

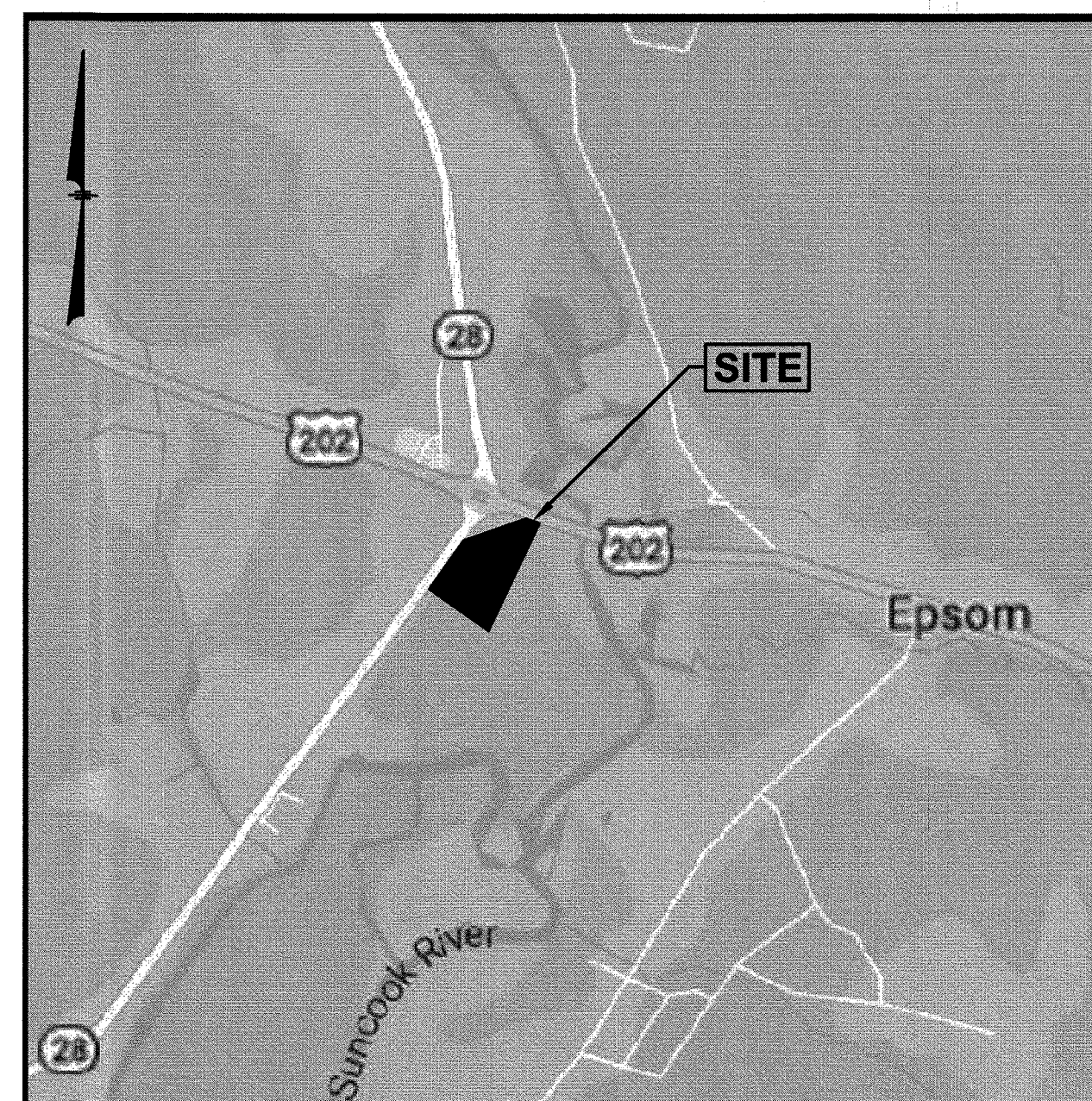
PROPOSED RETAIL MOTOR FUEL OUTLET SITE REDEVELOPMENT PLANS

for

**ASSESSORS MAP U5 LOT 13
910 SUNCOOK VALLEY HIGHWAY
EPSOM, NEW HAMPSHIRE**

Prepared for:

**GRANITE STATE CONVENIENCE, LLC
25 SPRINGER ROAD
HOOKSETT, NH 03106**

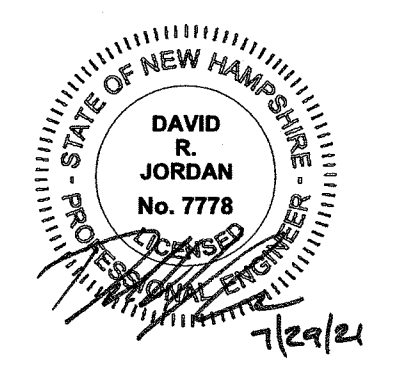


LOCATION MAP
(NOT TO SCALE)

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PROPOSED RETAIL MOTOR FUEL OUTLET
ASSESSORS MAP U5 LOT 13
910 SUNCOOK VALLEY HWY
EPSOM, NEW HAMPSHIRE



REVISIONS

NO.	REVISION	DATE
2	ADD SHEET 14, REV. SHEETS 2, 4-9, 11	7/30/21
1	REVISE SHEET 4	7/22/21

JUNE 18, 2021

DRAWN/DESIGN BY JD/NID	CHECKED BY FCM
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TITLE SHEET

SCALE: NOT TO SCALE

PROJECT NO.
NEX-2020033

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APPROVED BY THE EPSOM PLANNING BOARD
ON _____, 2021

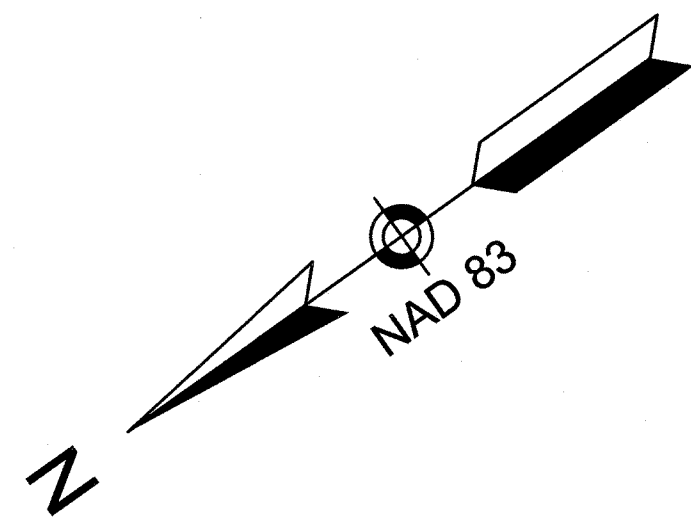
CERTIFIED BY:

CHAIR PERSON

SECRETARY

LEGEND

- SOC SLOPED GRANITE CURB
 - VGC VERTICAL GRANITE CURB
 - DSLY DOUBLE SOLID LINE YELLOW
 - SSLY SINGLE SOLID LINE YELLOW
 - SSLW SINGLE SOLID LINE WHITE
 - EOP EDGE OF PAVEMENT
 - EGC EDGE OF GRAVEL
 - W WATER LINE
 - E UNDERGROUND ELECTRIC
 - CLN CHAIN LINK FENCE
 - 90 CONTOUR ELEVATION
 - T TREE
 - UPO UTILITY POLE
 - GUY GUY WIRE
 - OVH OVERHEAD WIRE
- SIGN
 - SPOT ELEVATION
 - DRAIN MANHOLE
 - CATCH BASIN
 - SEWER MANHOLE
 - WATER VALVE
 - WATER SHUT OFF
 - FIRE HYDRANT
 - BOLLARD
 - GAS METER
 - ELECTRIC METER
 - MONITORING WELL
 - LIGHT POLE
 - WETLAND LINE
 - TREELINE
 - NUMBER OF PARKING SPACES

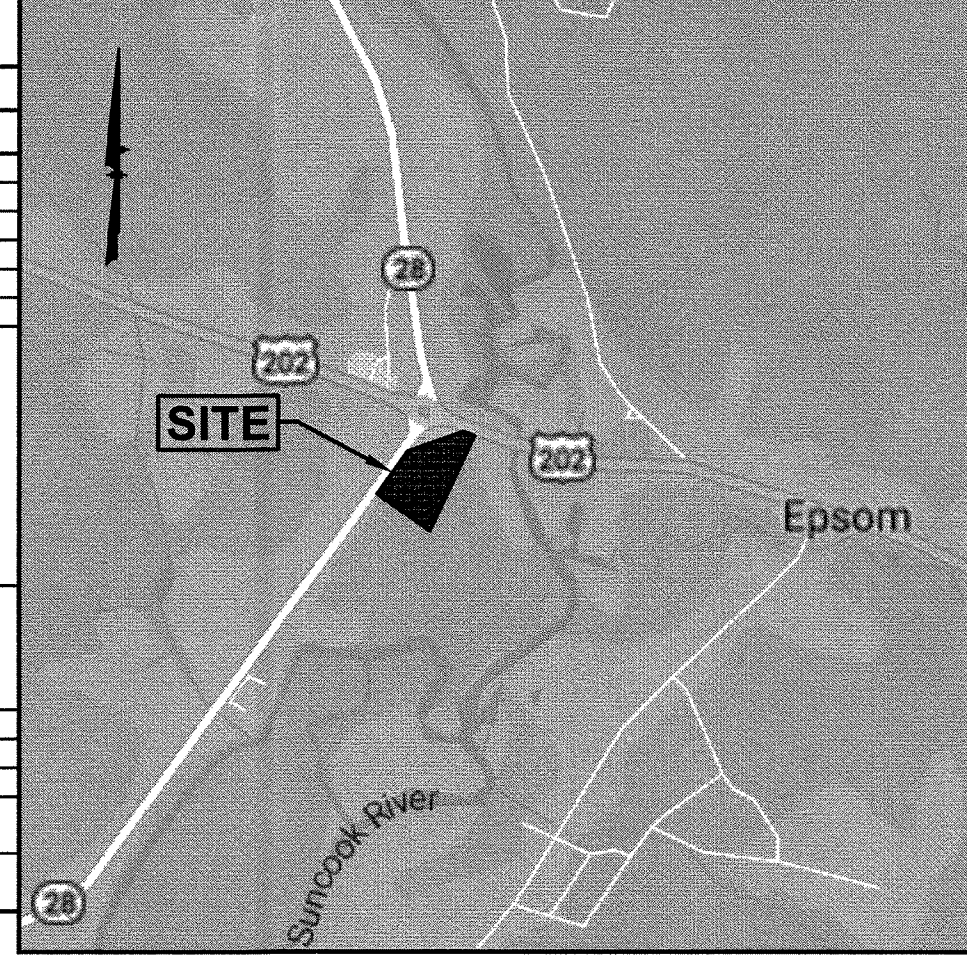


SIGN KEY

SIGN I.D. NUMBER	TEXT/COLOR	SIZE/REMARKS
R1-1	STOP R/W	30" x 30" NEW SIGN WITH POST
R5-1	NO STOP ENTER R/W	30" x 30" NEW SIGN WITH POST
R7-8	RELOCATED SIGN G/B/W	12" x 18" NEW SIGN WITH POST
R7-8P	VAN ACCESSIBLE B/W	12" x 6" NEW SIGN WITH POST

TABLE OF ZONING REGULATIONS - EPSOM, NH

DESCRIPTION	REQUIRED	PROVIDED
MINIMUM LOT AREA - Sq. Ft.	2 AC.	2,938 AC.±
MINIMUM LOT FRONTAGE	200'	639.76'
MINIMUM FRONT YARD BUILDING SETBACK	50'	53.4'
MINIMUM SIDE YARD BUILDING SETBACK	15'	66.2'
MINIMUM REAR YARD BUILDING SETBACK	20'	N/A
PARKING SPACE DIMENSIONS	9' X 19'	9' X 19'
MINIMUM NUMBER OF PARKING SPACES	RETAIL: 1 SPACE PER 250 SF GFA 4,555 SF x 1 SP/250 SF = 18.2 SPACES RESTAURANT: 1 SPACE PER 75 SF GFA 1,000 SF x 1 SP/75 SF = 13.3 SPACES GAS STATION: 1 SPACE PER / 25 SF 0 SF = 0 SPACES TOTAL REQUIRED SPACES = 32 SPACES	33 SPACES
MINIMUM NUMBER OF STACKING SPACES	1.5 STACKING SPACES PER FUEL DISPENSING STATION 11 STACKING SPACES FOR DRIVE-THRU 12 STATIONS X 1.5 = 18 STACKING	DRIVE-THRU = 11 SPACES FUEL DISPENSING STATION = 24 SPACES
MINIMUM OPEN SPACE	20%	42.6%
MAXIMUM BUILDING HEIGHT	2.5 STORIES	< 2.5 STORIES
FREESTANDING SIGN HEIGHT, AREA	16' HEIGHT, 80 SF AREA 36 SF AREA, NO MORE THAN 2 SIGNS OF ANY TYPE NOT MORE THAN 50 SF	20' HIGH, 106.1 SF PER SIGN, 2 SIGNS 395.7 SF
INTERNAL LANDSCAPING	5% OF INTERIOR PARKING AREA (48,758 SF) 48,758 SF x .05 = 2,437 SF REQUIRED	3,490 SF/48,758 SF = 7.2%



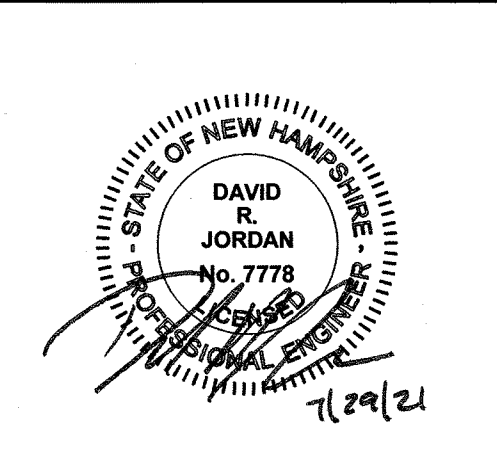
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Salem, NH 03079

PREPARED FOR
GRANITE STATE CONVENIENCE, LLC
25 SPRINGER ROAD
HOOKSETT, NH 03106

PROPOSED RETAIL MOTOR FUEL OUTLET ASSESSORS MAP U5 LOT 13
910 SUNCOOK VALLEY HWY EPSOM, NEW HAMPSHIRE

NOTES:

- TAX MAP U5 LOTS 13
- ZONING DISTRICT: RESIDENTIAL-COMMERCIAL (R/C)
- LOT AREA = 127,976 Sq.Ft. = 2,938 Ac.±
- THE PURPOSE OF THIS PLAN IS TO SHOW THE REDEVELOPMENT OF A RETAIL MOTOR FUEL OUTLET.
- EXISTING BOUNDARY AND PLANIMETRIC INFORMATION AS SHOWN IS THE RESULT OF AN ACTUAL FIELD SURVEY BY THIS OFFICE.
- EXISTING USE: RETAIL MOTOR FUEL OUTLET WITH A 3,830 SF CONVENIENCE STORE AND 4 FUEL DISPENSER ISLANDS. PROPOSED USE: RETAIL MOTOR FUEL OUTLET WITH A 5,555 SF CONVENIENCE STORE/SANDWICH SHOP WITH DRIVE-THRU AND 6 FUEL DISPENSER ISLANDS WITH OVERHEAD CANOPY.
- ALL BUILDINGS AND SITE CONSTRUCTION SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AS REVISED IN 2010.
- THE LOCATIONS OF EXISTING SUBSURFACE UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM AVAILABLE RECORD DRAWINGS AND ARE NOT WARRANTED TO BE CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SUBSURFACE UTILITIES PRIOR TO PERFORMING ANY WORK.
- WRITTEN DIMENSIONS ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE 811 PRIOR TO ANY EXCAVATION.
- ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF EPSOM AND THE STATE OF NEW HAMPSHIRE.
- THE SURVEY TRACT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (100 YEAR FLOOD) PER FLOOD INSURANCE RATE MAP NUMBER 33013C05078E, WITH AN EFFECTIVE DATE OF APRIL 19, 2010. THE BASE FLOOD ELEVATION (BFE) AT THE UPSTREAM EDGE OF THE SITE = 338.8' (NAVD88) PER FIS PROFILE 74P.
- ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND THE STANDARD CONSTRUCTION DRAWINGS AS SUPPLIED BY THE DEVELOPER.
- SIGN PERMITS SHALL BE OBTAINED PRIOR TO INSTALLATION.
- PROPOSED SNOW STORAGE AREAS AS SHOWN. ANY EXCESS SNOW TO BE TRUCKED OFF-SITE.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY GREENMAN-PEDERSEN, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR AND/OR ENGINEER AS INCLUDED IN THE PLAN SET DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE AND/OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
- ALL UNDERGROUND STORAGE TANKS, PRODUCT PIPING AND VENT LINES SHALL COMPLY WITH CURRENT STATE AND E.P.A. REGULATIONS.
- SELF-SERVICE APPROVAL IS REQUIRED FROM THE OFFICE OF THE STATE FIRE MARSHAL. SEE APPROVED FIRE SUPPRESSION PLAN FOR LAYOUT OF SPILL CONTAINMENT GROOVES (POSITIVE LIMITING BARRIERS).
- A SPECIAL PERMIT WAS GRANTED BY THE ZONING BOARD OF ADJUSTMENTS TO ALLOW A DRIVE-IN EATING ESTABLISHMENT WITH A DRIVE-THRU ON MAY 19, 2021.
- THE FOLLOWING VARIANCES WERE GRANTED BY THE ZONING BOARD OF ADJUSTMENTS ON MAY 19, 2021:
 - TO ALLOW 2 FREESTANDING SIGNS WITH LED CHANGEABLE UNIT PRICING SIGNS
 - TO ALLOW 2 FREESTANDING SIGNS WITH A TOTAL SIGN AREA OF 212.2 SF
 - TO ALLOW A FREESTANDING SIGN HEIGHT OF 20 FT
 - TO ALLOW WALL AND ADVERTISING DISPLAY SIGNS TOTALING AN AREA OF 395.7 SF
- THE FOLLOWING WAIVERS ARE REQUESTED FROM THE PLANNING BOARD:
 - TO ALLOW A DRIVEWAY GREATER THAN 35FT IN WIDTH (SECTION 4.2.10)
 - TO ALLOW 2 DRIVEWAYS WITH 440FT SEPARATION ON A LOT WITH 639.76FT OF FRONTAGE (SECTION 4.2.11)
 - TO ALLOW A REDUCTION IN THE REQUIRED INTERNAL LANDSCAPING (4.4.15)
- APPROPRIATE EROSION CONTROL MEASURES (HAY BALES, SILT FENCE) SHALL BE INSTALLED PRIOR TO INITIATION OF ANY SITE WORK & SHALL BE MAINTAINED BY THE DEVELOPER UNTIL ADEQUATE VEGETATIVE COVER IS ESTABLISHED ON ALL GRADED AREAS. SEE EROSION & SEDIMENT CONTROL PLAN.
- ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED TO NEW HAMPSHIRE FISH AND GAME VIA EMAIL RAAR@WILDLIFE.NH.GOV AND MELISSA.DOPERLSKI@WILDLIFE.NH.GOV. EMAIL SUBJECT LINE: "PROJECT NAME AND NH NUMBER." PHOTOGRAPHS SHALL BE PROVIDED FOR VERIFICATION AS FEASIBLE.
- IF ANY THREATENED OR ENDANGERED SPECIES ARE OBSERVED WITHIN THE DISTURBANCE AREA AND ARE IN HARM'S WAY, IF IT SAFE TO DO SO, MOVE TO THE CLOSEST LOCATION IN THE DIRECTION THEY WERE HEADING AND IMMEDIATELY CONTACT NHFG AT 603-271-2461 OR NHFG WILDLIFE BIOLOGIST MELISSA DOPERLSKI TEXT OR PHONE AT 603-479-1129. INCLUDE PHOTOGRAPHS IF FEASIBLE.
- NHFG SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.
- ELECTRIC CONDUIT TO BE INSTALLED FOR FUTURE CHARGING STATIONS.
- APPROPRIATE EROSION CONTROL MEASURES (HAY BALES, SILT FENCE) SHALL BE INSTALLED PRIOR TO INITIATION OF ANY SITE WORK & SHALL BE MAINTAINED BY THE DEVELOPER UNTIL ADEQUATE VEGETATIVE COVER IS ESTABLISHED ON ALL GRADED AREAS. SEE EROSION & SEDIMENT CONTROL PLAN.



REVISIONS

NO.	REVISION	DATE
2	REV. PER TOWN COMMENTS	7/30/21
1	ADDED WETLAND CLASSIFICATIONS	7/22/21

JUNE 18, 2021

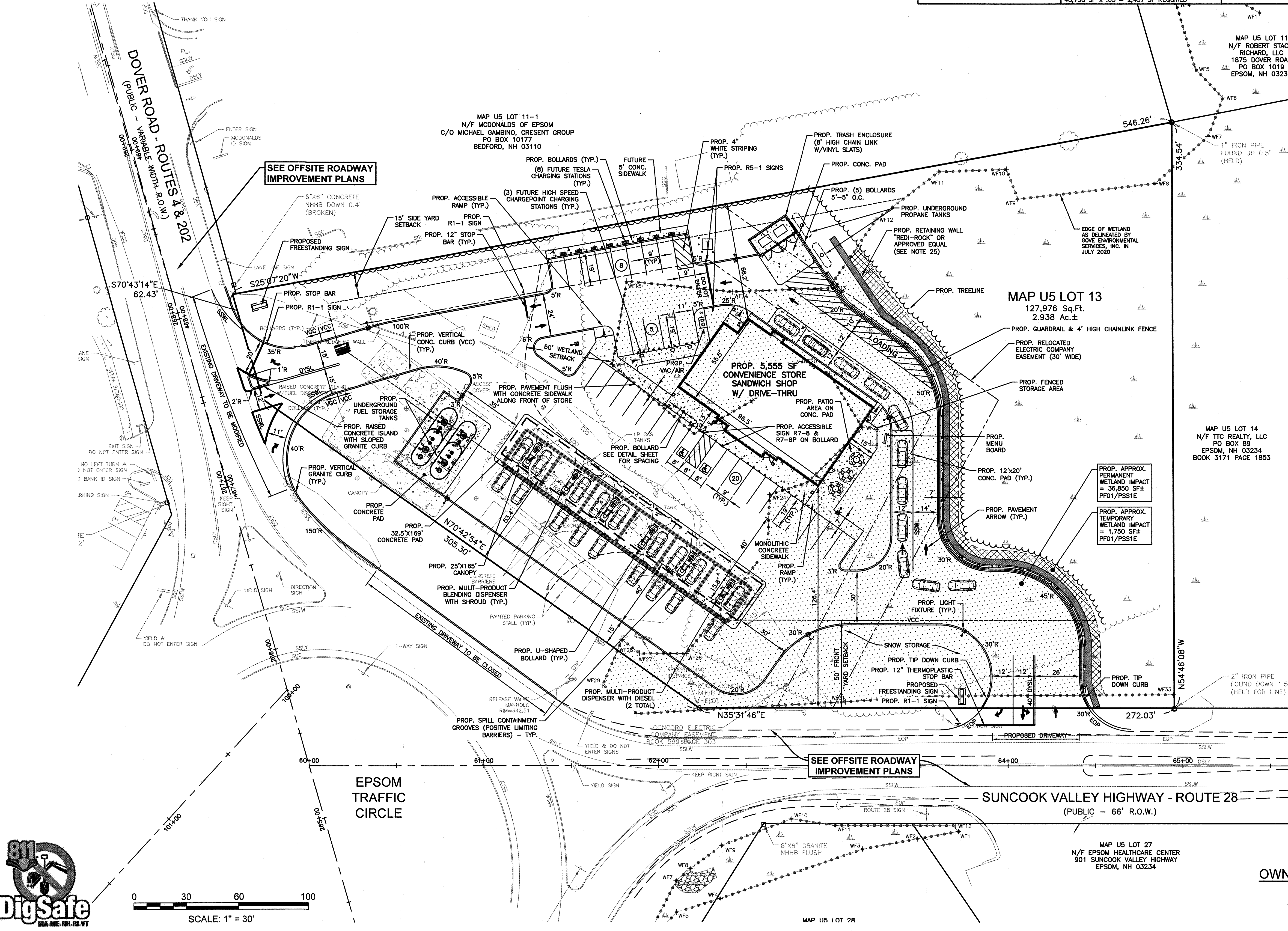
DRAWN/DESIGN BY	CHECKED BY
JD/NID	FCM

SITE PLAN

SCALE: 1"=30'

PROJECT NO. NEX-2020033

4 OF 15



SCALE: 1" = 30'

MAP U5 LOT 28

OWNER OF RECORD:
AOUDE, INC.
25 ESTHER DRIVE
BEDFORD, NH 03110
BOOK 3489 PAGE 641

APPROVED BY THE EPSOM PLANNING BOARD
ON _____, 2021

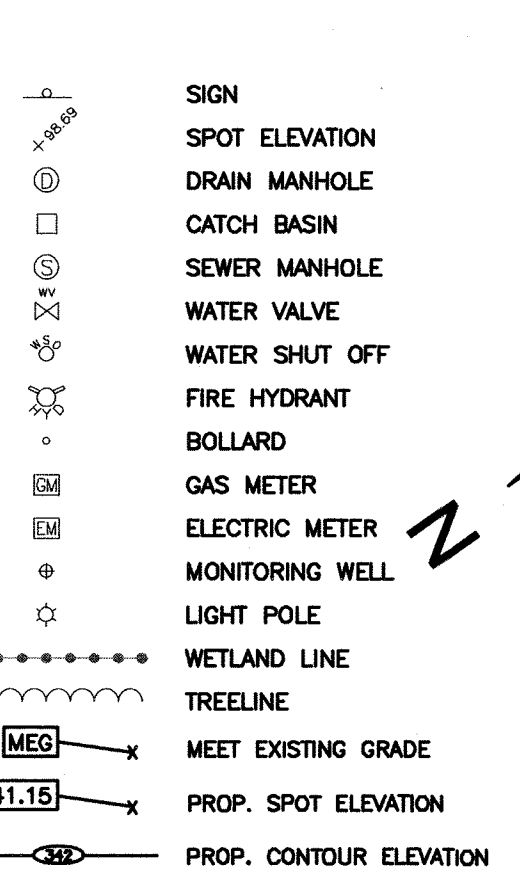
CERTIFIED BY: _____ CHAIR PERSON

SECRETARY

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LEGEND

SGC	SLOPED GRANITE CURB	+	SIGN
VGC	VERTICAL GRANITE CURB	+	SPOT ELEVATION
DSLY	DOUBLE SOLID LINE YELLOW	+	DRAIN MANHOLE
SSLY	SINGLE SOLID LINE YELLOW	+	CATCH BASIN
SSLW	SINGLE SOLID LINE WHITE	+	SEWER MANHOLE
EOP	EDGE OF PAVEMENT	+	WATER VALVE
EGR	EDGE OF GRAVEL	+	WATER SHUT OFF
w	WATER LINE	+	FIRE HYDRANT
e	UNDERGROUND ELECTRIC	+	BOLLARD
CL	CHAIN LINK FENCE	+	GAS METER
90	CONTOUR ELEVATION	+	ELECTRIC METER
T	TREE	+	MONITORING WELL
UP	UTILITY POLE	+	LIGHT POLE
GW	GUY WIRE	+	WETLAND LINE
OW	OVERHEAD WIRE	+	TREELINE
C.O.	PROP. CLEANOUT	+	MEET EXISTING GRADE
CB-1	PROP. CATCH BASIN	+	PROP. SPOT ELEVATION
DMH-1	PROP. DRAIN MANHOLE	+	PROP. CONTOUR ELEVATION
		+	TOP OF WALL ELEV.
		+	BOTTOM OF WALL ELEV.

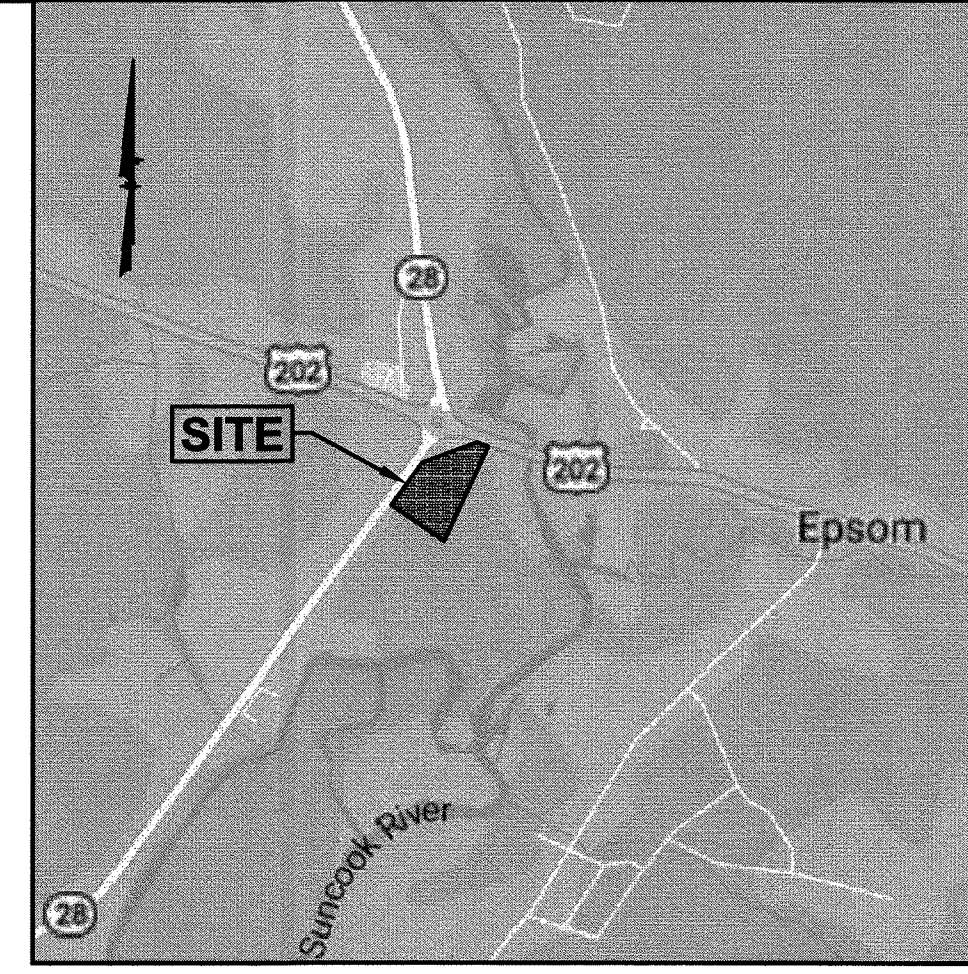


DRAINAGE STRUCTURES

CB-1 (FD) RIM=344.50 INV.IN=339.75(CB-3) INV.OUT=339.75	DMH-3 RIM=345.90 INV.OUT=341.25	PROPOSED UNDERGROUND INFILTRATION SYSTEM #1 (UGS-1) (337) ACF ENVIRONMENTAL R-TANK UD CHAMBERS (SIZE 3)
CB-2 RIM=343.70 INV.IN=341.00 INV.OUT=341.00	DMH-4(JF) RIM=344.80 INV.IN=339.35(OCS-2) INV.OUT=339.35	(164) ACF ENVIRONMENTAL R-TANK UD CHAMBERS (SIZE 3)
CB-3 RIM=344.35 INV.IN=340.55(CB-7) INV.IN=340.55(CB-2) INV.IN=340.55(CB-4) INV.OUT=340.30	DMH-5 RIM=344.25 INV.IN=339.20(DMH-4(JF)) INV.OUT=339.10	PROPOSED UNDERGROUND LINED DETENTION SYSTEM #2 (UGS-2)
CB-4 RIM=343.95 INV.IN=341.45(CB-5) INV.OUT=341.35	RG-1 RIM=340.15	(164) ACF ENVIRONMENTAL R-TANK UD CHAMBERS (SIZE 3)
CB-5 RIM=344.18 INV.OUT=341.68	HW-1 INV.=340.80	INVERT=339.45 BOT.STONE=339.20 (SEE DETAIL)
CB-6(FD) RIM=343.40 INV.OUT=340.70	HW-2 INV.=340.20	OUTLET CONTROL STRUCTURE (OCS-1)
CB-7 RIM=343.85 INV.OUT=341.25	HW-3 INV.=339.00	RIM=344.20 INV.IN=340.40 INV.OUT=341.45 (SEE DETAIL)
DMH-1 RIM=345.45 INV.IN=341.00(OCS-1) INV.OUT=340.90	HW-4 INV.=339.00	OUTLET CONTROL STRUCTURE (OCS-2)
DMH-2(JF) RIM=343.80 INV.IN=340.55(CB-6(FD)) INV.IN=340.55(DMH-3) INV.OUT=340.45	HW-5 INV.=339.00	RIM=344.95 INV.IN=339.45 INV.OUT=339.45 (SEE DETAIL)

DRAINAGE PIPE SCHEDULE

FROM STRUCTURE NUMBER	PIPE SIZE (INCHES)	TYPE OF PIPE	APPROX. PIPE LENGTH (FEET)	SLOPE OF PIPE (FT./FT.)	TO STRUCTURE NUMBER
CB-1(FD)	15	HDPE	47	0.006	UGS-2 IN
CB-2	12	HDPE	66	0.007	CB-3
CB-3	15	HDPE	72	0.008	CB-1(FD)
CB-4	12	HDPE	171	0.005	CB-3
CB-5	12	HDPE	54	0.004	CB-4
CB-6(FD)	12	HDPE	23	0.007	DMH-2(JF)
CB-7	12	HDPE	97	0.007	CB-3
DMH-1	12	HDPE	20	0.005	HW-1
DMH-2(JF)	12	HDPE	7	0.007	UGS-1
DMH-3	12	HDPE	65	0.011	DMH-2(JF)
DMH-4(JF)	12	HDPE	30	0.005	DMH-5
DMH-5	12	HDPE	17	0.008	HW-5
HW-2	12	HDPE	81	0.008	HW-5
HW-4	12	HDPE	166	0.011	EX. CB
OCS-1	12	HDPE	82	0.005	DMH-1
OCS-2	12	HDPE	17	0.008	DMH-4(JF)
UGS-1 OUT	12	HDPE	8	0.000	OCS-1
UGS-2 OUT	6	HDPE	38	0.000	OCS-2



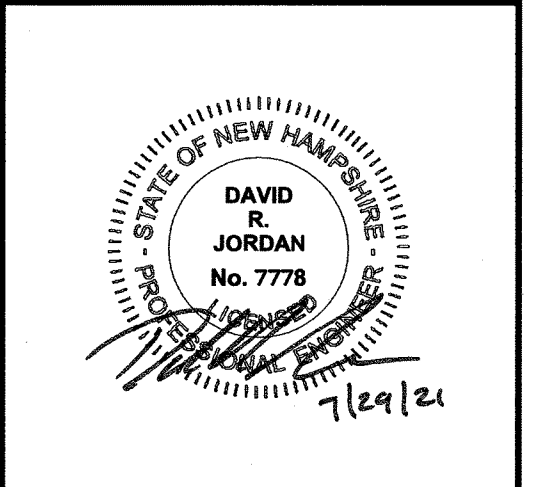
LOCATION MAP (NOT TO SCALE)

- ### NOTES:
- ALL SITE DRAINAGE PIPE SHALL BE CORRUGATED HIGH-DENSITY POLYETHYLENE PIPE WITH STANDARD JOINTS, DUAL-WALL, SMOOTH INTERIOR AS MANUFACTURED BY ADS, INC., OR APPROVED EQUAL, UNLESS OTHERWISE NOTED ON PLAN.
 - ALL ROOF AND CANOPY DRAIN PIPE SHALL BE 6" PVC(SDR-35), MIN. SLOPE=2.0%.
 - ALL SANITARY SEWER PIPE SHALL BE PVC (SDR-35), UNLESS OTHERWISE NOTED.
 - ALL WATER PIPE SHALL BE COPPER, UNLESS OTHERWISE NOTED.
 - ELEVATIONS ARE BASED ON NAVD 88 DATUM.
 - ALL PROPOSED ELEVATIONS AS SHOWN ARE BOTTOM OF CURB ELEVATIONS, UNLESS OTHERWISE NOTED.
 - ANY UTILITY FIELD ADJUSTMENTS SHALL BE APPROVED BY THE LOCAL AUTHORITIES AND THE DEVELOPER PRIOR TO INSTALLATION.
 - THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR IS TO VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND INSTALLATIONS SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ALL CONSTRUCTION SHALL CONFORM TO MUNICIPAL DPW AND ALL APPLICABLE STATE AND FEDERAL STANDARDS.
 - THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIG-SAFE (DIAL 811) PRIOR TO COMMENCING ANY EXCAVATION.
 - ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM TO DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.
 - ALL ELECTRIC, TELEPHONE AND CABLE TV LINES ARE TO BE UNDERGROUND AND INSTALLED IN CONFORMANCE WITH APPLICABLE UTILITY CO. SPECIFICATIONS.
 - THIS SITE WILL REQUIRE A USEPA NPDES PERMIT FOR STORMWATER DISCHARGE FOR THE SITE CONSTRUCTION IF THE DISTURBANCE EXCEEDS ONE ACRE (ACTUAL DISTURBANCE = 107,000 SF). THE CONSTRUCTION SITE OPERATOR SHALL DEVELOP AND IMPLEMENT A CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WHICH SHALL REMAIN ON SITE AND MADE ACCESSIBLE TO THE PUBLIC. A COMPLETED NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO NPDES PERMITTING AUTHORITY WITHIN 30 DAYS AFTER EITHER OF THE FOLLOWING CONDITIONS HAVE BEEN MET: FINAL STABILIZATION HAS BEEN ACHIEVED ON ALL PORTIONS OF THE SITE FOR WHICH THE PERMITTEE IS RESPONSIBLE; OR ANOTHER OPERATOR/PERMITTEE HAS ASSUMED CONTROL OVER ALL AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
 - THE CONTRACTOR IS TO COORDINATE WITH THE MUNICIPAL DPW REGARDING WATER PRESSURE AT SERVICE. THE CONTRACTOR IS TO VERIFY IF PRESSURE REDUCING VALVE IS REQUIRED.
 - ANY UTILITIES TO BE TAKEN OUT OF SERVICE SHALL BE DISCONNECTED AS DIRECTED BY UTILITY COMPANY AND LOCAL DPW.
 - PROPOSED SEPTIC SYSTEM TO BE APPROVED BY NHDES PRIOR TO CONSTRUCTION. SEE APPROVED PLANS.
 - ALL TRAFFIC CONTROL AND TEMPORARY CONSTRUCTION SIGNAGE ARRANGEMENTS, ACCEPTABLE TO NHDOT AND TOWN/CITY DEPARTMENT OF PUBLIC WORKS, SHALL BE EMPLOYED DURING OPERATIONS WITHIN THE PUBLIC RIGHT-OF-WAY.
 - ALL ADA ACCESSIBLE WALKWAYS CANNOT EXCEED 5% RUNNING SLOPE AND 2% CROSS SLOPE. RAMPS CANNOT EXCEED 8.33% RUNNING SLOPE AND 2% CROSS SLOPE. AND HO PARKING STALLS AND ACCESS AISLES CANNOT EXCEED 2% SLOPE IN ANY DIRECTION. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.



