

M:/7000\7200\7283 Brown Lot Investigation\Drawings\CLA-7283 - Planned Residential Development - Sheet 00 Cover,

SITE IMPROVEMENT PLAN NORTH WOODS VILLAGE PLANNED RESIDENTIAL DEVELOPMENT 25 COLONIAL DRIVE KILLINGLY, CONNECTICUT

PREPARED FOR CANTERBURY HOLDINGS, LLC 18 GAVIN WAY LISBON, CONNECTICUT 06351

DRAW

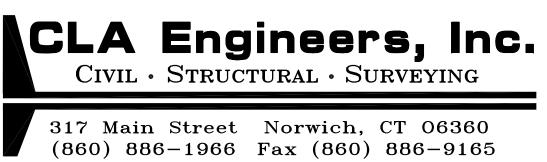
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Revissed: September 7, 2023 July 7, 2023



INDEX TO DRAWINGS

VING NO.	DESCRIPTION OF DRAWINGS
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12	Erosion & Sedimentation Control and Stormwater Management Plan
13	Erosion & Sedimentation Control and Stormwater Management Details
14-17	Construction Details

LEGEND TO DRAWINGS

EXISTING		PROPOSED
	PROPERTY LINE	
	BUILDING SETBACK LINE	
====	CATCH BASIN & CULVERT	
W	WATER	W
S	SEWER	S
FM	SEWER FORCE MAIN	
G	GAS	
<u> </u>	CONTOUR	126
124.2 _X	SPOT ELEVATION	124.2 _X
Ø	UTILITY POLE	
———— E ————	ELECTRIC	Е
T	TELEPHONE	
	ELECTRIC & TELECOM.	ETC
	SILT FENCE	SF
XX	FENCE	<u>\$</u> \$
^	RETAINING WALL	
	STONE WALL	
TH3	TEST HOLE	
	TREE/SHRUB LINE	



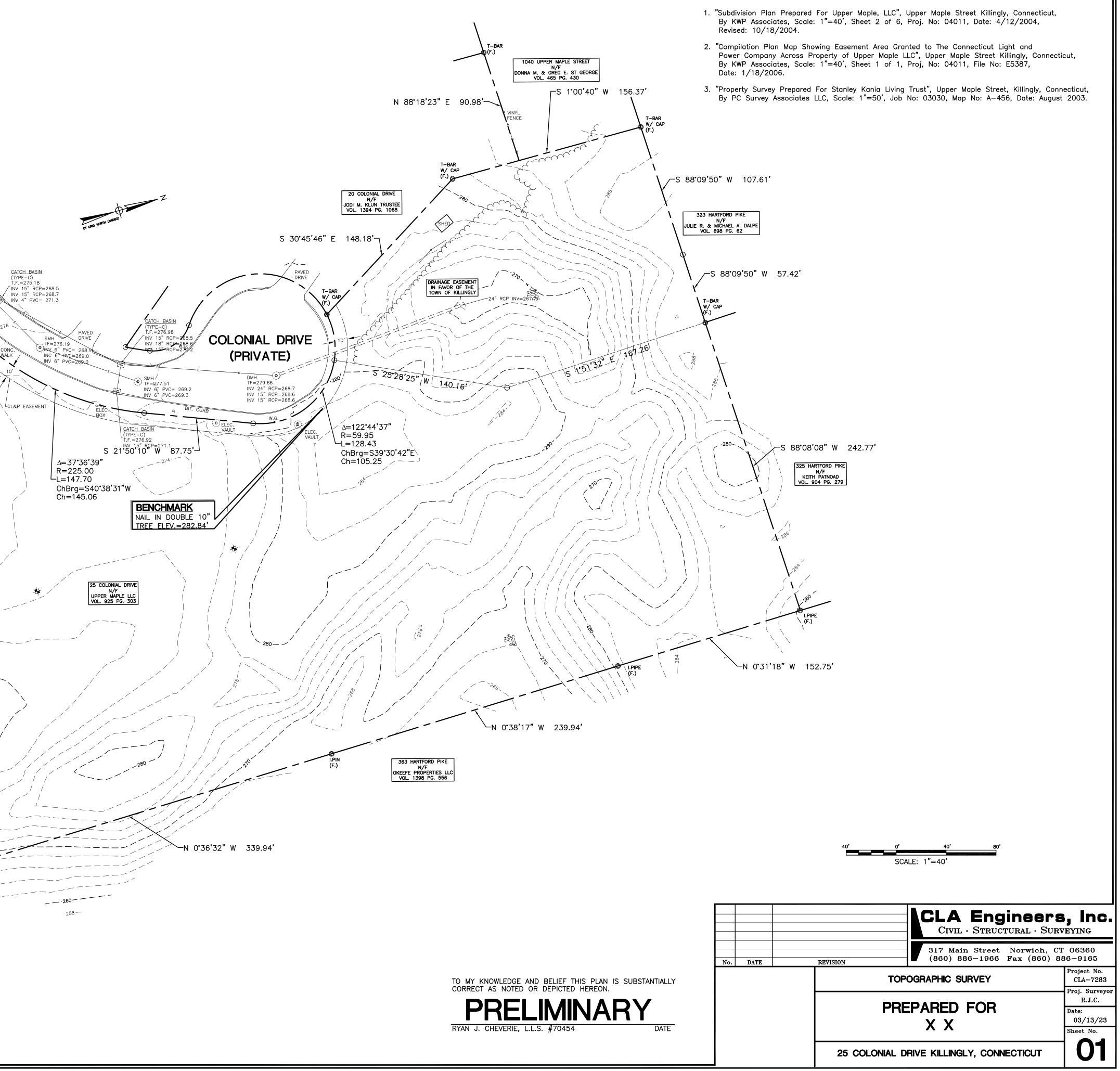
1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS FOR STATE AGENCIES "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC.

- A. TYPE OF SURVEY: BOUNDARY AND TOPOGRAPHIC SURVEY B. BOUNDARY DETERMINATION CATEGORY: RESURVEY
- C. HORIZONTAL ACCURACY: A-2
- VERTICAL ACCURACY: V-2 TOPOGRAPHIC ACCURACY: T-2
- D. INTENT: TO DEPICT EXISTING CONDITIONS OF THE SITE AT 25 COLONIAL DRIVE.

