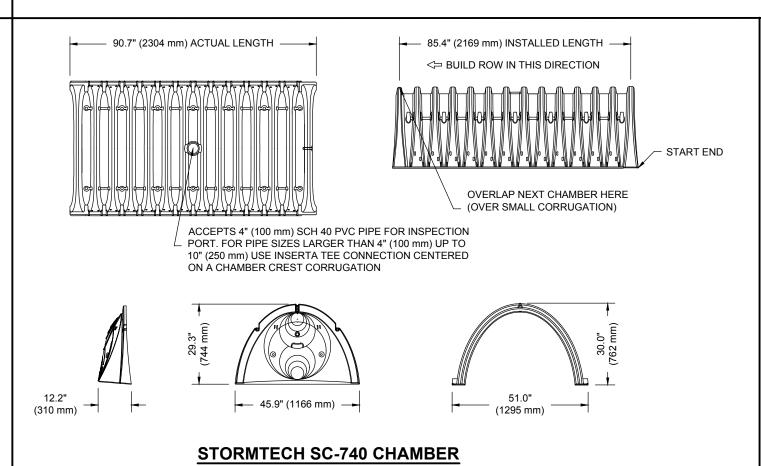
- 1) EXISTING TOPSOIL, BRUSH, TREES, BOULDERS, FILL, DEBRIS AND OTHER UNSUITABLES TO BE REMOVED FOR 5' ALL AROUND UNDERGROUND INFILTRATION SYSTEM DOWN TO NATIVE MATERIAL. BACKFILL WITH STONE BEDDING MATERIAL.
- 2) DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE
- 3) DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
- 4) CONTRACTOR SHOULD CONFIRM SYSTEM PARTS AND OBTAIN SHOP DRAWINGS FROM MANUFACTURER. SUBSTITUTIONS AND SHOP DRAWINGS SHOULD BE APPROVED BY THE
- 5) PARTS SPECIFICATIONS SHOWN ARE AS PROVIDED BY ADS INC., OR APPROVED EQUAL. ANY CHANGES TO THESE SPECIFICATIONS SHOULD BE APPROVED BY DESIGN ENGINEER FOR PERFORMANCE.

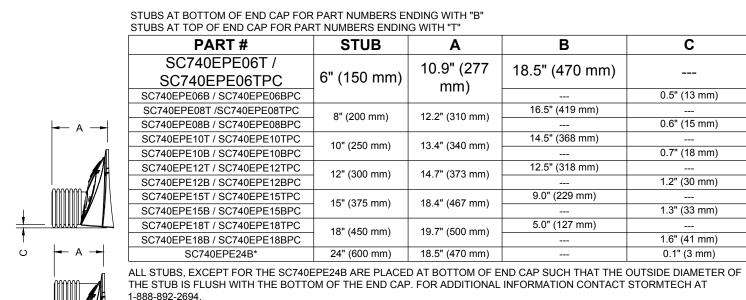


NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". AJ SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION
- 3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.^J
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.^J THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE
- WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.^J PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- CONTRACTOR SHALL ENGAGE A QUALIFIED PROFESSIONAL TO DETERMINE SPECIFICATION OF AMENDED SOILS. INFILTRATION TESTING SHALL BE PERFORMED PURSUANT TO ENV-WQ 1504.14 TO ENSURE THAT A TARGET RATE OF 8 TO 10 IN/HR IS ACHIEVED. THE TESTING SHALL BE PERFORMED BY A CERTIFIED SOIL SCIENTIST, PROFESSIONAL GEOLOGIST, OR QUALIFIED ENGINEER (P.E.) TO BE DETERMINED BY THE CONTRACTOR. RESULTS OF THE INFILTRATION TESTING SHALL BE SUBMITTED TO THE ENGINEER WITHIN 7 DAYS OF TESTING.

UNDERGROUND INFILTRATION SYSTEM STORMTECH SC-740 CHAMBER TYPICAL CROSS SECTION NOT TO SCALE





ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL. NOTE: ALL DIMENSIONS ARE NOMINAL

> STORMTECH SC-740 CHAMBER END CAP NOT TO SCALE

STORMTECH TABLE

SYSTEM #

U/G INF-1

ELEV. A1 ELEV. A

450.60 451.10

Breenman-Pedersen. Inc 44 Stiles Road, Suite One Salem, NH 03079

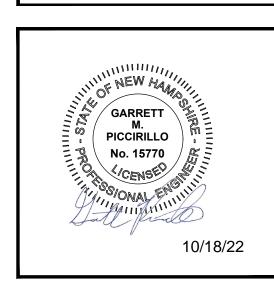
> PREPARED FOR TROPIC STAR DEVELOPMENT, LLC 321D LAFAYETTE ROAD HAMPTON, NH 03842

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	REVISIONS							
-	NO.	REVISION	DATE					
	OCTOBER 18, 2022							
	DRAWN/DESIGN BY CHECKED BY							

OCTOBER 18, 2022						
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CCC/GMP	FCM					

DETAIL SHEET

SCALE: AS SHOWN

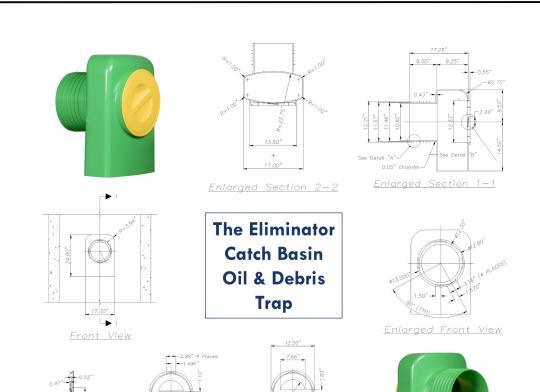
PROJECT NO. NEX-2200013

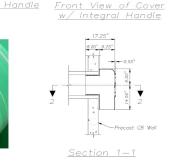
	DIMENSIONS, INCHES (mm)							
PART NO.	A, ±1 (25)	B MAX	H, ±1 (25)	L, ±1/2 (13)	W, ±2 (50)			
1210 NP	6.5 (165)	10 (254)	6.5 (165)	25 (635)	29 (736)			
1810 NP	7.5 (190)	15 (380)	6.5 (168)	32 (812)	35 (890)			
2410 NP	7.5 (190)	18 (450)	6.5 (165)	36 (900)	45 (1140)			
3010 NP	10.5 (266)	NA	7.0 (178)	53 (1346)	68 (1725)			
3610 NP	10.5 (266)	NA	7.0 (178)	53 (1346)	68 (1725)			
	210 NP 810 NP 2410 NP	210 NP 6.5 (165) 810 NP 7.5 (190) 2410 NP 7.5 (190) 3010 NP 10.5 (266)	210 NP 6.5 (165) 10 (254) 810 NP 7.5 (190) 15 (380) 2410 NP 7.5 (190) 18 (450) 3010 NP 10.5 (266) NA	210 NP 6.5 (165) 10 (254) 6.5 (165) 810 NP 7.5 (190) 15 (380) 6.5 (168) 2410 NP 7.5 (190) 18 (450) 6.5 (165) 3010 NP 10.5 (266) NA 7.0 (178)	210 NP 6.5 (165) 10 (254) 6.5 (165) 25 (635) 810 NP 7.5 (190) 15 (380) 6.5 (168) 32 (812) 2410 NP 7.5 (190) 18 (450) 6.5 (165) 36 (900) 3010 NP 10.5 (266) NA 7.0 (178) 53 (1346)			

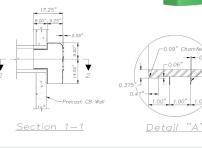
CONSTRUCTION SPECIFICATIONS: PREPARE BEDDING:

- BACKELL MATERIAL AROUND THE END SECTION MAY BE THE SAME AS THE MATERIAL AROUND THE PIPE PLACE A FEW INCHES OF BACKFILL MATERIAL IN THE TRENCH OR DITCH WHERE THE END SECTION WILL BE PLACED. COMPACT AND CONTOUR THIS BEDDING MATERIAL TO GENERALLY MATCH THE END SECTION, EXCAVATE AN AREA IN THE BEDDING WHERE TOE TROUGH WILL SEAT SO THAT THE END SECTION WILL BE LEVEL WITH THE BOTTOM OF THE TRENCH OR DITCH IN THE FINISHED INSTALLATION.
- PLACE END SECTION OF PIPE: OPEN THE END SECTION COLLAR AND SEAT IT OVER THE TWO PIPE CONNECTIONS. ONCE THE END SECTION IS POSITIONED, CHECK TO MAKE SURE THAT THE INVERT OF THE END SECTION MATCHES THE INVERT OF THE PIPE AND THAT THE END SECTION IS LEVEL WITH THE TRENCH OR DITCH BOTTOM. SECURE THE END SECTION:
- SLIP THE STAINLESS STEEL ROD THROUGH THE PRE-DRILLED HOLES AT THE TOP OF THE COLLAR. THE ROD SHOULD BE BETWEEN THE CROWNS OF THE TWO PIPE CONNECTIONS. PLACE A WASHER ON EITHER END OF THE ROD. PLACE A NUT ON EITHER END OF THE ROD AND TIGHTEN WITH A WRENCH. SECURE THE TOE TROUGH:
- TO PREVENT WASHOUTS FROM HIGH VELOCITY FLOW, IT IS RECOMMENDED THAT THE TROUGH BE SECURED WITH CONCRETE. POUR CONCRETE IN THE TROUGH UP TO THE LEVEL OF THE TRENCH OR DITCH BOTTOM AND ALONG THE ENTIRE LENGTH OF THE TROUGH. FINISH BACKFILL:
- SHOVEL BACKFILL AROUND THE END SECTION IN 6 TO 9 INCH LAYERS EQUALLY ON BOTH SIDES, KNIFING IT TO ELIMINATE VOIDS. TAMP WITH A SMALL—FACED COMPACTOR OR OTHER EQUIPMENT SUITABLE FOR SMALL AREAS. CONTINUE PLACING, KNIFING, AND COMPACTING BACKFILL LAYERS TO THE

FLARED END SECTION HIGH DENSITY POLYETHYLENE (HDPE) NOT TO SCALE





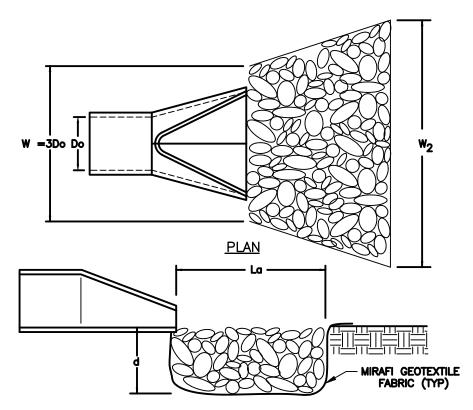




Ground Water Rescue, Inc. 24 Ryden St., Quincy, MA 02169 Tel: 617-773-1128 Fax: 617-773-0510 www.kleanstream.com