PREPARED FOR
GRANITE STATE
CONVENIENCE, LLC
25 SPRINGER ROAD
HOOKSETT, NH 03106

**PROPOSED RETAIL MOTOR FUEL OUTLET
ASSESSORS MAP U5 LOT 13
910 SUNCOOK VALLEY HWY
EPSOM, NEW HAMPSHIRE**



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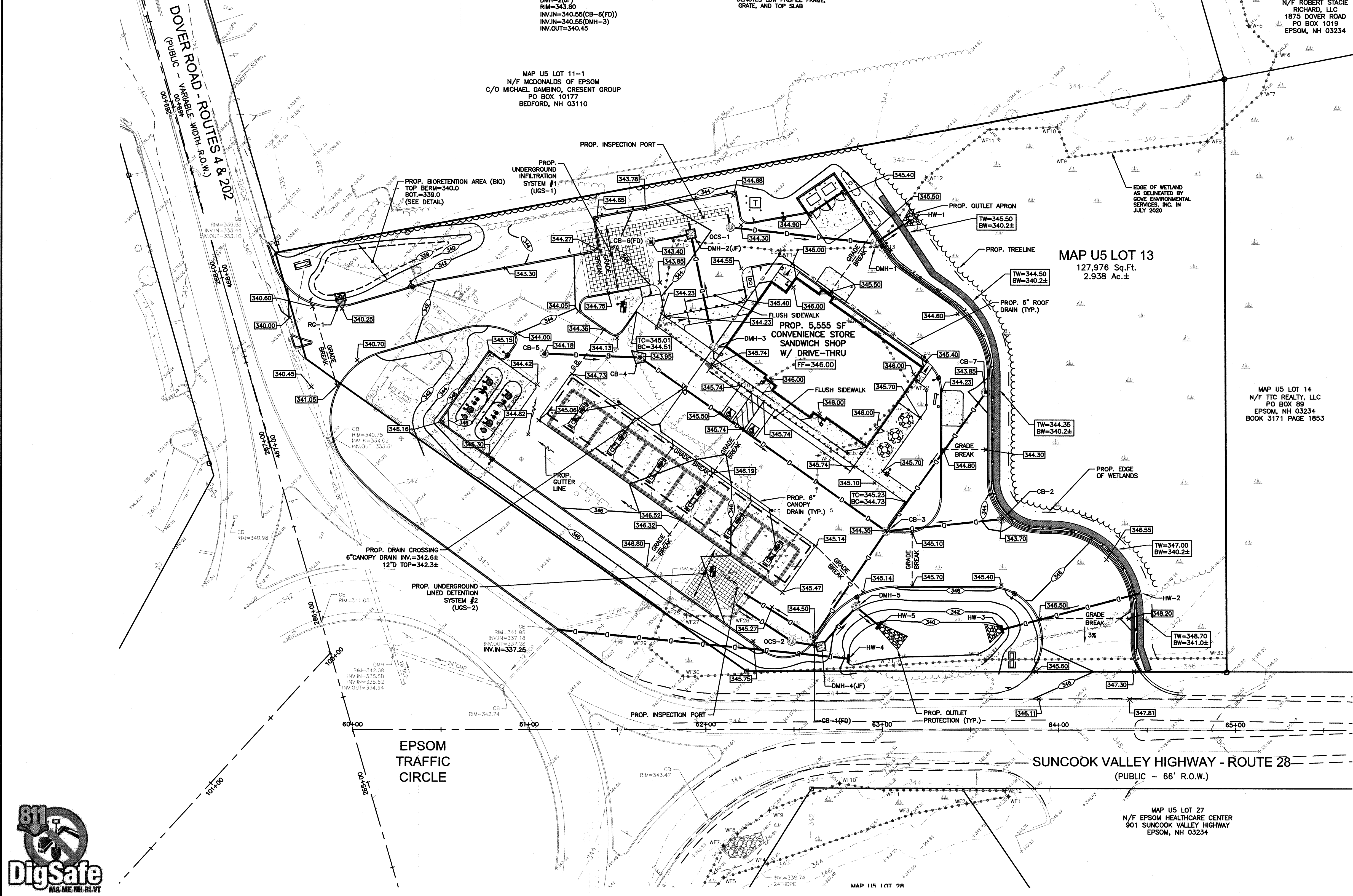
JUNE 18, 2021
DRAWN/DESIGN BY: JD/NID
CHECKED BY: FCM

GRADING & DRAINAGE PLAN

SCALE: 1"=30'

PROJECT NO. NEX-2020033

5 OF 15



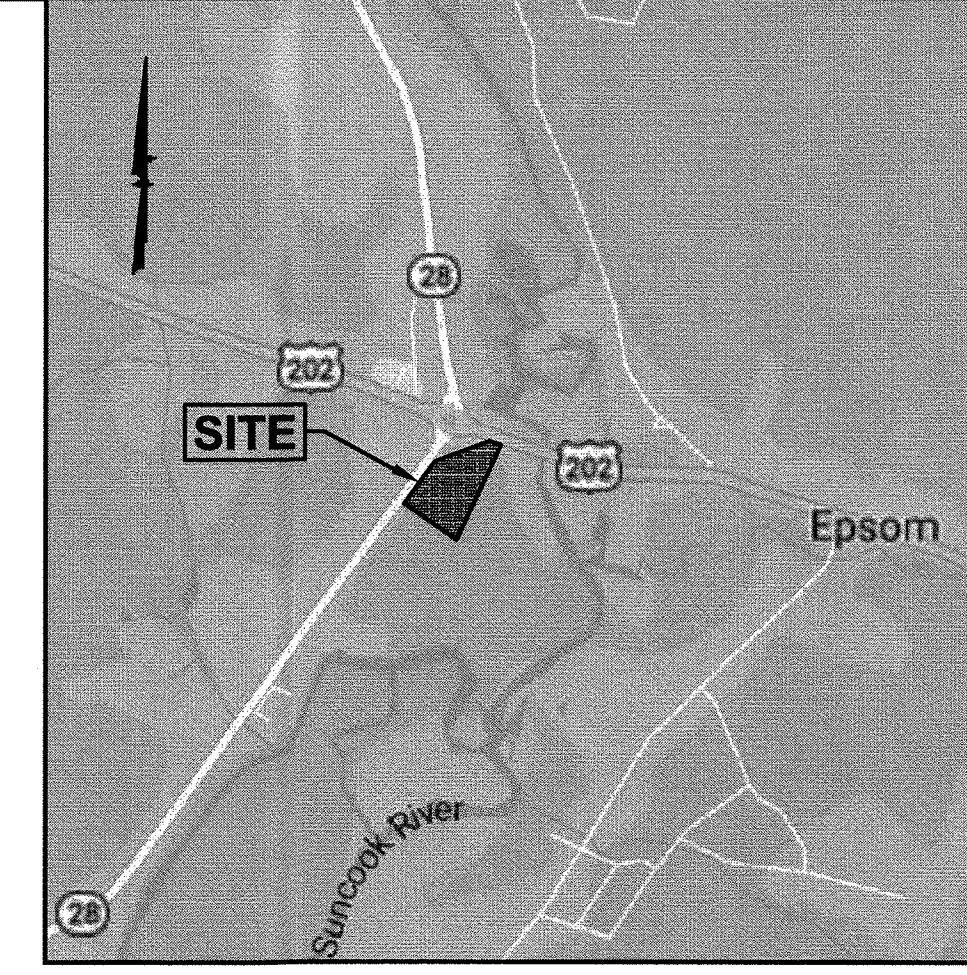
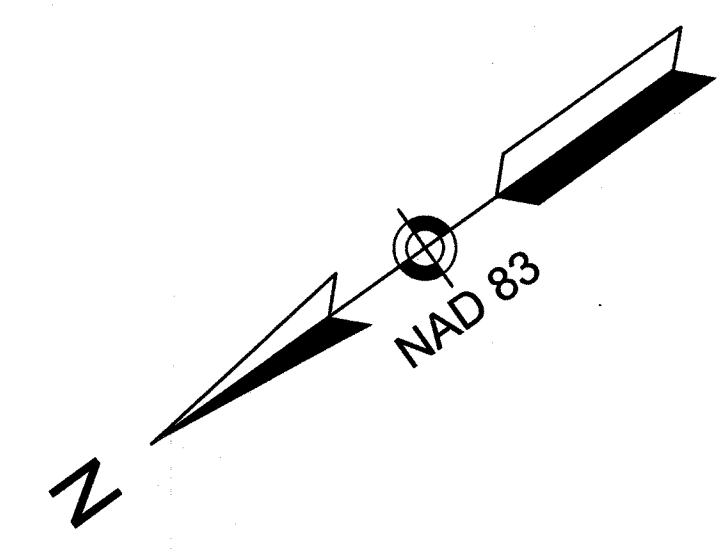
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LEGEND

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VGC	VERTICAL GRANITE CURB	SE	SPOT ELEVATION
DSLY	DOUBLE SOLID LINE YELLOW	DMH	DRAIN MANHOLE
SSLY	SINGLE SOLID LINE YELLOW	CB	CATCH BASIN
SSLW	SINGLE SOLID LINE WHITE	SMH	SEWER MANHOLE
EOP	EDGE OF PAVEMENT	W	WATER VALVE
EDG	EDGE OF GRAVEL	WS	WATER SHUT OFF
W	WATER LINE	FH	FIRE HYDRANT
E	UNDERGROUND ELECTRIC	B	BOLLARD
CLF	CHAIN LINK FENCE	G	GAS METER
90	CONTOUR ELEVATION	EM	ELECTRIC METER
T	TREE	MW	MONITORING WELL
UP	UTILITY POLE	LP	LIGHT POLE
GW	GUY WIRE	WL	WETLAND LINE
OW	OVERHEAD WIRE	TL	TREELINE

C.O.	PROP. CLEANOUT
CB-1	PROP. CATCH BASIN
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SMH-1	PROP. SEWER MANHOLE
GV	PROP. GATE VALVE



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44 Siles Road, Suite One
Salem, NH 03079

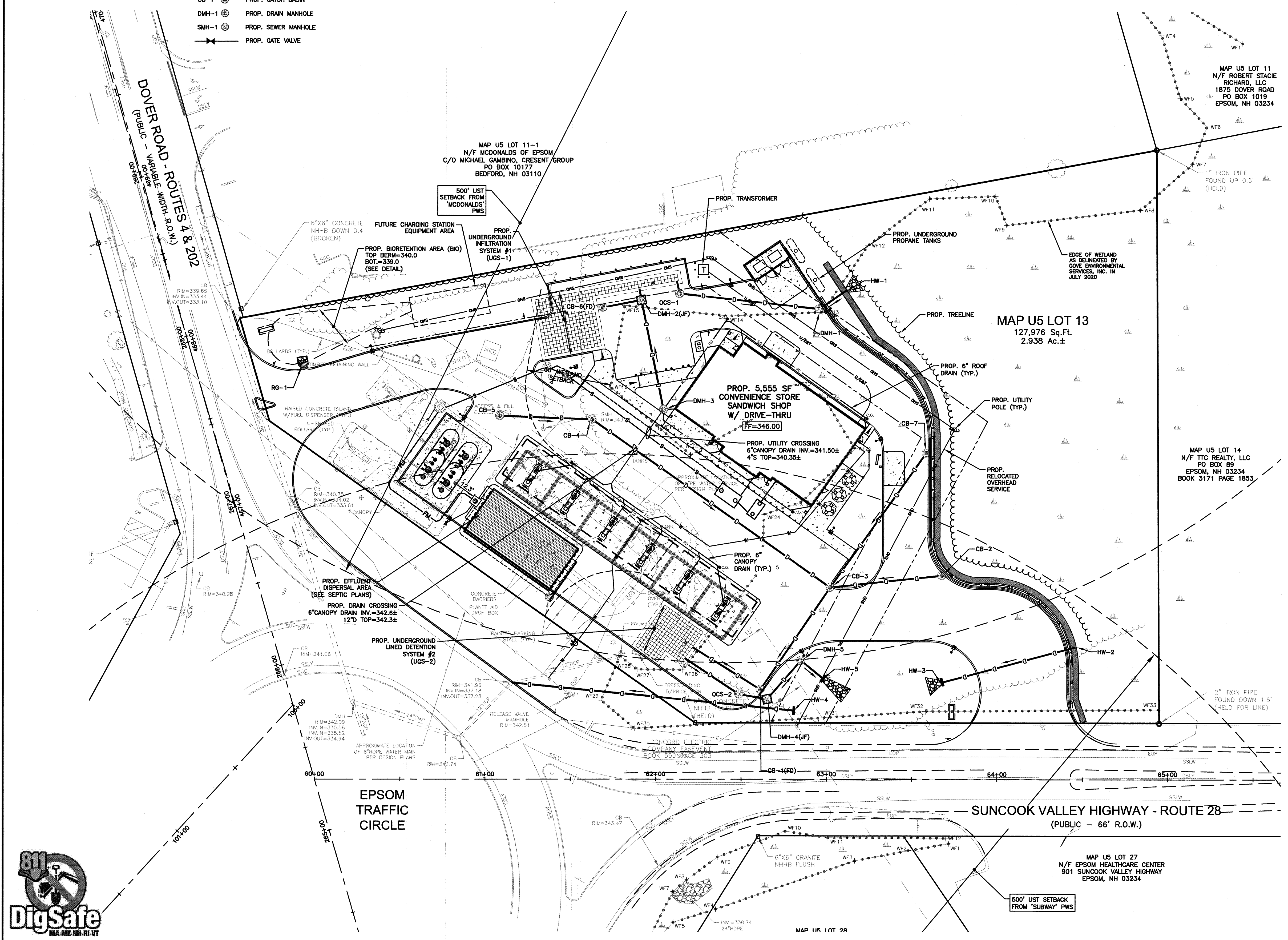
PREPARED FOR
GRANITE STATE
CONVENIENCE, LLC
25 SPRINGER ROAD
HOOKSETT, NH 03106

**PROPOSED RETAIL MOTOR FUEL OUTLET
ASSESSORS MAP U5 LOT 13**

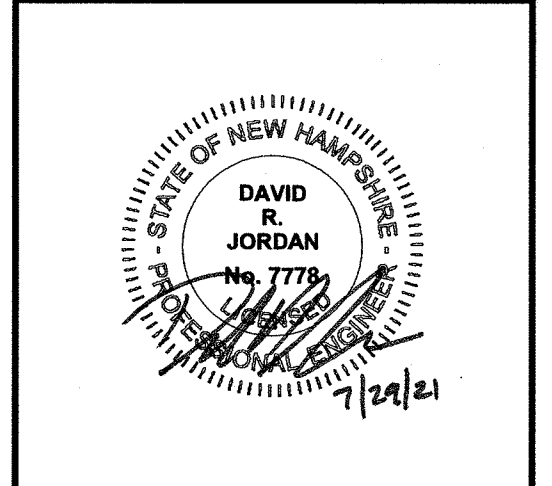
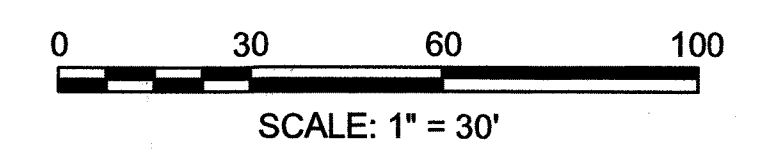
**910 SUNCOOK VALLEY HWY
EPSOM, NEW HAMPSHIRE**

NOTES:

- 1) ALL SANITARY SEWER PIPE SHALL BE PVC (SDR-35), UNLESS OTHERWISE NOTED.
- 2) ALL WATER PIPE SHALL BE COPPER (TYPE K), UNLESS OTHERWISE NOTED.
- 3) ANY UTILITY FIELD ADJUSTMENTS SHALL BE APPROVED BY THE LOCAL AUTHORITIES AND THE DEVELOPER PRIOR TO INSTALLATION.
- 4) THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR IS TO VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES.
- 5) ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE CITY, STATE AND FEDERAL STANDARDS.
- 6) THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIG-SAFE (1-888-344-7233) PRIOR TO COMMENCING ANY EXCAVATION.
- 7) ANY WATER SERVICE CONSTRUCTION SHALL CONFORM WITH EPSOM VILLAGE WATER DISTRICT SPECIFICATIONS.
- 8) ALL ELECTRIC, TELEPHONE AND CABLE TV LINES ARE TO BE UNDERGROUND AND INSTALLED IN CONFORMANCE WITH UTILITY COMPANY.
- 9) ALL TRAFFIC CONTROL AND TEMPORARY CONSTRUCTION SIGNAGE ARRANGEMENTS, ACCEPTABLE TO THE TOWN OF EPSOM, SHALL BE EMPLOYED DURING OPERATIONS WITHIN THE PUBLIC RIGHT-OF-WAY.
- 10) SEE GRADING & DRAINAGE PLAN FOR DETAILED DRAINAGE INFORMATION.
- 11) ELECTRICAL CONDUIT TO BE PROVIDED FOR FUTURE CHARGING STATIONS.



OWNER OF RECORD:
AQUIDE, INC.
25 ESTHER DRIVE
BEDFORD, NH 03110
BOOK 3489 PAGE 641



REVISIONS

NO.	REV. PER TOWN COMMENTS	DATE
1	REV. PER TOWN COMMENTS	7/30/21

JUNE 18, 2021

DRAWN/DESIGN BY JD/NID	CHECKED BY FCM
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UTILITY PLAN

SCALE: 1"=30'

PROJECT NO.
NEX-2020033

6 OF 15

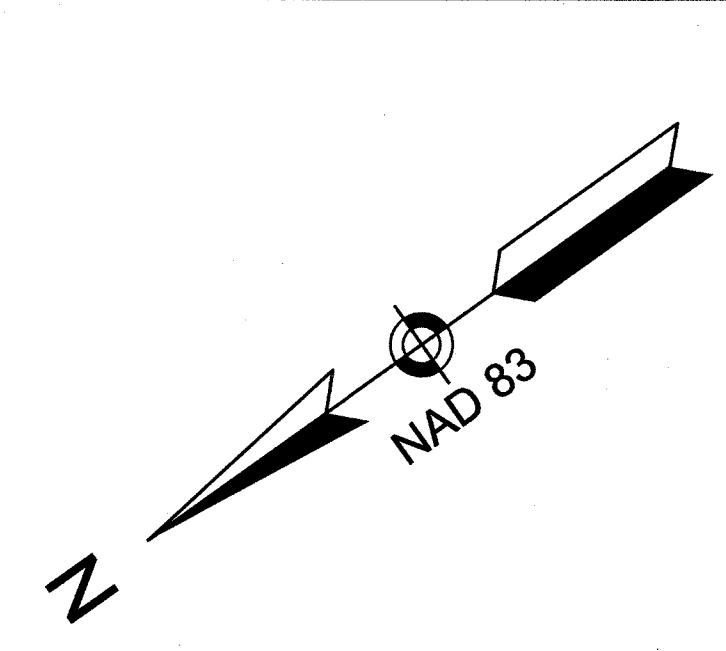


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LEGEND

SSC	SLOPED GRANITE CURB	SIGN
YGC	VERTICAL GRANITE CURB	SPOT ELEVATION
DSLY	DOUBLE SOLID LINE YELLOW	DRAIN MANHOLE
SSLY	SINGLE SOLID LINE YELLOW	CATCH BASIN
SSLW	SINGLE SOLID LINE WHITE	SEWER MANHOLE
EOP	EDGE OF PAVEMENT	WATER VALVE
EOG	EDGE OF GRAVEL	WATER SHUT OFF
W	WATER LINE	FIRE HYDRANT
E	UNDERGROUND ELECTRIC	BOLLARD
90	CHAIN LINK FENCE	GAS METER
90	CONTOUR ELEVATION	ELECTRIC METER
T	TREE	MONITORING WELL
U	UTILITY POLE	LIGHT POLE
G	GLY WIRE	WETLAND LINE
OW	OVERHEAD WIRE	TREELINE
CE	PROP. CONTOUR ELEVATION	C.O.
CF	PROP. SILT FENCE	CB-1
		DMH-1

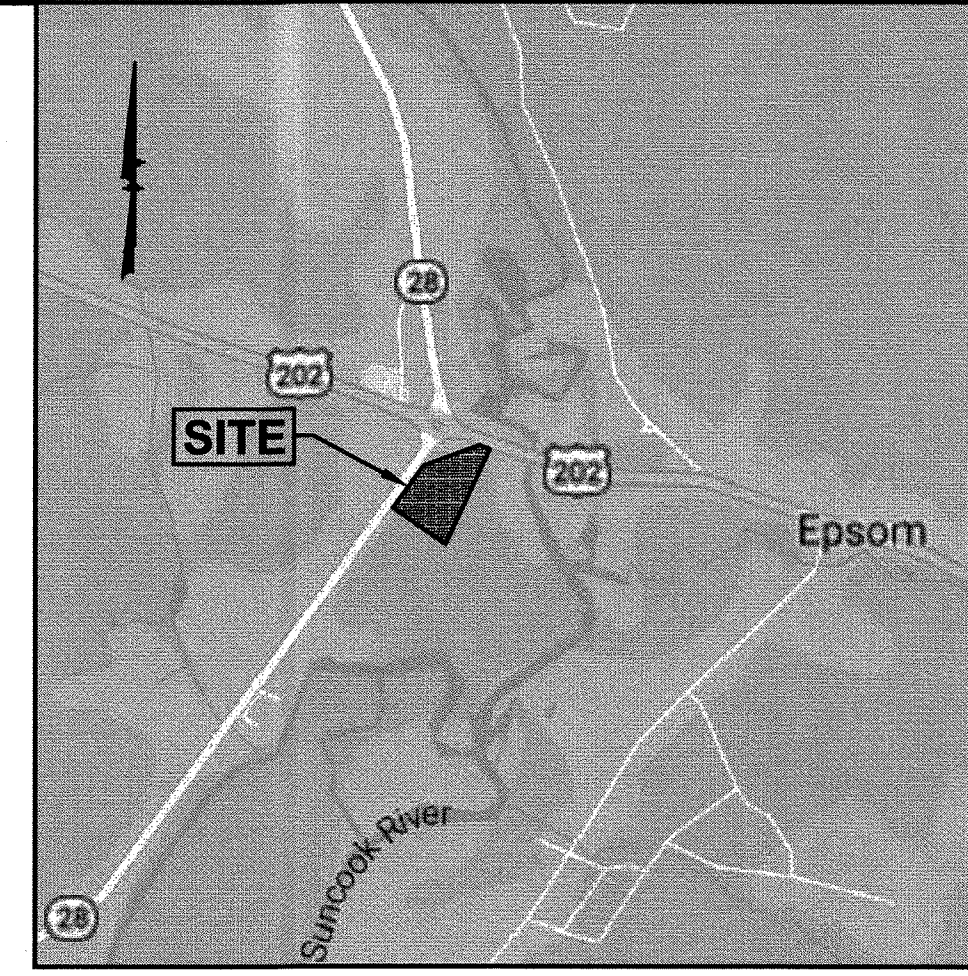
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DSLY	DOUBLE SOLID LINE YELLOW
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W	WATER LINE
E	UNDERGROUND ELECTRIC
90	CHAIN LINK FENCE
90	CONTOUR ELEVATION
T	TREE
U	UTILITY POLE
G	GLY WIRE
OW	OVERHEAD WIRE
CE	PROP. CONTOUR ELEVATION
CF	PROP. SILT FENCE



- ### CONSTRUCTION SEQUENCE NOTES:
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. CONSTRUCT TEMPORARY STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THIS SHEET.
 3. CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
 4. REMOVE AND STOCKPILE TOPSOIL. STOCKPILE SHALL BE SEED TO PREVENT EROSION.
 5. CONSTRUCT PONDS, SWALES & LEVEL SPREADERS & STABILIZE PRIOR TO DIRECTING ANY RUNOFF TO THEM.
 6. CONSTRUCT ROADWAYS AND PERFORM SITE GRADING, PLACING HAY BALES AND SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION. STABILIZE ROADS, PARKING LOTS AND CUT/FILL SLOPES WITHIN 72-HOURS OF ACHIEVING FINISH GRADES.
 7. CONSTRUCT RELOCATED DRAINAGE LINE PRIOR TO REMOVING THE EXISTING DRAINAGE LINE AS SHOWN ON DEMOLITION PLAN AND CONNECT RELOCATED DRAINAGE LINE.
 8. INSTALL UNDERGROUND UTILITIES AND DRAINAGE SYSTEM.
 9. BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEED OR MULCHED WITHIN 72-HOURS OF ACHIEVING FINISHED GRADES.
 10. DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING. AT A MINIMUM, INSPECT EROSION CONTROLS WEEKLY AND AFTER EVERY 1/2" OF RAINFALL.
 11. BEGIN EXCAVATION FOR CONSTRUCTION OF BUILDINGS.
 12. FINISH PAVING ALL ROADWAYS AND DRIVEWAYS.
 13. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
 14. AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDED AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.
 15. APPLICATION OF GRASS SEED, FERTILIZERS AND MULCH SHALL BE ACCOMPLISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE RATES OUTLINED BELOW:

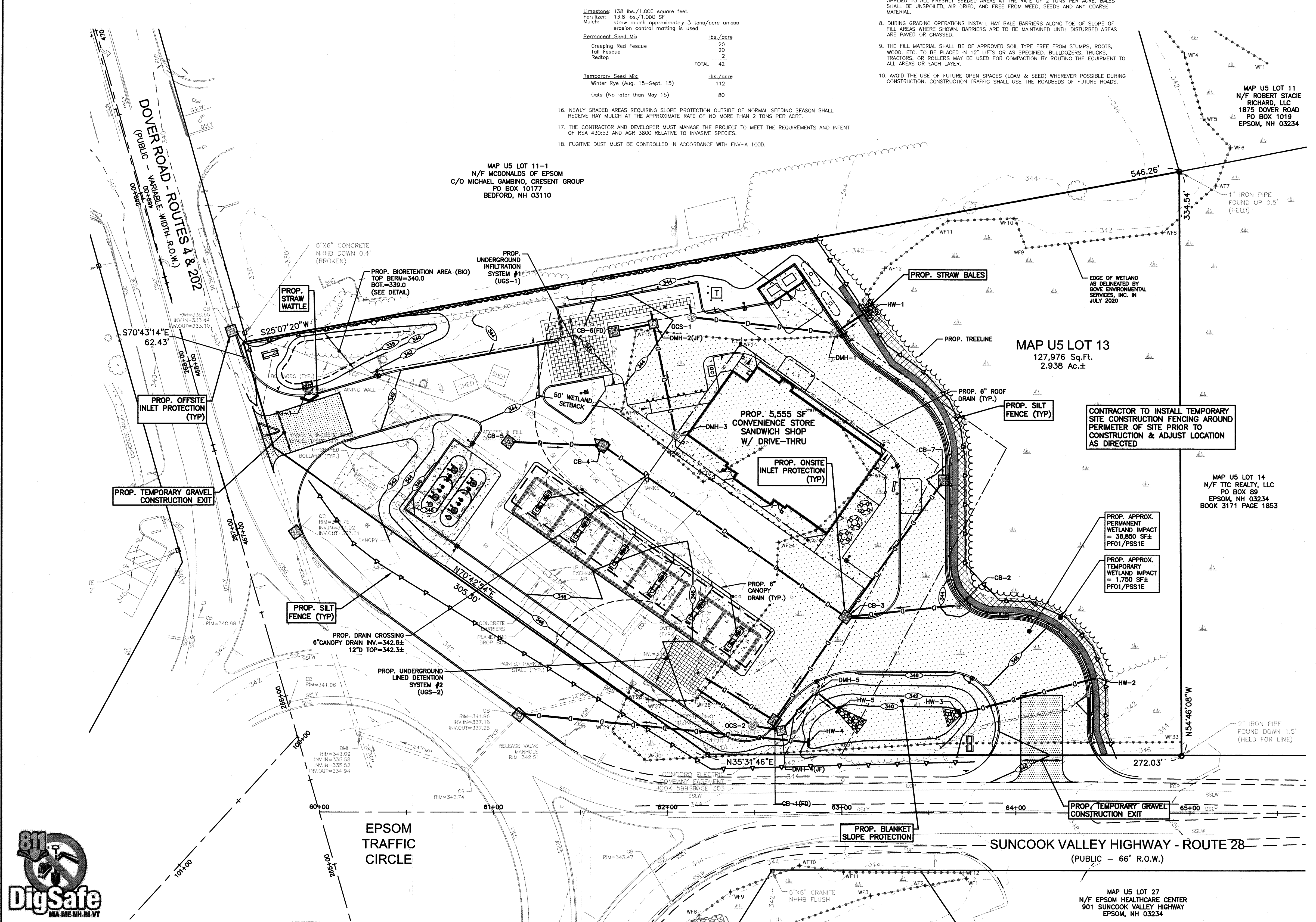
Limestone	138 lbs./1,000 square feet.
Fertilizer	13.8 lbs./1,000 SF
Mulch	straw mulch approximately 3 tons/acre unless erosion control matting is used.
Permanent Seed Mix	lbs./acre
Creeping Red Fescue	20
Tall Fescue	2
Redtop	2
TOTAL	42
Temporary Seed Mix	lbs./acre
Winter Rye (Aug. 15-Sept. 15)	112
Oats (No later than May 15)	80
 16. NEWLY GRADED AREAS REQUIRING SLOPE PROTECTION OUTSIDE OF NORMAL SEEDING SEASON SHALL RECEIVE HAY MULCH AT THE APPROXIMATE RATE OF NO MORE THAN 2 TONS PER ACRE.
 17. THE CONTRACTOR AND DEVELOPER MUST MANAGE THE PROJECT TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.
 18. FUGITIVE DUST MUST BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000.

- ### EROSION CONTROL NOTES:
1. THE EROSION CONTROL PROCEDURES SHALL CONFORM TO THE NH STORMWATER MANUAL, VOLUME 3, EROSION & SEDIMENT CONTROLS DURING CONSTRUCTION, DECEMBER 2008.
 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 OCCURRED:
 - 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 GRASS.
 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 1 TON PER ACRE. BALES SHALL BE UNPOOLED, 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 OF EACH LAYER.
 10. AVOID THE USE OF FUTURE OPEN SPACES (LOAM & SEED) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ROADS.



- ### TEMPORARY EROSION CONTROL MEASURES:
1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
 2. HAY BALE BARRIERS AND SEDIMENT TRAPS SHALL BE INSTALLED AS REQUIRED. BARRIERS AND TRAPS ARE 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 SILTATION FENCE AND SEED 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 AND SEEDING AS SPECIFIED.
 7. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED.
 8. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
 9. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH LOW POINT SEDIMENTATION BARRIER.
 10. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AND CLEANED AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
 11. ALL DOWNSPOUT OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA.
 12. JUTE MATING OR APPROVED EQUIVALENT SHALL BE PROVIDED ON ALL SLOPES GREATER THAN 3:1.

- ### WINTER STABILIZATION NOTES:
- MAINTENANCE REQUIREMENTS:
- MAINTENANCE MEASURES SHOULD CONTINUE AS NEEDED THROUGHOUT CONSTRUCTION, INCLUDING THE OVER-WINTER PERIOD. AFTER EACH RAINFALL, SNOWFALL, 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:
1. 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.
 2. 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 ENVIRONMENTAL INTERNATIONAL, INC.
 3. STABILIZATION AS FOLLOWS SHOULD BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 3 DAYS:
 - A) ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 10% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE SEED 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 BERM FOR MATERIAL SPECIFICATION).
 - B) ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 10% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE SEED 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 OVERHEAT.
 4. ALL STONE-COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
 5. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHOULD NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH.
 6. ALL MULCH APPLIED DURING WINTER SHOULD BE ANCHORED (E.G., BY NETTING, TRACKING, WOOD CELLULOSE FIBER).
 7. STOCKPILES OF SOIL MATERIALS SHOULD BE MULCHED FOR OVER WINTER 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.
 8. 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 NEEDING 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.
 9. INSTALLATION OF EROSION CONTROL BLANKETS SHOULD NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH OR ON FROZEN GROUND.
 10. 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 REGION 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 ENVIRONMENTAL 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.
 11. ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
 12. AFTER NOVEMBER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.
 13. 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 EMBANKMENT OF THESE BARRIERS.