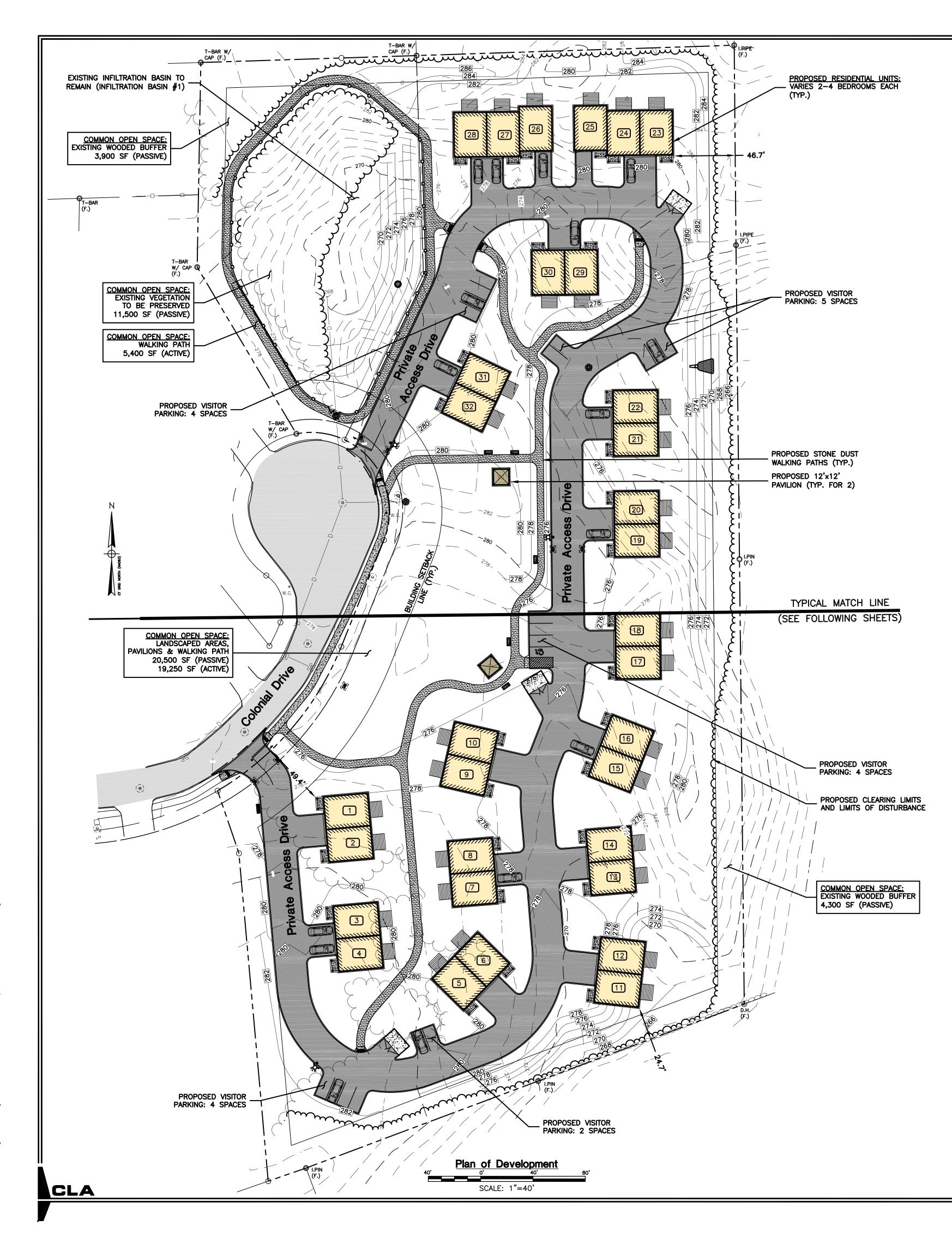
2. DATE OF LATEST FIELD WORK MARCH 2023.

- 3. HORIZONTAL ORIENTATION (CT NAD83) BASED ON FIELD GPS OBSERVATIONS.
- 4. VERTICAL DATUM (NAVD88) BASED ON FIELD GPS OBSERVATIONS.
- 5. THE SUBJECT PARCEL IS SUBJECT TO A 10' EASEMENT IN FAVOR OF THE CONNECTICUT LIGHT AND POWER COMPANY.
- 6. THE SUBJECT PARCEL IS SUBJECT TO A DRAINAGE EASEMENT IN FAVOR OF THE TOWN OF KILLINGLY.
- 7. THIS MAP AND SURVEY ARE ONLY VALID IF THE PRINT OR MYLAR CONTAINS THE SEAL AND LIVE SIGNATURE OF THE SURVEYOR.
- UNDERGROUND ELEC. AREA\ 8 SMH TF=275.36 INV 6" PVC=268.4 INV 6" PVC=268.5 INV 6" PVC=268.6 S 18°47'11" E 50.52'− 11 COLONIAL DRIVE N/F MIMOZA & SHEME FERRAJ VOL. 1117 PG. 151 S 5.06'30" E 251.49'-1002 UPPER MAPLE STREET N/F SANDRA L. & SAMUEL A. DEFILIPPO VOL. 1061 PG. 277 N 70°49'49" E 30.58'-N 69°27'34" E 189.36'-34 RAYMOND ROAD N/F BARBARA A. & THOMAS D. WEAVER VOL. 323 PG. 30 N 69'31'23" E 168.15'-

CLA







ZONING COMPLIANCE TABLE

Zone: Low Density Residential (LD)							
ITEM	REQUIRED	PROVIDED					
LOT AREA	30,000 S.F.	±286,131 S.F.					
FRONTAGE	100 FT.	363 FT.					
FRONT YARD SETBACK	40 FT.	49.4 FT.					
SIDE YARD SETBACK	20 FT.	24.7 FT.					
REAR YARD SETBACK	20 FT.	54.8 FT.					
BUILDING HEIGHT	35 FT.	35 FT.					
LOT COVERAGE	30%	28%					
COMMON OPEN SPACE	20%	22.7%					
WATER SUPPLY	MUNICIPAL	MUNICIPAL					
SEWAGE DISPOSAL	MUNICIPAL	MUNICIPAL					
DENSITY CALCULATION:							