TEST PIT DATA Test Pit No. SCS Soil: Champlain-Urban Land Complex **ESHWT:** No visible indicators Standing Water: None >84" Refusal: Roots: None Depth Horizon Soil Texture Color Mottles; Quantity/Contrast Consistence 0-84" Fill Variable Variable Soils Test Pit No. SCS Soil: Champlain-Urban Land Complex **ESHWT:** No visible indicators None Standing Water: Refusal: >90" Roots: None Mottles; Quantity/Contrast Soil Texture Depth Horizon Color Consistence 0-72" Fill Variable Variable Soils 72-90" Coarse Sand 10yr 4/6 FR Test Pit No. SCS Soil: Champlain-Urban Land Complex **ESHWT:** 60" Standing Water: None Refusal: >96' Roots: None Mottles; Quantity/Contrast Soil Texture Depth Color Consistence Horizon Fill 0-48" Variable Variable Soils 48-56" 10yr 3/2 FR Loamy Sand 56-60" 10yr 5/6 FR Loamy Sand 60-96" Fine Sand 2.54y 6/8 FR @60" Distinct Test Pit No. SCS Soil: Champlain-Urban Land Complex ESHWT: No visible indicators Standing Water: None Refusal: Roots: None Color Depth Horizon Soil Texture Consistence Mottles; Quantity/Contrast 0-84" Urban Fill Variable Variable Glass, scrap metals, etc Soils Champlain-Urban Land Test Pit No. SCS Soil: Complex ESHWT: Standing Water: None Refusal: >80" Roots: None Soil Texture Consistence Mottles; Quantity/Contrast Fill 0-40" Variable Variable Soils 40-44" Loamy Sand 10 yr 3/244-56" Loamy Sand 10yr 5/6 FR 56-80" 2.5y 5/6 FR Test Pit No. SCS Soil: Champlain-Urban Land Complex ESHWT: Standing Water: 40" Refusal: Roots: Soil Texture Mottles; Quantity/Contrast Horizon Color Consistence 0-10" Loamy Sand 10yr 3/2FR 10-20" 10yr 5/6 FR 20-78" $2.5y \, 5/6$ @30" Distinct FR



OUTLET	Do	La	W ₁	W ₂	d ₅₀	d
FES-1	15"	17'	3.75'	10.5'	3"	8"
FES-2	12"	13'	3'	8'	3"	8"
FES-3	12"	14'	3'	8.5'	3"	8"

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE IN INCHES
100	4.5 TO 6.0
85	3.9 TO 5.4
50	3.0 TO 4.5
15	0.9 TO 1.5

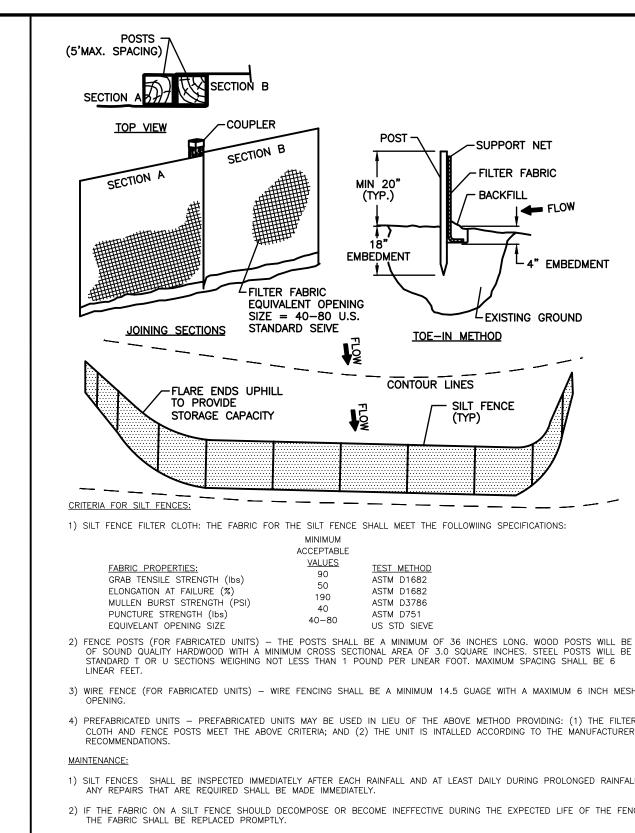
CONSTRUCTION NOTES: THE SUBGRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP—RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
 THE ROCK OR GRAVEL USED FOR FILTER OR RIP—RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
 GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP—RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACE, MENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.

4. 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.

5. THE MEDIAN STONE DIAMEMETER FOR THE RIP—RAP APRON IS d50. FIFTY PERCENT BY WEIGHT OF THE RIP—RAP. MIXTURE SHALL BE SMALLER THAN THE MEDIAN STONE SIZE. THE LARGEST STONE SIZE IN THE MIXTURE SHALL

STONE OUTLET APRON

NOT TO SCALE



- 3) WIRE FENCE (FOR FABRICATED UNITS) WIRE FENCING SHALL BE A MINIMUM 14.5 GUAGE WITH A MAXIMUM 6 INCH MESH
- 4) PREFABRICATED UNITS PREFABRICATED UNITS MAY BE USED IN LIEU OF THE ABOVE METHOD PROVIDING: (1) THE FILTER CLOTH AND FENCE POSTS MEET THE ABOVE CRITERIA; AND (2) THE UNIT IS INTALLED ACCORDING TO THE MANUFACTURER'S

-SUPPORT NET

FILTER FABRIC

LEXISTING GROUND

- 4" EMBEDMENT

- BACKFILL

TOE-IN METHOD

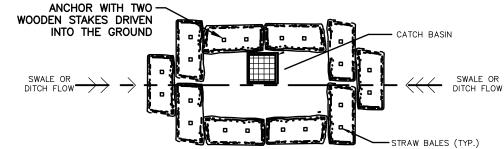
CONTOUR LINES

- 1) 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.
- 2) IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE,
- 3) SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY
- 4) 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
- 1) THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.

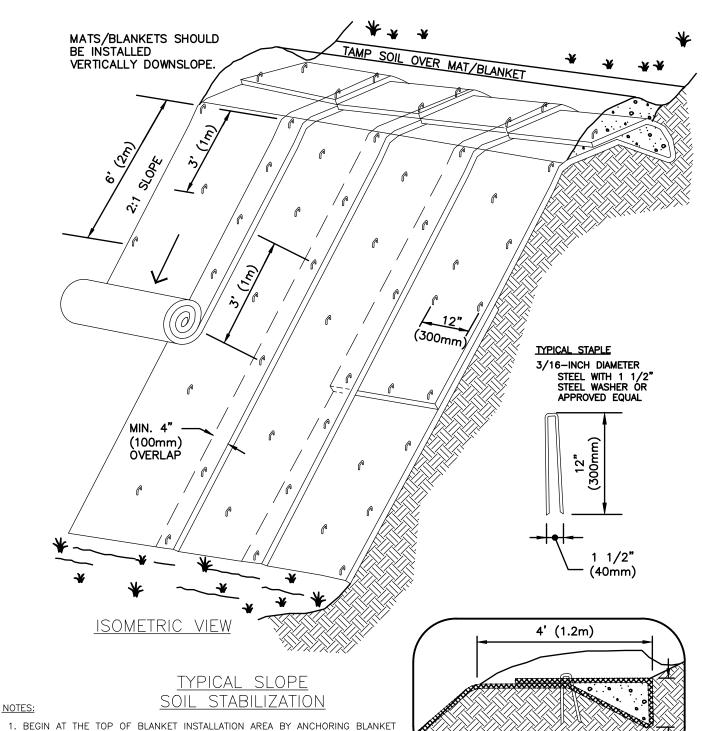
CONSTRUCTION SPECIFICATIONS:

- 2) THE FABRIC SHALL BE <u>EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND</u> (4" DEEP & 4" WIDE) AND THE SOIL COMPACTED OVER THE <u>EMBEDDED FABRIC</u>.
- 3) WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES. 4) FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE
- TOP, MID-SECTION AND BOTTOM. 5) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EAC OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES (24" IS
- PREFERRED), FOLDED, AND STAPLED. 6) POSTS TO BE SPACED AT A MAXIMUM OF 6' ON CENTER.

SEDIMENT CONTROL FENCE NOT TO SCALE



LOW POINT SEDIMENTATION **CONTROL BARRIER** NOT TO SCALE



- IN A 6" DEEP TRENCH. BACKFILL AND COMPACT TRENCH AFTER STAPLING. 2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW. LAY BLANKETS LOOSELY & MAINTAIN DIRECT CONTACT WITH SOIL -3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP 4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE BLANKET END
- OVER END WITH 6 INCH (MIN.) OVERLAP AND ANCHOR DOWN SLOPE BLANKET IN A 6 INCH DEEP TRENCH. 5. BLANKETS SHALL BE STAPLED ENOUGH TO ANCHOR BLANKET WHILE MAINTAINING CONTACT WITH SOIL. STAPLES SHALL BE PLACED DOWN THE CENTER & STAGGERED WITH THE STAPLES PLACED ALONG EDGES. PATTERN
- MANUFACTURERS RECOMMENDATIONS. 6. BLANKET SHALL BE NORTH AMERICAN GREEN SC-150 OR APPROVED EQUAL. MAINTENANCE & MATS

 1. BLANKETS SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION & AFTER A

& AMOUNT OF STAPLES VARIES BY MANUFACTURER, SO FOLLOW

RAINFALL IN EXCESS OF 1/2" IN A 24-HOUR PERIOD. 2. FAILURES SHALL BE REPAIRED IMMEDIATELY. IF ANY OF THE FOLLOWING OCCUR; SLOPE WASHOUT, MAT DISPLACEMENT, DAMAGE TO MAT, AFFECTED AREA SHALL BE REPAIRED & RESEEDED & MAT SHALL BE REPLACED OR RE-INSTALLED.

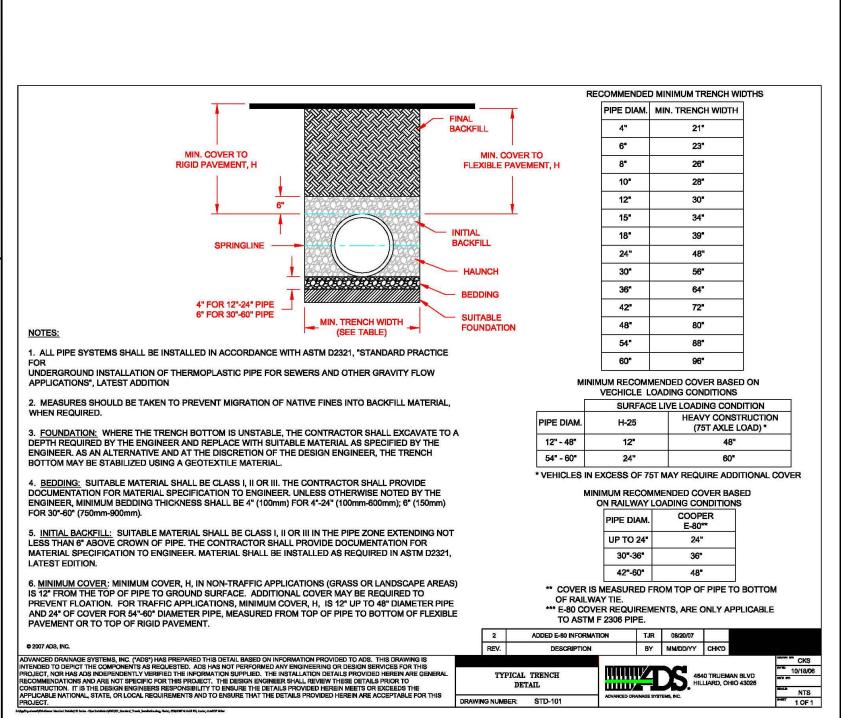
∕12" (300mm)∕∖ TYPICAL INSTALLATION

OF EROSION CONTRO BLANKETS FOR SLOPES NOT TO SCALE

NOTE: DO NOT USE PRODUCTS THAT CONTAIN WELDED PLASTIC OR THAT ARE "PHOTODEGRADABLE". USE PRODUCTS WITH BIODEGRADABLE NETTING AND NATURAL FIBER MATERIAL (I.E. STRAW OR COCONUT FIBER).