MAP U5 LOT 11-1
N/F MCDONALDS OF EPSOM
C/O MICHAEL GAMBINO, CRESENT GROUP
PO BOX 10177
BEDFORD, NH 03110

MAP U5 LOT 13
127,976 Sq.Ft.
2.938 Ac.±

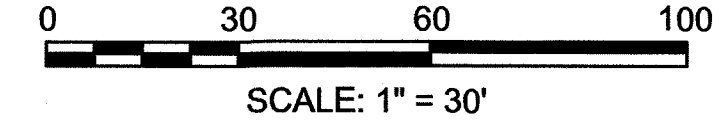
CONTRACTOR TO INSTALL TEMPORARY SITE CONSTRUCTION FENCING AROUND PERIMETER OF SITE PRIOR TO CONSTRUCTION & ADJUST LOCATION AS DIRECTED

MAP U5 LOT 14
N/F TIC REALTY, LLC
PO BOX
EPSOM, NH 03234
BOOK 3171 PAGE 1853

PROP. APPROX. PERMANENT WETLAND IMPACT = 36,850 SF± PFOI/PSSIE

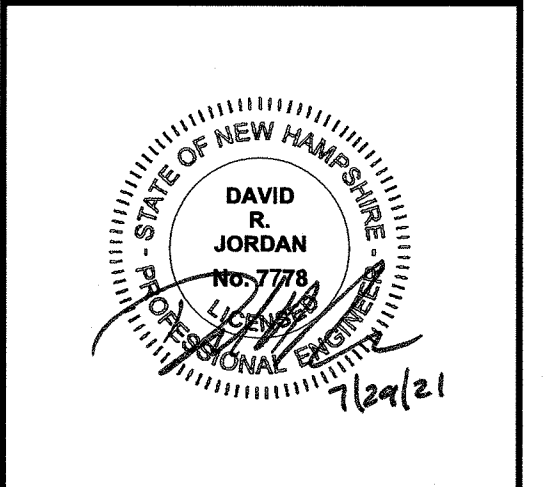
PROP. APPROX. TEMPORARY WETLAND IMPACT = 1,750 SF± PFOI/PSSIE

OWNER OF RECORD:
AOUDE, INC.
25 ESTHER DRIVE
BEDFORD, NH 03110
BOOK 3489 PAGE 641



PREPARED FOR
GRANITE STATE CONVENIENCE, LLC
25 SPRINGER ROAD
HOOKSETT, NH 03106

PROPOSED RETAIL MOTOR FUEL OUTLET
 ASSESSORS MAP U5 LOT 13
 910 SUNCOOK VALLEY HWY
 EPSOM, NEW HAMPSHIRE



REVISIONS		
NO.	REV. PER TOWN COMMENTS	DATE
1		7/30/21
JUNE 18, 2021		
DRAWN/DESIGN BY		CHECKED BY
JD/NID		FCM

EROSION & SEDIMENTATION CONTROL PLAN

SCALE: 1"=30'

PROJECT NO. NEX-2020033

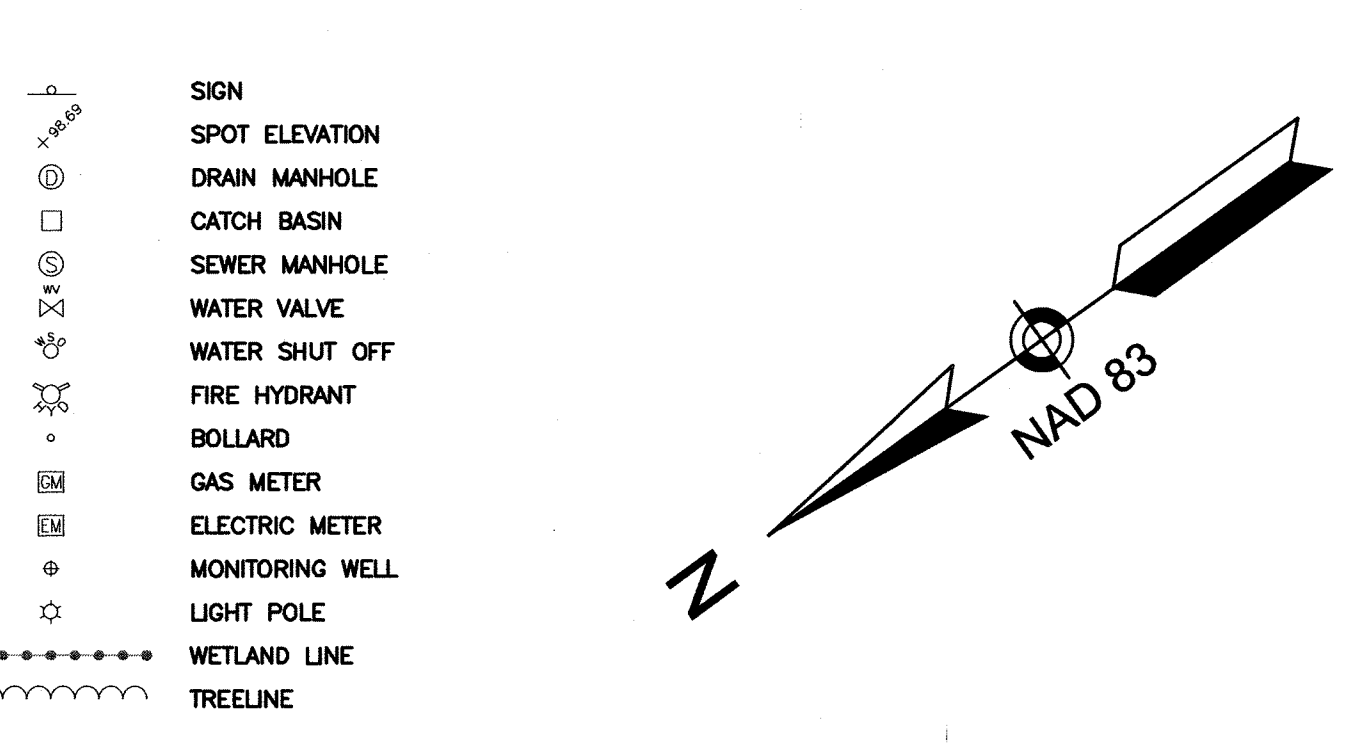
7 OF 15



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LEGEND

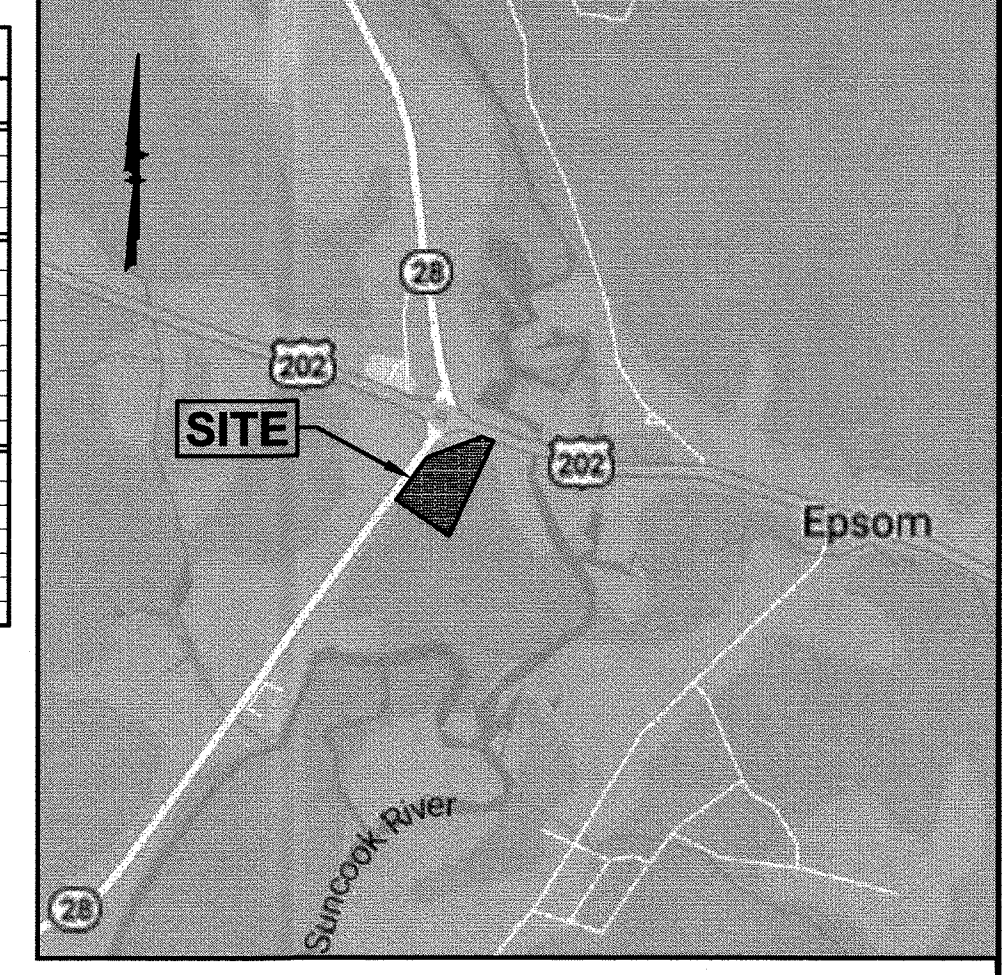
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GW	GUY WIRE	27	WETLAND LINE
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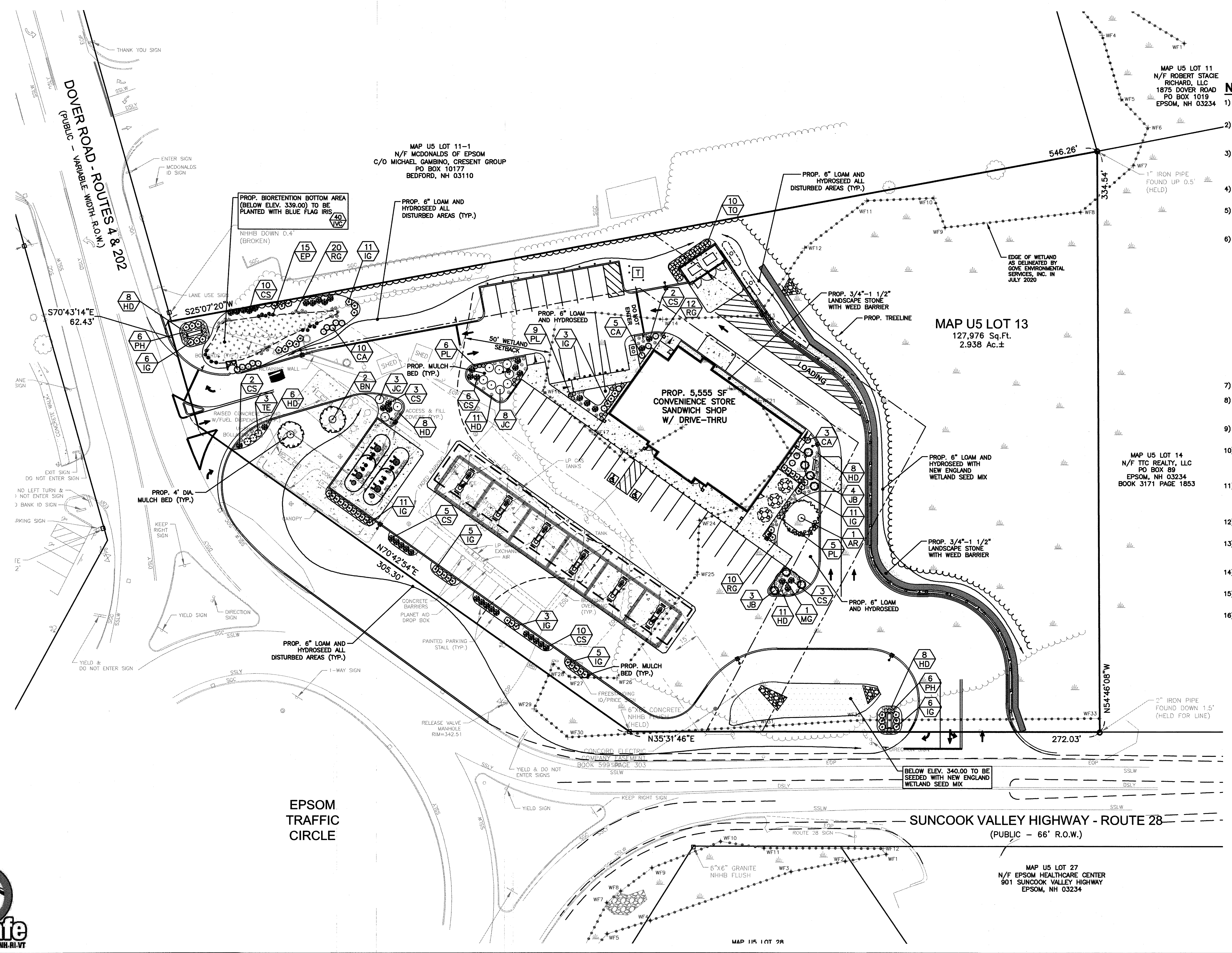
PLANTING SCHEDULE

PLANT	QNTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALL SIZE	MATURE SIZE/REMARKS
TREES					
AR	1	ACER RUBRUM 'KARPIK'	KARPIK RED MAPLE	2 1/2" - 3" CAL.	-/SHADE-NARROW-STREET
BN	2	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	8" - 10" HT.	-/SHADE-MULTI-STEM
MG	1	MALUS 'SPRING SNOW'	SPRING SNOW CRABAPPLE	2" - 2 1/2" CAL.	20' HT. MAX./WHITE FLOWERS-AVOID FRUIT
SHRUBS					
CA	18	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	18"-24" HT. 3 GAL.	3'-4' HT. MAX./WHITE FLOWERS
CS	44	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC REDTWIG DOGWOOD	3 GAL 18"-24" HT.	3'-4' HT. MAX./RED TWIG/COMPACT FORM
IG	61	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY	2"-2 1/2" HT.	5' HT. MAX./BERRIES
JC	11	JUNIPERUS CHINENSIS 'SARGENTII'	SARGENT JUNIPER	18"-24" SPR.	2' HT. MAX./BLUE GREEN
JB	7	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	BAR HARBOR JUNIPER	18"-24" SPR.	1' HT. MAX./GROUNDCOVER/BLUE GREEN-SALT TOLERANT
TE	3	TAXUS X MEDIA 'EVER-LOW'	EVER-LOW YEW	18"-24" HT.	1'-2' HT. MAX./SPREADING
TO	10	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	6"-8" HT.	3'-4' SPR. MAX./TIGHT COLUMNAR
PERENNIALS & GRASSES					
EC	15	ECHINACEA 'PURPUREA'	PURPLE CONEFLOWER	1 GAL.	PNK-PURPLE DAISSY-LIKE FLOWERS
HD	60	HEMEROCALLIS 'STELLA DE ORO'	DWARF YELLOW DAYLILY	1 GAL.	YELLOW FLOWERS/CONTINUOUS BLOOMS
RG	42	RUDBECKIA 'GOLDSTURM'	GOLDSTURM BLACK-EYED SUSAN	1 GAL.	GOLDEN YELLOW FLOWERS WITH BROWN CENTER
PL	20	PENNISETUM ALOPERCURIROIDES 'LITTLE BUNNY'	LITTLE BUNNY FOUNTAIN GRASS	1 GAL.	A COMPACT FOUNTAIN GRASS WITH BUFF COLORED BLOOMS
PH	12	PENNISETUM ALOPERCURIROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	1 GAL.	A COMPACT FOUNTAIN GRASS WITH BUFF COLORED BLOOMS
IVC	40	IRIS VERSI COLOR	BLUE FLAG IRIS (PURPLE-JULY)	1 GAL.	BUFF COLORED PLUMES WITH GOLDEN FOLIAGE IN FALL

1 XX PLANT QUANTITY
 3/4"-1 1/2" LANDSCAPE STONE
 NEW ENGLAND WETLAND SEED MIX



LOCATION MAP (NOT TO SCALE)

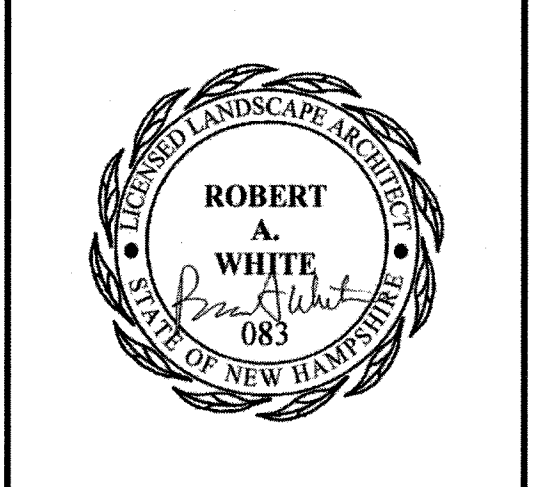


- ### NOTES:
- ALL PLANT STOCK SHALL CONFORM TO ANSI Z260.1 - NURSERY STOCK, LATEST EDITION (AMERICAN ASSOCIATION OF NURSERYMEN, INC.).
 - 4" AGED PINEBARK MULCH AND A WEED BARRIER (TY-PAR FABRIC OR APPROVED EQUAL) SHALL BE APPLIED TO ALL SHRUB AND GROUNDCOVER BEDS. INSTALL WEED BARRIER AS PER MANUFACTURERS RECOMMENDATIONS.
 - PLANT PIT BACKFILL SHALL BE MIXED AT A RATE OF 7 PARTS OF TOPSOIL TO 2 PART OF DEHYDRATED COW MANURE. SLOW RELEASE FERTILIZER SHALL BE APPLIED AS PER MANUFACTURERS RECOMMENDATIONS. USE EXISTING ON-SITE TOPSOIL AS PART OF BACKFILL WHEN AVAILABLE.
 - ALL LANDSCAPED AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUNDCOVER SHALL BE RESTORED WITH SEED OR SOD AS INDICATED ON PLANS.
 - ALL SOD, SEED, SHRUB AND TREE AREAS SHALL RECEIVE 6" PH CORRECTED TOPSOIL. AFTER TOPSOIL IS SPREAD EVENLY OVER ENTIRE AREA, ALL CLODS, LUMPS, STONES AND OTHER DELETERIOUS MATERIAL SHALL BE RAKED UP AND REMOVED.
 - APPLICATION OF GRASS SEED, FERTILIZERS AND MULCH SHALL BE ACCOMPISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE RATES OUTLINED BELOW:
 LIMESTONE: 100 LBS./1,000 SQUARE FEET.
 FERTILIZER: 500 LBS./ACRE OF 10-20-20 OR 1000 LBS./ACRE OF 5-10-10.
 MULCH: HAY MULCH APPROXIMATELY 3 TONS/ACRE
SEED MIX (SLOPES LESS THAN 4:1)
 CREEPING RED FESCUE 20
 TALL FESCUE 15
 PERENNIAL RYEGRASS 5
 REDTOP 42
SLOPE MIX (SLOPES GREATER THAN 4:1)
 CREEPING RED FESCUE 20
 TALL FESCUE 20
 BIRDSFOOT TREFOIL 8
 48
 - FOR TEMPORARY EROSION CONTROL NOTES, SEE DETAIL SHEET.
 - NEWLY GRADED AREAS REQUIRING SLOPE PROTECTION OUTSIDE OF NORMAL SEEDING SEASON SHALL RECEIVE STRIP MULCH AT THE APPROXIMATE RATE OF NO MORE THAN 3 TONS PER ACRE.
 - ANY CHANGES IN PLANT LOCATIONS OR TYPES SHALL BE APPROVED BY THE DEVELOPER, LANDOWNER AND TOWN PRIOR TO INSTALLATION.
 - CLEAR AND GRUB (TO LIMITS REQUIRED ON GRADING PLAN) TO REMOVE VEGETATION, TREES, ROCKS, DEBRIS, ROOTS, ETC. STUMPS SHALL BE REMOVED AND DISPOSED OF OFF SITE IN ACCORDANCE WITH STATE REGULATIONS. AFTER CLEARING, ROTOTILL, STRIP AND STOCKPILE ALL ON-SITE TOPSOIL FOR REUSE TO THE MAXIMUM EXTENT POSSIBLE.
 - FOR SEED (& SOD) AREAS USE EXISTING TOPSOIL, IF AVAILABLE, FOR A 4" DEPTH AND TOP DRESS WITH 2" OF SCREENED TOPSOIL, UNLESS OTHERWISE NOTED ON PLAN. ALL LOAM OR TOPSOIL IMPORTED OR RE-UTILIZED FROM ON SITE SHALL BE TESTED AND AMENDED AS DIRECTED BY DEVELOPER TO MEET MINIMUM REQUIREMENTS.
 - PLANTINGS SHALL BE GUARANTEED BY THE CONTRACTOR FOR ONE YEAR AFTER WRITTEN ACCEPTANCE OF THE DEVELOPER.
 - SLOPES GREATER THAN 3:1 SHALL RECEIVE JUTE MESH OR WOOD EXCELSIOR MATTING NO MORE THAN 24 HOURS AFTER SEEDING. MATTING SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
 - EXPOSED SOILS SHALL BE SEEDED OR HAY MULCHED WITHIN 72 HOURS OF FINAL GRADING.
 - ALL WORK SHALL BE COORDINATED WITH APPLICABLE EPA NPDES/SWPPP PERMIT WORK AS REQUIRED.
 - THE CONTRACTOR SHALL INSTALL AN IRRIGATION SYSTEM TO PROVIDE COMPLETE COVERAGE OF ALL SEED AREAS AND SHRUB BEDS WITHIN THE LEASE AREA. THE SYSTEM SHALL INCLUDE A TIMER AND SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES.

GPI Engineering Design Planning Construction Management
 603.835.0720 GPINET.COM
 Greenman-Pedersen, Inc.
 44 Siles Road, Suite One
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PREPARED FOR
 GRANITE STATE CONVENIENCE, LLC
 25 SPRINGER ROAD
 HOOKSETT, NH 03106

**PROPOSED RETAIL MOTOR FUEL OUTLET
 ASSESSORS MAP US LOT 13
 910 SUNCOOK VALLEY HWY
 EPSOM, NEW HAMPSHIRE**



REVISIONS

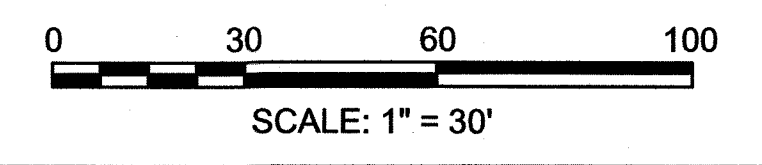
NO.	REV. PER TOWN COMMENTS	DATE
1	REV. PER TOWN COMMENTS	7/30/21

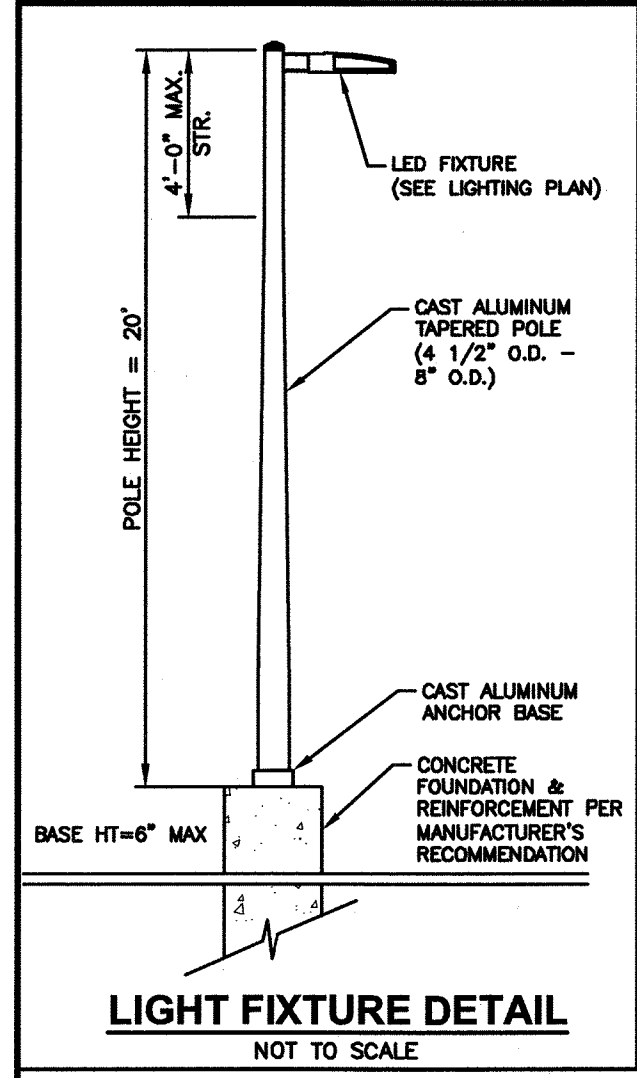
JUNE 18, 2021
 DRAWN/DESIGN BY: JD/NID
 CHECKED BY: FCM

LANDSCAPE PLAN

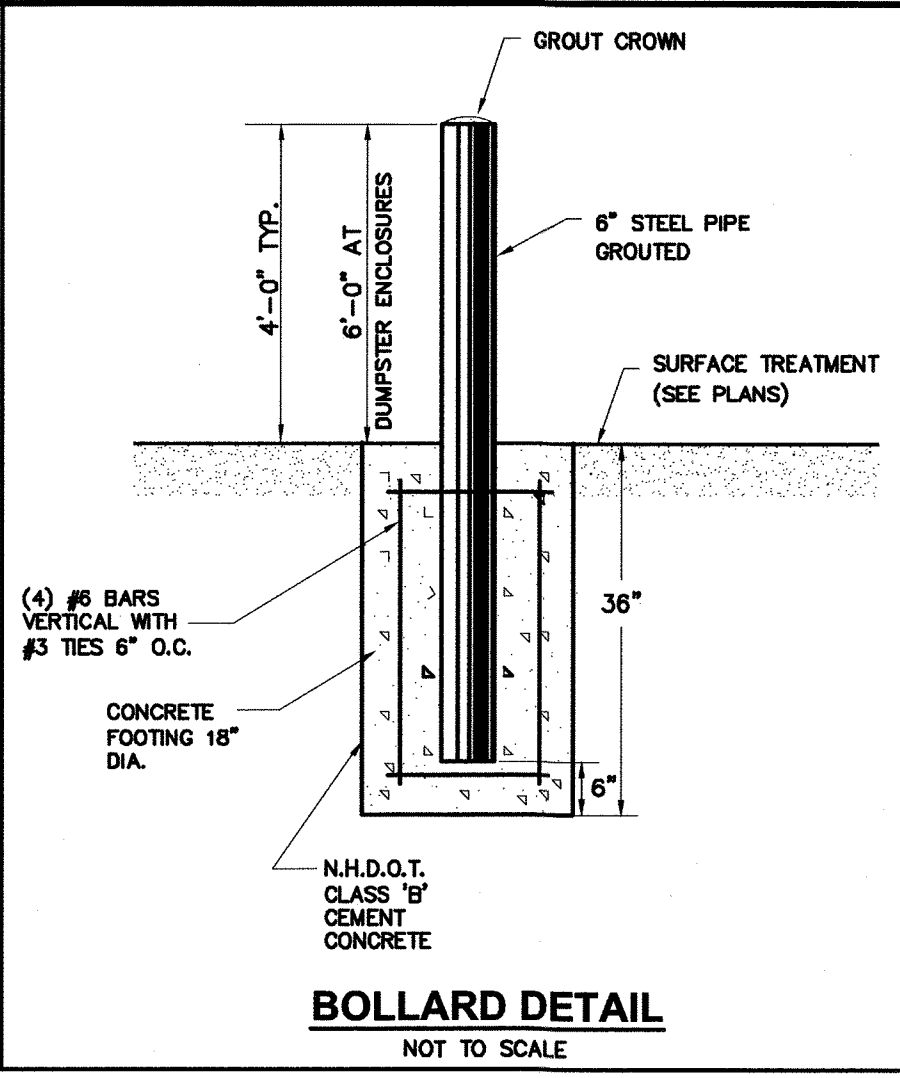
SCALE: 1"=30'
 PROJECT NO. NEX-2020033
 8 OF 15

EA:\Projects\NEX-2020033 - Epsom, NH - GSCC.CAD - Files\2020033_3P.dwg LA: 7/28/21 9:45am cca01