MAXIMUM 5 DWELLING UNITS PER ACRE 6.57 AC. x 5 UNITS/AC. = 32.8 DWELLING UNITS MAXIMUM 32 DWELLING UNITS PROPOSED

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LOT AREA: 286,131 S.F. COMMON OPEN SPACE = 64,850 S.F. / 286,131 S.F. = 22
PERCENTAGE OF OPEN SPACE DESIGNATED ACTIVE 24,650 S.F. / 64,850 S.F. = 38.0%

PARKING COUNT

USE	QTY	UNIT	REQUIRED	SPACES
INDEPENDENT RESIDENTIAL LIVING	32	DWELLING	2.3 / DWELLING	73.6
		SPA	CES REQUIRED :	74
SPACES PROVIDED AT EA	ACH UNIT	(1 GARAGE &	& 1 DRIVEWAY) :	64
		VISITOR PARI	KING PROVIDED :	19
	TOTAL	PARKING SPA	ACES PROVIDED :	83

ELECTRIC VEHICLE CHARGING SHALL BE PROVIDED WITHIN THE RESIDENTIAL GARAGES IN ACCORDANCE WITH STATE OF CONNECTICUT STATUTES

PROPOSED DEVELOPMENT

THE PROPOSED DEVELOPMENT INCLUDES THE CONSTRUCTION OF A 32 UNIT PLANNED RESIDENTIAL DEVELOPMENT (INDEPENDENT RESIDENTIAL LIVING) INCLUDING PRIVATE ACCESS DRIVES, UTILITIES, STORMWATER INFRASTRUCTURE, WITH ACTIVE AND PASSIVE OPEN SPACE AREAS. THE SITE WILL BE REGRADED AND IMPROVED AS SHOWN ON THE SITE DEVELOPMENT PLANS TO ACCOMMODATE THE PROPOSED USE. THE PROPOSED DEVELOPMENT WILL DISTURB APPROXIMATELY 5.8 ACRES.

- 1. NO PORTION OF THE SITE LIES WITHIN A 100-YEAR FLOOD PLAIN.
- (FIRM MAP #090136 0004 B, EFFECTIVE JANUARY 3, 1985) THERE ARE NO INLAND WETLANDS LOCATED ONSITE.
- NO PORTION OF THE LOT LIES WITHIN A CT DEEP NATURAL DIVERSITY DATABASE AREA. NO PORTION OF THE LOT LIES WITHIN THE COASTAL RESOURCE MANAGEMENT BOUNDARY.
- NO PORTION OF THE LOT LIES WITHIN THE AQUIFER PROTECTION, FLOOD HAZARD, 5. ALEXANDER LAKE, OR FIVE MILE RIVER OVERLAY DISTRICTS.
- THE DEVELOPMENT WILL CONNECT TO THE MUNICIPAL SEWER SYSTEM. 7. THE DEVELOPMENT WILL BE SERVED BY THE MUNICIPAL WATER SYSTEM.