BLANKET SLOPE PROTECTION FOR EROSION CONTROL

NOT TO SCALE



HDPE PIPE TRENCH NOT TO SCALE

603.893.0720 Greenman-Pedersen. Inc 44 Stiles Road, Suite One Salem, NH 03079

> PREPARED FOR TROPIC STAR DEVELOPMENT, LLC 321D LAFAYETTE ROAD HAMPTON, NH 03842

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OF NEW HAN GARRETT **PICCIRILLO** No. 15770 10/18/22

REVISIONS DATE REVISION OCTOBER 18, 2022 DRAWN/DESIGN BY CHECKED BY

DETAIL SHEET

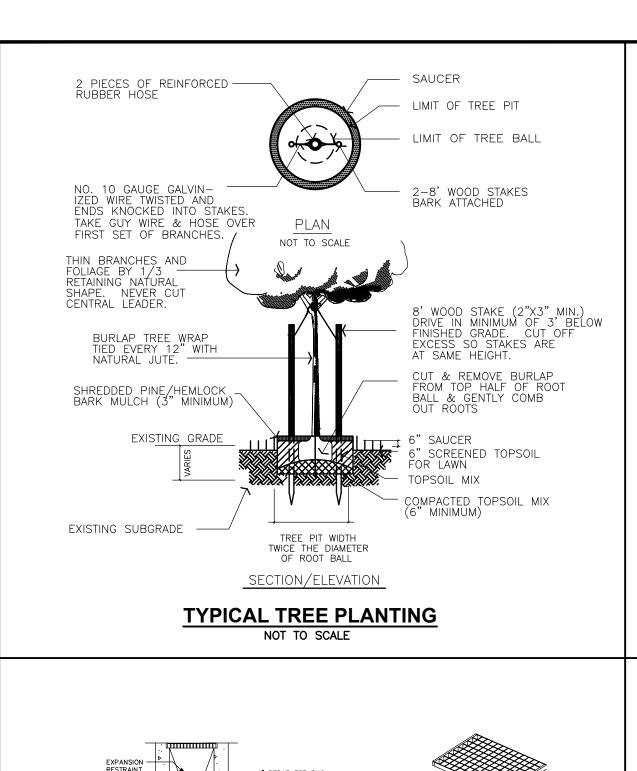
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SCALE: AS SHOWN

PROJECT NO.

CCC/GMP

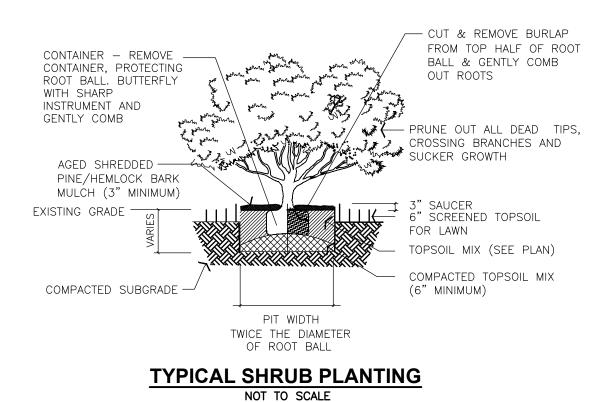
NEX-2200013

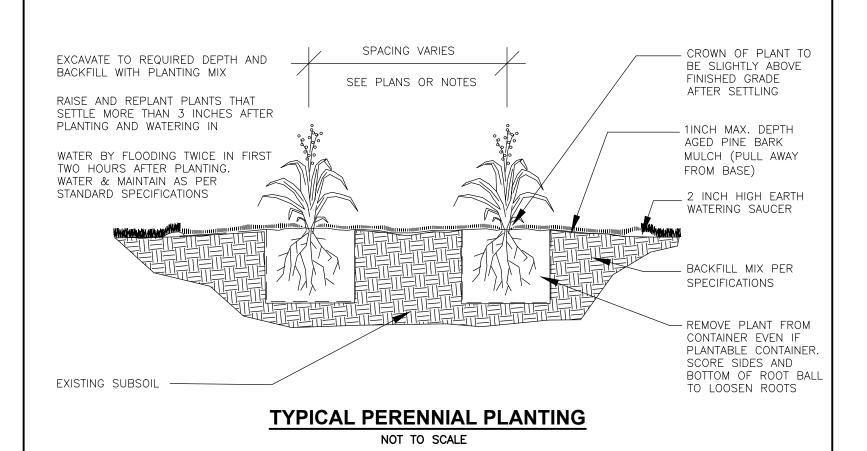


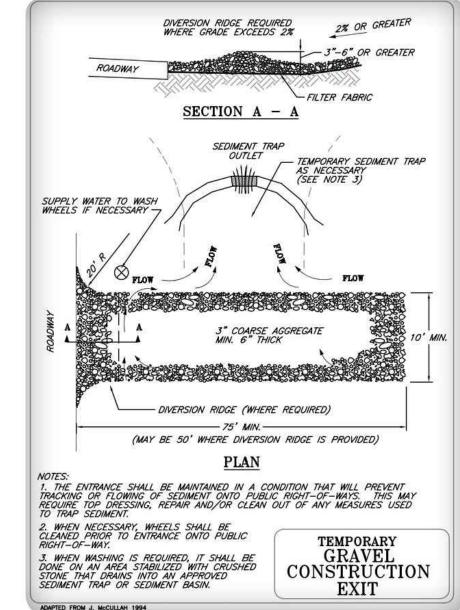
NOTE: REGULAR FLOW = 40 GAL./MIN./SF HIGH FLOW = 200 GAL./MIN./SF

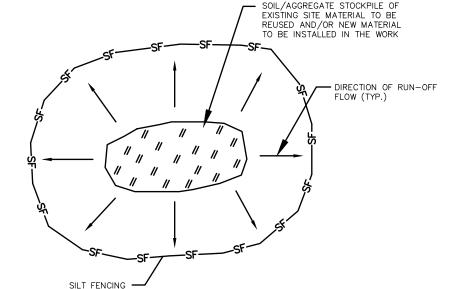
SILT SACK DETAIL-ON OR OFF SITE

NOT TO SCALE



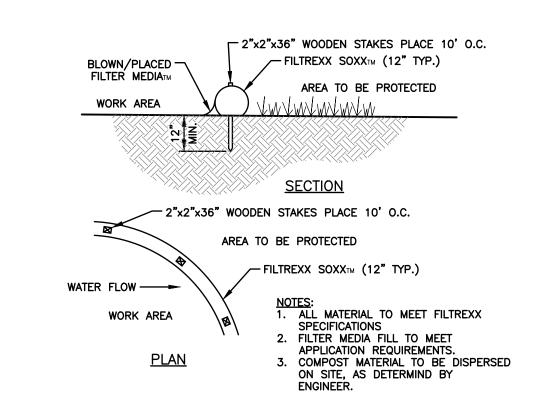




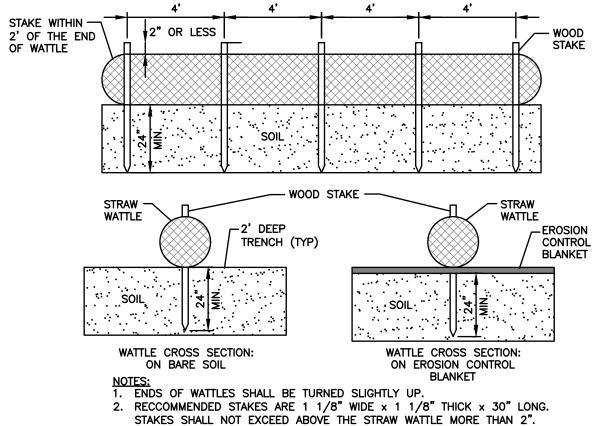


1. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF. 2. SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS. 3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED

MATERIALS STOCKPILE NOT TO SCALE

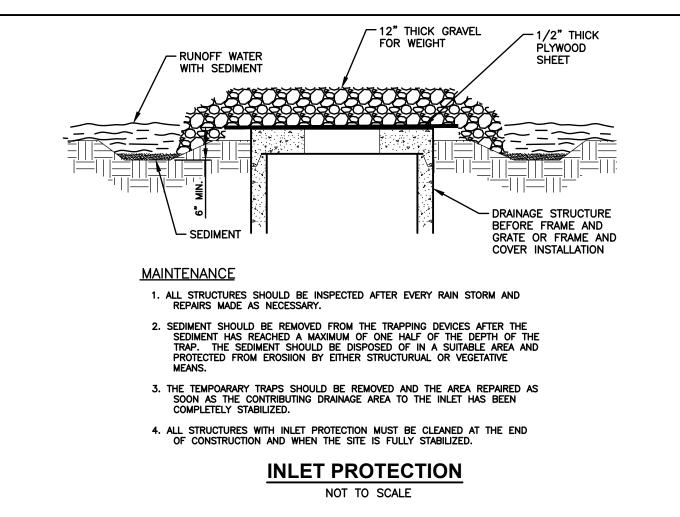


NOT TO SCALE



STRAW WATTLE

NOT TO SCALE



3:1 SLOPE

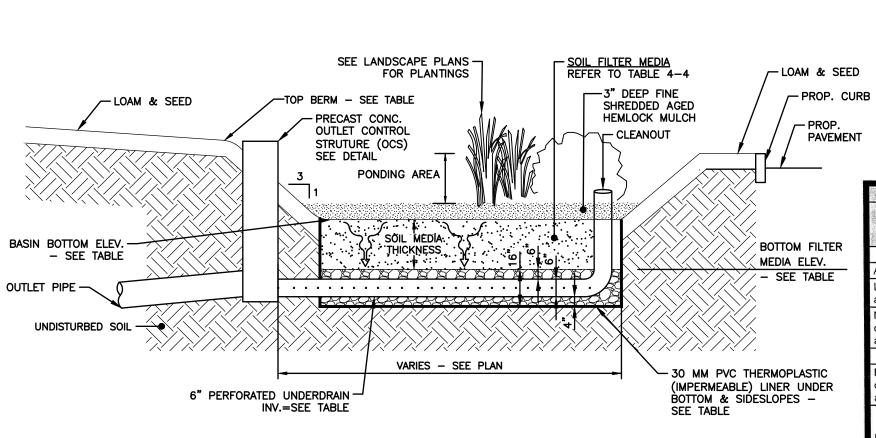
TOP OF BERM SEE PLAN

3:1 SLOPE

- 4" MIN. LOAM & TEMPORARY SEEDING WITH

AMERICAN GREEN SC-150 BN

NORTH AMERICAN GREEN SC-150 BN



BIORETENTION AREA	TOP BERM ELEVATION	BASIN BOTTOM ELEVATION	SOIL MEDIA THICKNESS	BOTTOM FILTER MEDIA ELEV.	INV. UNDERDRAIN	BOTTOM STONE INV.	IMPERMEABLE LINER
#1	452.00	449.00	18"	447.50	446.40	446.07	YES

ANY STAGE OF CONSTRUCTION.

3. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE SYSTEM.

1. DO NOT PLACE THE BIORETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY 2. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE BIORETENTION AREA DURING

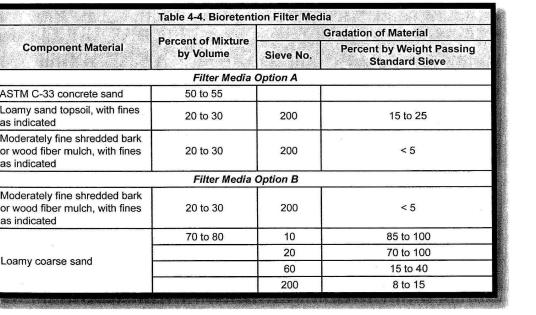
BIORETENTION AREA NOT TO SCALE

FOR ADDITIONAL INFORMATION REFER TO

VOLUME 2, POST-CONSTRUCTION BEST

MANAGEMENT PRACTICES, DECEMBER 2008.