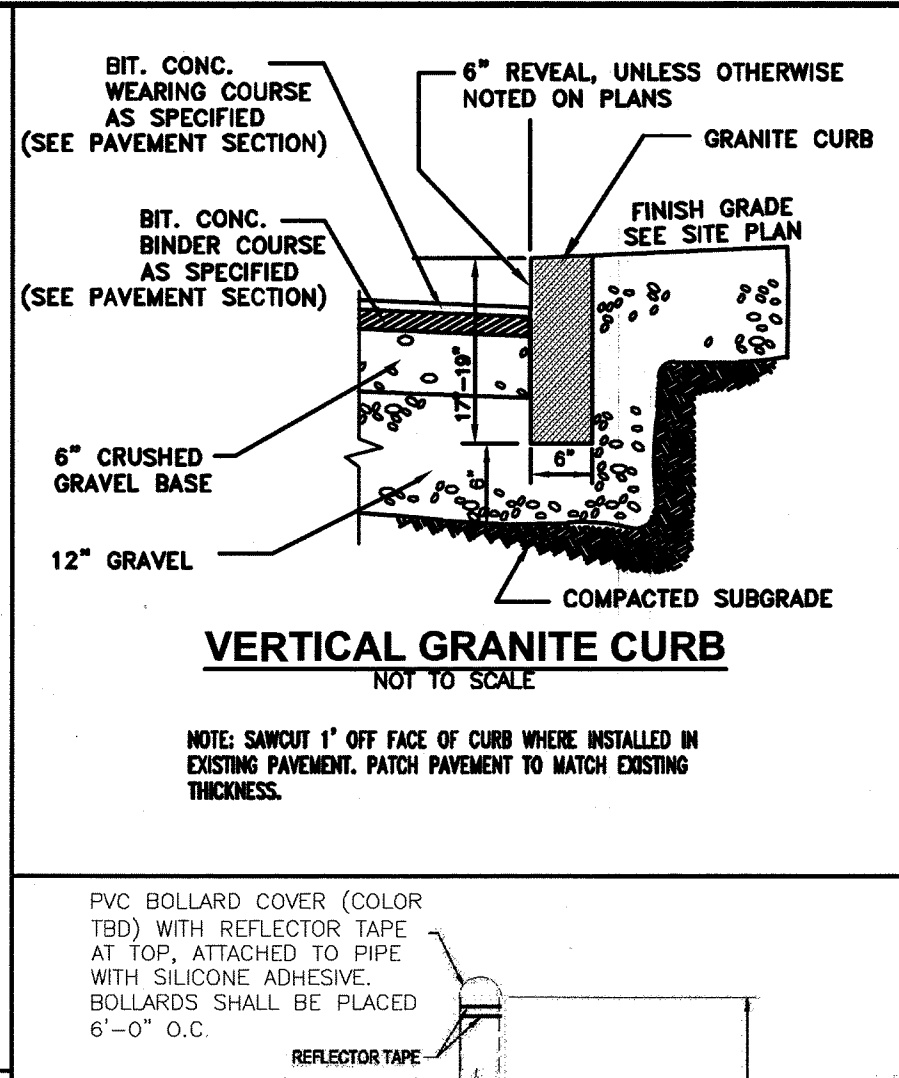




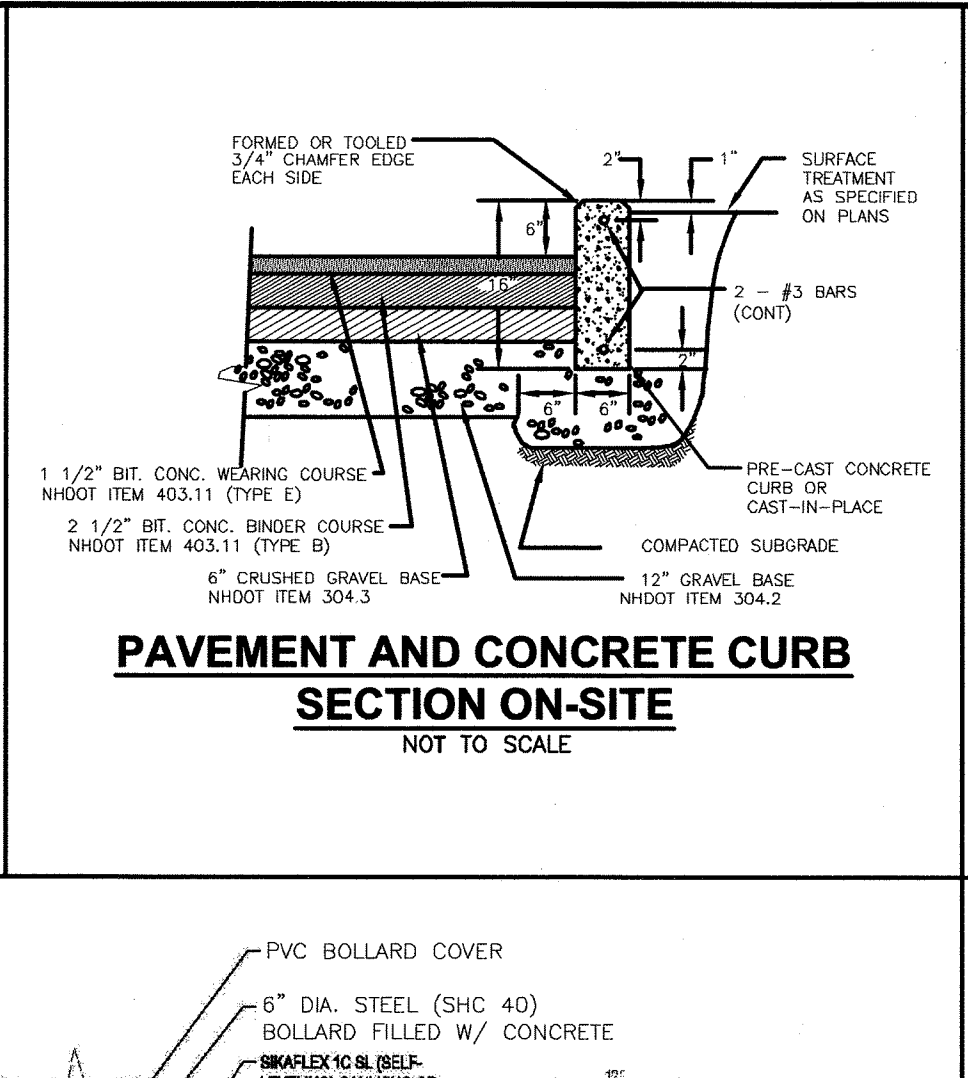
LIGHT FIXTURE DETAIL
NOT TO SCALE



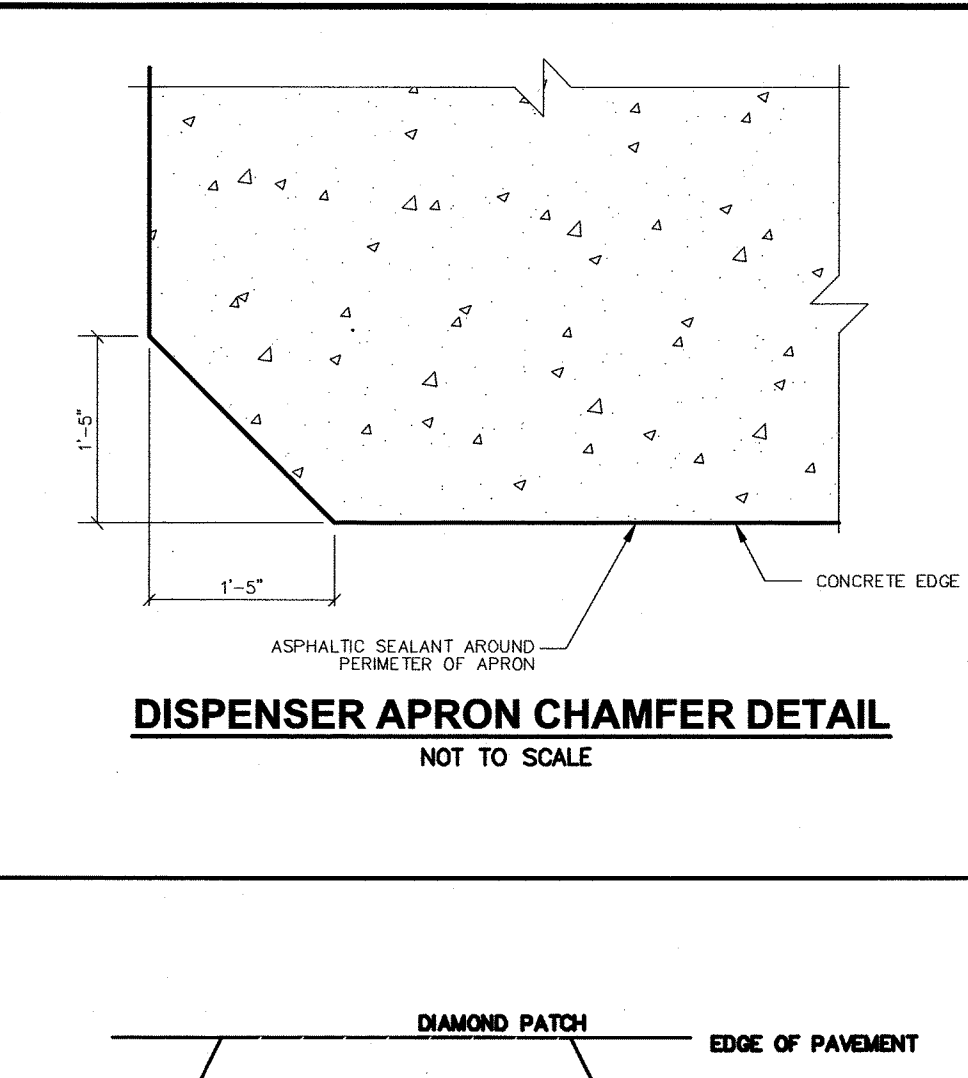
BOLLARD DETAIL
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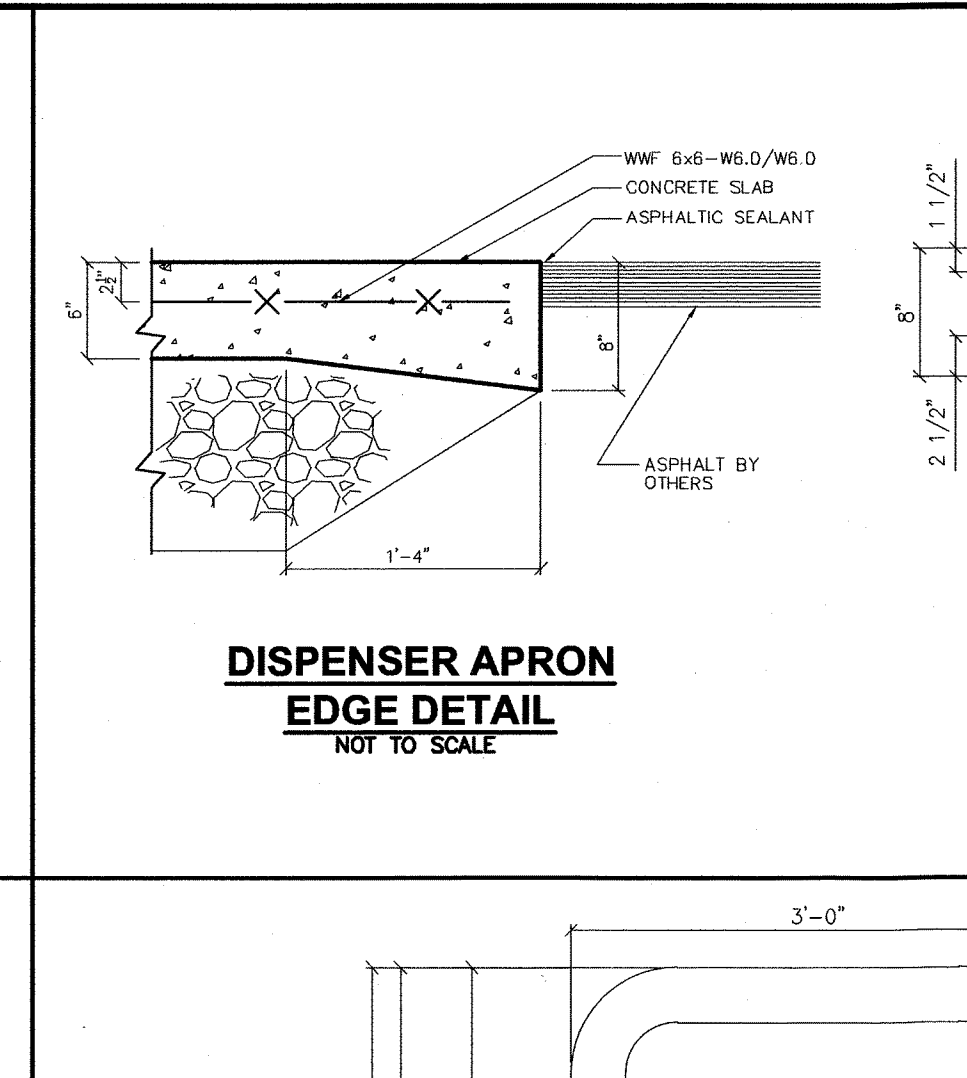
VERTICAL GRANITE CURB
NOT TO SCALE



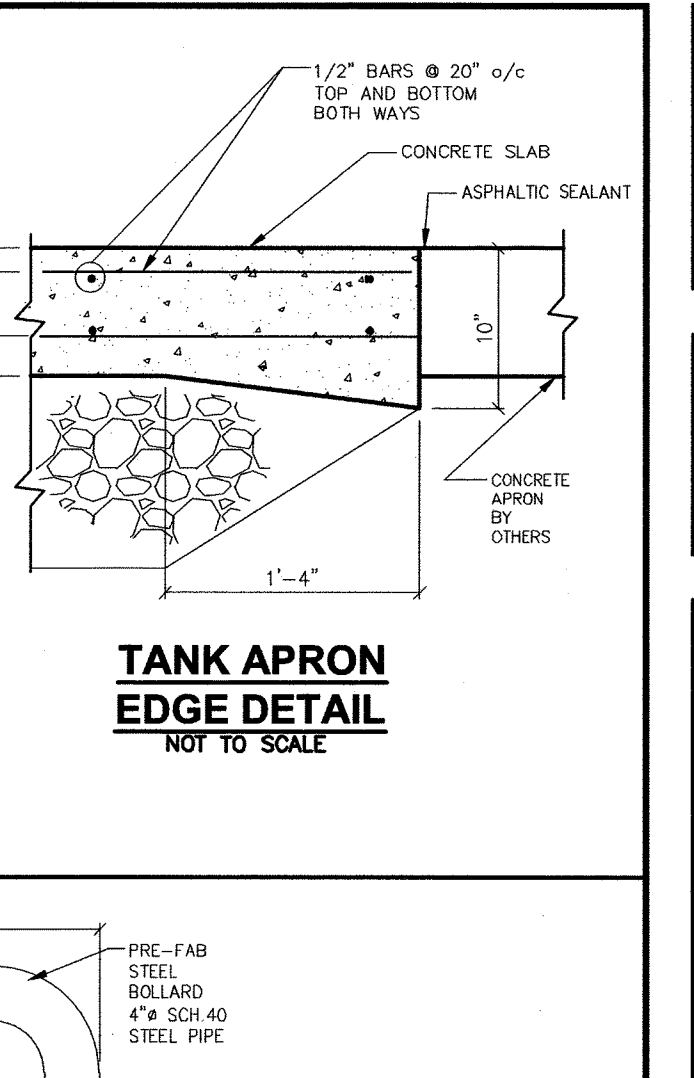
PAVEMENT AND CONCRETE CURB SECTION ON-SITE
NOT TO SCALE



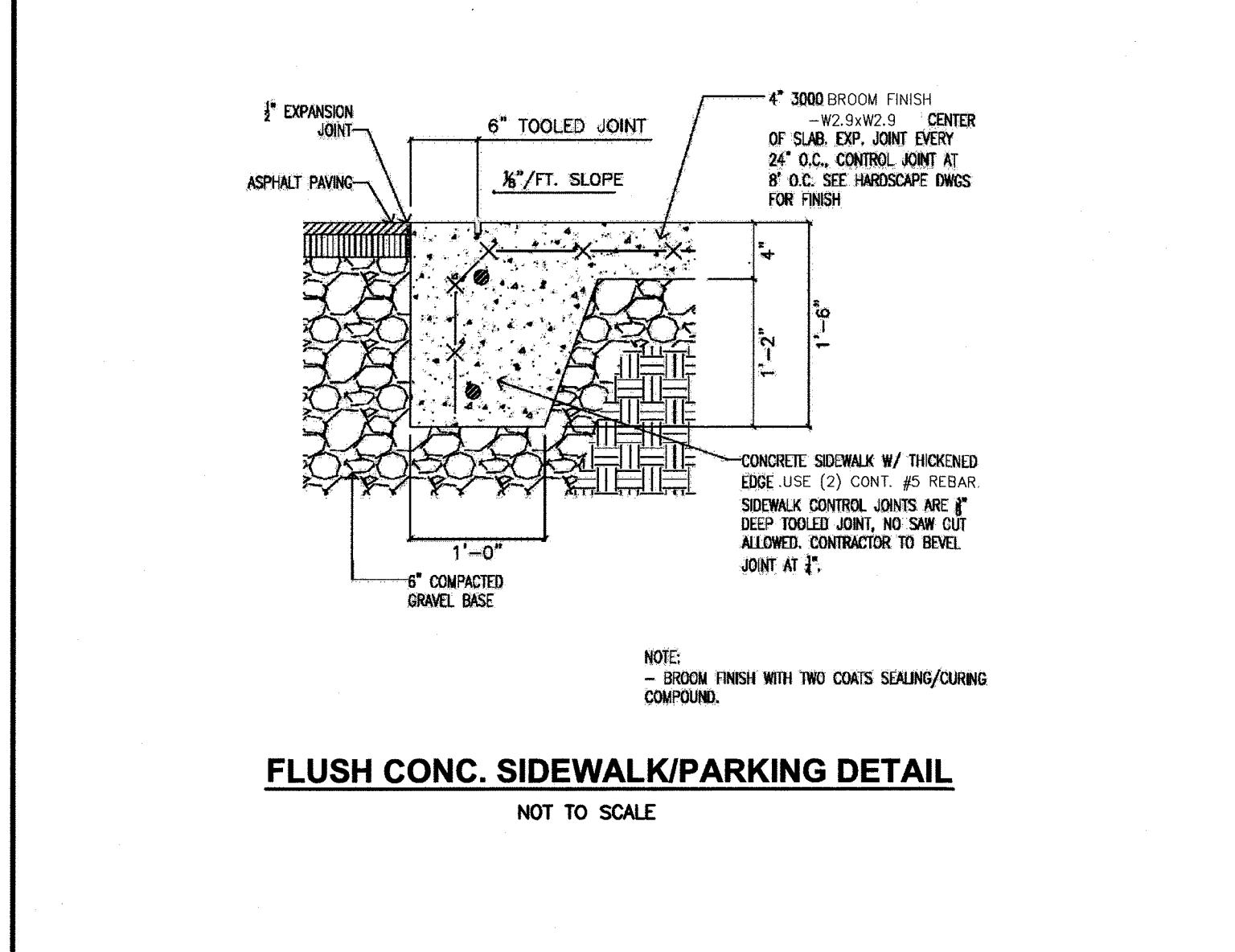
DISPENSER APRON CHAMFER DETAIL
NOT TO SCALE



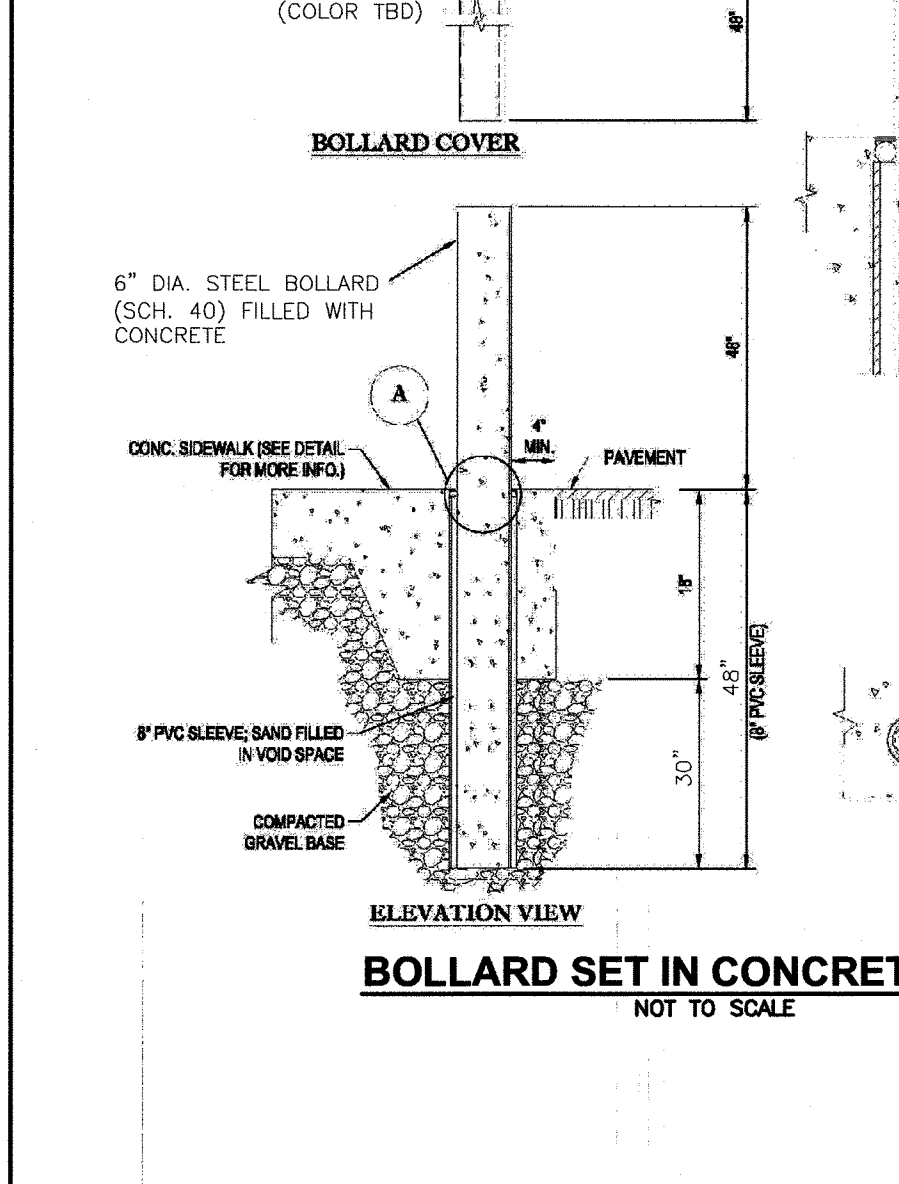
DISPENSER APRON EDGE DETAIL
NOT TO SCALE



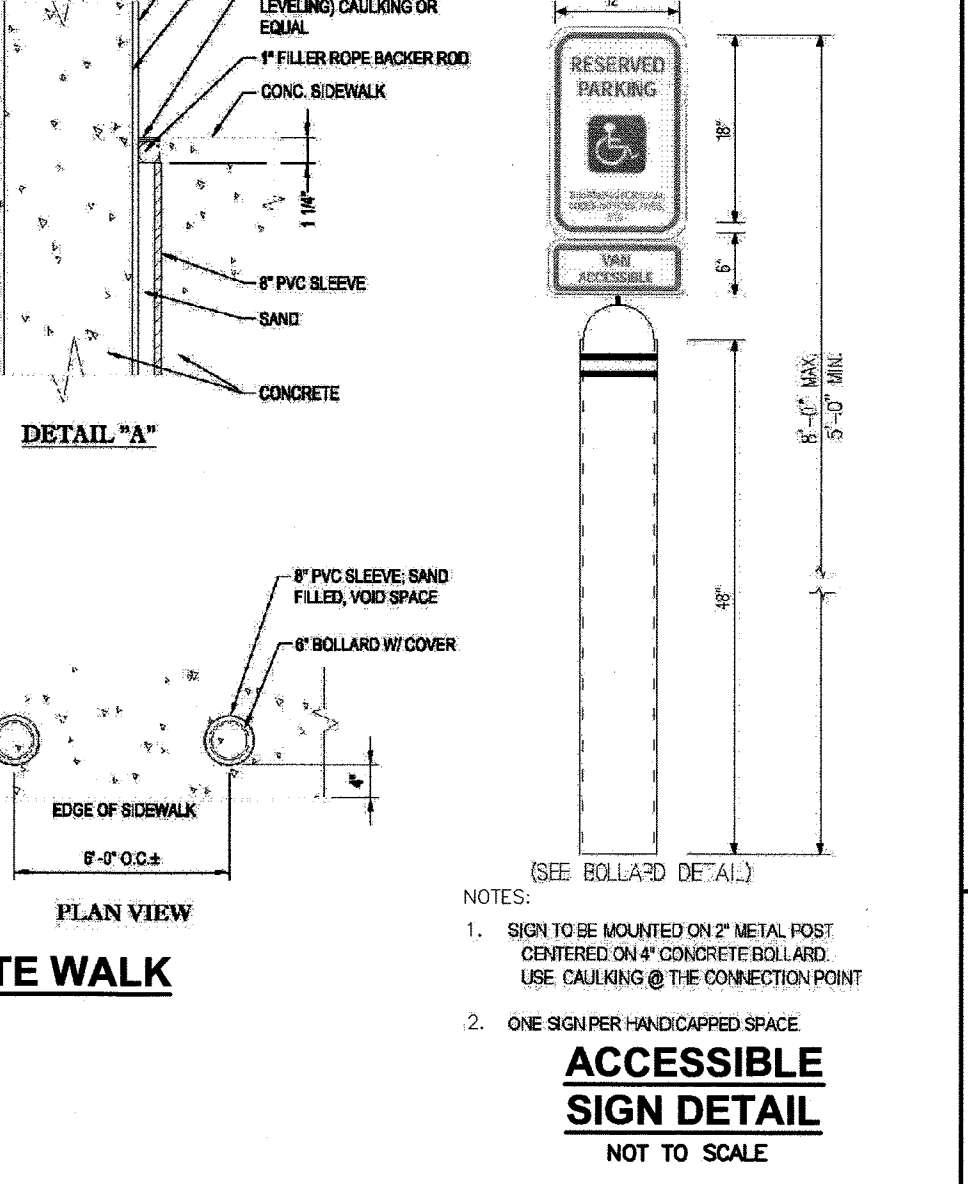
TANK APRON EDGE DETAIL
NOT TO SCALE



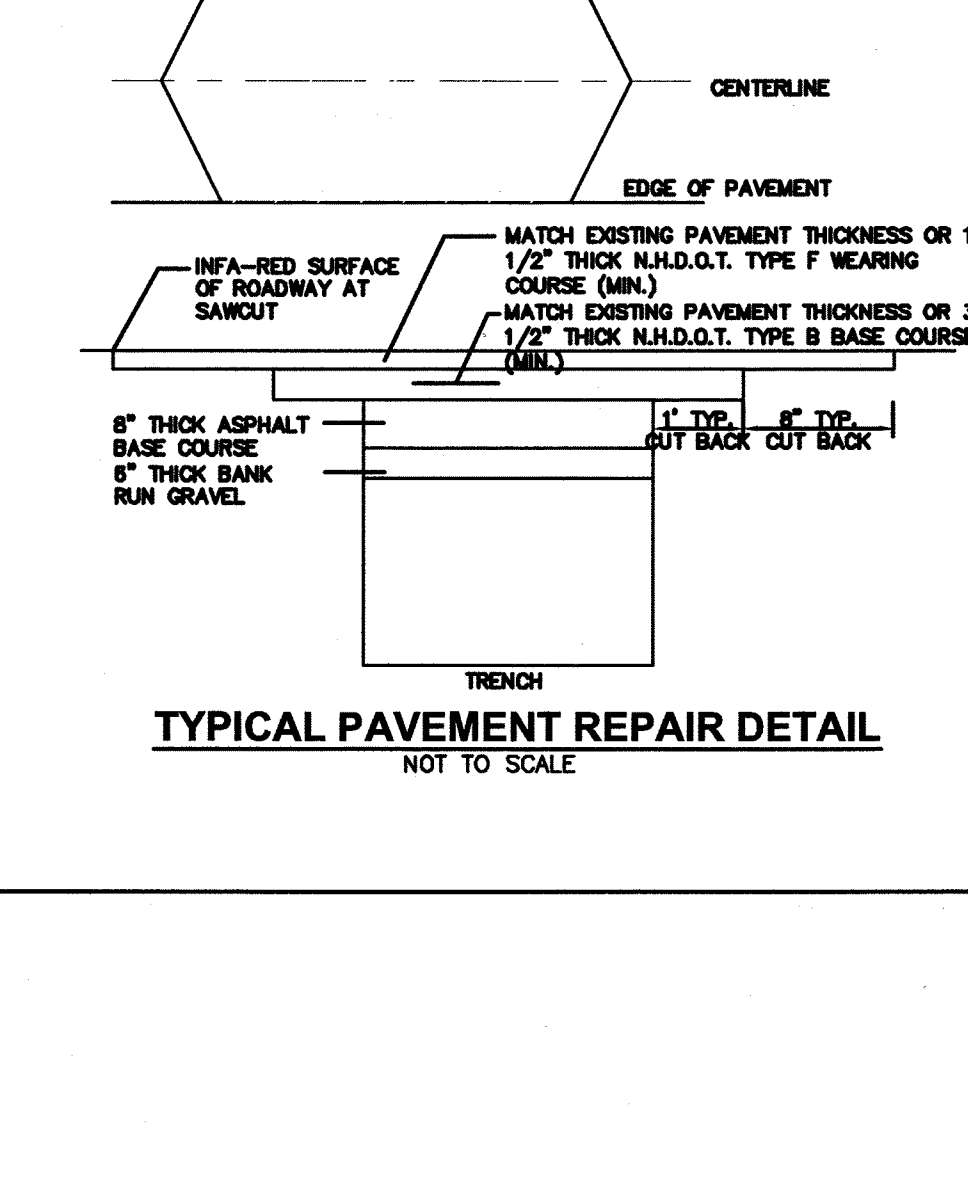
FLUSH CONC. SIDEWALK/PARKING DETAIL
NOT TO SCALE



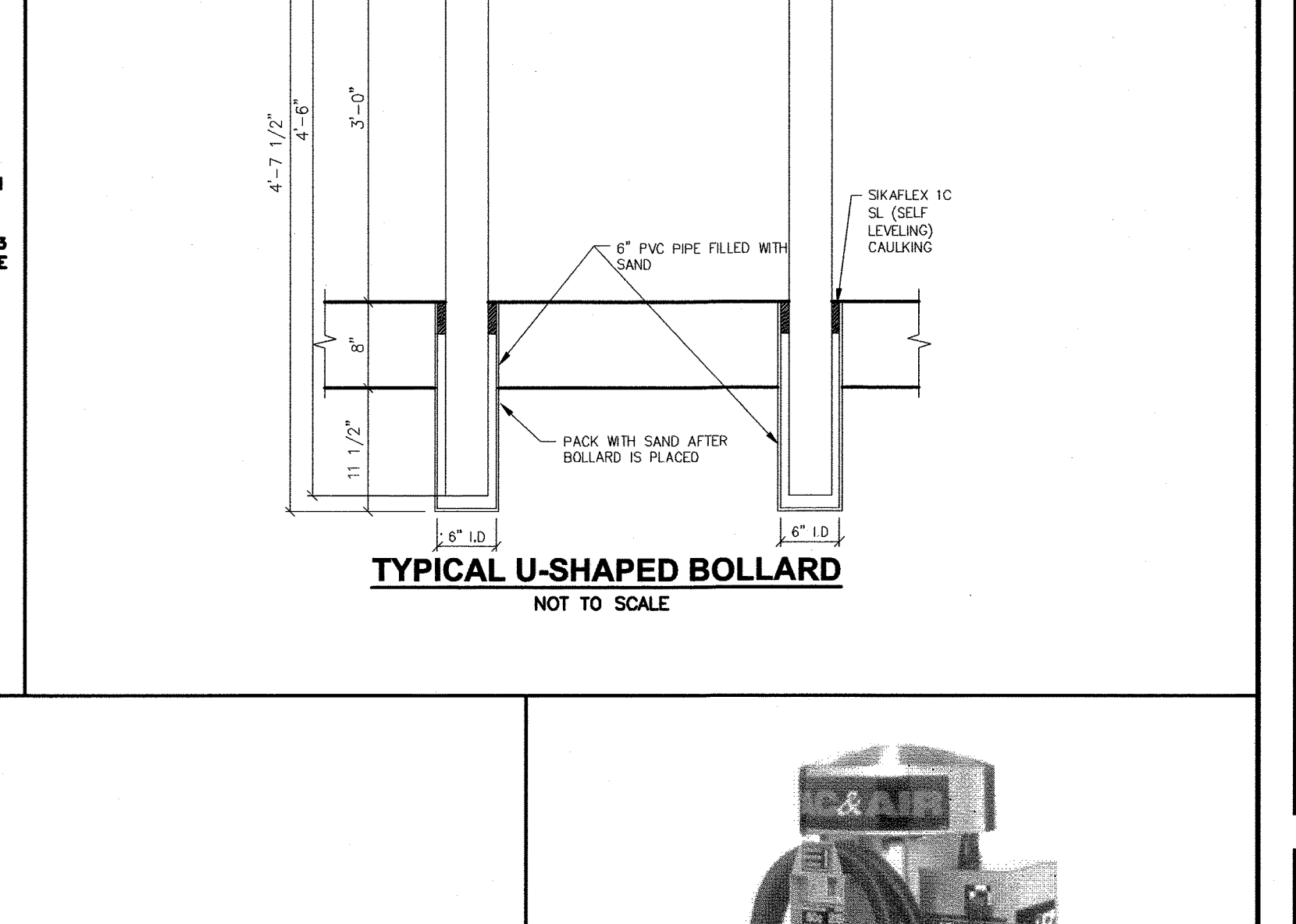
BOLLARD SET IN CONCRETE WALK
NOT TO SCALE



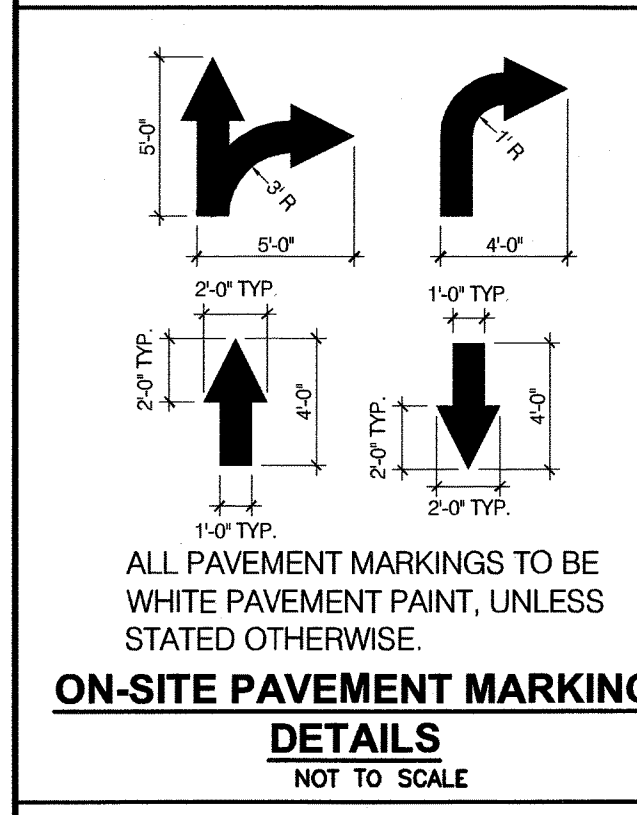
ACCESSIBLE SIGN DETAIL
NOT TO SCALE



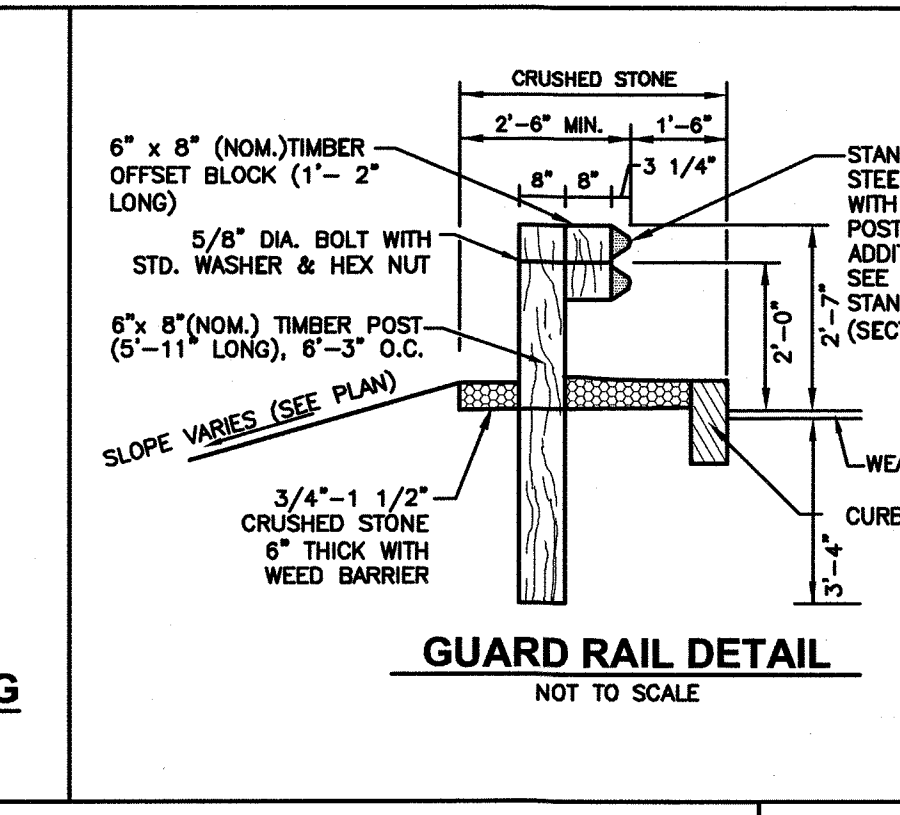
TYPICAL PAVEMENT REPAIR DETAIL
NOT TO SCALE