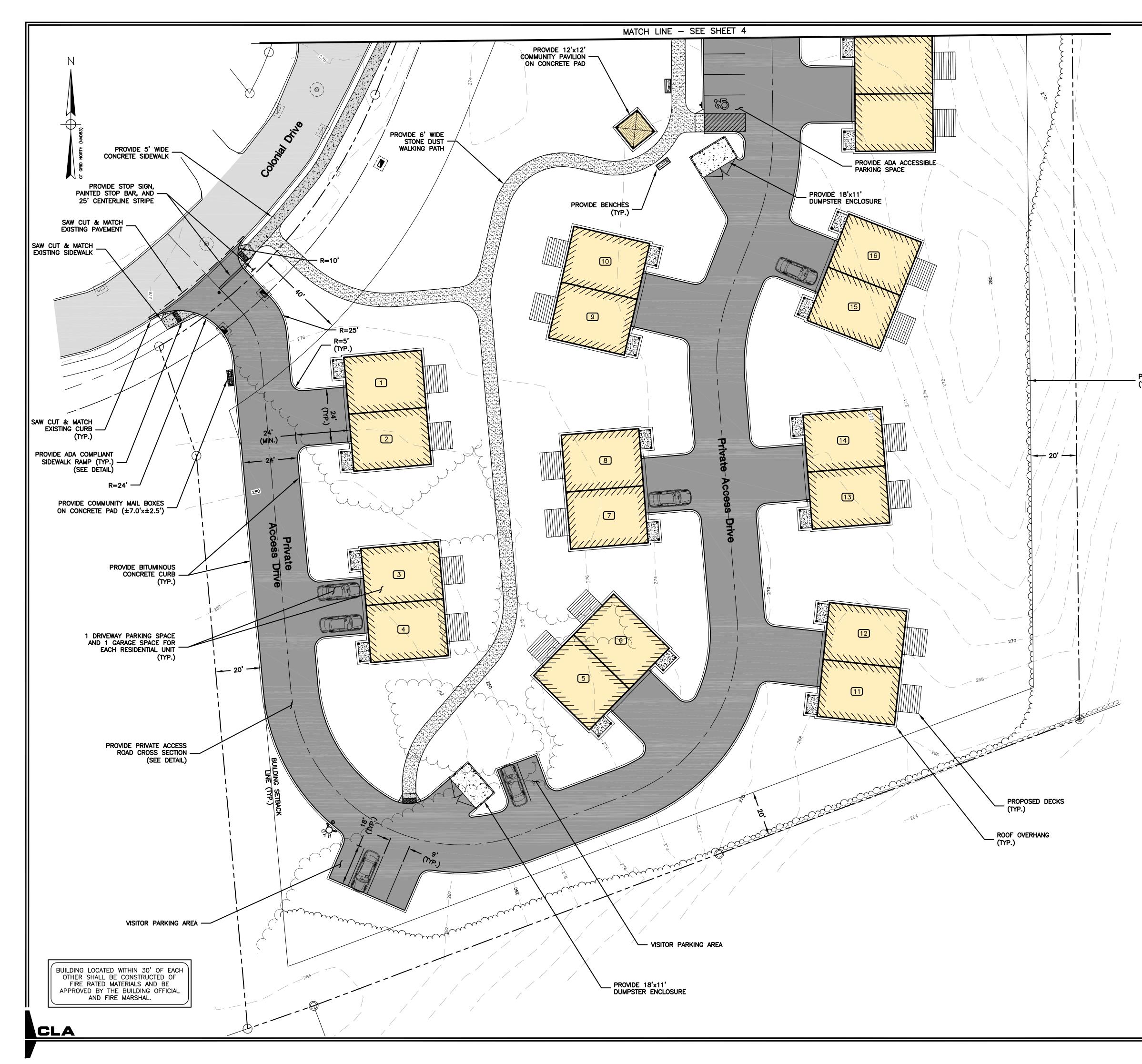
GENERAL NOTES

- TOPOGRAPHY WAS ESTABLISHED BY CLA ENGINEERS, INC.
- THE SITE WAS REVIEWED FOR THE PRESENCE OF INLAND WETLANDS BY ROBERT RUSSO OF CLA ENGINEERS, INC. NO INLAND WETLANDS ARE LOCATED ONSITE. 3. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 811 AT LEAST 2 FULL WORKING
- DAYS PRIOR TO THE START OF CONSTRUCTION. 4. INFORMATION SHOWN ON THE DRAWINGS RELATING TO MATERIALS, CONDITIONS, AND/OR
- LOCATIONS OF EXISTING STRUCTURES AND UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING FIELD SURVEY, UTILITY COMPANY AND TOWN RECORD MAPS AND DRAWINGS, AND IS NOT GUARANTEED ACCURATE OR COMPLETE. THE CONTRACTOR SHALL EXCAVATE TEST PITS AS NEEDED OR AS DIRECTED BY THE OWNER
- 5. TO VERIFY UTILITY INFORMATION PRIOR TO THE START OF CONSTRUCTION. MAINTENANCE AND PROTECTION OF TRAFFIC: A. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL MAINTENANCE AND 6.
 - PROTECTION OF TRAFFIC, TRAFFIC CONTROL, TEMPORARY SIGNING OR BARRICADES, AND TEMPORARY LANE CLOSURES AS NEEDED. CONTINUOUS ACCESS FOR BUSES AND EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
 - B. PASSAGE OF TRAFFIC ON ROADWAYS: A MINIMUM OF ONE LANE FOR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL PERFORM HIS OPERATIONS TO MINIMIZE DISRUPTIONS TO TRAFFIC WITHIN AND AROUND THE PROJECT SITE.
 - C. RESIDENTS OR BUSINESSES WITH DRIVES AFFECTED BY CONSTRUCTION SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS BEFORE CONSTRUCTION BEGINS AND SHALL BE ALLOWED CONTINUOUS ACCESS TO THEIR PROPERTY. IF WORK IS PERFORMED DURING THE SCHOOL YEAR, THE CONTRACTOR SHALL PROVIDE NOTICE TO THE BUS COMPANIES (PUBLIC & PRIVATE) AT LEAST 48 HOURS BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL PHASE HIS CONSTRUCTION OPERATIONS AS NEEDED TO ALLOW CONTINUOUS ACCESS TO ALL BUSINESSES WITHIN
- THE PROJECT AREA. D. TEMPORARY MODIFICATIONS TO TRAFFIC PATTERNS ON PUBLIC ROADWAYS SHALL CONFORM TO THE REQUIREMENTS OF CTDOT AND THE "MANUAL ON UNIFORM TRAFFIC
- CONTROL DEVICES (MUTCD)" E. CONSTRUCTION SIGNS MUST CONFORM TO THE SIGNING REQUIREMENTS OUTLINED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)". ALL SIGN FACES
- SHALL BE REFLECTORIZED. 7. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE STREET LINES, EASEMENTS AND PROPERTY AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT, ROADWAY, SIDEWALKS, ETC., OUTSIDE OF THE WORK AREA AND SHALL REPAIR SUCH DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY AND PERMANENT 8. SUPPORT OF ALL EXISTING UTILITY POLES IN AN ADJACENT TO THE CONSTRUCTION AREA AND SHALL COMPLY WITH ALL THE REQUIREMENTS AND SPECIAL DETAILS FOR THE SUPPORT OF UTILITIES REQUIRED BY UTILITY AGENCIES. ALL COSTS FOR TEMPORARILY SUPPORTING UTILITY POLES DURING CONSTRUCTION SHALL BE INCLUDED IN OTHER ITEMS.
- MATERIAL STOCKPILE AND STAGING AREAS: THE CONTRACTOR SHALL UTILIZE THE STOCKPILE, 9. MATERIAL STORAGE AND EQUIPMENT STORAGE AREAS SHOWN ON THE PLANS. THE CONTRACTOR MAY ADJUST THE EXACT LOCATIONS IN THE FIELD AS NEED; IN NO CASE MAY THESE AREAS BE LOCATED CLOSER TO THE WETLANDS EDGE THAN SHOWN ON THE PLANS. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL IDENTIFY THESE AREAS AND PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED. 10. BLASTING SHALL NOT BE PERFORMED.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING TO GRADE ALL FRAMES, GRATES, COVERS, VALVE BOXES, ACCESS COVERS, AND ALL OTHER ITEMS WHICH NORMALLY MUST HAVE A FIXED RELATION TO FINISHED GRADE.
- 12. ALL WORK TO CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 818, DATED JANUARY 2023, AS REVISED.