THE NEW HAMPSHIRE STORMWATER MANUAL,



- 4" MIN. LOAM & TEMPORARY SEEDING WITH NORTH AMERICAN COMMON FILL COMPACT TO 95%
MAX. DRY DENSITY **ELEVATION** AS DEFINED BY ASTM D1557 SEDIMENT TRAP SPILLWAY DETAIL NOT TO SCALE WIDTH = 100'LENGTH = 150' MEET EXISTING GRADE -SOIL MIN. LOAM OR TOPSOIL & TEMPORARY SEEDING WITH NORTH

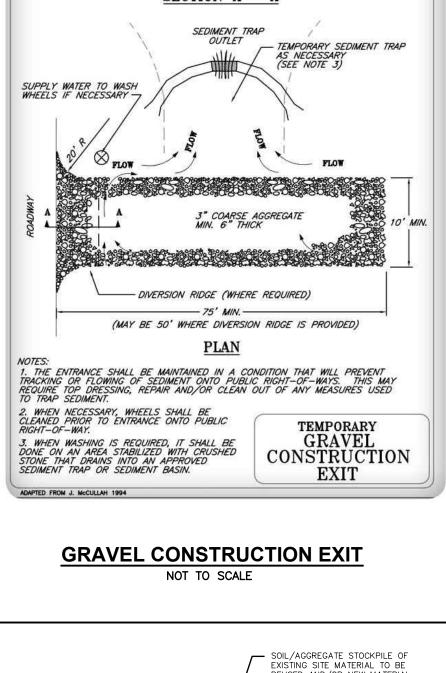
DOUBLE NET STRAW-COCONUT 1. SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER CONSTRUCTION.

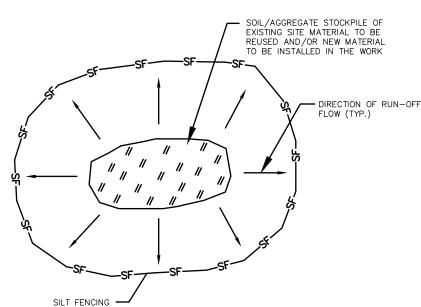
2. THE SPILLWAY ON THE TRAP SHOULD BE A MINIMUM OF 1 FOOT BELOW THE CREST OF THE TRAP AND SHALL DISCHARGE TO A STABILIZED AREA.

3. THE TRAP SHALL BE CLEANED WHEN 50% OF THE ORIGINAL VOLUME IS FILLED. MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.

TEMPORARY SEDIMENT TRAP **TYPICAL CROSS SECTION**

NOT TO SCALE





4. STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

COMPOST FILTER SOCK INLET PROTECTION

SCALE: AS SHOWN

DETAIL SHEET

REVISION

DRAWN/DESIGN BY

CCC/GMP

OCTOBER 18, 2022

PROJECT NO. NEX-2200013

603.893.0720

Salem, NH 03079

PREPARED FOR

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PICCIRILLO

No. 15770

REVISIONS

Greenman-Pedersen. Inc.

44 Stiles Road, Suite One

TROPIC STAR

DEVELOPMENT, LLC

321D LAFAYETTE ROAD

HAMPTON, NH 03842

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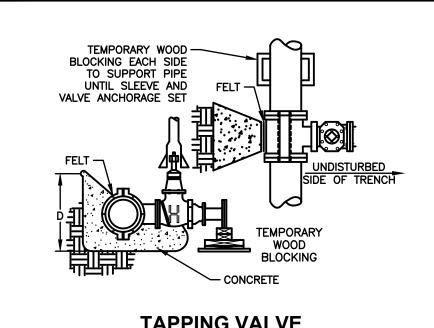
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DATE

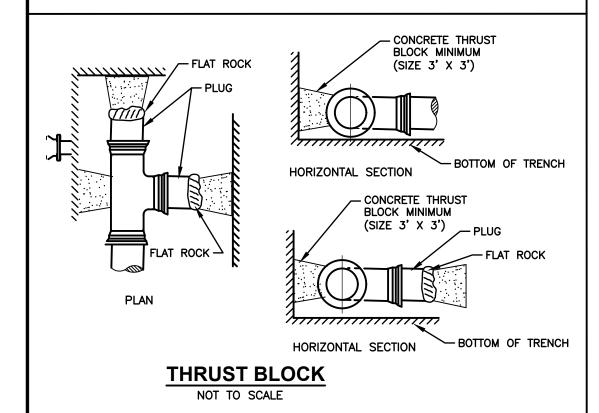
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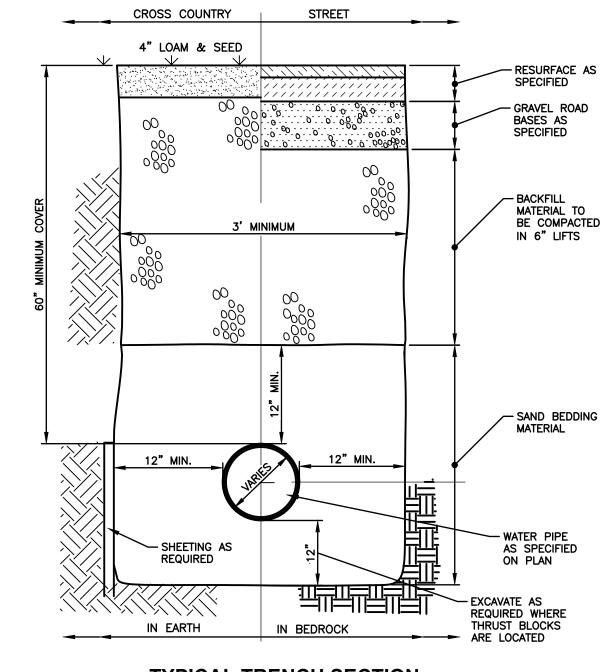
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TAPPING VALVE AND SLEEVE
NOT TO SCALE

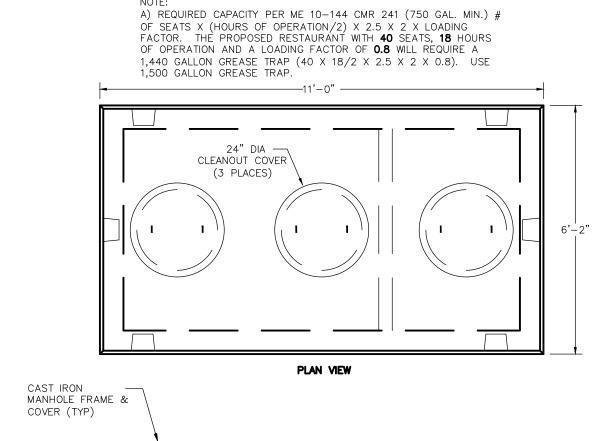


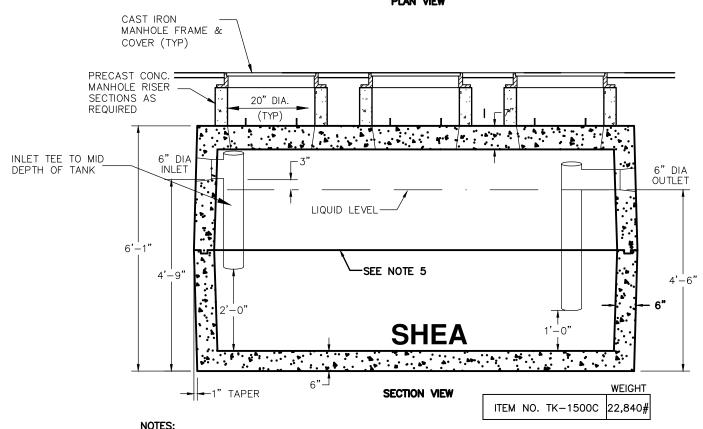






KOR-N-SEAL NOT TO SCALE



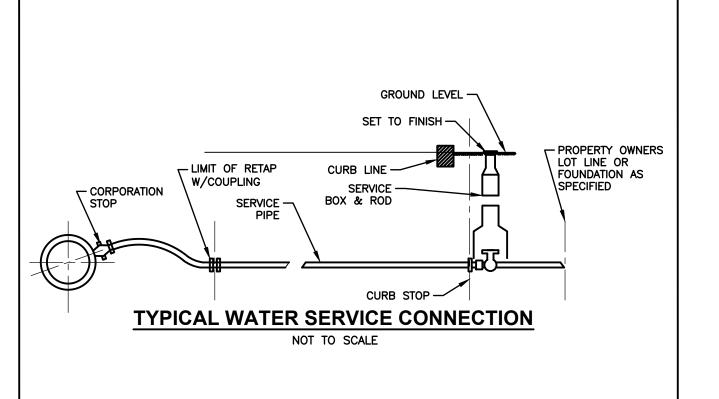


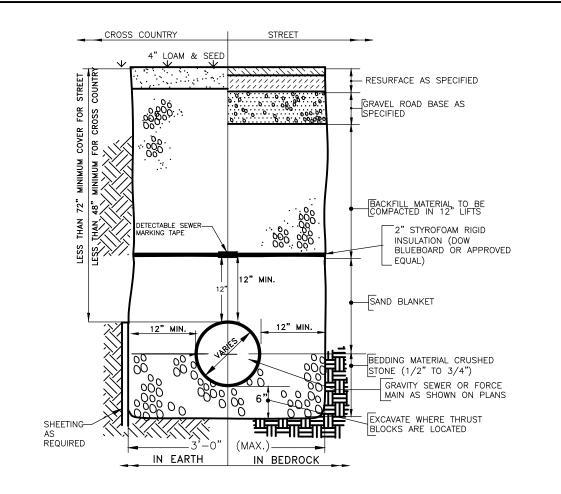
1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.

- 2. DESIGN CONFORMS WITH MEDEP 10-144 CMR 241 FOR GREASE TRAPS
- 3. ALL REINFORCEMENT PER ASTM C1227-93. 4. DESIGNED FOR H-20 LOADING.
- 5. TONGUE & GROOVE JOINT SEALED WITH BUTYLE RESIN.
- 6. TEES AND BAFFLES SOLD SEPARATELY.

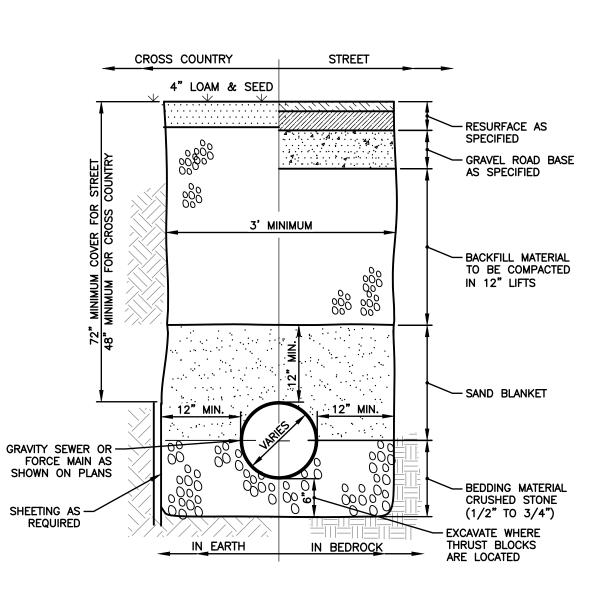
1,500 GALLON GREASE TRAP (H-20 LOADING)