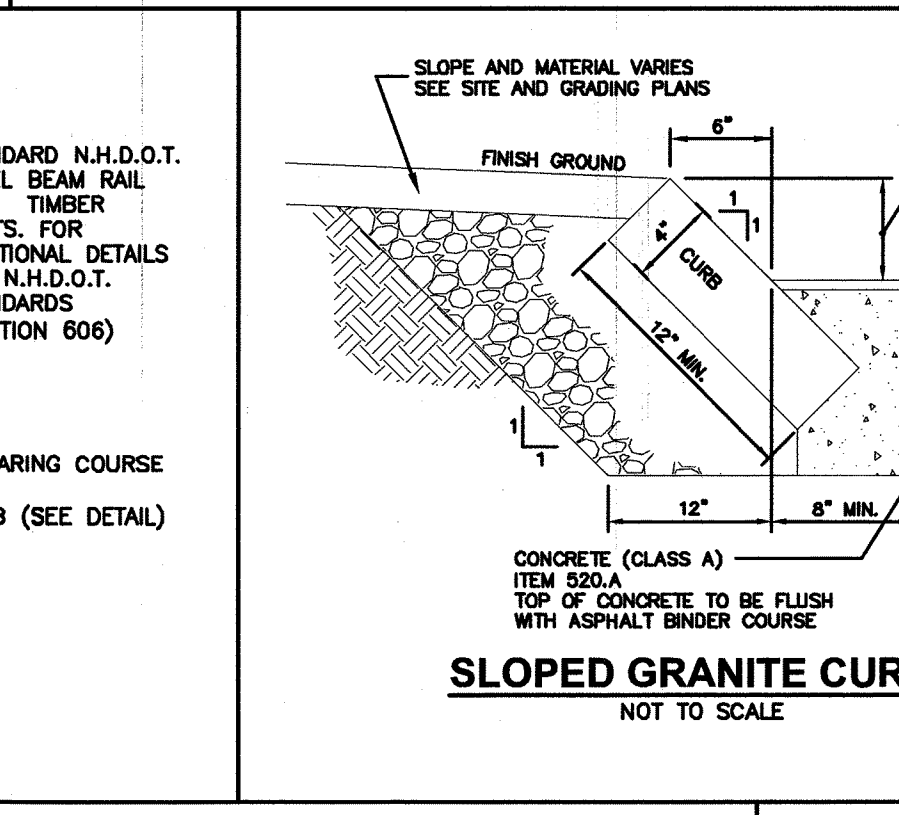
TYPICAL U-SHAPED BOLLARD
NOT TO SCALE



ON-SITE PAVEMENT MARKING DETAILS
NOT TO SCALE



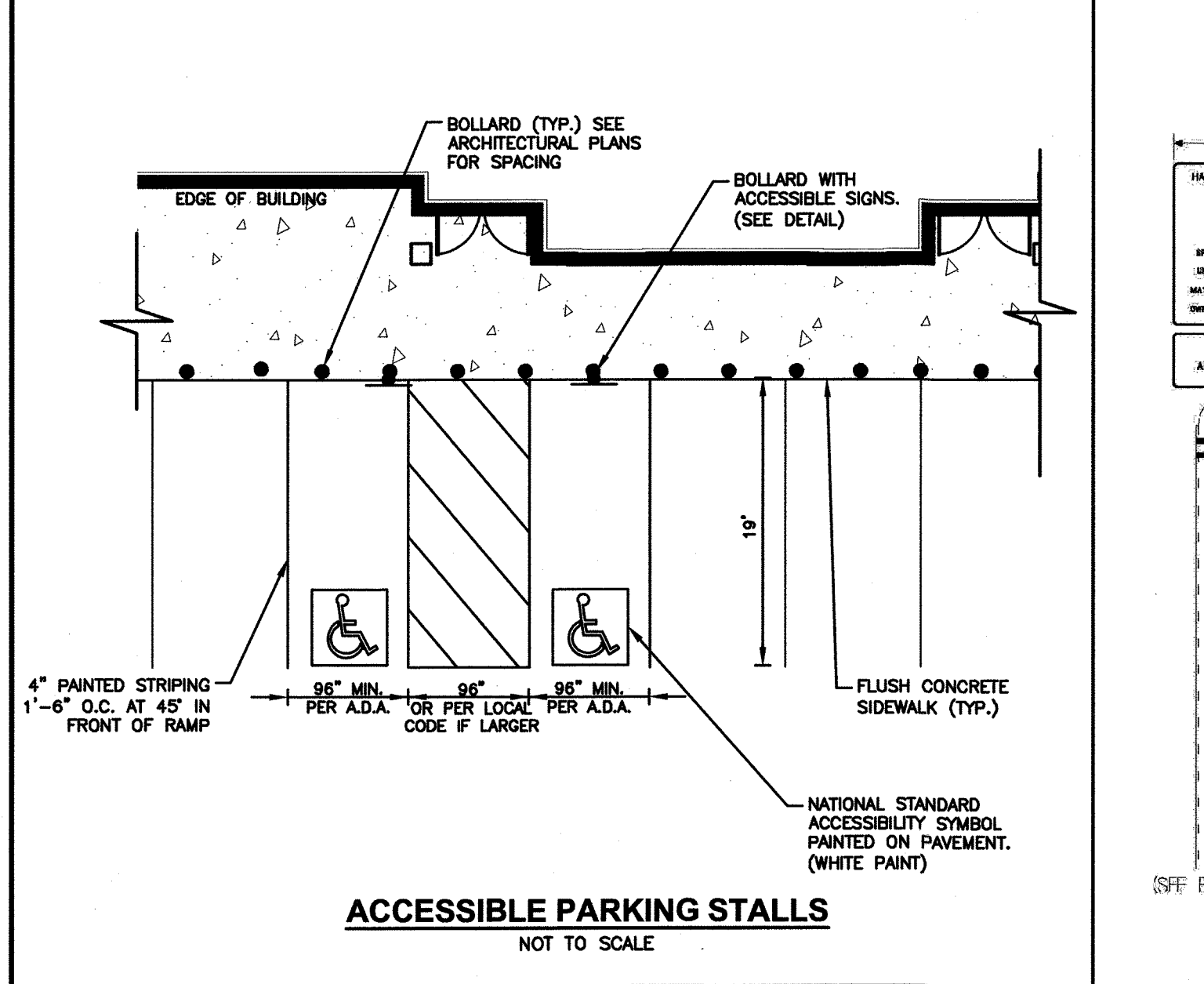
GUARD RAIL DETAIL
NOT TO SCALE



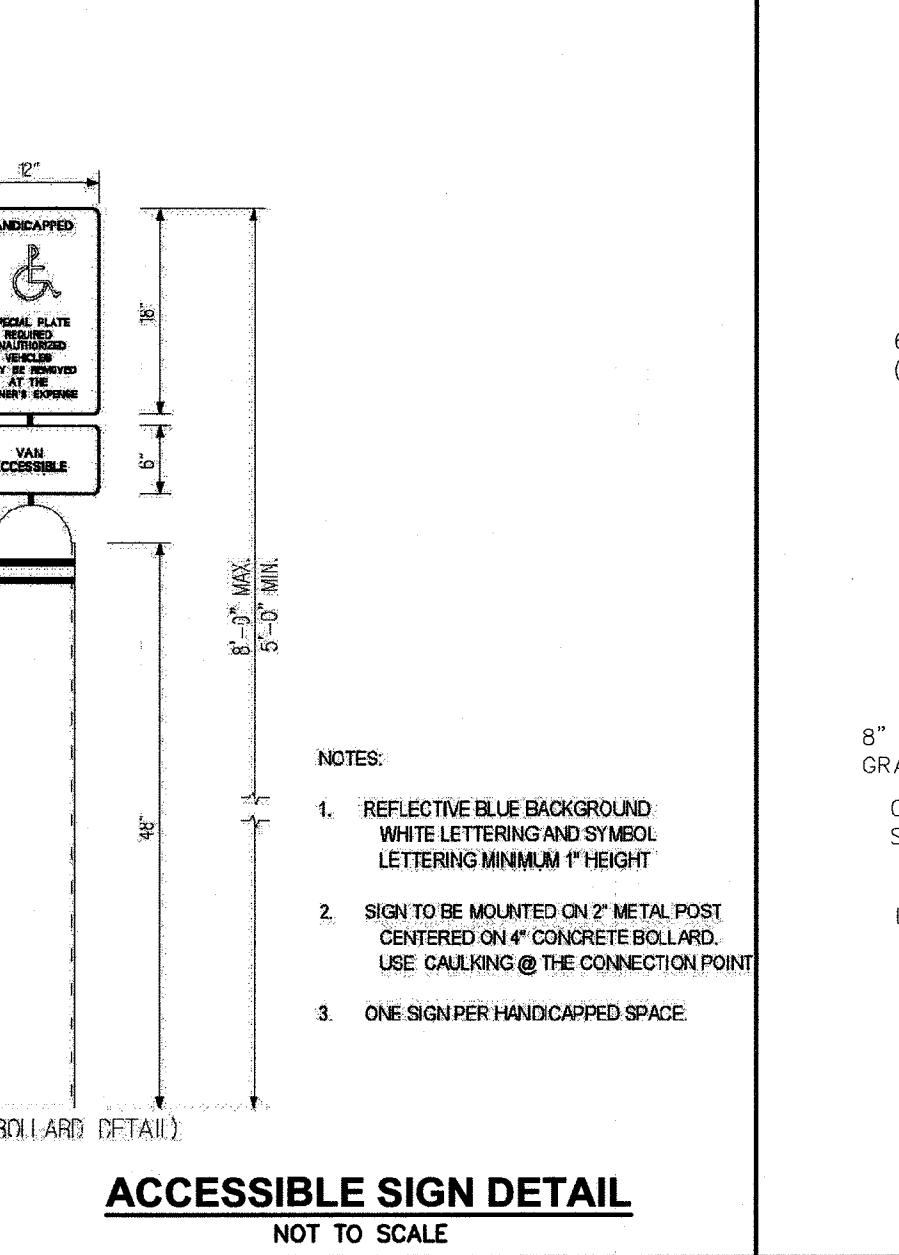
SLOPED GRANITE CURB
NOT TO SCALE

RADIUS FOR STONES WITH SQUARE JOINTS	RADIUS FOR STONES WITH RADIAL JOINTS	MAXIMUM LENGTH
16'-28'	1'-6"	18"
29'-41'	SEE CURB SECTIONS ON RADIUS DETAIL	18"
42'-55'		18"
56'-69'		18"
69'-82'		18"
83'-96'		18"
97'-110'		18"
OVER 110'		18"

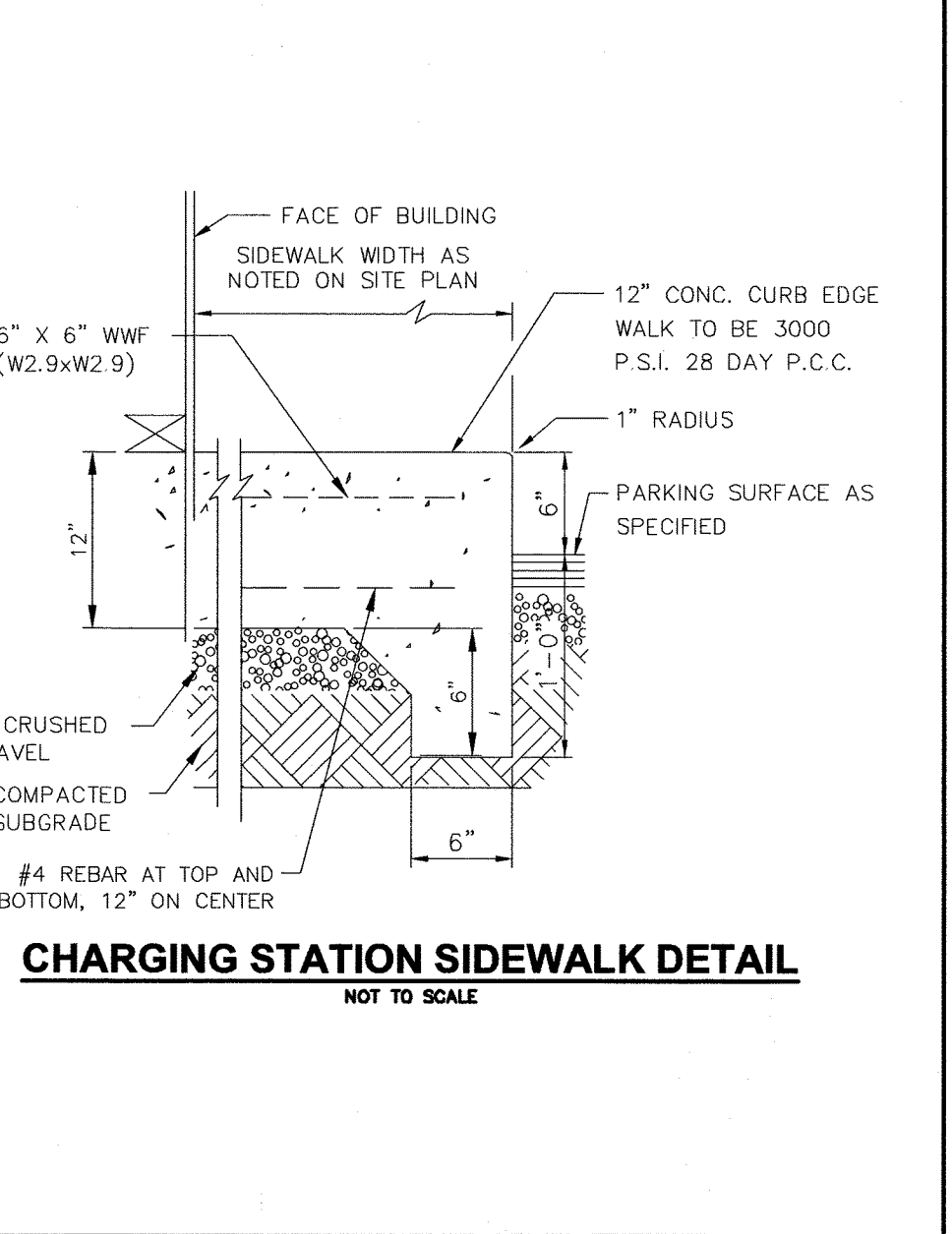
MAXIMUM LENGTH OF STRAIGHT CURB STONES - 18"
MAXIMUM LENGTH OF STRAIGHT CURB STONES - 8"
MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES SEE CHART
ADJOINING STONES OF STRAIGHT CURB LAID ON CURVES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.



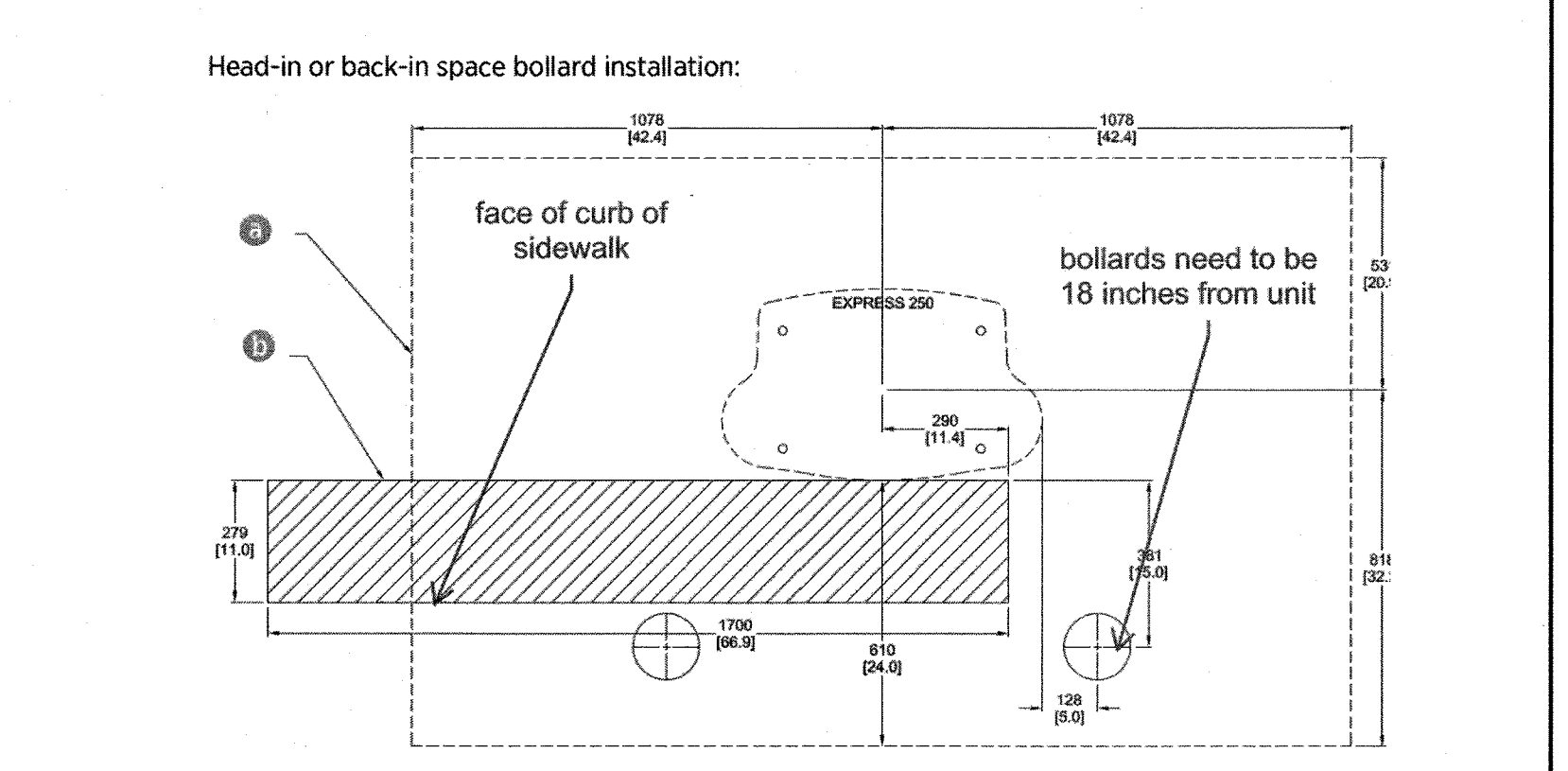
ACCESSIBLE PARKING STALLS
NOT TO SCALE



ACCESSIBLE SIGN DETAIL
NOT TO SCALE



CHARGING STATION SIDEWALK DETAIL
NOT TO SCALE

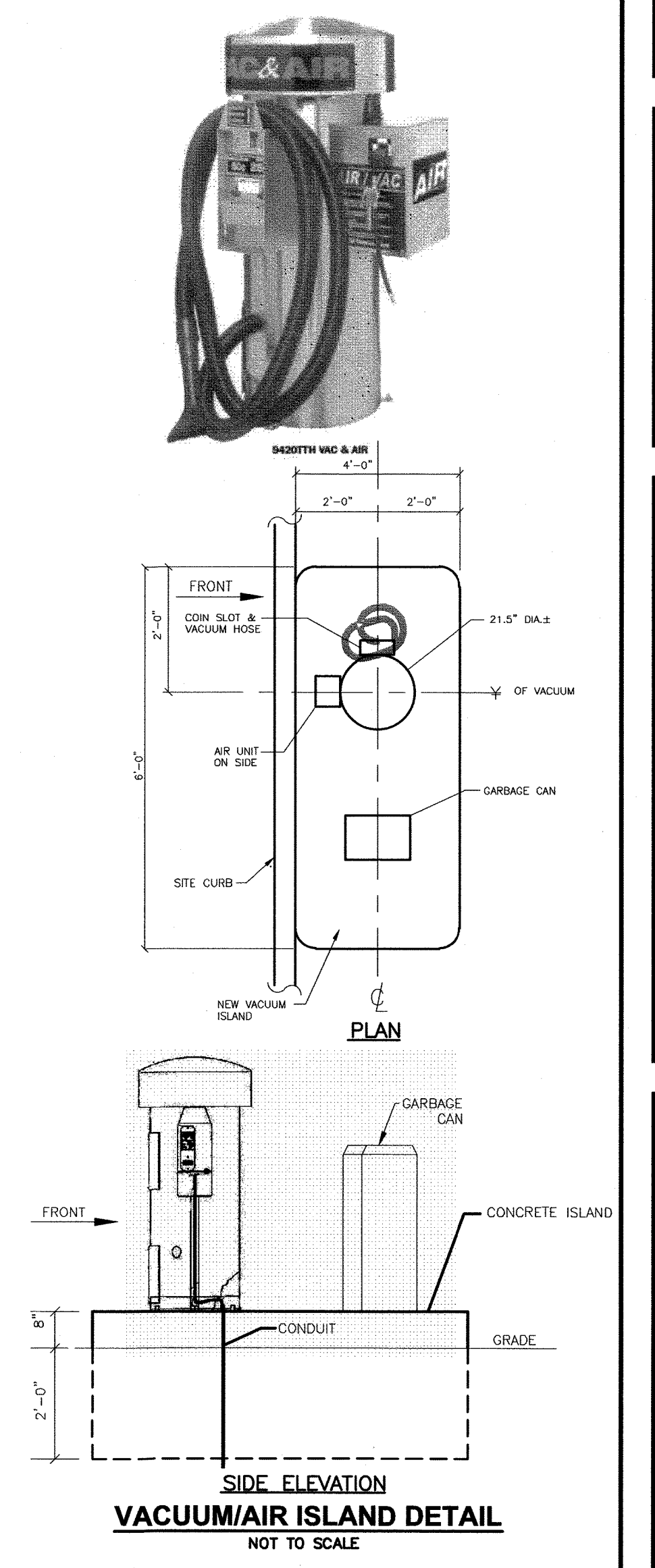


Pairing Previously Installed Charging Stations

- If all site construction for paired charging is completed in advance, Express 250 stations can be initially installed as Standalone and paired at a later date. In that case, follow these additional steps:
- During initial site construction, install DC and communication conduit or ducting (as applicable by region) in advance.
 - Extend side clearance at both DC conduit stub-up locations to 1.2 m (4 ft) to allow space for cable pulling equipment.
 - Run a pull rope through the larger DC conduit before installing the charging stations. Do not pull DC cable in advance, as it is too thick to hide inside the cover panels without risking damage or unwanted electrical contact.
 - Install a fishing tape in the smaller communication conduit to assist with routing the Ethernet cable later. If Ethernet is pulled in advance, leave 317.5 cm (125 in) of wire above grade at each end.
 - Use duct seal compound to seal the ends of the DC and communications conduit stub-ups. Seal the ends of the fishing tape to hang outside the conduit.
 - Install the cover panels and extrusions on the Express 250 stations over the stub-ups as normal.

By only connecting AC wiring (and shunt trip if applicable), each Express 250 can perform as a Standalone station until the station owner is ready to pair them. At a later time, the stations can be paired by installing DC conductors, connecting Ethernet communication, and performing a firmware update if required. Refer to the Express 250 Installation Guide for further details.

Once two Express 250s are correctly paired, operation of both stations is inhibited if Ethernet