				CIVIL · STRUCTURAL · SURV	
1 No.	9/7/2023 DATE	Develor	oment Reconfiguration REVISION	317 Main Street Norwich, CT (860) 886-1966 Fax (860) 88	
				25 Colonial Drive y, Connecticut 06241	Project No. CLA-7283
			Site Im	provement Plan h Woods Village	Proj. Engineer K.J.H. Date: 7/7/2023
			Planned R	esidential Development	Sheet No.
			Pla	n of Development	2

40,200 S.F.

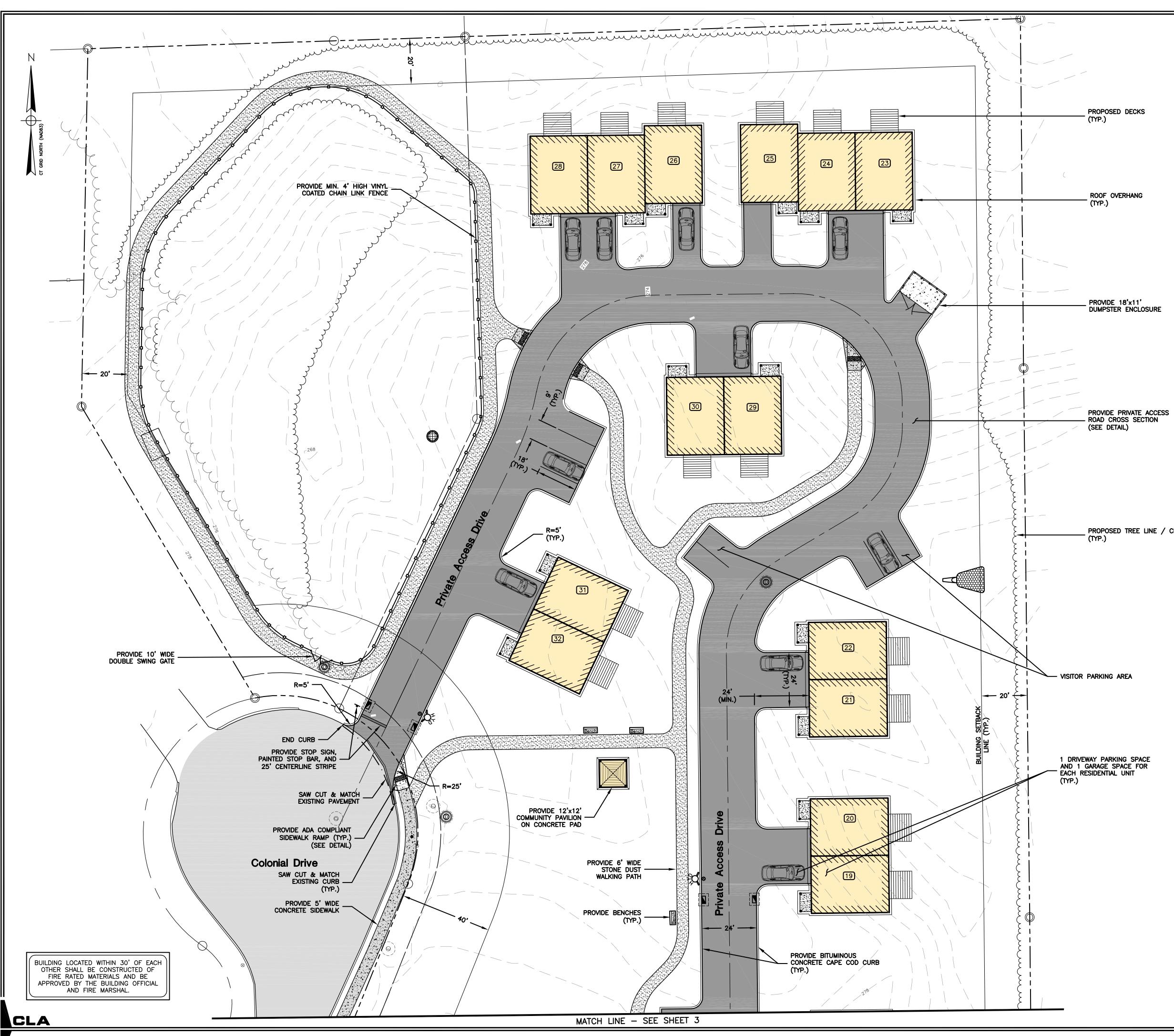
22.7%



PROPOSED TREE LINE / CLEARING LIMITS (TYP.)

, <u>Site Plan</u>

				CLA Engineers CIVIL · STRUCTURAL · SURV	
1 No.	9/7/2023 DATE	Develo	pment Reconfiguration REVISION	317 Main Street Norwich, CT (860) 886-1966 Fax (860) 88	
				5 Colonial Drive 7, Connecticut 06241	Project No. CLA-7283
			Site Imp	provement Plan	Proj. Engineer K.J.H. Date:
				Woods Village sidential Development	7/7/2023 Sheet No.
				Site Plan	3