NOT TO SCALE

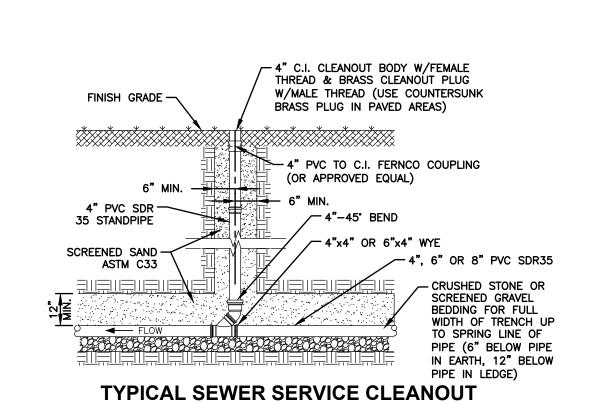




TYPICAL TRENCH SECTION FOR SANITARY SEWER SERVICE WITH LESS THAN 6' OF COVER NOT TO SCALE



TYPICAL TRENCH SECTION FOR **SANITARY SEWER SERVICE** NOT TO SCALE



NOT TO SCALE

24" MASSACHUSETTS STANDARD -MANHOLE 8" HIGH CAST IRON FRAME AND COVER H20 LOADING - EXPOSED BRICK FLAT TOOLED JOINTS SET ON FULL BED OF MORTAR AND SEALED WITH MORTAR -RIM FLUSH WITH PAVEMENT TWO COURSES OF HARD RED -BRICK MINIMUM, 12" MAXIMUM ADJUSTMENT — NO CONCRETE PRE-CAST CONCRETE CONE SECTION OPENING - PRE-CAST CONCRETE SEAL JOINT WITH O-RING-GASKET OR PREFORMED FLEXIBLE JOINT SEALANT NOTE: ALL SECTIONS SHALL BE CONCRETE CLASS AA (4000 PSI). CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER 48" MINIMUM FORM MANHOLE INVERT WITH BRICK -L.F. IN ALL SECTIONS AND SHALL BE PLACED & MORTAR OR CONCRETE. EXTEND IN THE CENTER THIRD OF THE WALL. THE BENCHING TO ABOVE HIGHEST PIPE TONGUE OR THE GROOVE OF THE JOINT CROWN. SLOPE BENCH TO DRAIN USE SHALL CONTAIN ONE LINE OF EXPOSED BRICK FLAT TOOLED JOINTS CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER L.F. FLEXIBLE, WATERTIGHT PIPE -SEAL. KOR-N-SEAL, LOCK JOINT, OR EQUAL CLASS "A" CONCRETE - LEADING EDGE OF BRICK TO BE PERPENDICULAR TO 12" CRUSHED STONE BASE FLOW LINE TO INCREASE

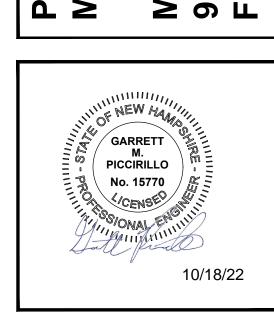
MORTAR SHALL CONSIST OF: 1 PART BY VOLUME PORTLAND CEMENT, 2 PARTS BY VOLUME, DAMP WASHED COARSE SAND AND POTABLE WATER TO PRODUCE A CONSISTENCY OF STIFF PASTE. SEAL ALL PRECAST JOINTS WITH MORTAR.

SEWER MANHOLE NOT TO SCALE

603.893.0720 Greenman-Pedersen. Inc. 44 Stiles Road, Suite One Salem, NH 03079

> PREPARED FOR TROPIC STAR DEVELOPMENT, LLC 321D LAFAYETTE ROAD HAMPTON, NH 03842

> > OUTL OR **M** 98



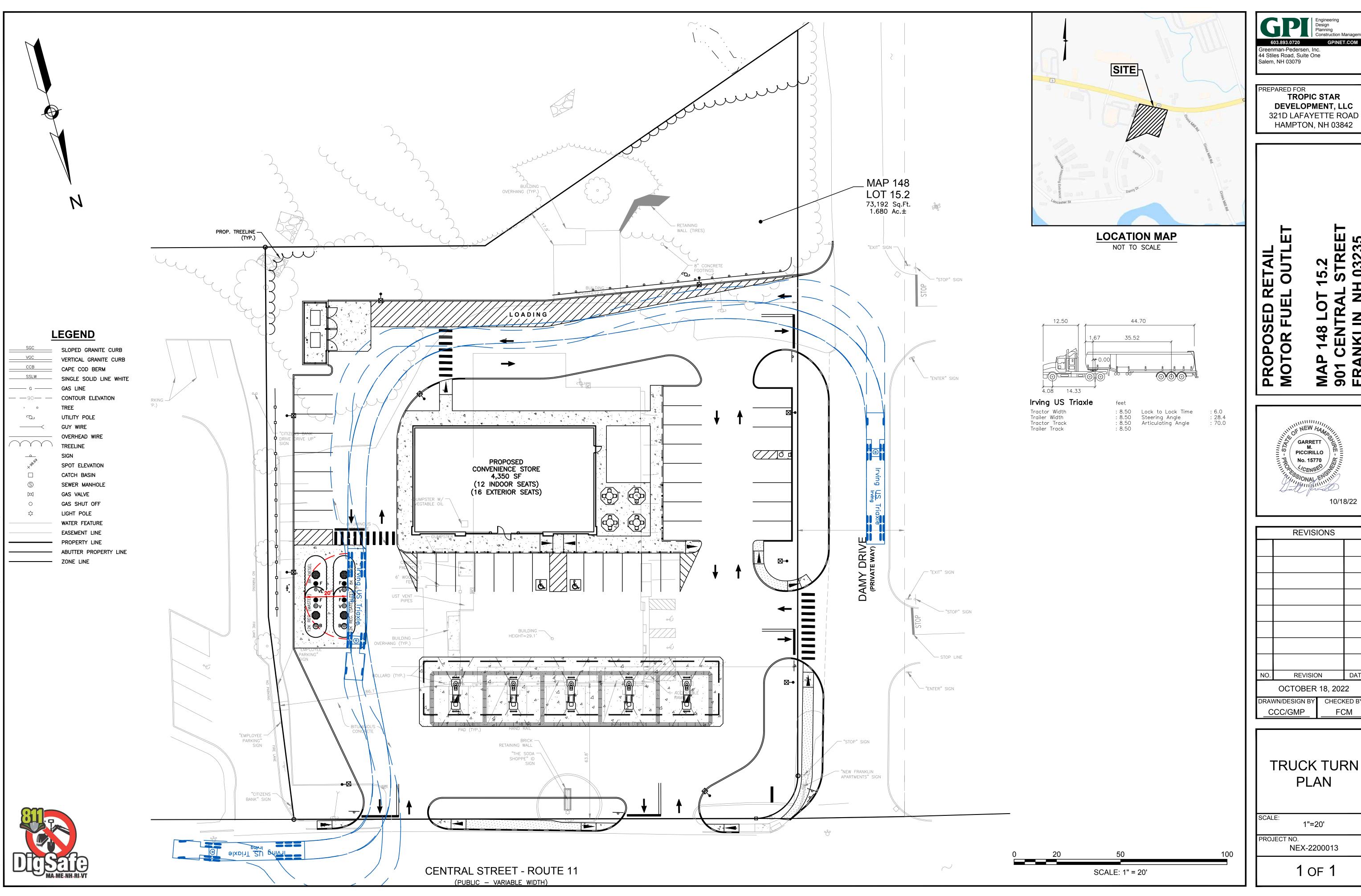
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NO.	DATE				
OCTOBER 18, 2022					
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С	CC/GMP	FC	CM		

DETAIL SHEET

SCALE: AS SHOWN PROJECT NO.

14 of 14

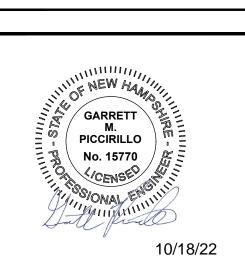
NEX-2200013





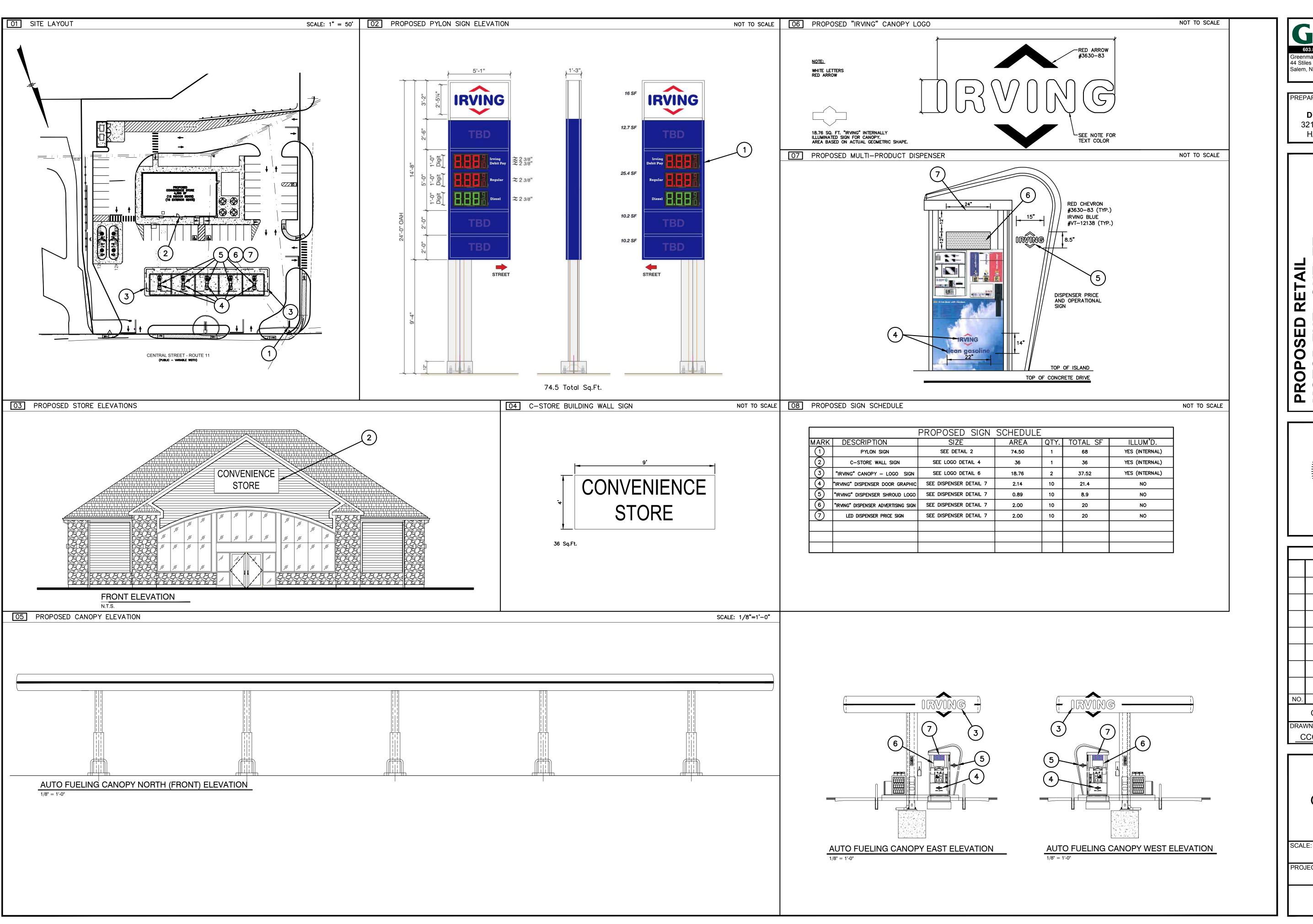
PREPARED FOR TROPIC STAR **DEVELOPMENT, LLC** 321D LAFAYETTE ROAD

HAMPTON, NH 03842



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	CCC/CMD FCM					

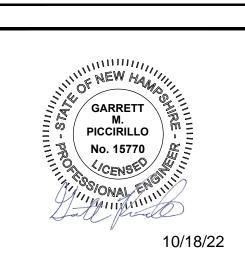
TRUCK TURN PLAN					
CALE: 1"=20'					
ROJECT NO. NEX-2200013					