VACUUM/AIR ISLAND DETAIL
NOT TO SCALE

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

PREPARED FOR
GRANITE STATE CONVENIENCE, LLC
25 SPRINGER ROAD
HOOKSETT, NH 03106

PROPOSED RETAIL MOTOR FUEL OUTLET
ASSESSORS MAP U5 LOT 13
910 SUNCOOK VALLEY HWY
EPSOM, NEW HAMPSHIRE

DAVID R. JORDAN
No. 7778
7/24/21

REVISIONS		
NO.	REV. PER TOWN COMMENTS	DATE
1	REV. PER TOWN COMMENTS	7/30/21

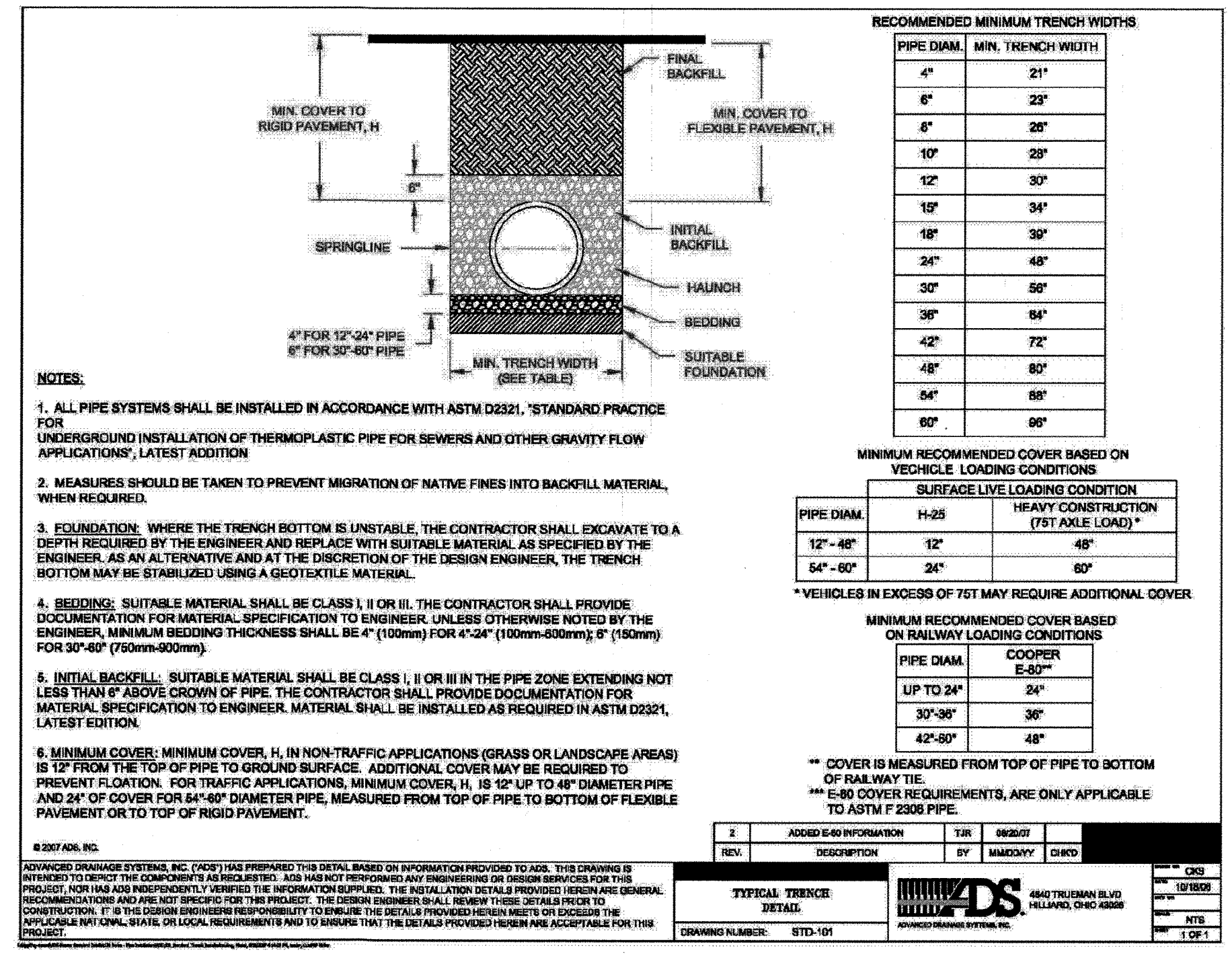
JUNE 18, 2021

DRAWN/DESIGN BY JD/NID	CHECKED BY FCM
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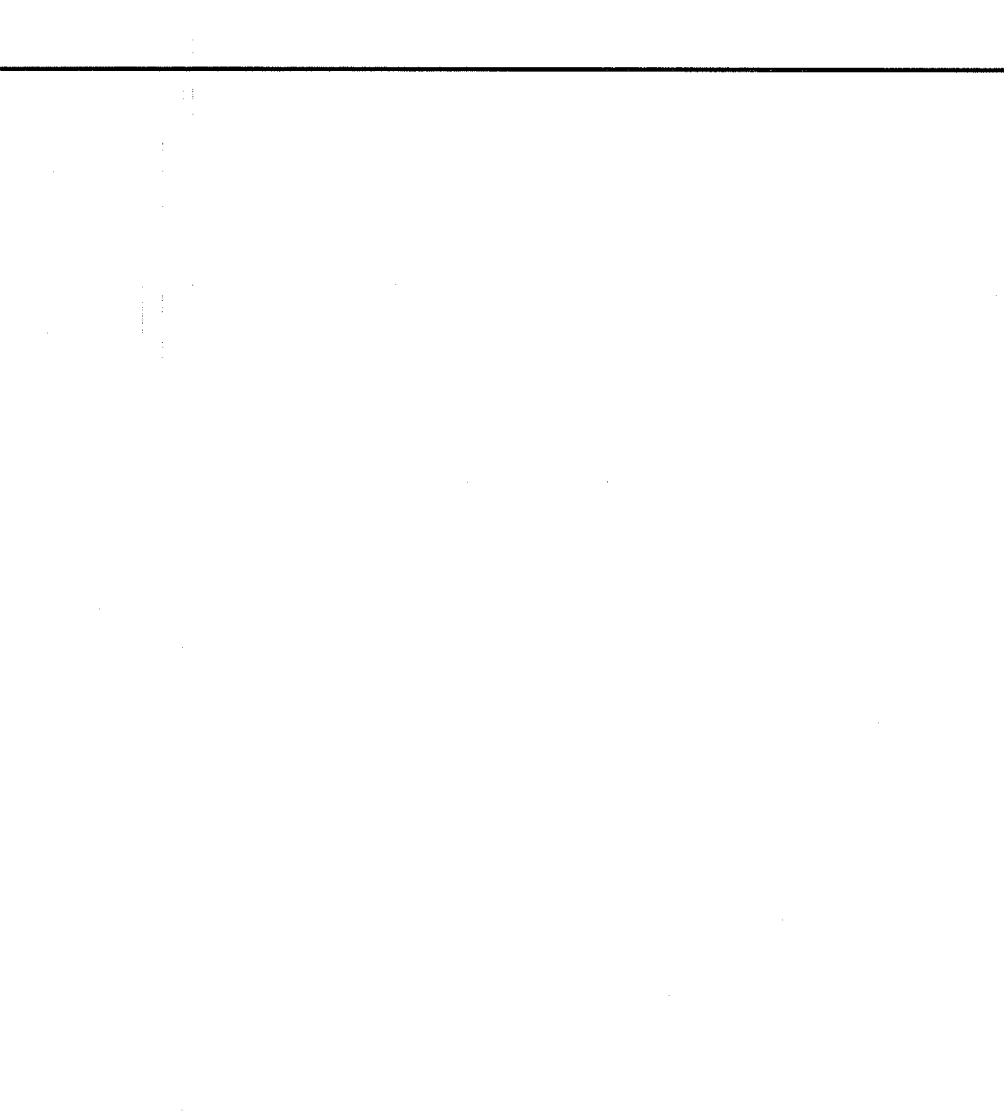
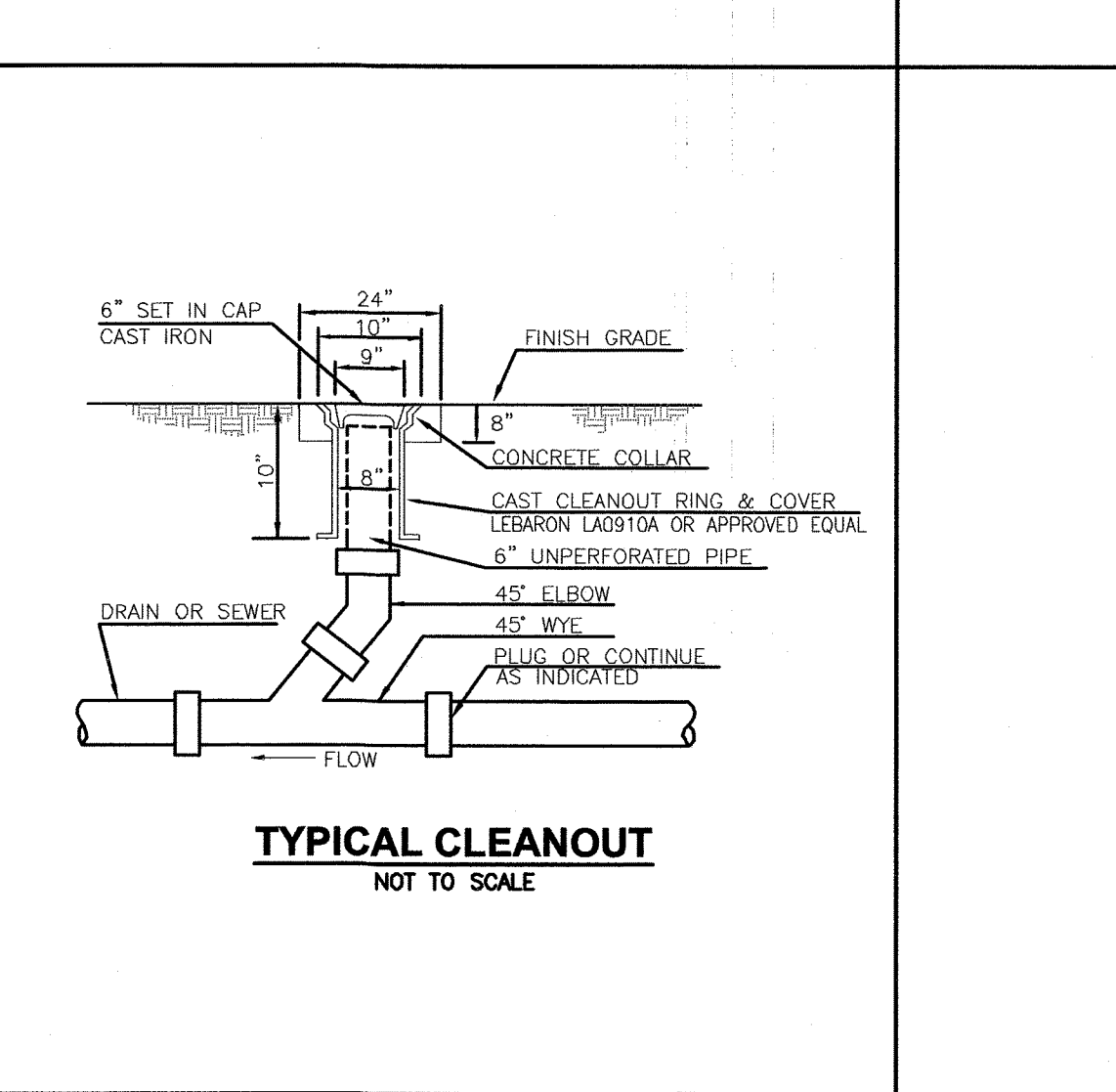
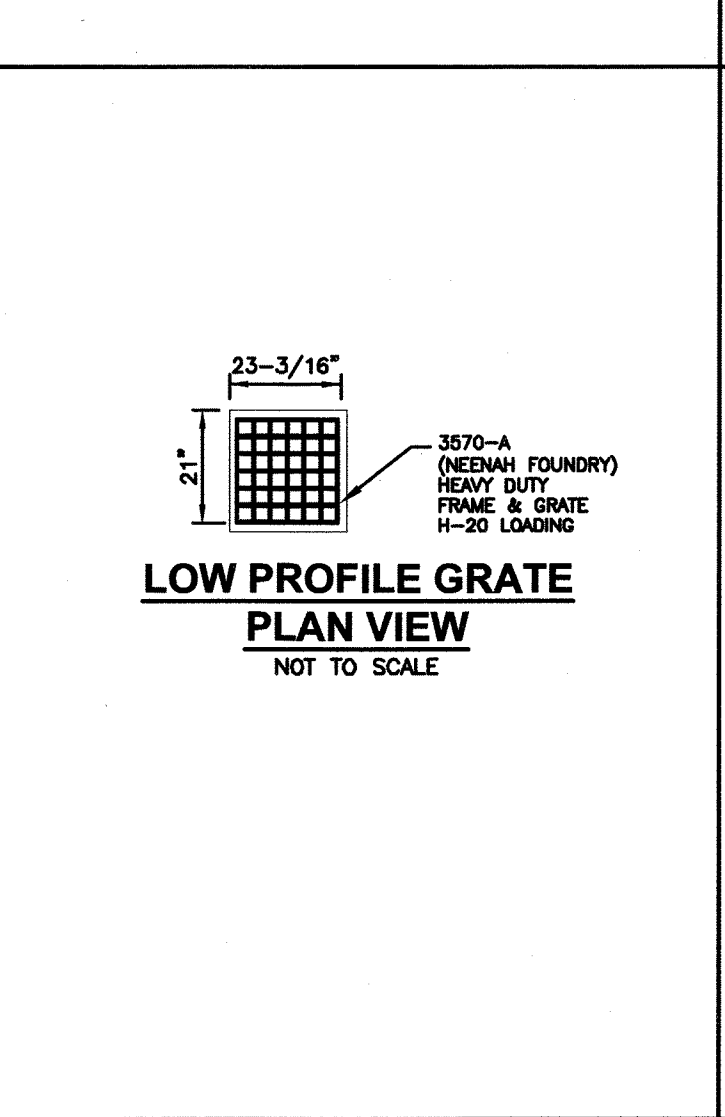
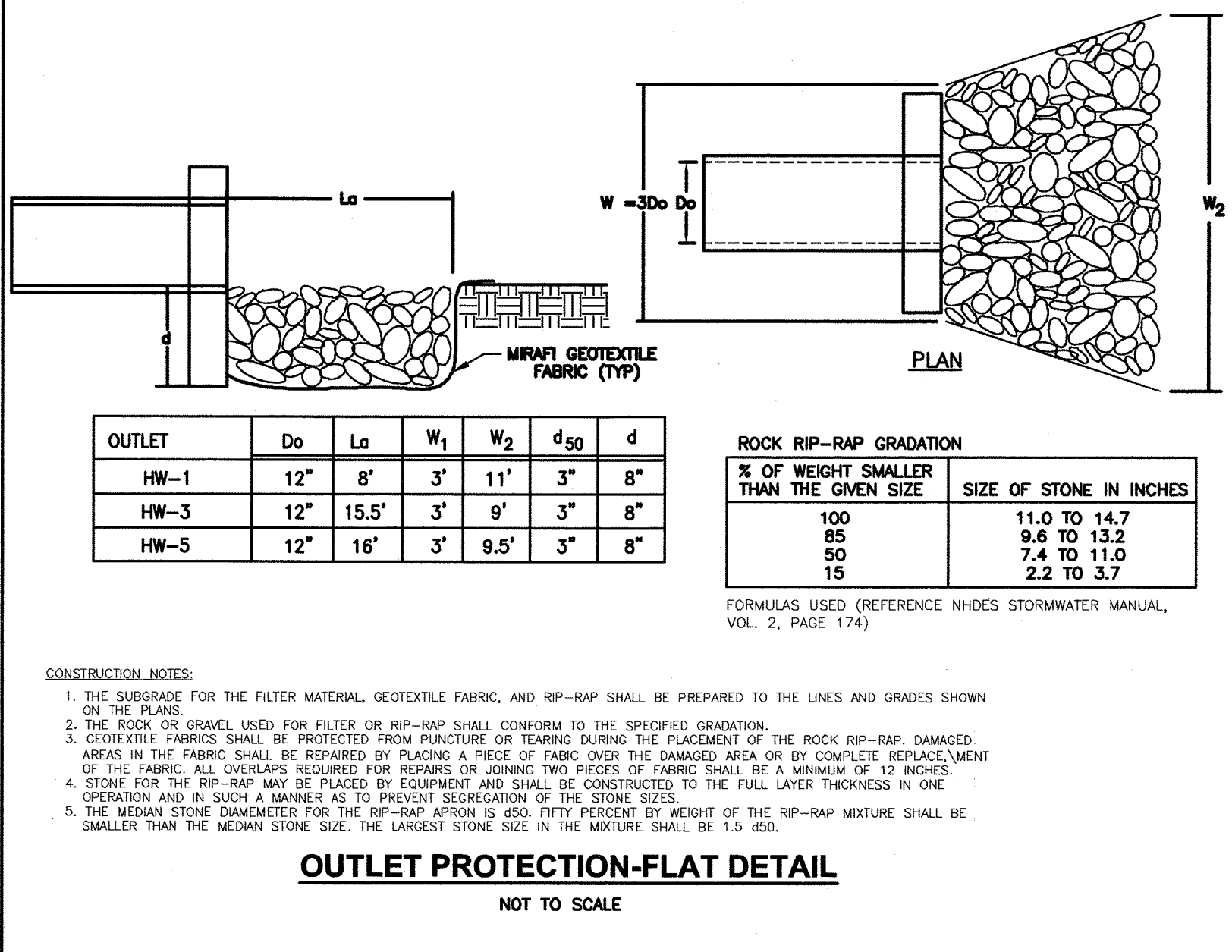
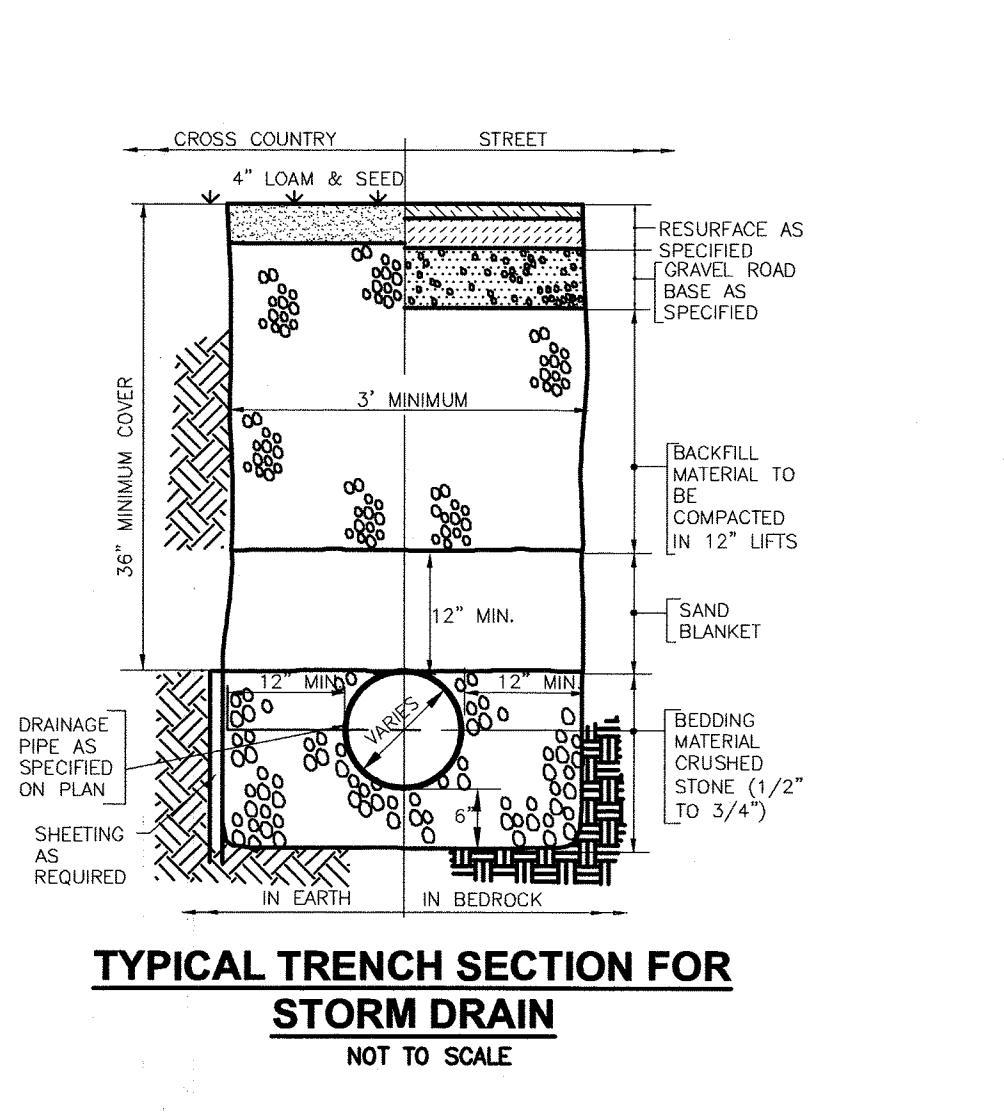
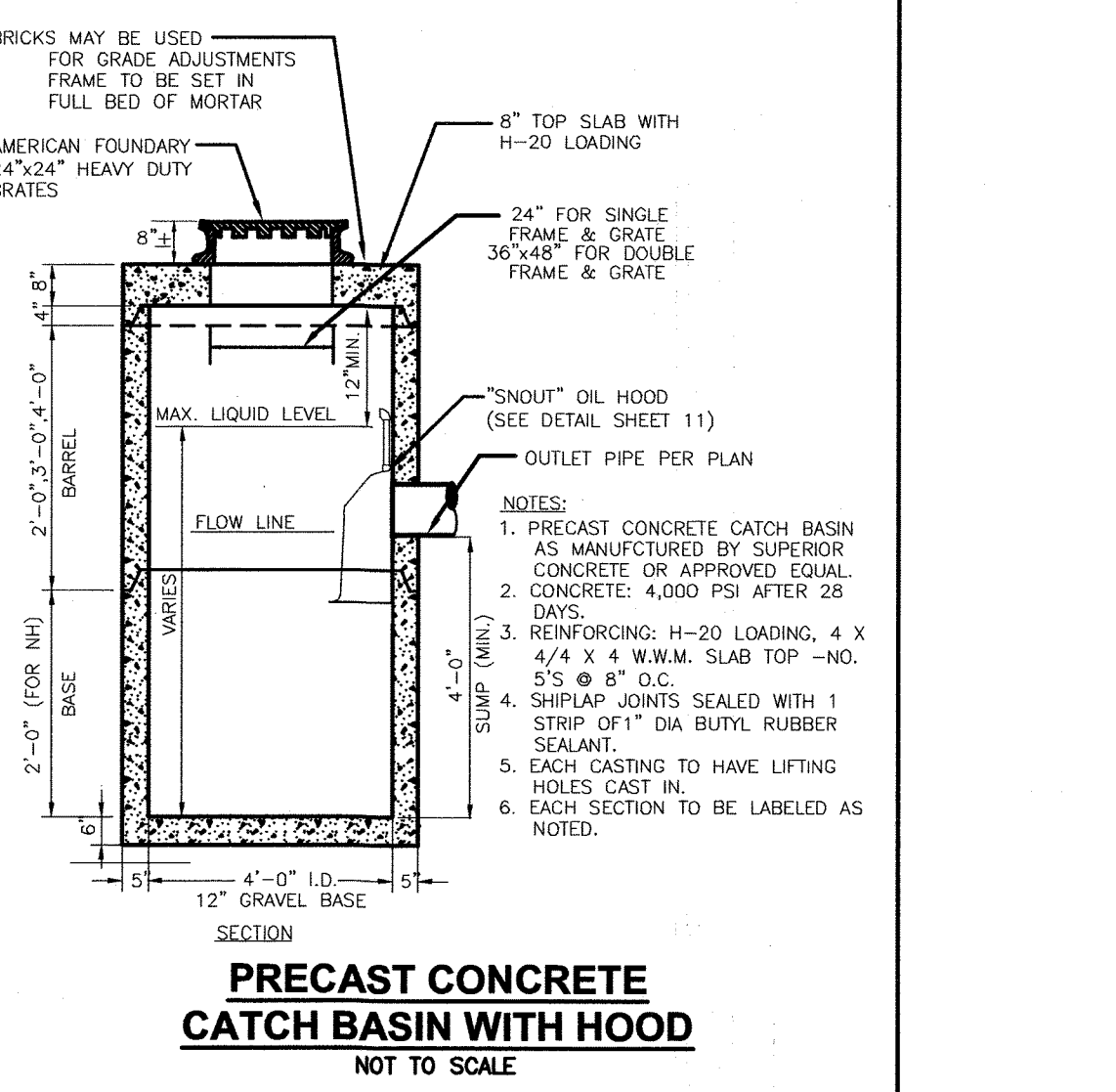
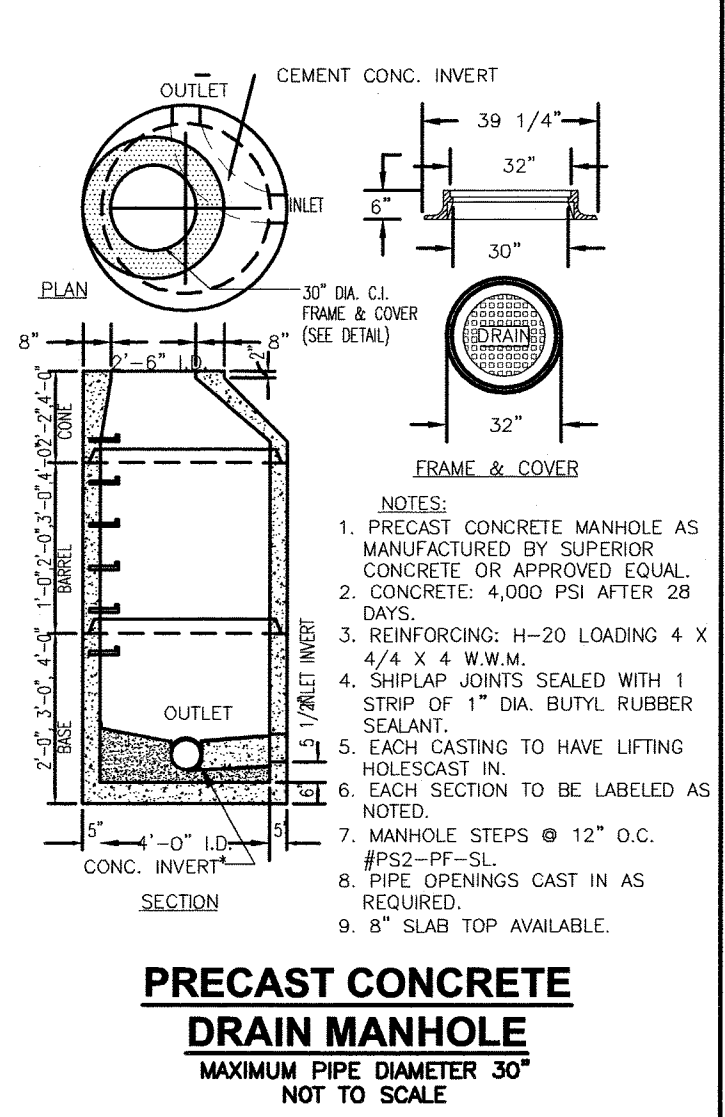
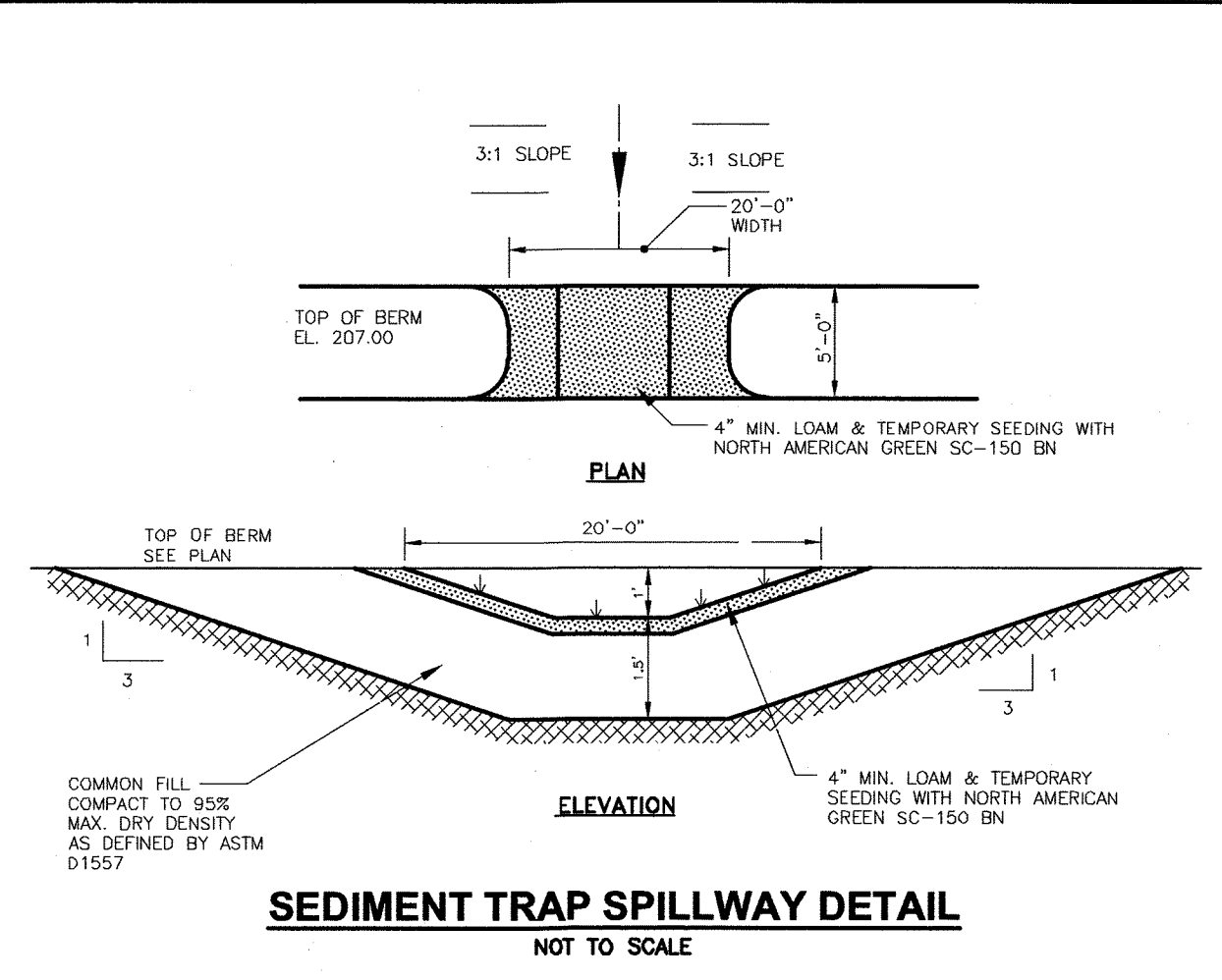
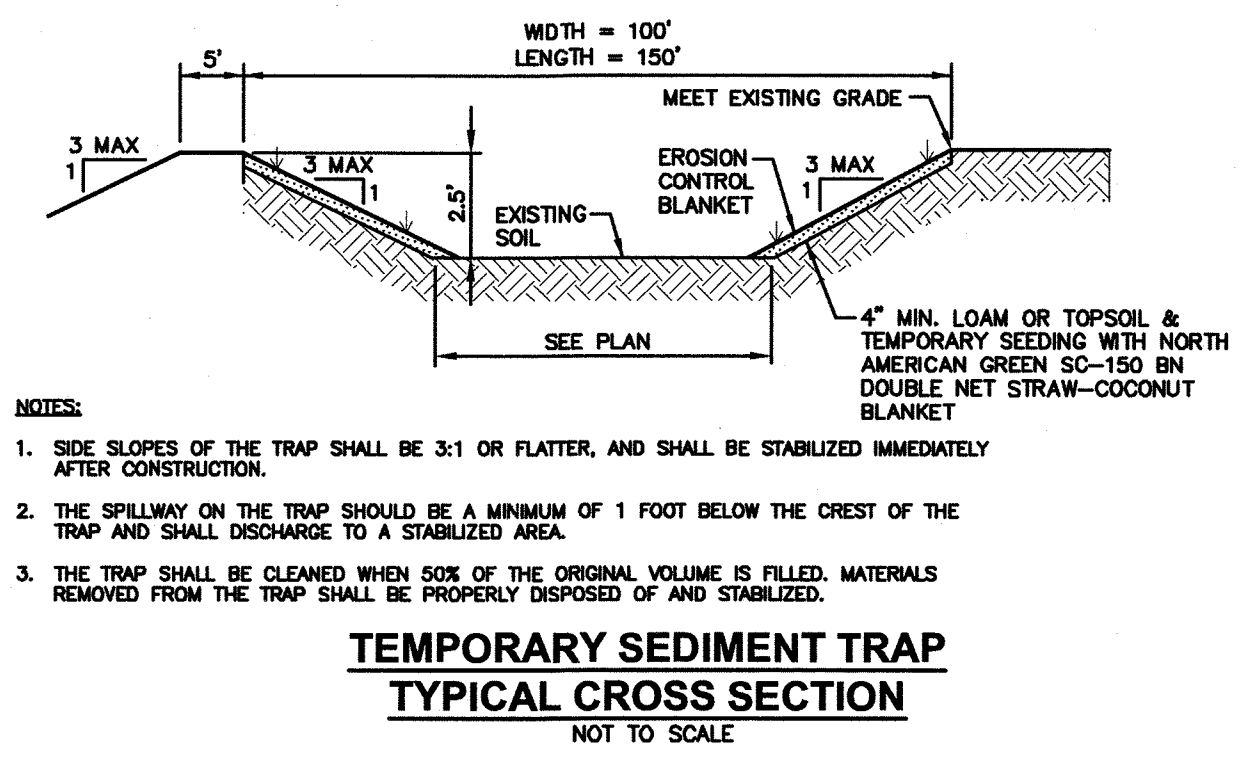
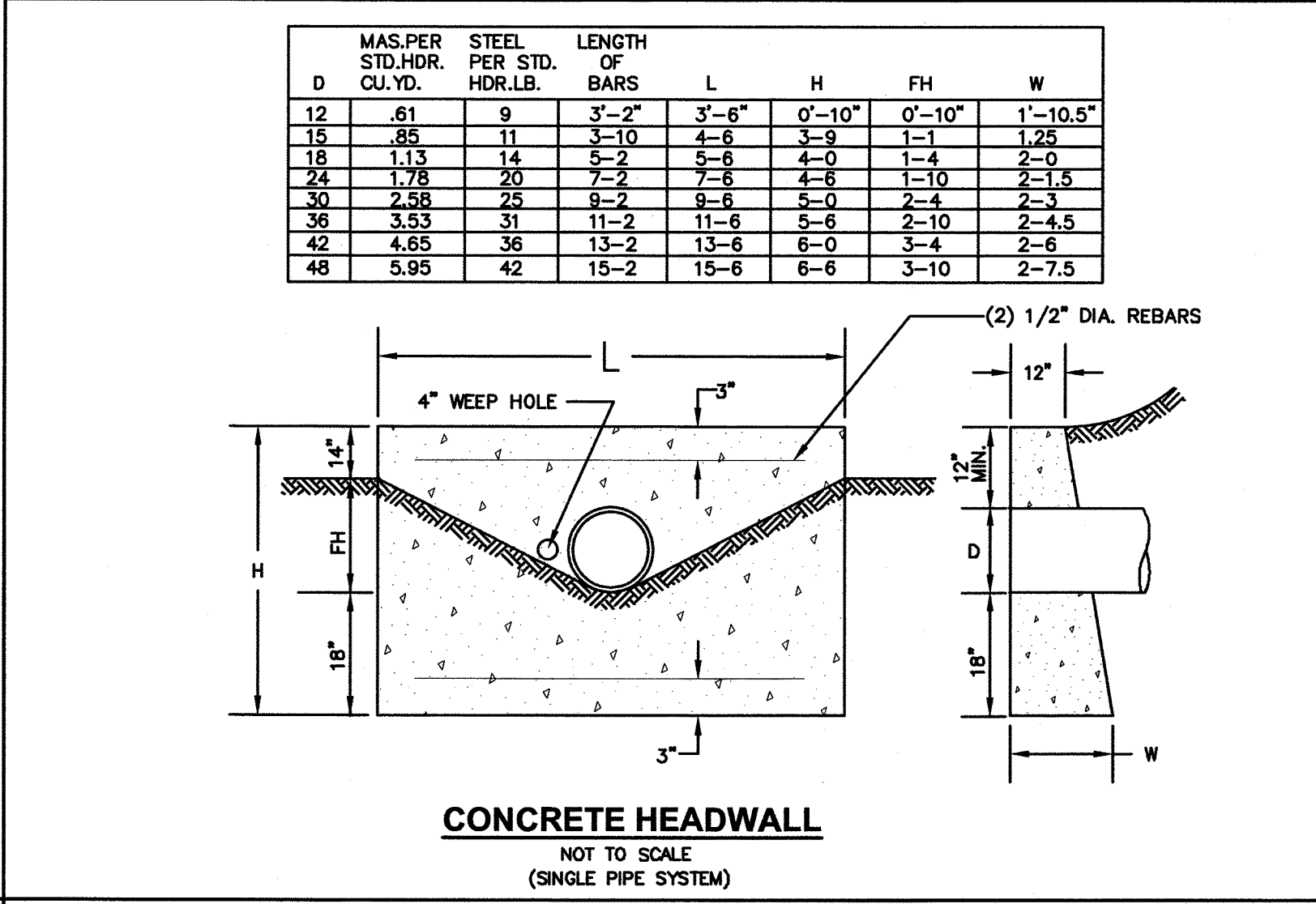
DETAIL SHEET

SCALE: NOT TO SCALE
PROJECT NO. NEX-2020033

9 OF 15



HDPE PIPE TRENCH
 NOT TO SCALE



GPI Engineering | Design | Planning | Construction Management

TEST PIT DATA

Client: Granite State Convenience
 Project Address: 910 & 1910 Suncook Valley Highway
 Town, State: Epsom, NH
 Job Number: NEX-2020033
 Date: March 17, 2021
 Performed by: Diane Pantemoller

Test Pit No.	Depth	Horizon	Fill	Soil Texture	Color	Consistence	SCS Soil	Urban Land
3-1	60"	A		Mixed Soils	Variable		Urban Land	60"
ESHWT:	60"			Peat/Organic			None	
Refusal:	>76"							
3-2	60"	A		Sand Fill	10yr 3/2	FR	Urban Land	74"
ESHWT:	60"			Loamy Sand	7.5y 4/6		49"	
Refusal:	>96"	C		Sand			@60" Distinct	

NOTES
 Test Pit # 3-1 appears to be a filled wetland and with wooden debris.

Greenman-Pedersen, Inc. 44 Stiles Road, Suite One Salem, NH 03079 p 603-893-0720
 An Equal Opportunity Employer

DESIGNER OF SUBSURFACE DISPOSAL SYSTEMS
 Diane M. Pantemoller
 No. 1655

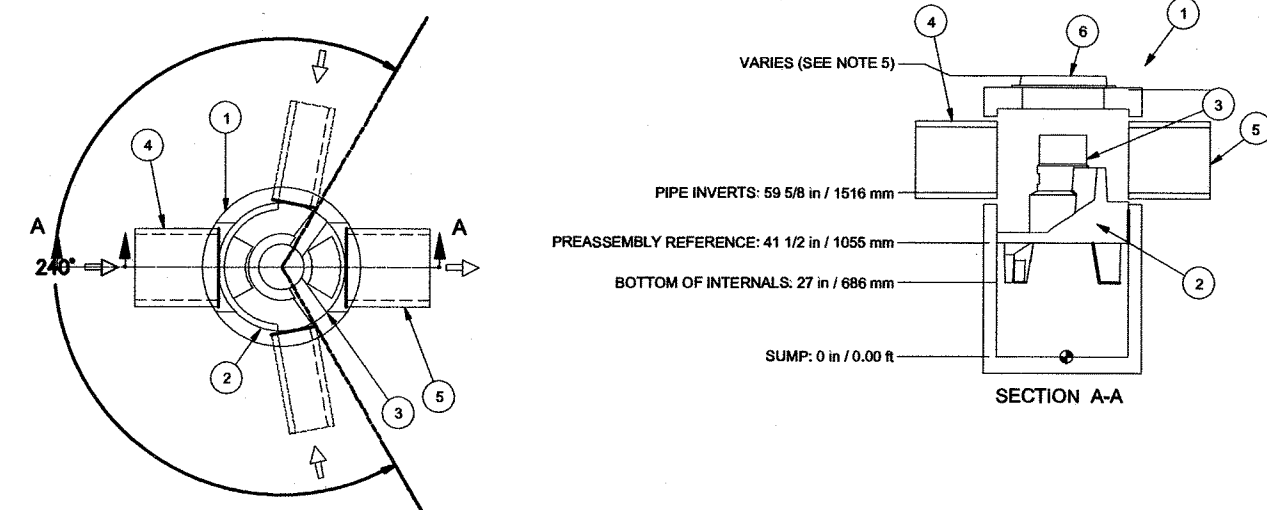
NO. REVISION DATE

JUNE 18, 2021

DRAWN/DESIGN BY: JD/NID CHECKED BY: FCM

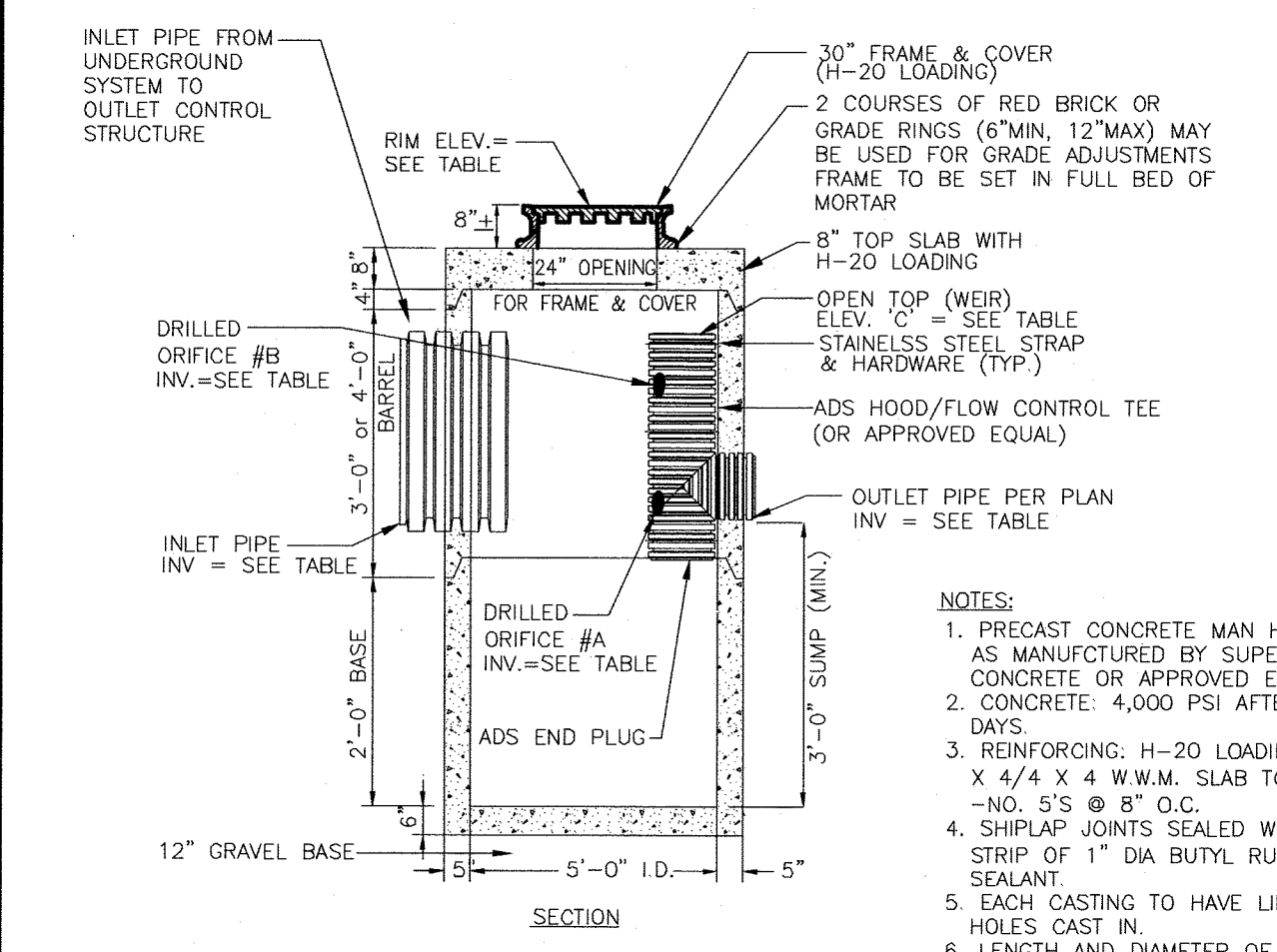
DETAIL SHEET

SCALE: NOT TO SCALE
 PROJECT NO. NEX-2020033
 10 OF 15



- GENERAL NOTES:**
- GENERAL ARRANGEMENT DRAWINGS ONLY. CONTACT HYDRO INTERNATIONAL FOR SITE SPECIFIC INFORMATION.
 - THE DIAMETER OF THE INLET & OUTLET PIPES MAY BE NO MORE THAN 24".
 - WHENEVER INLET PIPES FORMER (REFER TO PROJECT PLANS).
 - INLET/OUTLET PIPE ANGLE CAN VARY TO ALIGN WITH DRAINAGE NETWORK (REFER TO PROJECT PLANS).
 - PIPE FROM RAIN, AND MINIMUM HEIGHT LIMITED BY AVAILABLE COVER AND PIPE DIAMETER.
 - LARGE STORAGE CAPACITY MAY BE PROVIDED WITH A REEFER LAMP CAPTY.
- PRODUCT SPECIFICATIONS:**
- THE TREATMENT SYSTEM SHALL BE DESIGNED TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.
 - THE TREATMENT SYSTEM SHALL BE DESIGNED TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.
 - PROJECT PLANS AND SHALL NOT EXCEED THE DIMENSIONS FOR THE DESIGN FLOW RATES SPECIFIED HEREIN.
 - THE TREATMENT SYSTEM SHALL BE DESIGNED TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.
 - THE TREATMENT SYSTEM SHALL BE DESIGNED TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.
 - THE TREATMENT SYSTEM SHALL BE DESIGNED TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.

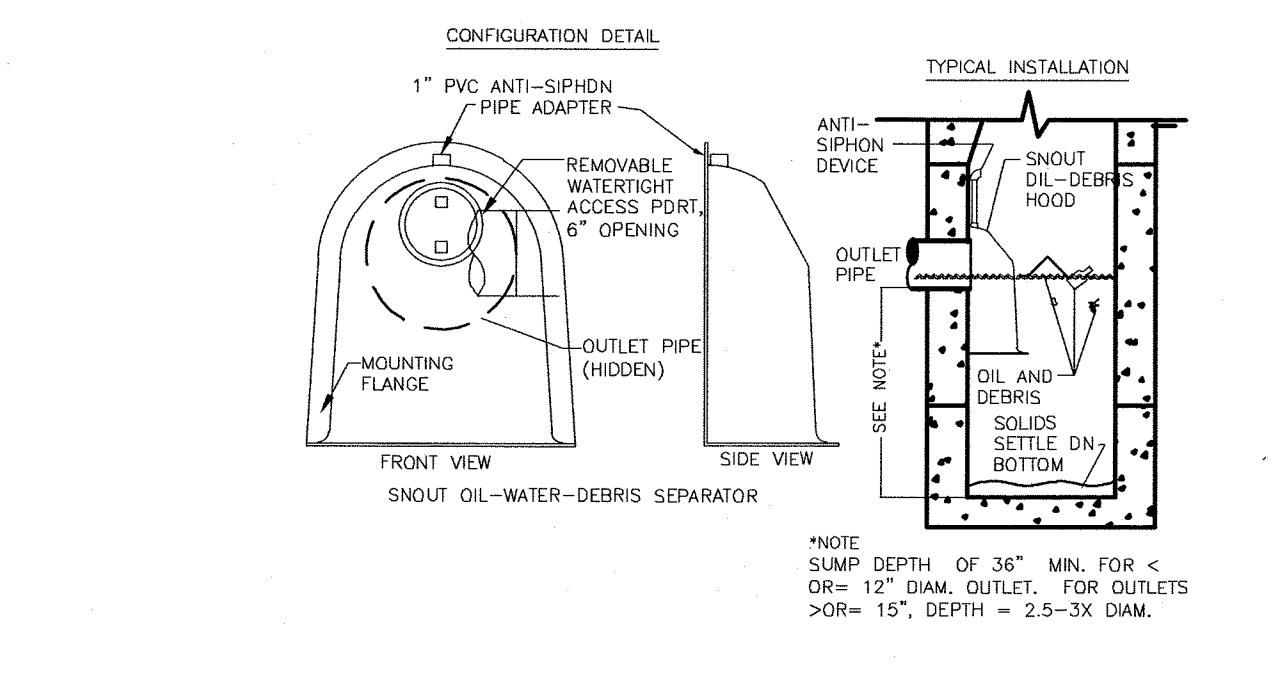
"FIRST DEFENSE" UNIT DETAIL - FD-4HC
(OR APPROVED EQUAL)
NOTE: CONTRACTOR SHOULD CONFIRM SYSTEM PARTS AND OBTAIN SHOP DRAWINGS FROM MANUFACTURER PRIOR TO CONSTRUCTION.