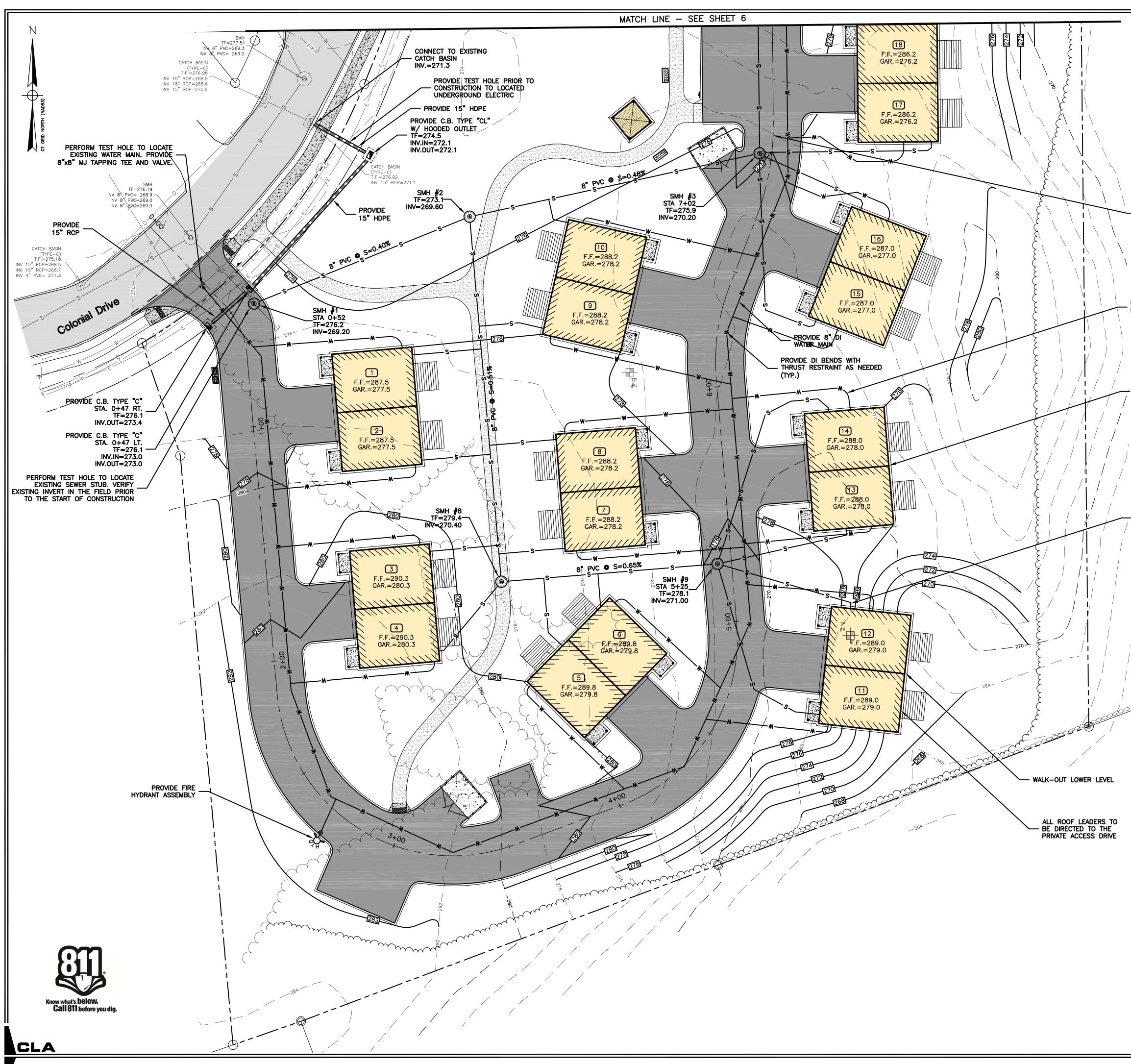
PROPOSED DECKS (TYP.)

ROOF OVERHANG (TYP.)

PROVIDE 18'x11' DUMPSTER ENCLOSURE

PROPOSED TREE LINE / CLEARING LIMITS (TYP.)

				CIVIL · STRUCTURAL · SURV	/EYING
1 No.	9/7/2023 DATE	Developm	ent Reconfiguration REVISION	- 317 Main Street Norwich, CT (860) 886-1966 Fax (860) 88	
110.	DATE		2	25 Colonial Drive 1y, Connecticut 06241	Project No. CLA-7283
		F		provement Plan	Proj. Engineer K.J.H.
			Nort	h Woods Village	Date: 7/7/2023
			Planned R	esidential Development	Sheet No.
		Γ		Site Plan	4



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TEST PITS WITNESSED BY CLA ENGINEERS ON 4/27/2023

<u>TP #4</u>	
0–18"	TOPSC

0–18" TOPSOIL, DARK BROWN FINE SANDY LOAM 18–34" SAND WITH SOME FINES 34–78" FINE SAND 78–96" MEDIUM SAND WITH SOME GRAVEL

NO WATER NO MOTTLING NO LEDGE

<u>TP **#**5</u>

0-12"	TOPSOIL, DARK BROWN FINE SANDY LOAM
	BROWN COARSE SAND WITH GRAVEL
24–75 "	GRAY SANDY GRAVEL WITH COBBLES

75-98" LIGHT GRAY COARSE SAND AND GRAVEL

NO WATER NO MOTTLING NO LEDGE

SEE SHEETS 7-9 FOR CENTERLINE HORIZONTAL AND VERTICAL ALIGNMENTS (TYP.)