Greenman-Pedersen, Inc. 44 Stiles Road, Suite One Salem, NH 03079

PREPARED FOR TROPIC STAR **DEVELOPMENT, LLC** 321D LAFAYETTE ROAD

HAMPTON, NH 03842

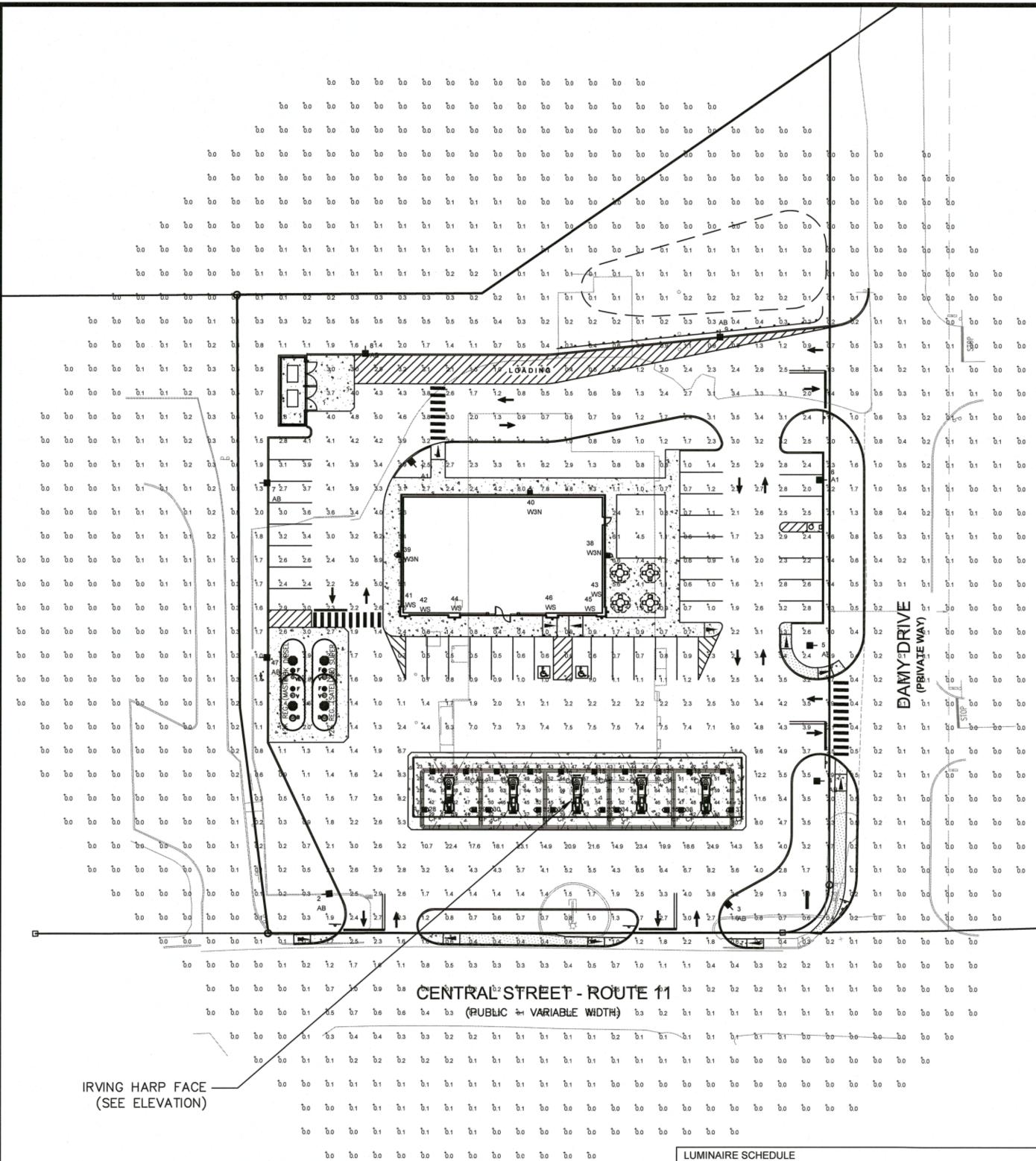


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	С	CC/GMP	FC	CM



AS NOTED

NEX-2200013



LUMINAIRE LOCATION SUMMARY MTG. HT. LABEL 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 14.5 CA 14.5 14.5 14.5 14.5 14.5 14.5 CA 14.5 14.5 14.5 CF 14.5 CF 14.5 14.5 14.5 14.5 W3N W3N W3N WS WS 10 AB 22.5

IRVING HARP FACE ELEVATION SCALE: 1" = 2

AREA LIGHTS ON NEW 20 FT. POLES MOUNTED ON 2.5 FT. CONCRETE BASES

THIS SITE IS LOCATED IN A REGION WHERE LIGHTING IS REGULATED BY LOCAL ORDINANCES

FOOTCANDLE LEVELS CALCULATED AT GRADE (UNO) USING INITIAL LUMEN VALUES						
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN	
DISPENSER-HARP FACE (VERTICAL)	26.83	34	16	1.68	2.13	
PAVED AREA	3.42	30.7	0.4	8.55	76.75	
UNDEFINED	0.24	5.5	0.0	N.A.	N.A.	
UNDER CANOPY	44.53	66	14	3.18	4.71	

LUMINAIRE SCHEDULE										
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	DESCRIPTION
	2	A1	SINGLE	10706	1.030	B3-U0-G3	132.5	265	CREE, INC.	ARE-EDG-3M-XX-06-E-UL-XX-700-57K
	8	AB	Single	8891	1.040	B1-U0-G2	134	1072	CREE, INC.	ARE-EDG-3MB-DA-06-E-UL-XX-700-57K
	10	CA	SINGLE	13251	1.030	B3-U0-G1	134	1340	CREE, INC.	CAN-304-SL-RS-06-E-UL-WH-700-57K
>	10	CF	SINGLE	12862	1.030	B2-U1-G1	141	1410	RUUD LIGHTING, INC., A CREE COMPANY	CAN-304-AF-RS-06-E-UL-WH-700-57K
• >	3	W3N	SINGLE	5893	1.030	B2-U0-G2	68	204	CREE, INC.	SEC-EDG-3M-WM-04-E-UL-525-57K
\oplus	6	WS	SINGLE	819	1.000	B1-U3-G0	20.18	121.08		2SRBK-4-9W-LED-120V

1340 Kemper Meadow Dr, Forest Park, OH 45240 513-574-9500 | redleonard.com

DESCRIPTION

REVISE PER UPDATED SITE PLAN WHICH INCLUDED REMOVING DIESEL CANOPY

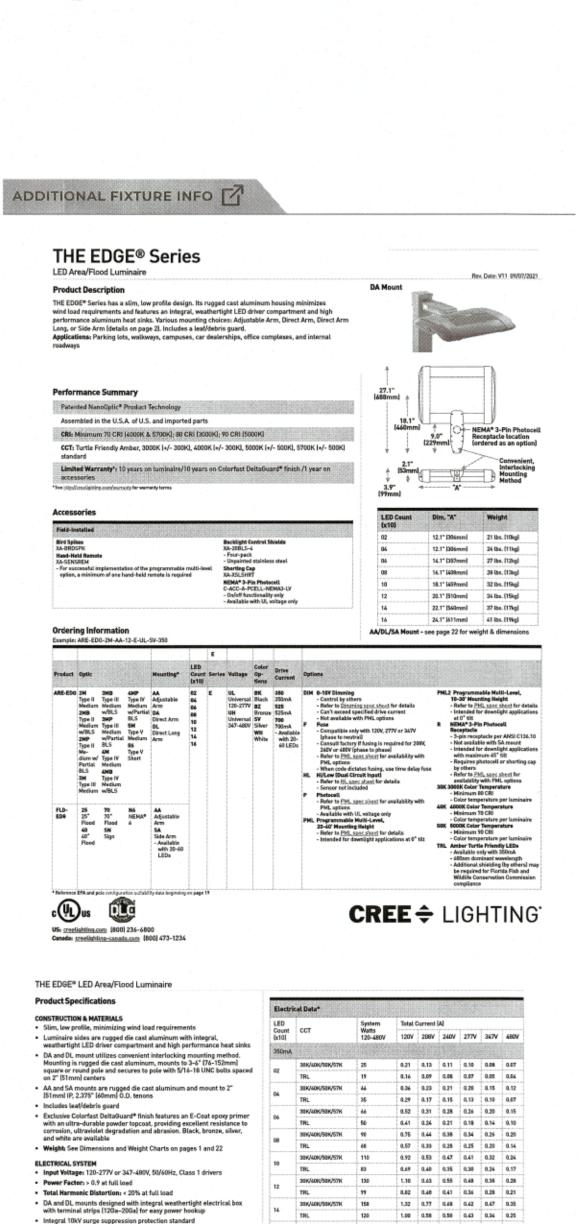
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SCALE: LAYOUT BY: 1" = 30' DWG SIZE: DATE: 10/5/22

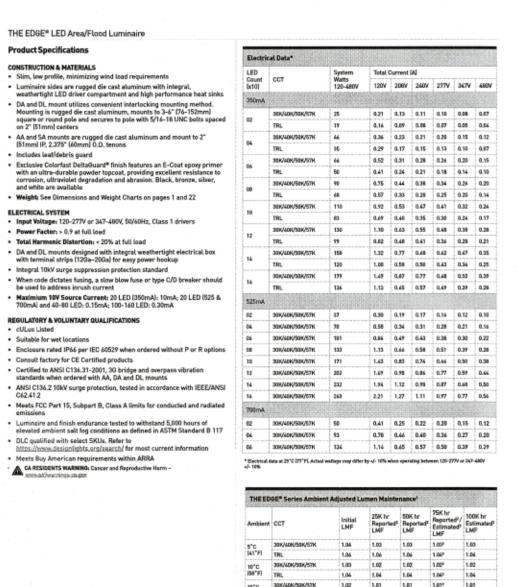
PROJECT NAME: **IRVING OIL** FRANKLIN, NH DRAWING NUMBER: RL-8366-S1-R1

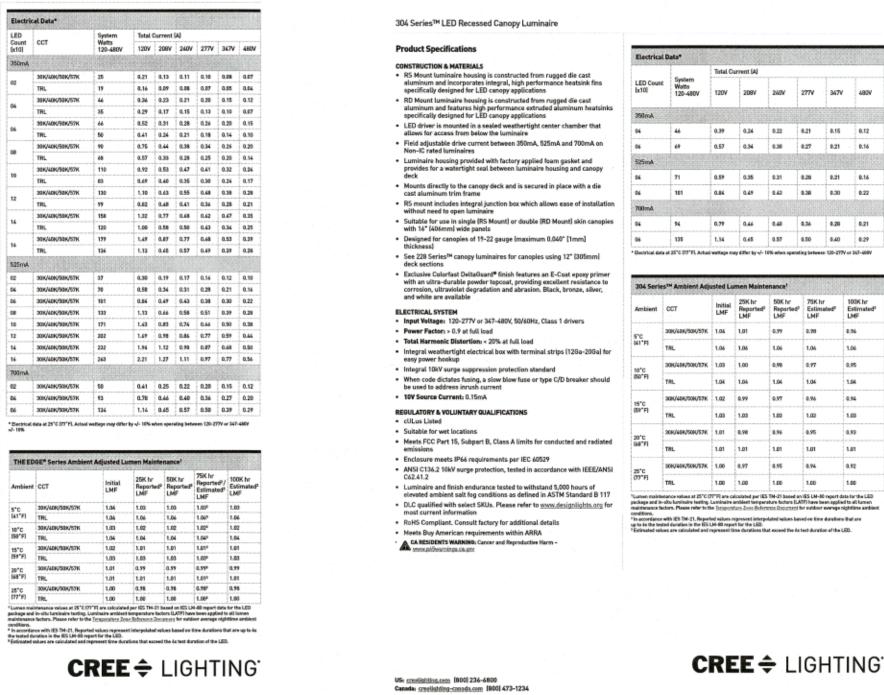


QTY LABEL DESCRIPTION

AREA 2 A1 ARE-EDG-3M-XX-06-E-UL-XX-700-57K

8 AB ARE-EDG-3MB-DA-06-E-UL-XX-700-57K





QTY LABEL DESCRIPTION

ADDITIONAL FIXTURE INFO

Luminaire housing is constructed from rugged die cast aluminum components IRS Mountil or die cast and extruded aluminum components IRD Mounti. LED driver is mounted in a sealed weathertight center chamber that allows for access from below the fixture. Luminaire mounts directly to the canopy deck and is secured in place with die cast aluminum brim frame. Luminaire

housing is provided with factory applied foam gasket that provides a watertight seat between luminaire housing and canepy deck. Suitable for use in single or doubte skin canopies with 16* (406 mm) wide panels. Designed for canopies of 19-22 gauge (maximum 0.040" I mm) thickness Applications: Petroleum stations, convenience stores, drive-thru banks and restaurants, retail:

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard* finish

r successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

*40 LED burnhasion requires marted spacing-40" x 34" x 5" 1,19 from x 610mm x 150mm/; 46" (1,319mm) center-to-center of adjacent luminatives, 32" (140mm) tender-to-center of adjacent luminatives, 32" (140mm) tender to side building member, 6" (150mm) tender-to-center of adjacent luminatives, 32" (140mm) tender to side building member, 6" (150mm) tender-to-center of adjacent luminatives, 32" (140mm) tender to side building member, 6" (150mm) tender-to-center of adjacent luminatives, 32" (150mm) tender to side building member, 6" (150mm) tender-to-center of adjacent luminatives, 32" (150mm) tender-to-center of adjacent luminatives, 32"

304 Series™

Product Description

Performance Summary

CRIs Minimum 70 CRI

US: creelighting.com (800) 236-6800

Patented NanoOptic* Product Technology

Assembled in the U.S.A. of U.S. and imported parts

LED Recessed Canopy Luminaire

CA CAN-304-SL-RS-06-E-UL-WH-700-57K

CF CAN-304-AF-RS-06-E-UL-WH-700-57K

Rev. Date: V7 04/05/2021

Programmable Multi-level Sensor location (ordered as an option)

CREE \$ LIGHTING

Cree Edge™ Series LED Security Wall Pack Luminaire **Product Description** The Cree EdgeTM wall mount luminaire has a slim, low profile design. The luminaire end caps are made from rugged die cast aluminum with integral, weathertight LED driver comportments and high performance aluminum heat sinks specifically designed for LED applications. Housing is rouged aluminum. Includes a lightweight mounting box for installation over standard and mud ring single gang atternment, includes a uprevergit mounting both for installation over standard and must ring single; J-Boxes, Secures to wealt with four 3/16 "Emmil screws liby othersit. Conduit entry from top, boltom, sides and rear. Allows mounting for uplight or developing, because and approved for easy through weiting, includes leavidebris guard. Applications: General area and security lighting Performance Summary Patented NanoOptic® Product Technology Made in the U.S.A. of U.S. and imported parts CRI: Minimum 70 CRI CCT₁ 4000K [+/- 300K], 5700K [+/- 500K] standard Limited Warranty*: 10 years on luminaire/10 years on Colortast DeltaGuard* finish D Count (x10) Dim. "A" Weight 9.9" (251mm) 20 lbs. (9.1kg) 11.9* (303mm) 22 lbs. (10.0kg) 13.9" (353mm) 25 lbs. [11.3kg] 15.9° (404mm) 27 lbs. (12.2kg) 17.9" (455mm) 31 lbs. (14.1kg) 19.9" (505mm) 32 lbs. (14.5kg) UL BK Universal Black 120-277V BZ UH Bronze Universal SV 347-480V Silver 25 Type II Short 258 Type II Short w/BLS 3M Type III Medium 3MB Type III Medium 4MB Type IV Medium 4MB

QTY LABEL DESCRIPTION

ADDITIONAL FIXTURE INFO

c (U) us 🕮

Meets Buy American requirements within ARRA

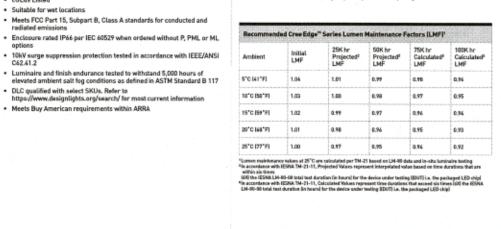
T (800) 236-6800 F (262) 504-5415

US: lighting.cree.com

T (800) 236-6800 F (262) 504-5415

3 W3N SEC-EDG-3M-WM-04-E-UL-525-57K

Cree Edge™ LED Security Wall Pack Luminaire Product Specifications CONSTRUCTION & MATERIALS Stim, low profile design Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance heat sinks specifically designed for LED applications Housing is rugged aluminum Furnished with low copper, light weight mounting box designed for installation over standard and mud ring single gang J-Boxes
 Luminaire can also be direct mounted to a wall and surface wired 25 0.21 0.13 0.11 0.10 0.08 0.07 0.36 0.23 0.21 0.20 0.15 0.12 0.52 0.31 0.26 0.26 0.20 0.15 Secures to wall with four 3/16" (5mm) screws (by others) Conduit entry from top, bottom, sides, and rear · Allows mounting for uplight or downlight 90 0.75 0.44 0.36 0.34 0.26 0.20 · Designed and approved for easy through-wiring Includes leaf/debris guard 110 0.52 0.53 0.47 0.41 0.32 0.24 Exclusive Coloriast DeltaGuard* finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosism, ultraviolet degradation and abrasion. Black, bronze, silver and white are available 130 1.10 0.43 0.55 0.48 0.38 0.28 · Weight: See Dimensions and Weight Chart on page 1 02 37 0.30 0.19 0.17 0.16 0.12 0.10 ELECTRICAL SYSTEM Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers Total Harmonic Distortion: < 20% at full load Integral weathertight J-Box with leads (wire nuts) for easy power hook 133 1.13 0.44 0.58 0.51 0.39 0.28 Integral 10kV surge suppression protection standard When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current 50 0.41 0.25 0.22 0.20 0.16 0.12 Maximum 10V Source Current: 20 LED (350mA): 10mA; 20LED (525 & 700 mA) and 40-120 LED: 0.15mA 04 93 0.78 0.46 0.40 0.36 0.27 0.20 06 134 1.14 0.65 0.57 0.50 0.29 0.29 REGULATORY & VOLUNTARY QUALIFICATIONS * Electrical data at 25°C (77°F). Actual workage may differ by 4/- 19% when operating between 120-480V 4/- 10% Suitable for wet locations . Meets FCC Part 15, Subpart B, Class A standards for conducted and Enclosure rated IP66 per IEC 60529 when ordered without P, PML or ML 10kV surge suppression protection tested in accordance with IEEE/ANSI
 Ambient Initial
LMF



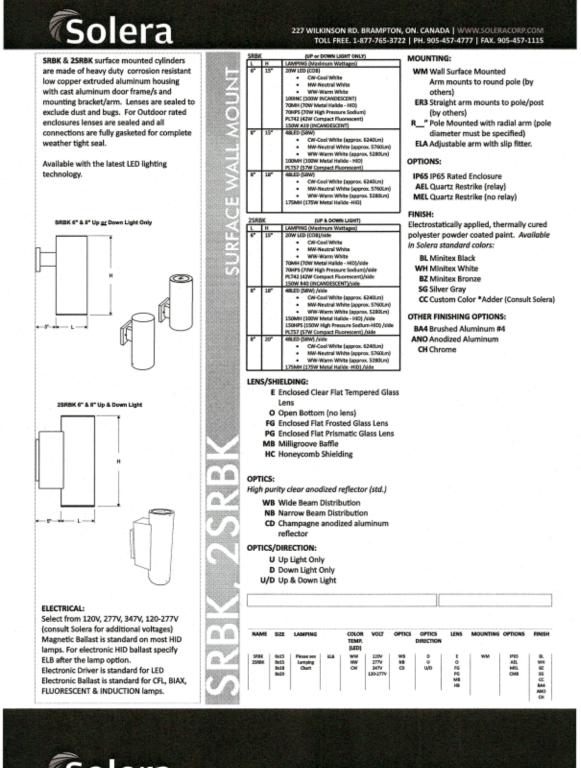
CREE 🚓

ML Nutli-Level
- Refer to ML spice, shoot for details
- Intended for downlight applications with 9" filt

Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

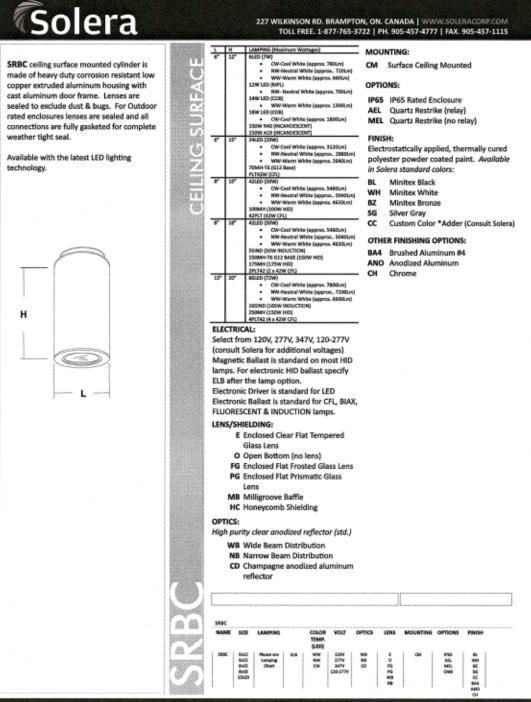
Intended for downlight applications with 6" sit
P Photoses

Refer to Jill, specichee, for availability with Mil, aptions
Host specify Ut. or 3% who taxellability with Mil, aptions
Host specify Ut. or 3% who taxellable
Helver to Jill, area chizes for details
Intended for downlight applications with 9" sit
40% 4000K Color Persperature
Helvins 70 CRI



QTY LABEL DESCRIPTION

WS 2SRBK-4-9W-LED-120V



REDLEONARD ASSOCIATES 1340 Kemper Meadow Dr, Forest Park, OH 45240

513-574-9500 | redleonard.com

US: creelighting.com (800) 236-6800 Canada: creelighting-sanadu.com (800) 473-1234

REGULATORY & VOLUNTARY QUALIFICATIONS

Meets Buy American requirements within ARRA
 CA RESIDENTS WARNING Cancer and Reproductive Harm-screenationatorings as got.