OUTLET CONTROL STRUCTURE TABLE

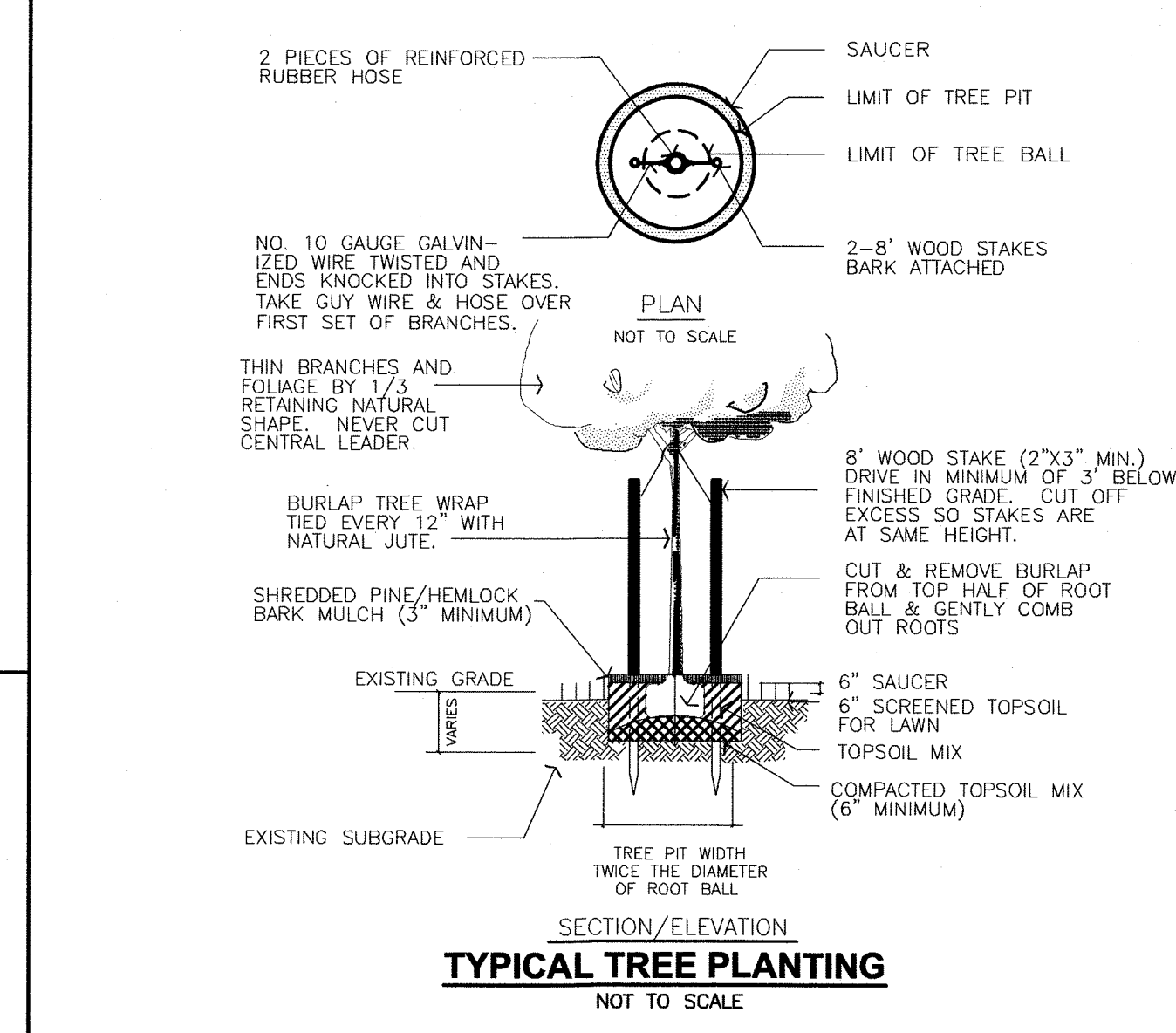
OCS	RIM	ORIFICE	SIZE (IN.)	ELEV.	INV. IN (SIZE)	INV. IN (ELEV)	INV. OUT (SIZE)	INV. OUT (ELEV)
#1	344.20	A	5" DIA.	341.45	12"	341.40	12"	341.45
		B	4" DIA.	342.00	12"	341.40	12"	341.45
		C	12" DIA.	342.00	12"	341.40	12"	341.45
#2	344.95	A	4" DIA.	339.45	12"	339.45	12"	339.45
		B	6" DIA.	341.20	12"	339.45	12"	339.45
		C	12" DIA.	342.20	12"	339.45	12"	339.45

PRECAST CONCRETE OUTLET CONTROL STRUCTURE (OCS) FOR UNDERGROUND SYSTEMS
NOT TO SCALE

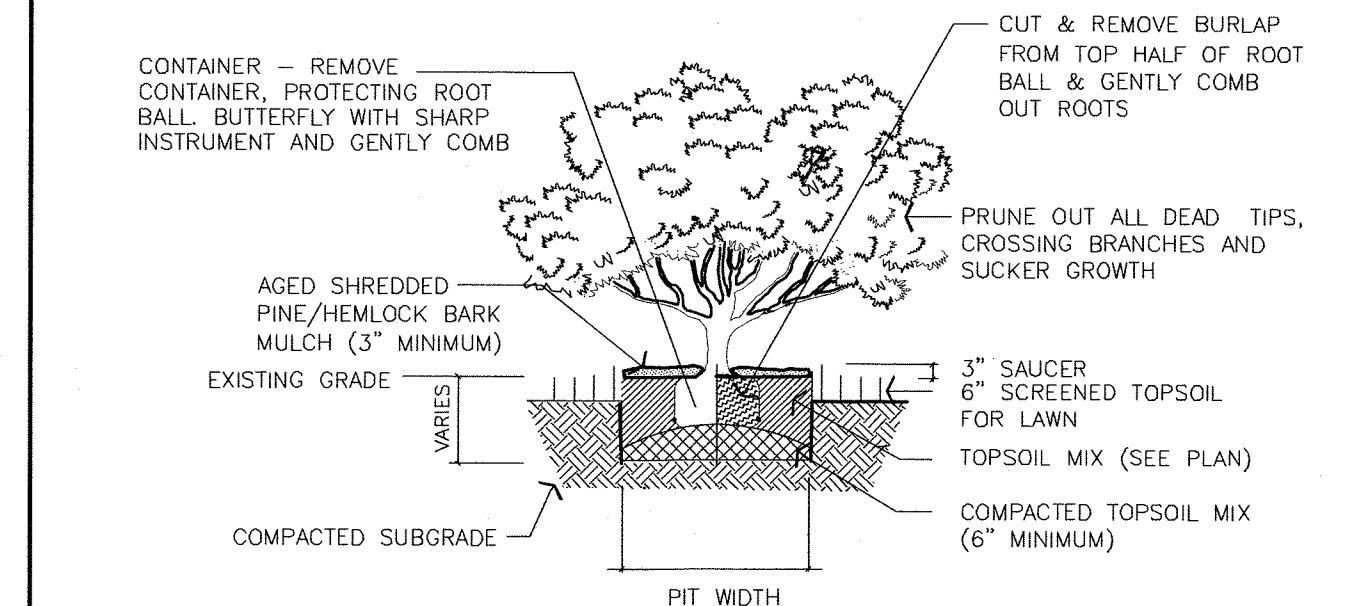


- NOTES:**
- ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY BEST MANAGEMENT PRODUCTS, INC. 53 MT. ARCHER RD., LYME, CT 06371 (860) 434-9277, (860) 434-3195 FAX TOLL FREE: (800) 504-8008 OR (888) 334-7885 WEB SITE: www.bestmtp.com OR PRE-APPROVED EQUAL.
 - ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
 - ALL HOODS SHALL BE EQUIPPED WITH A WATER-TIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL).
 - THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION.
 - THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
 - THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE CONFIGURATION.
 - THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
 - THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL).
 - INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE:
 - INSTALLATION INSTRUCTIONS
 - PVC ANTI-SIPHON PIPE AND ADAPTER
 - OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
 - 3/8" STAINLESS STEEL BOLTS
 - ANCHOR SHIELDS

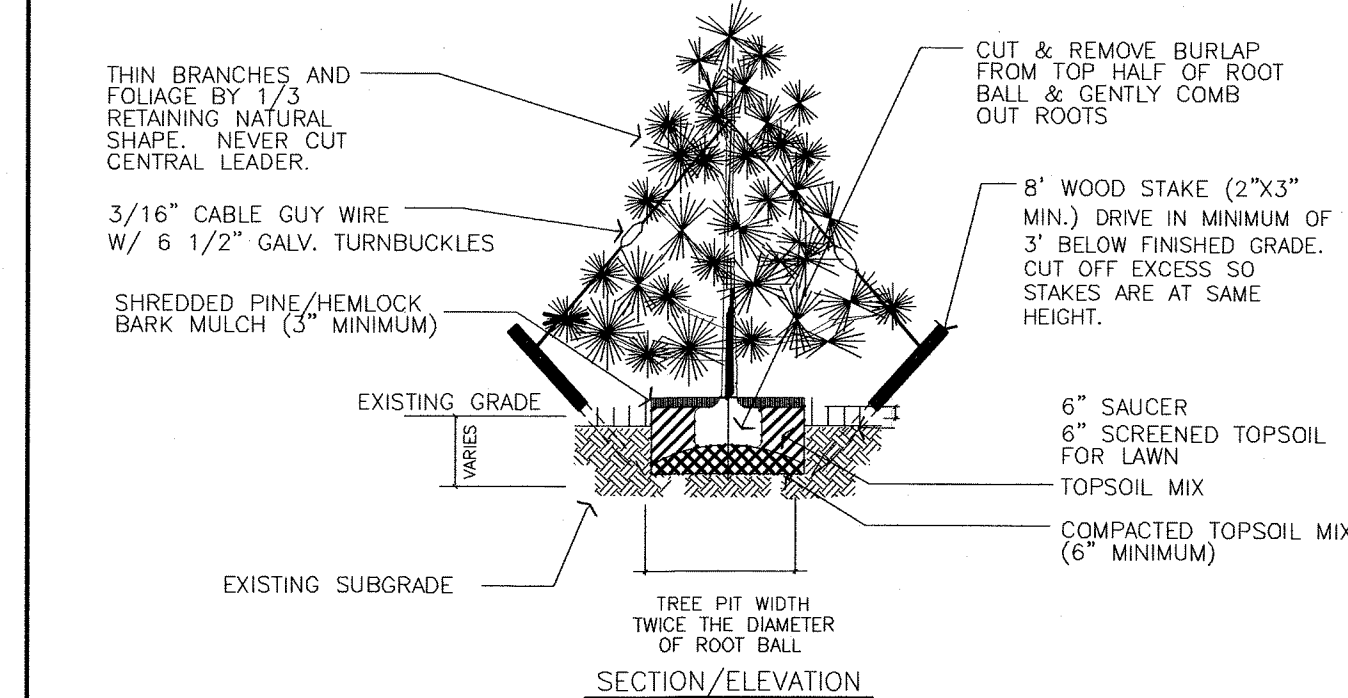
SNOUT - OIL - WATER - DEBRIS SEPARATOR
NOT TO SCALE



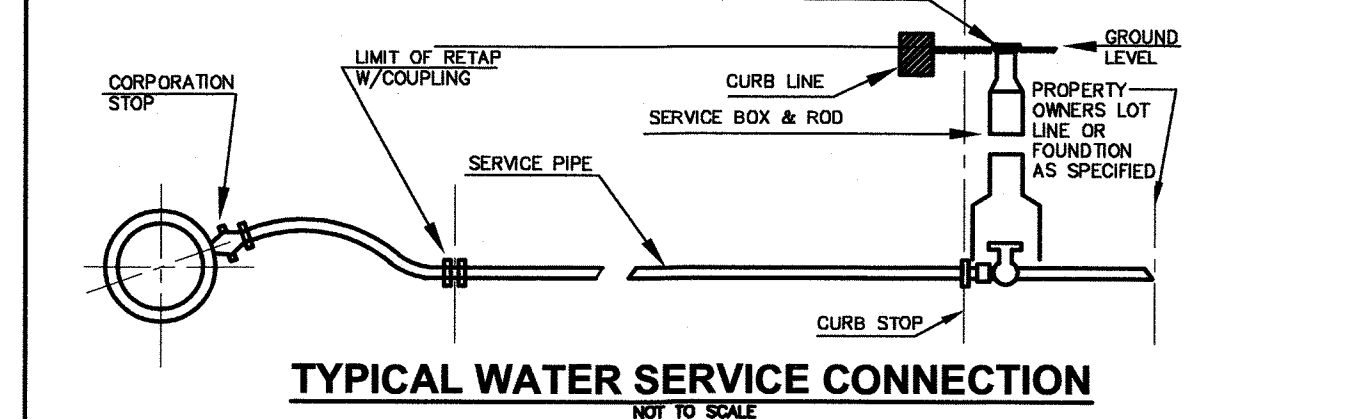
TYPICAL TREE PLANTING
NOT TO SCALE



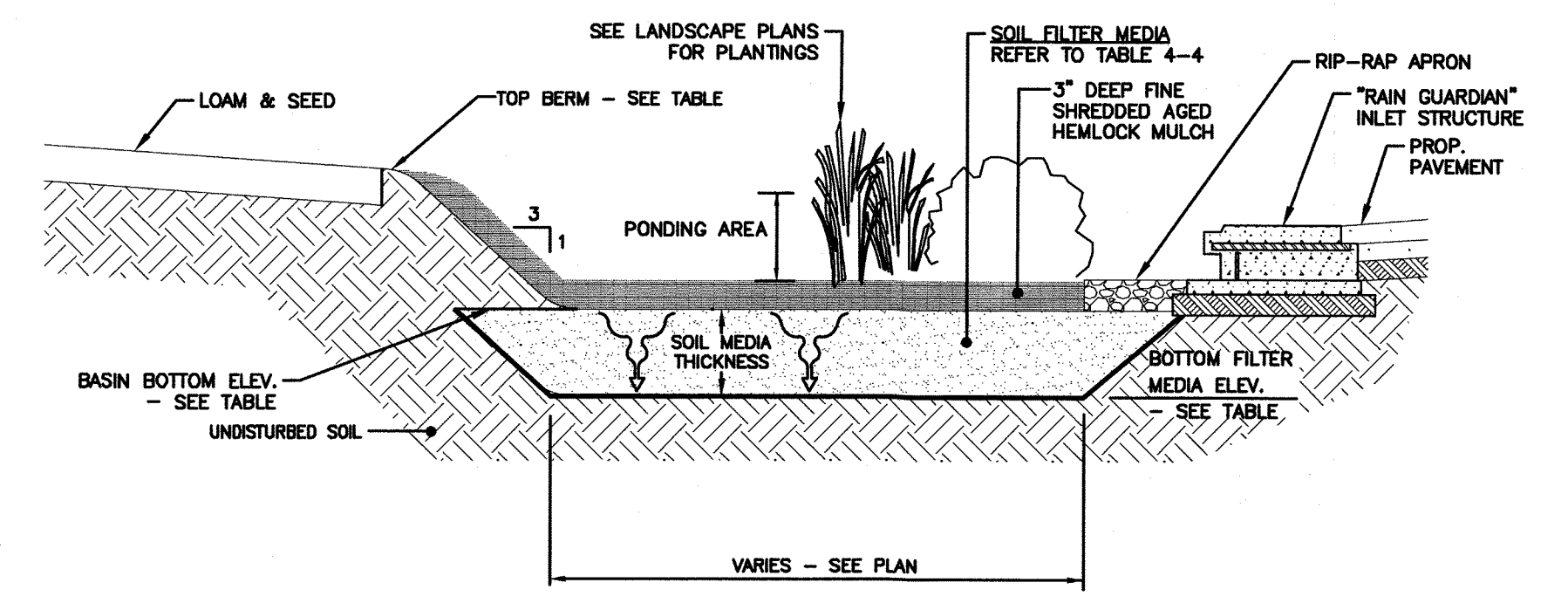
TYPICAL SHRUB PLANTING
NOT TO SCALE



TYPICAL EVERGREEN TREE PLANTING
NOT TO SCALE



TYPICAL WATER SERVICE CONNECTION
NOT TO SCALE



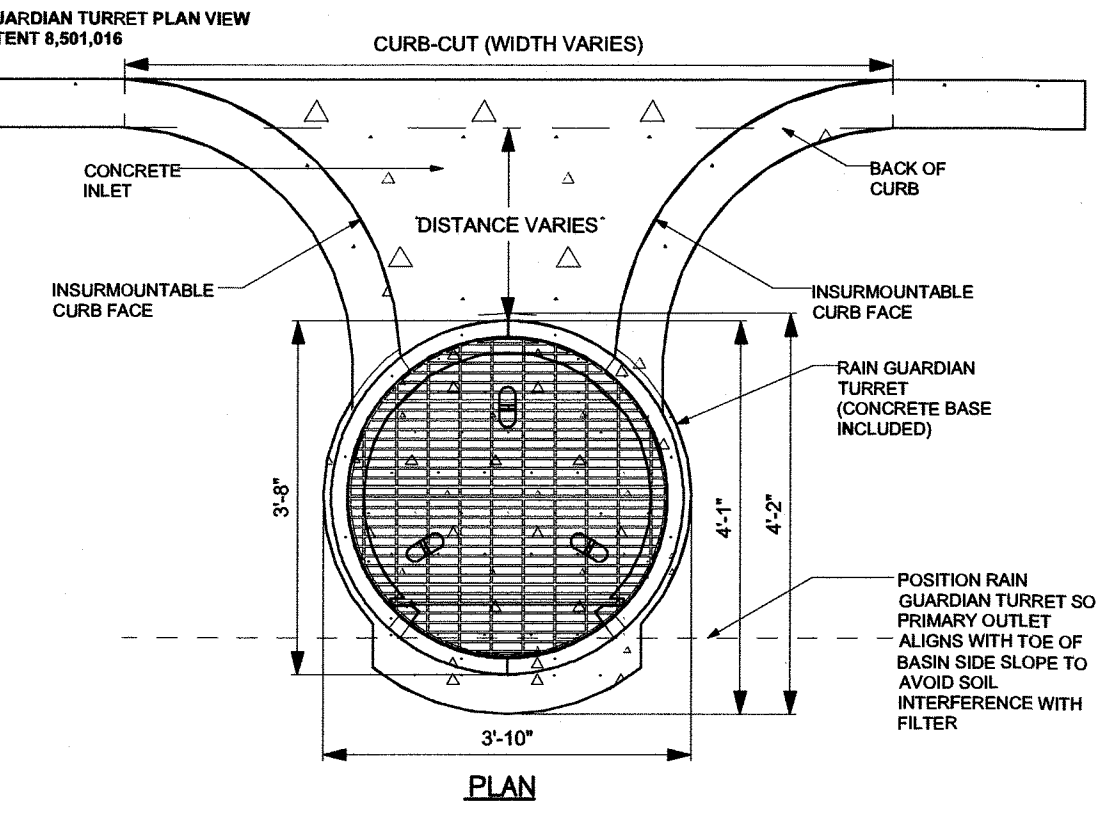
BIORETENTION AREA	TOP BERM ELEVATION	BASEIN BOTTOM ELEVATION	SOIL MEDIA THICKNESS	BOTTOM FILTER MEDIA ELEV.	IMPERMEABLE LINER
#1	340.00	339.00	24"	337.00	NO

NOTES:
FOR ADDITIONAL INFORMATION REFER TO THE NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 2, POST-CONSTRUCTION BEST MANAGEMENT PRACTICES, DECEMBER 2008.

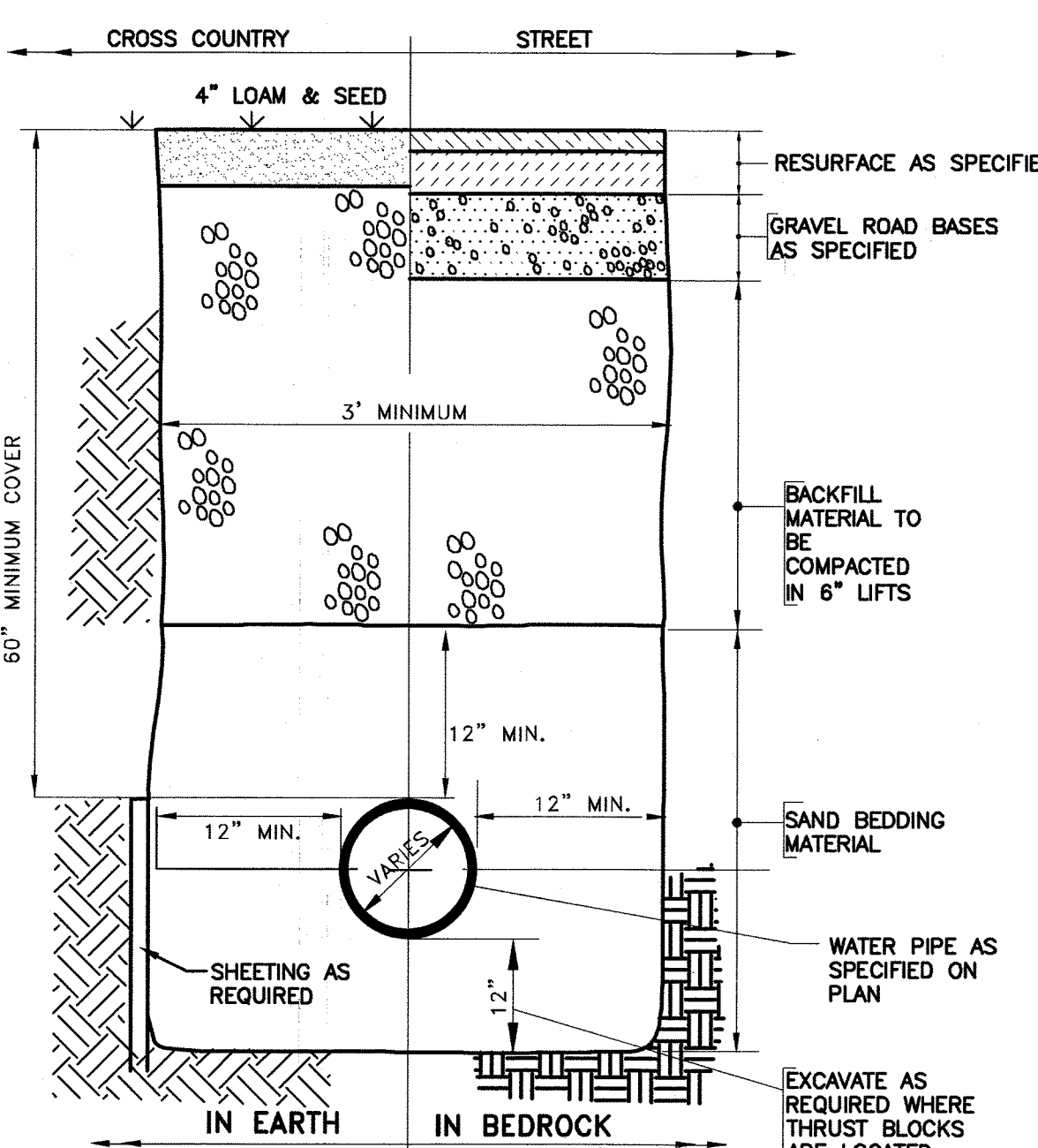
Table 4-4. Bioretention Filter Media

Component Material	Percent of Mixture by Volume	Gradation of Material	Percent by Weight Passing Standard Sieve
Filter Media Option A			
ASTM C-33 concrete sand	50 to 55		
Loamy sand topsoil, with fines as indicated	20 to 30	200	15 to 25
Moderately fine shredded bark or wood fiber mulch, with fines as indicated	20 to 30	200	< 5
Filter Media Option B			
Moderately fine shredded bark or wood fiber mulch, with fines as indicated	20 to 30	200	< 5
	70 to 80	10	85 to 100
Loamy coarse sand		20	70 to 100
		80	15 to 40
		200	8 to 15

BIORETENTION AREA DETAIL
NOT TO SCALE



RAIN GUARDIAN INLET STRUCTURE
NOT TO SCALE

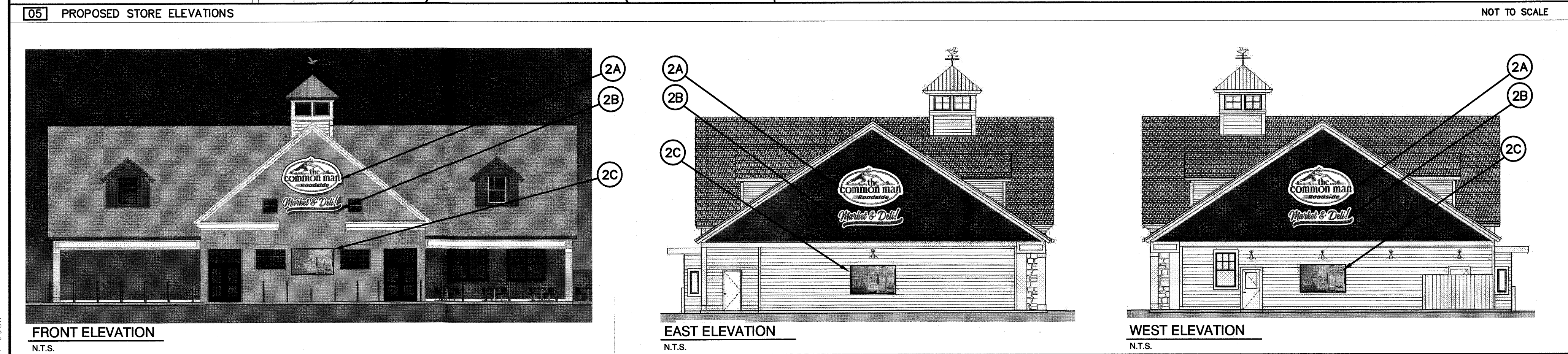
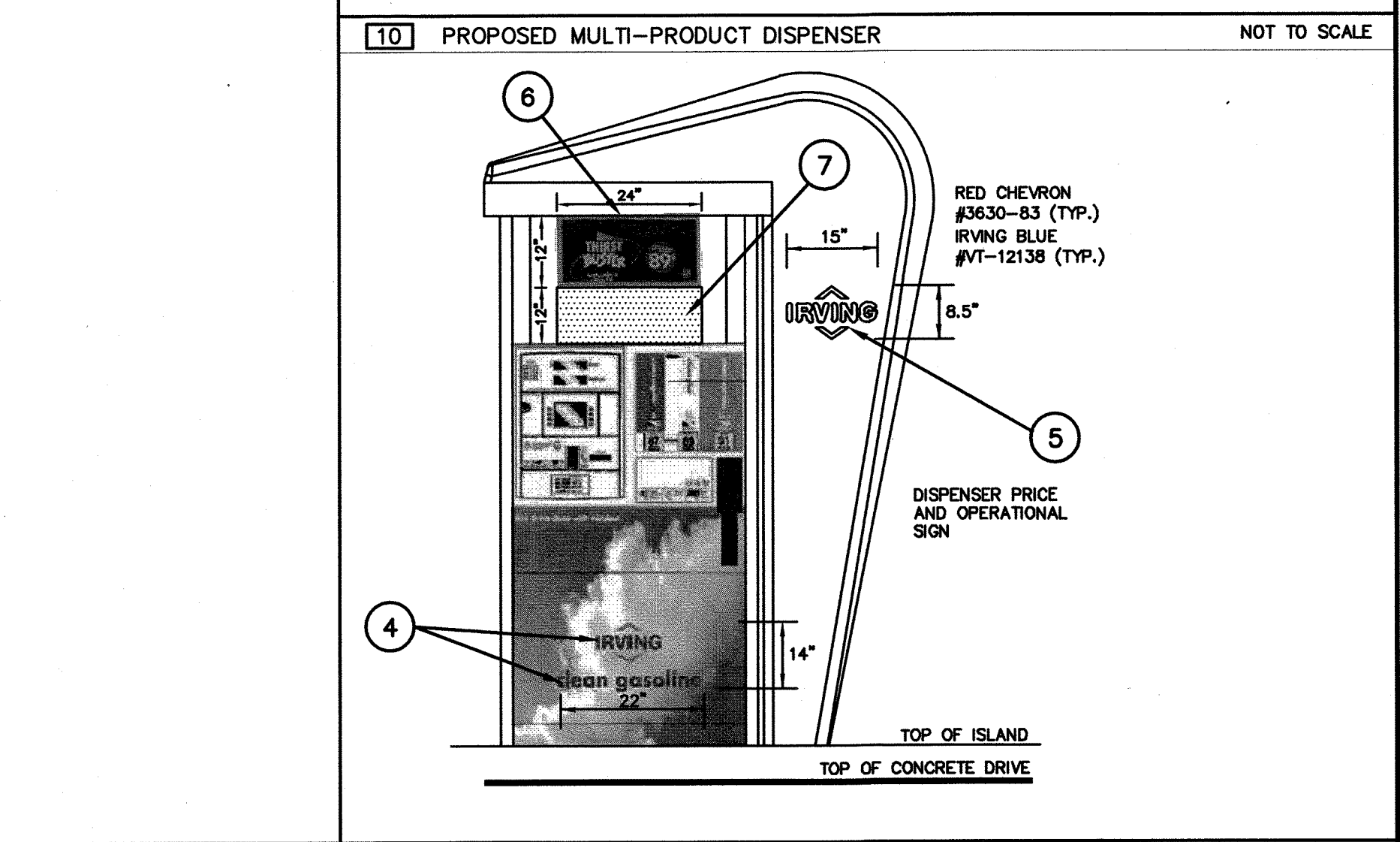
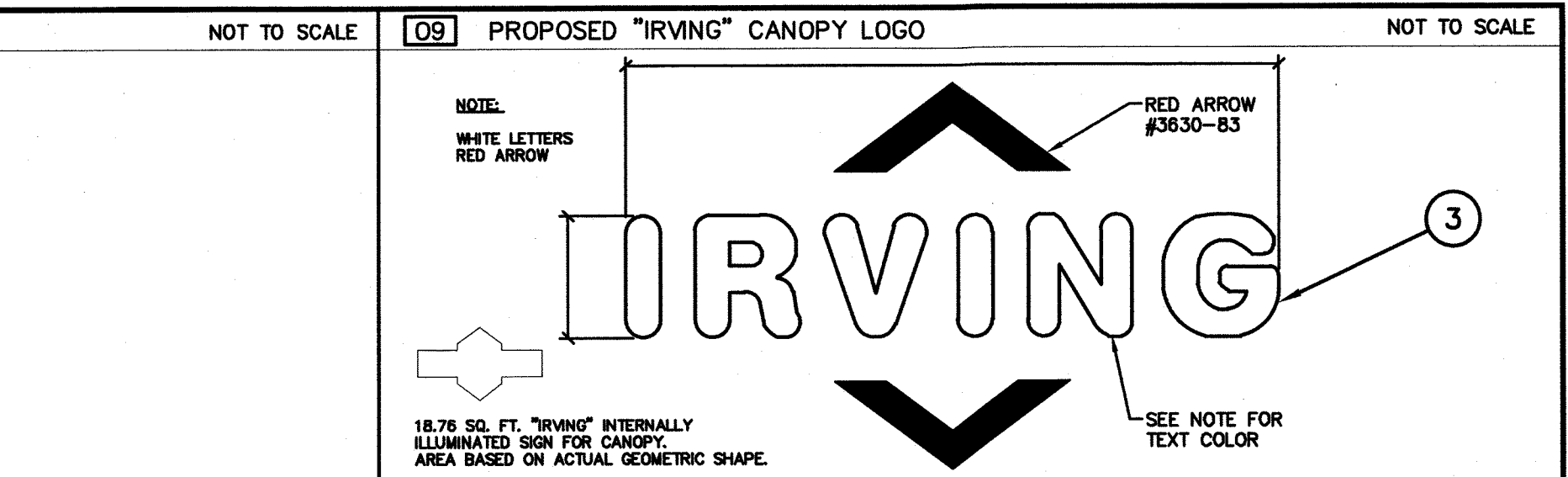
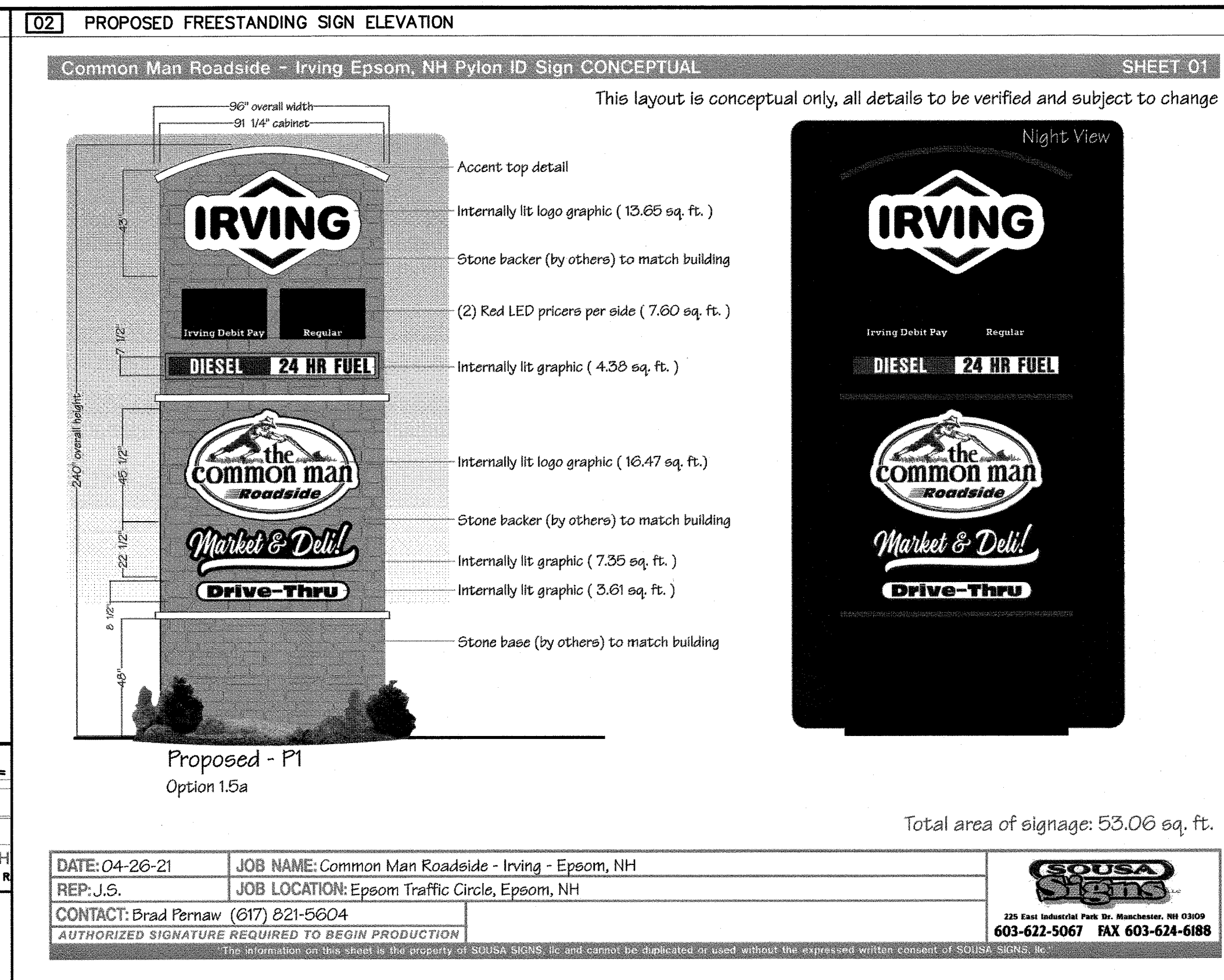
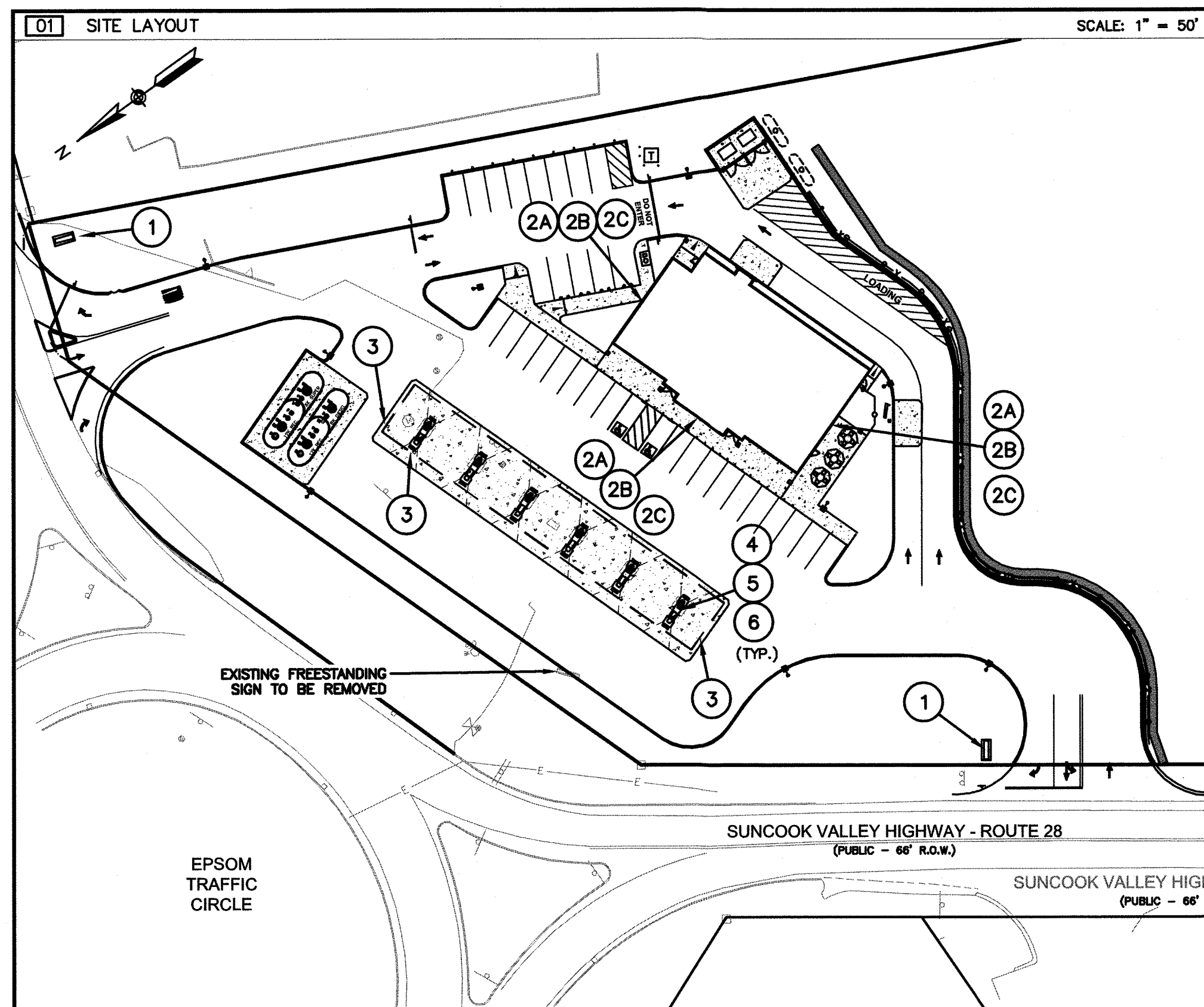