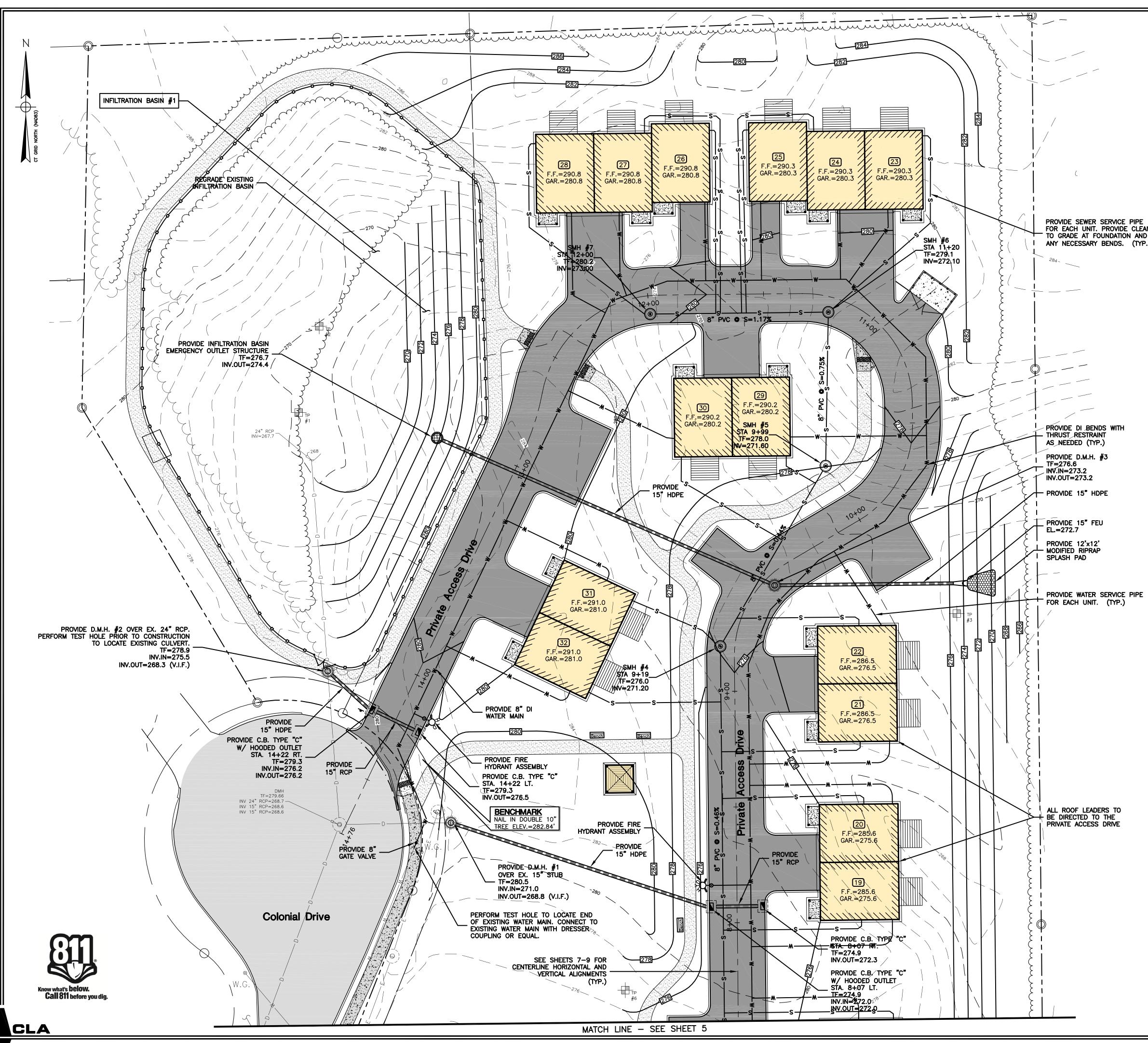
PROVIDE WATER SERVICE PIPE FOR EACH UNIT. (TYP.)

ALL ROOF LEADERS TO BE DIRECTED TO THE / PRIVATE ACCESS DRIVE

PROVIDE SEWER SERVICE PIPE FOR EACH UNIT. PROVIDE CLEAN-OUTS TO GRADE AT FOUNDATION AND AT ANY NECESSARY BENDS. (TYP.)

Grading, Drainage, and Utility Plan

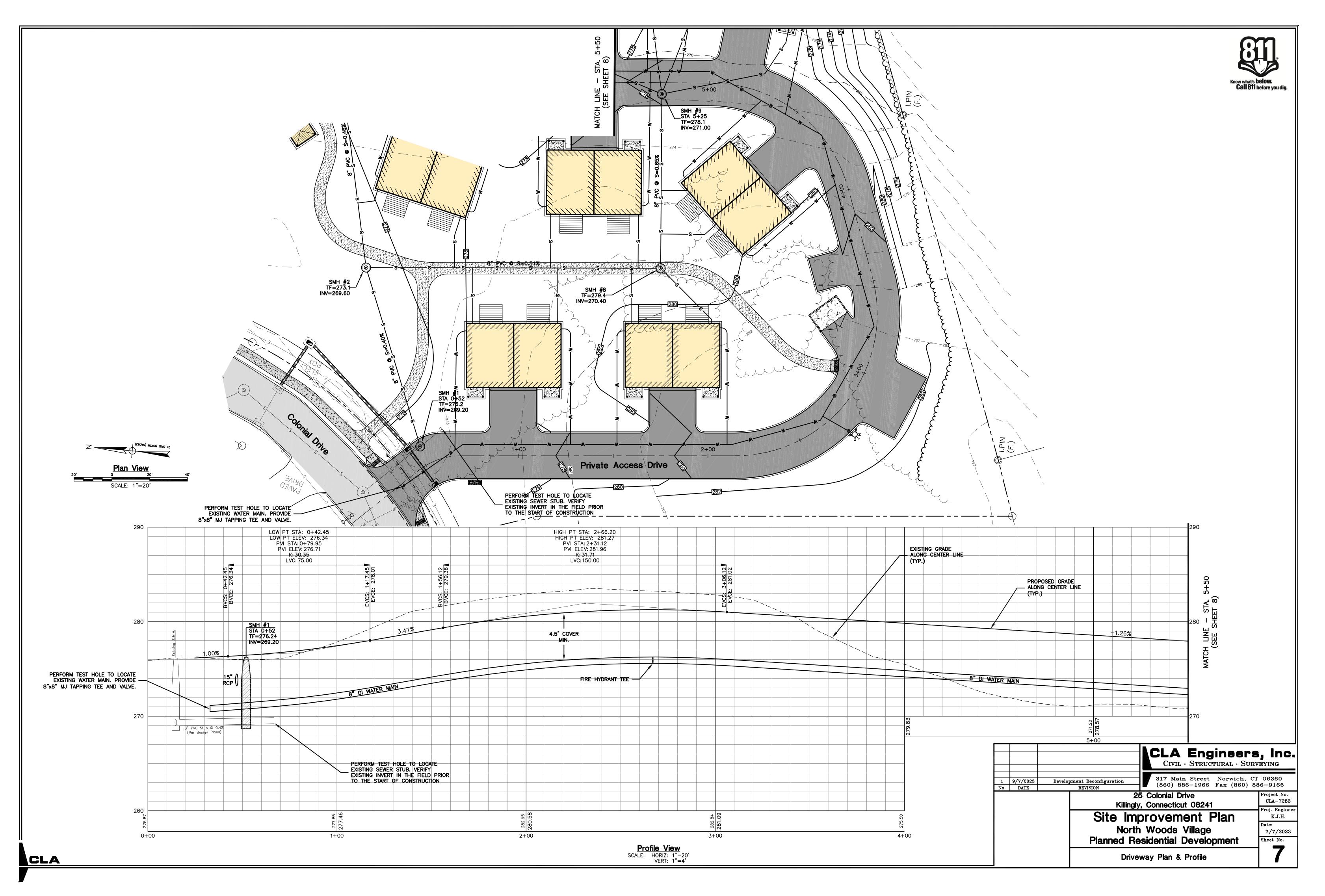
1 No.	9/7/2023 DATE	Develop	oment Reconfiguration REVISION	CIVIL · STRUCTURAL · SURV 317 Main Street Norwich, CT (860) 886-1966 Fax (860) 88	VEYING	
			Killingl	25 Colonial Drive y, Connecticut 06241 provement Plan	Project No. CLA-7283 Proj. Engineer K.J.H.	
	North Woods Village Planned Residential Development					
			Grading, I	Drainage, and Utility Plan	5	