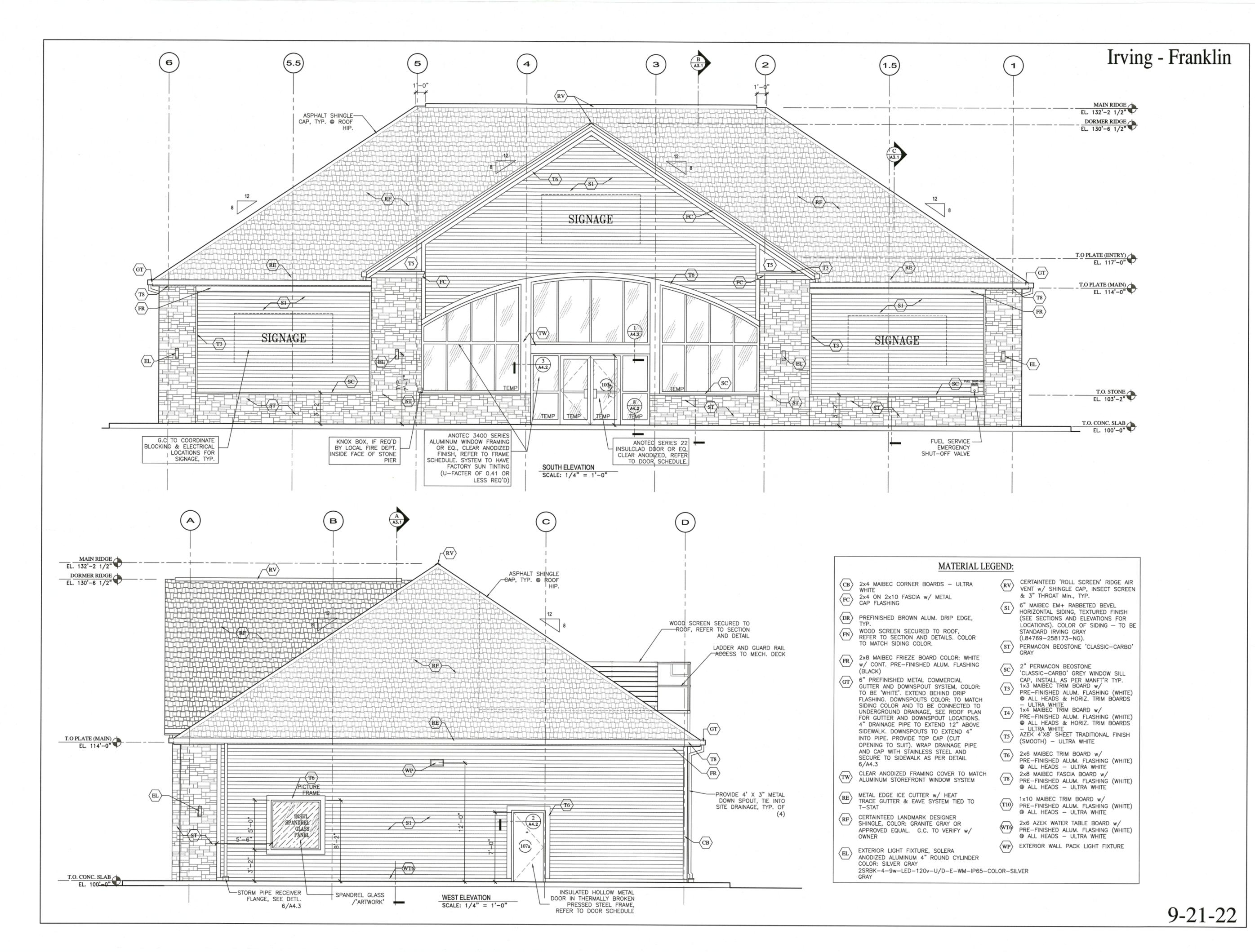
Suitable for wet locations

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technology.

PROJECT NAME: **IRVING OIL** FRANKLIN, NH DRAWING NUMBER: RL-8366-S1-R1







ALPHAarchitects
17 CHESTNUT STREET
PORTLAND, ME 04101
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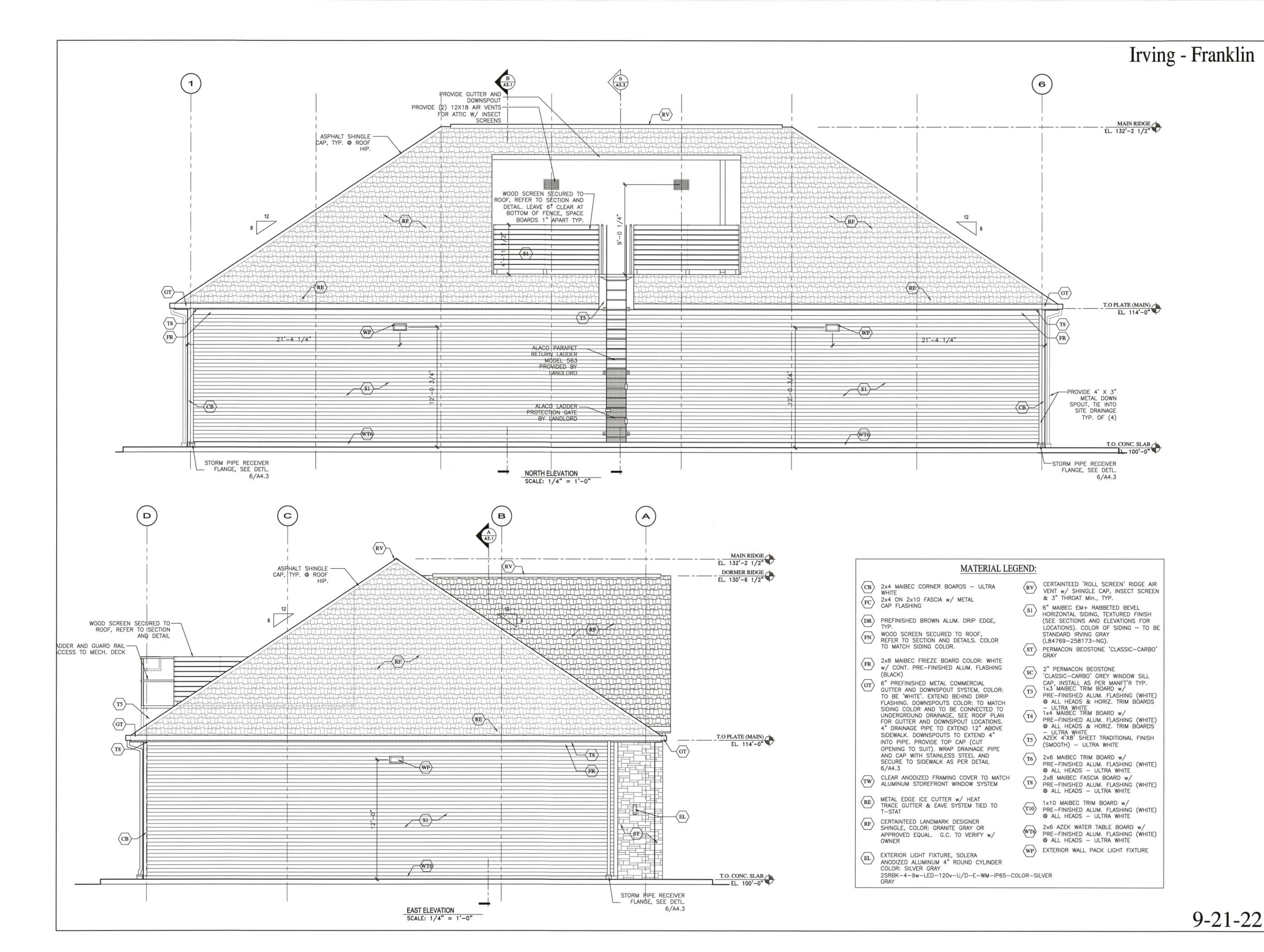
Irving - Franklin NH 901 Center Street

JOB: 22120

ISSUE DATE	
PLANNING	09-14-22
PERMIT	-
CD's	
REV. 1	-
REV. 2	-
REV. 3	_

BUILDING

A2.1





ALPHAarchitects
17 CHESTNUT STREET
PORTLAND, ME 04101
PHONE: 207.761.9500
FAX: 207.761.9595
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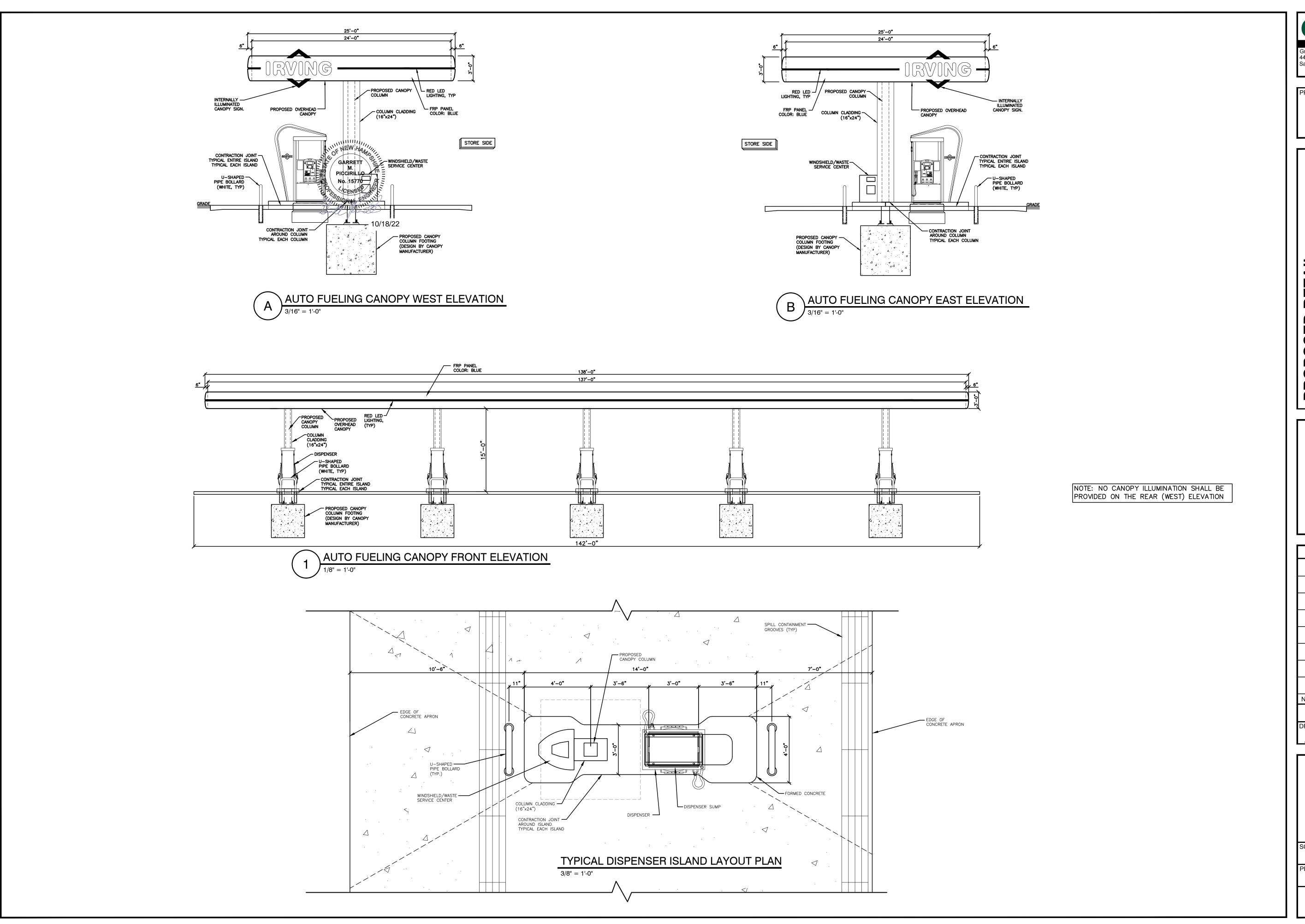
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JOB: 22120

ISSUE DATE		
PLANNING	09-14-22	
PERMIT	- 1	
CD's	- 1	
REV. 1	- "	
REV. 2	- ,	
REV. 3	-	

BUILDING ELEVATIONS

A2.2





PREPARED FOR
TROPIC STAR
DEVELOPMENT, LLC
321D LAFAYETTE ROAD
HAMPTON, NH 03842

PROPOSED RETAIL MOTOR FUEL OUTLET

DAM DEW HAMPING SONA PROPERTY OF THE PROPERTY

Ι,				
	REVISIONS			
	NO.	REVISIO	N	DATE
	OCTOBER 18, 2022			
	DRAV	RAWN/DESIGN BY CHECKED BY		KED BY
	_C	CCC/GMP FCM		CM

CANOPY
ELEVATIONS

SCALE: AS NOTED

PROJECT NO.
NEX-2200013

1 OF 1