TYPICAL TRENCH SECTION FOR WATER SERVICE
NOT TO SCALE

REVISIONS

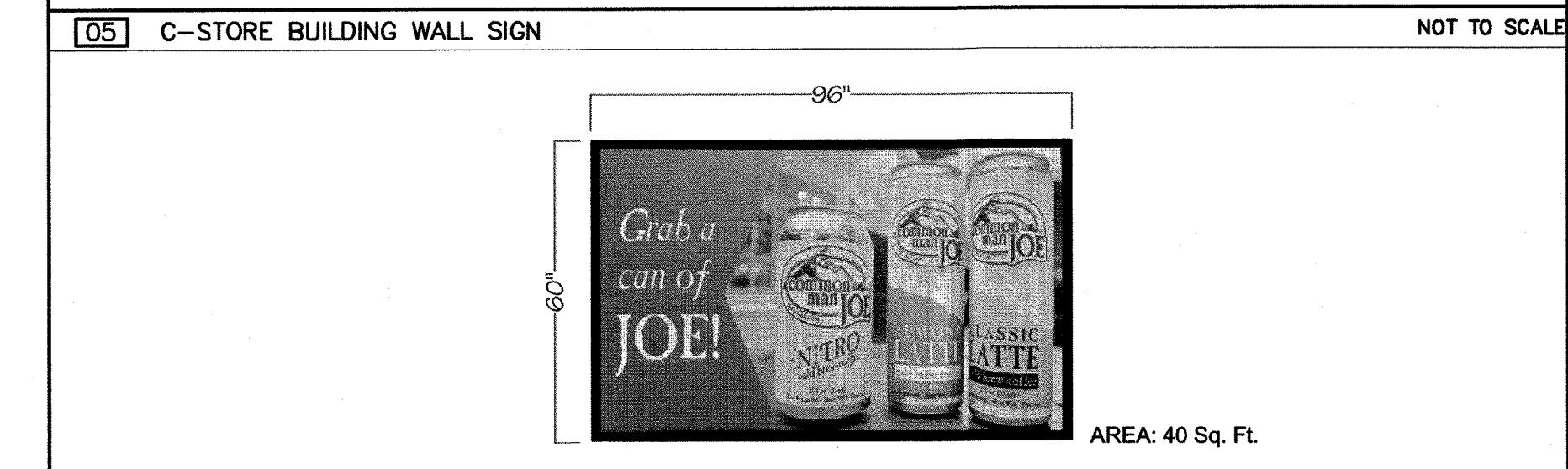
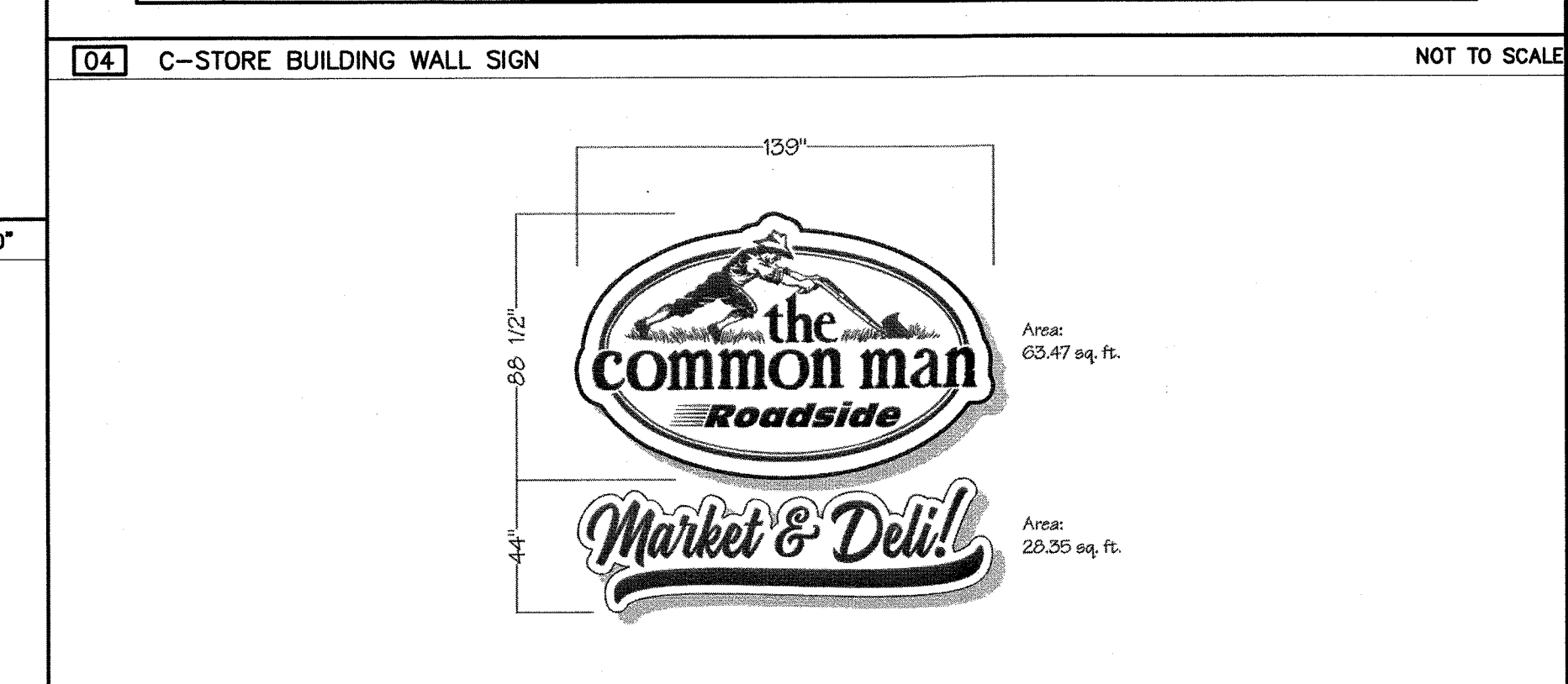
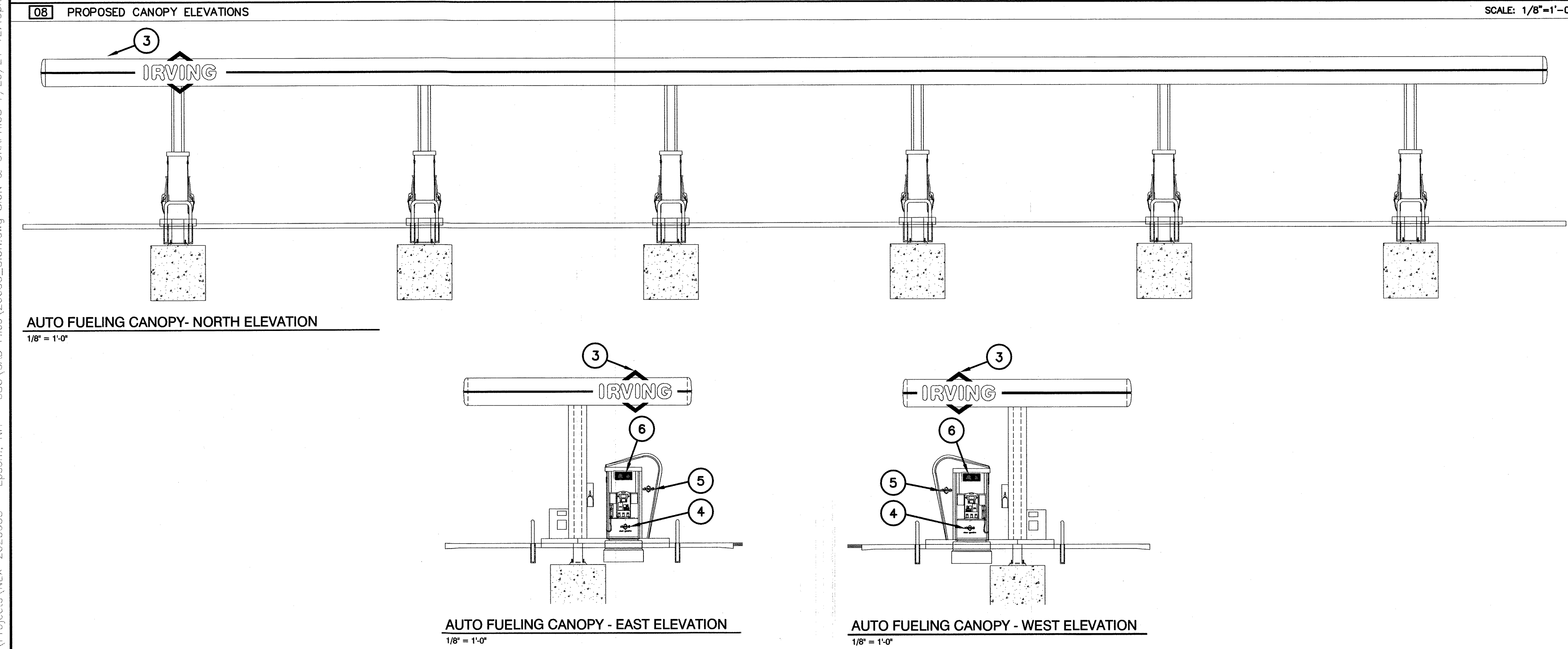
NO.	REV.	PER TOWN COMMENTS	DATE
1			7/30/21

JUNE 18, 2021
DRAWN/DESIGN BY: JD/NID CHECKED BY: FCM



06 PROPOSED SIGN SCHEDULE NOT TO SCALE

PROPOSED SIGN SCHEDULE						
MARK	DESCRIPTION	SIZE	AREA	QTY.	TOTAL SF	ILLUM'D.
1	FREESTANDING SIGN	SEE DETAIL 2	106.1	2	212.2	YES (INTERNAL)
2A	C-STORE WALL SIGN	SEE LOGO DETAIL 4	63.5	3	190.5	YES (INTERNAL)
2B	C-STORE WALL SIGN	SEE LOGO DETAIL 4	28.4	3	85.2	YES (INTERNAL)
2C	C-STORE WALL SIGN	SEE LOGO DETAIL 5	40.0	3	120.0	YES (INTERNAL)
3	"IRVING" CANOPY - LOGO SIGN	SEE LOGO DETAIL 9	18.76	3	56.28	YES (INTERNAL)
4	"IRVING" MPD DOOR GRAPHIC	SEE DISPENSER DETAIL 10	2.14	12	25.68	NO
5	"IRVING" DISPENSER SHROUD LOGO	SEE DISPENSER DETAIL 10	0.89	12	10.68	NO
6	"IRVING" DISPENSER ADVERTISING SIGN	SEE DISPENSER DETAIL 10	2.0	12	24.0	NO
7	DISPENSER PRICE SIGN	SEE DISPENSER DETAIL 10	2.0	12	24.0	NO



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

PREPARED FOR
 GRANITE STATE CONVENIENCE, LLC
 25 SPRINGER ROAD
 HOOKSETT, NH 03106

PROPOSED RETAIL MOTOR FUEL OUTLET ASSESSORS MAP U5 LOT 13
910 SUNCOOK VALLEY HWY
EPSOM, NEW HAMPSHIRE

DAVID R. JORDAN
 No. 7778
 7/29/21

REVISIONS		
NO.	REVISION	DATE

NO. REVISION DATE

APRIL 30, 2021

DRAWN/DESIGN BY: JD/NID CHECKED BY: FCM

SIGN & GRAPHICS PLAN

SCALE: AS SHOWN

PROJECT NO. NEX-2020033

15 OF 15

F:\Projects\NEX-2020033 - Epsom, NH - GSC\CAD Files\20033_SIGN.dwg, SIGN & GRAPHICS 7/29/21 12:48pm ccoil

BIOCLERE INSTALLATION PROCEDURE:
 AQUAPOINT PROVIDES ONSITE SUPERVISION OF THE INSTALLATION, THE FRESH WATER COMMISSIONING OF THE BIOCLERE SYSTEM AND CERTIFICATION THAT THE SYSTEM IS OPERATIONAL. EFFECTIVE EXECUTION OF THESE PROCEDURES REQUIRES COORDINATION WITH THE SITE CONTRACTOR.

- A. THE SITE CONTRACTOR SHALL CONTACT AWTE AT 508-998-7577 TO COORDINATE DELIVERY, INSTALLATION SCHEDULE AND FRESHWATER COMMISSIONING OF THE SYSTEM.
- B. EXCAVATE TO 18" BELOW CLARIFIER. DE-WATER EXCAVATION IF REQUIRED.
- C. ADD 12" (1.00 FT) OF CLEAN 3/8" PEASTONE.
- D. INSTALL PRE-CAST MOUNTING PAD APPROXIMATELY CENTER TO BIOCLERE LOCATION (SEE AWT3014 REV. C).
- E. CHECK TO ENSURE MOUNTING PAD IS LEVEL AND ELEVATION IS CORRECT.
- F. CAREFULLY LOWER BIOCLERE INTO POSITION WITH PROPER RIGGING AND LIFTING TECHNIQUES.
- G. ORIENT AND ALIGN BIOCLERE TO INLET AND OUTLET DIRECTIONS. CHECK IF BIOCLERE LEVEL.
- H. FILL BIOCLERE WITH CLEAN FRESH WATER TO BOTTOM OF OUTLET PIPE TO STABILIZE UNIT.
- I. REFER TO ANCHORING REQUIREMENTS ON SITE PLAN AND POUR CONCRETE BALLAST PER DETAILS.
- J. INSTALL INLET, OUTLET, AND VENT/TEST PORT PIPING.
- K. INSTALL RECYCLE PIPING FROM BIOCLERE BACK TO INLET END OF PRIMARY (SEPTIC) TANK. THE RECYCLE LINE IS 1-1/2" SCHEDULE 40 PVC FROM THE BIOCLERE TO THE OUTSIDE OF SEPTIC TANK AND SCHEDULE 80 PVC INSIDE THE SEPTIC TANK. SCHEDULE 80 PVC TO BE INSTALLED AGAINST THE INSIDE WALL AND AT THE SEPTIC TANKS LIQUID DEPTH TERMINATING WITH A 90° ELBOW. (SEE BIOCLERE DRAWING AWT1012) REVISION C PROVIDED BY AQUAPOINT)
- L. INSTALL WIRING WITH WATER TIGHT CONDUIT FROM CONTROL LOCATION TO BIOCLERE.
- M. BACKFILL AROUND BIOCLERE WITH SAND AND/OR PEASTONE TO FINAL GRADE.
- N. INSTALL CONTROL BOX IN PROTECTED LOCATION, CONNECT POWER FEED AND BIOCLERE WIRING. (SEE BIOCLERE DRAWING AWT1005 REV. F PROVIDED BY AQUAPOINT)

BIOCLERE TREATMENT SYSTEM SPECIFICATIONS

PART 1 - GENERAL

1.01 SCOPE

- A. The work of this section includes furnishing all labor, materials, tools and equipment necessary to furnish and install an AQUAPOINT factory built, Bioclere fixed film aerobic process type treatment system with all necessary equipment and appurtenances for efficient operation as specified herein and as shown on the drawings.
- B. The manufacturer of the Bioclere process system shall be AQUAPOINT of New Bedford, MA.

1.02 DESIGN CRITERIA

- A. The materials and equipment covered by this specification are intended to be standard materials and equipment of proven ability as manufactured by reputable concerns. Equipment shall be designed and constructed in accordance with the best practice of the industry and shall be installed in accordance with the manufacturer's recommendations and the Contract Documents.
- B. The Bioclere system shall be designed to operate under the design criteria detailed in SECTION 2.01 (A).

1.03 PRODUCT HANDLING

- A. All materials and equipment shall be shipped, stored, handled and installed in such a manner as not to degrade quality, serviceability or appearance. The Bioclere unit(s) shall be stored outdoors in a secured location according to the manufacturer's recommendations. Loose-shipped items shall be stored in a clean, dry location free from precipitation and excess moisture.

1.04 SUBMITTALS

- A. Three complete sets of shop drawings and/or site specific Technical Manuals shall be submitted for all items to be furnished by AQUAPOINT. Submittals shall include all equipment and components, catalogue cuts, wiring diagrams, control schematics and all pertinent installation, operation and maintenance procedures to maintain efficient operation.

2/28/05

Section-1

D. Settling Tank

1. The settling tank shall be cone shaped and have sloped sides to prevent the accumulation of biological and inorganic suspended solids and shall contain the necessary internal baffling to prohibit short-circuiting of the wastewater.

E. Ventilation Fan

1. The CSA and UL approved ventilation fan shall be a 115v/1ph/60hz, painted metal and/or plastic, ball bearing fan with a minimum manufactured rated airflow rate of 58 cubic feet per minute (cfm).

F. Pumps

1. The one CSA and UL approved dosing pump and one recycle pump shall be a 115v/1ph/60hz stainless steel submersible pump. Each pump shall have an internal high temperature shut off switch. Each pump shall be capable of 20 gpm at 15 ft. of head. Each pump shall be rated for intermittent or continuous duty when fully submerged between 0°C-55°C.

G. Float Switches

1. The CSA and UL approved low level 115v/1ph/60hz float switch shall be installed to prevent the recycle pump from operating when water levels are abnormally low in the Bioclere (i.e. during primary tank pumping). The float switch shall be a mechanically activated wide-angle switch.

H. Power Supply

1. Each Bioclere treatment unit shall have a dedicated 20 amp, 115v/1ph/60hz, power supply.

I. Control Panel

1. The UL approved control panel shall be furnished with an audio/visual alarm for pump failure and tripped circuit breaker conditions, an exterior alarm silence button, and an on/off/test power/alarm toggle switch. Within the NEMA 4X enclosed fiberglass panel pump timers, relays, contactors, terminal strip, on/off/test switches, run lights, circuit breakers and current sensors shall be provided. A dry contact shall be installed in each control panel so that a common Bioclere alarm may be wired to a convenient location. The alarm shall sound and the light shall flash continuously until the alarm is reset or shut off.

2/28/05

Section-1

PART 3 - EXECUTION

3.01 INSTALLATION

- A. All materials and equipment shall be installed in a neat, workmanlike manner.
- B. Installation of the Bioclere treatment system and ancillary equipment supplied by AQUAPOINT shall be in accordance with written instructions provided by the manufacturer or approved representative.
- C. The Bioclere and all applicable treatment units supplied by AQUAPOINT shall be installed with sufficient ballast to offset buoyant forces due to induced or high groundwater conditions.

3.02 CLEAN UP

- A. Prior to start-up and field-testing, all foreign matter shall be removed from the grease trap(s), septic tank(s), pump station(s) and Bioclere unit(s).

3.03 FIELD TESTING

- A. The Bioclere treatment system shall be field-tested using clean fresh water prior to acceptance. The system shall be operated to test the efficiency of all components. All systems, controls, and sequences shall be operated and demonstrated as operating as approved. The contractor shall perform all tests and shall be responsible for all necessary temporary connections, testing equipment and utilities and shall provide and dispose (if necessary) of all water used. A factory trained representative shall be present for the testing.

3.04 PROHIBITIONS

- A. Organic solvents, fuel oils, paints and thinners, photographic fluids, floor waxes and strippers, solutions containing copper compounds, cleaning agents containing quaternary ammonium chlorides and products containing compounds that are documented to inhibit biological growth should not be discharged to the sewage treatment system.

2/28/05

Section-1

PART 2 - MATERIALS

2.04 BIOCLERE TREATMENT SYSTEM

A. General

1. The Bioclere treatment system shall include a trickling filter situated over a final settling tank. The Bioclere treatment system shall be delivered complete from the supplier and shall include: random packed PVC manufactured media, ventilation fan, dosing pump, sludge return pump, internal piping, wiring and controls for a complete operational treatment system. The trickling filter portion of the tank shall have fiberglass inner and outer skins with the cavity between filled with polyvinyl chloride foam insulation. The remainder of the unit shall be constructed of FRP or plastic as recommended by the equipment manufacturer. All internal piping shall be Schedule 40 PVC plastic pipe. The Bioclere unit shall withstand normal pressures from the interior hydrostatic load and from the soil. The flange of the Bioclere unit shall be factory sealed for water tightness. The design criteria are as follows:

Settled Influent Characteristics	Required Effluent
Flow, gpd =	=
BOD5, mg/l =	=
CBOD5, mg/l =	=
COD, mg/l =	=
TSS, mg/l =	=
pH, SU =	=
Ammonium, mg/l =	=
TKN, mg/l =	=
Oil & Grease, mg/l =	=
Nitrate, mg/l =	=
Total Nitrogen, mg/l =	=

B. Pre-Cast Mounting Pad

1. The contractor shall be responsible for providing a precast mounting pad upon which to set each Bioclere unit. The mounting pads shall be as shown on the drawings.

C. Filter Media

1. The PVC randomly packed filter media shall have a void ratio of greater than 95 percent. The media shall be resistant to ultraviolet radiation and resistant to a wide range of aqueous solutions, acids, alkalis, oxidizing agents, oils, fats and alcohols.

2/28/05

Section-1

J. Wiring

1. The electrical contractor shall complete the wiring between the Bioclere control panel and the terminal strip within the Bioclere fan module meeting all local, state, and federal codes. The fan shall be installed in a separate enclosure on the side of the Bioclere unit.
2. All fittings, connections, etc. shall be weatherproof and water tight construction. Ground terminals are provided in both the main panel and the junction box for each unit. Each ground terminal shall be wired to an earth ground.
3. Care shall be taken to match the wires between the control panel and the terminal strip within the Bioclere fan module located on each unit.

K. Warranty

1. All equipment provided shall be warranted against defects in materials and workmanship for a period of one year from the date of installation.

L. Spare Parts

1. A recommended list of spare parts shall be detailed in the site specific Technical Manual that details the Installation, Operation & Maintenance procedures.

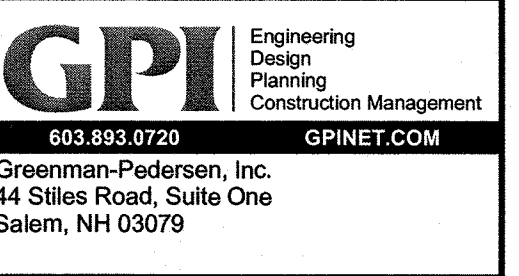
M. Services Provided

1. AQUAPOINT or an approved manufacturer's representative shall provide the following services for each project. The general contractor shall install the Bioclere unit(s) and all related components.
 - a. Provide onsite technical assistance for the handling and positioning of the Bioclere unit(s) the day of installation.
 - b. Return to the site for testing and/or commissioning of the Bioclere unit(s) upon substantial completion of site work by the general contractor (backfill, piping, electrical, grading, etc.). AQUAPOINT shall install the randomly packed PVC media and pumps into the Bioclere unit(s). AQUAPOINT shall be available to train the operator(s) and instruct the owner on Bioclere operation the day of testing/commissioning.
 - c. Remain accessible to the owner and/or operator for phone consultation.
 - d. Be available on a contract basis for additional site visits or consultation.

2/28/05

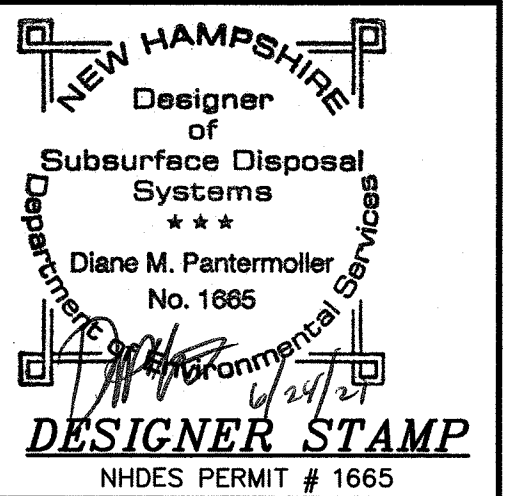
Section-1

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PREPARED FOR
 GRANITE STATE
 CONVENIENCE, LLC
 25 SPRINGER ROAD
 HOOKSETT, NH 03106

PROPOSED RETAIL MOTOR FUEL OUTLET
ASSESSORS MAP U5 LOT 13
910 SUNCOOK VALLEY HWY
EPSOM, NEW HAMPSHIRE
SUBDIVISION APPROVAL # PRE-1967



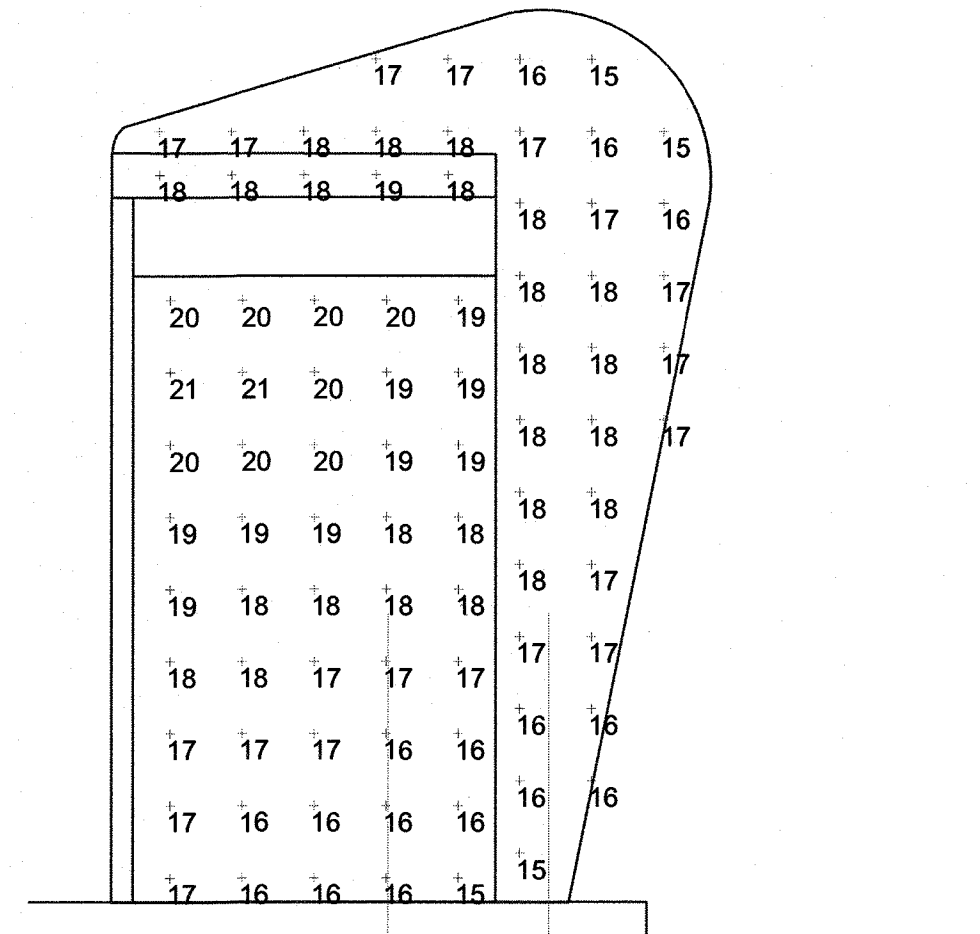
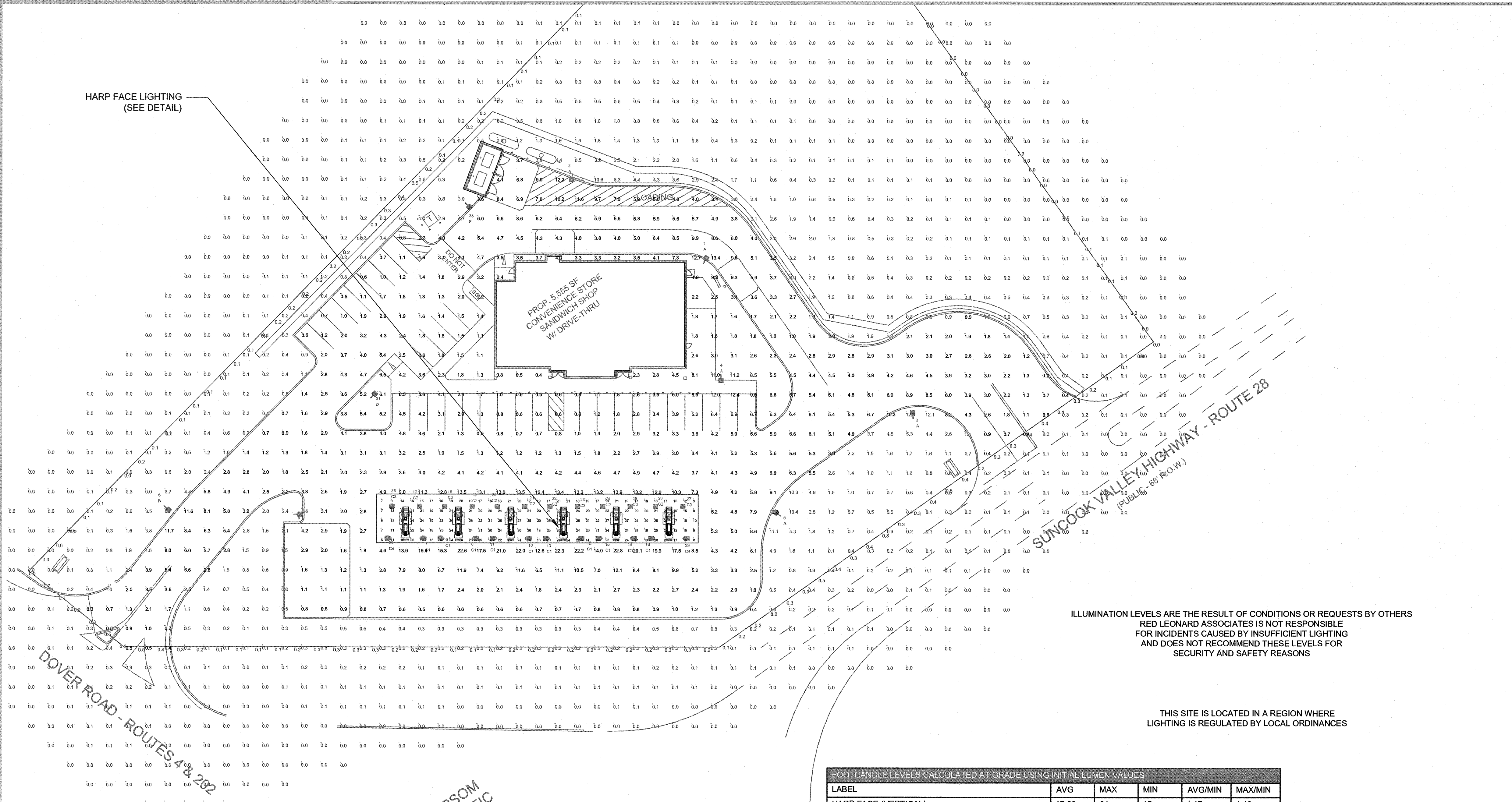
REVISIONS		
NO.	REVISION	DATE

JUNE 18, 2021
 DRAWN/DESIGN BY: DMP/DMP
 CHECKED BY: NID/DRJ

**SUBSURFACE
 SEWAGE
 DISPOSAL
 SYSTEM
 DETAILS**

SCALE: NOT TO SCALE

PROJECT NO. NEX-2020033



HARP FACE VERTICAL LIGHTING DETAIL
SCALE: 1/2" = 1'

ILLUMINATION LEVELS ARE THE RESULT OF CONDITIONS OR REQUESTS BY OTHERS
RED LEONARD ASSOCIATES IS NOT RESPONSIBLE FOR INCIDENTS CAUSED BY INSUFFICIENT LIGHTING AND DOES NOT RECOMMEND THESE LEVELS FOR SECURITY AND SAFETY REASONS

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

FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES

LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
HARP FACE (VERTICAL)	17.62	21	15	1.17	1.40
PAVED AREA	4.31	22.8	0.3	14.37	76.00
PROPERTY LINE	0.18	0.5	0.0	N.A.	N.A.
UNDEFINED	0.39	13.4	0.0	N.A.	N.A.
UNDER CANOPY	19.25	27	5	3.85	5.40

LUMINAIRE LOCATION SUMMARY

LUM. NO.	LABEL	MTG. HT.
1	A	22.5
2	A	22.5
3	A	22.5
4	A	22.5
5	A	22.5
6	B	22.5
7	C1	14.5
8	C1	14.5
9	C1	14.5
10	C1	14.5
11	C1	14.5
12	C1	14.5
13	C1	14.5
14	C1	14.5
15	C1	14.5
16	C1	14.5
17	C2	14.5
18	C2	14.5
19	C2	14.5
20	C2	14.5
21	C2	14.5
22	C2	14.5
23	C2	14.5
24	C2	14.5
25	C2	14.5
26	C2	14.5
27	C3	14.5
28	C3	14.5
29	C4	14.5
30	C4	14.5
31	D	22.5
32	E	22.5
33	F	22.5

NOTE:
- ALL AREA LIGHTS ON NEW 20 FT. POLE MOUNTED ON 2-1/2 FT. CONCRETE BASE

LUMINAIRE SCHEDULE

SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LATF	DIMMING LUMEN MULTIPLIER	LLF	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	CATALOG LOGIC
	5	A	SINGLE	29100	1.030	1.000	1.030	B3-U0-G4	202	1010	Cree Lighting	OSQ-ML-B-DA-XX + OSQ-B-30L-57K7-3M-UL-NM-XX
	1	B	SINGLE	22998	1.030	1.000	1.030	B3-U0-G3	202	202	Cree Inc	OSA-ML-B-DA-XX + OSQ-B-30L-57K7-3M-UL-NM-XX + OSQ-BLSLF
	10	C1	SINGLE	12862	1.030	0.560	0.577	B2-U1-G1	60.75	607.5	RUUD LIGHTING, INC., A CR	CAN-304-AF-RS-06-E-UL-XX-700-57K-DIM (DIMMING SET TO 3.9 V)
	10	C2	SINGLE	13251	1.030	1.000	0.412	B3-U0-G1	41.9	419	CREE, INC.	CAN-304-SL-RS-06-E-UL-XX-700-57K-DIM (DIMMING SET TO 2.8 V)
	2	C3	SINGLE	13251	1.030	1.000	0.237	B3-U0-G1	24.3	48.6	CREE, INC.	CAN-304-SL-RS-06-E-UL-XX-700-57K-DIM (DIMMING SET TO 1.7 V)
	2	C4	SINGLE	12862	1.030	1.000	0.288	B2-U1-G1	28.4	56.8	RUUD LIGHTING, INC., A CR	CAN-304-AF-RS-06-E-UL-XX-700-57K-DIM (DIMMING SET TO 1.9 V)
	1	D	SINGLE	22098	1.030	1.000	1.030	B3-U0-G3	132	132	Cree Inc	OSQ-ML-B-DA-XX + OSQ-B-22L-57K7-4M-UL-NM-XX
	1	E	SINGLE	9600	1.030	1.000	1.030	B2-U0-G2	72	72	Cree Lighting	OSQ-ML-B-DA-XX + OSQ-M-B-11L-50K9-3M-UL-NM-XX
	1	F	SINGLE	12349	1.030	1.000	1.030	B2-U0-G2	104	104	Cree Inc	OSQ-ML-B-DA-XX + OSQ-M-B-16L-57K7-4M-UL-NM-XX + OSQ-BLSMF



REV.	BY	DATE	DESCRIPTION
R1	JSG	6/4/21	ADJUST AREA LIGHTING LOCATIONS PER MARK UP
R2	JSG	6/14/21	CHANGE AREA LIGHTING TO CREE

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SCALE: 1" = 30'
LAYOUT BY: JSG
DWG SIZE: D
DATE: 5/27/21

PROJECT NAME:
IRVING OIL GRANITE STATE C-STORE
DRAWING NUMBER:
RL-7405-S1-R2