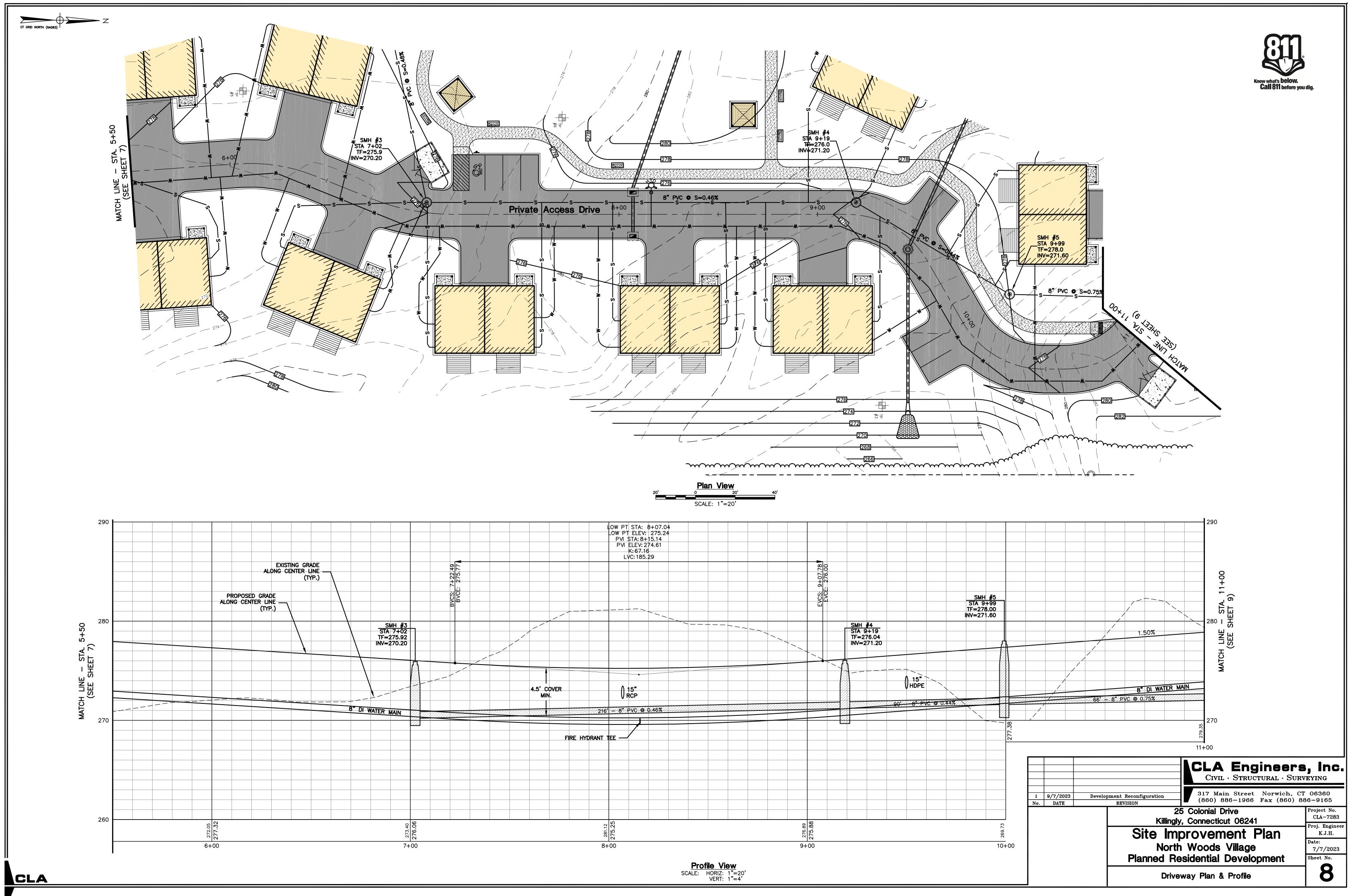
•	TEST P	IT LOGS
	TEST PITS	S WITNESSED BY CLA ENGINEERS ON 4/27/2023
	13–21"	TOPSOIL, DARK BROWN FINE SANDY LOAM DARK BROWN GRAVELLY SAND GRAY BROWN COARSE SAND AND GRAVEL w/ COBBLES
	NO WATEF NO MOTTL NO LEDGE	lNG
	28–52"	TOPSOIL, DARK BROWN FINE SANDY LOAM BROWN COARSE SAND WITH GRAVEL, TRACE FINES BROWN GRAVEL AND SAND WITH COBBLES, FEW STONES
	NO WATEF NO MOTTL NO LEDGE	LING
E EAN—OUTS ND AT 'P.)	6–36" 36–58"	TOPSOIL, DARK BROWN FINE SANDY LOAM BROWN MEDIUM SAND COARSE SAND WITH GRAVEL GRAVEL AND COARSE SAND
	NO WATEF NO MOTTL NO LEDGE	LING
	9–28" 28–48" 48–57"	TOPSOIL, DARK BROWN FINE SANDY LOAM BROWN MEDIUM SAND GRAY COARSE SANDY GRAVEL GRAY FINE SAND GRAVEL AND COARSE SAND, COMPACT
	NO WATEF MOTTLING NO LEDGE	AT 57"

Grading, Drainage, and Utility Plan

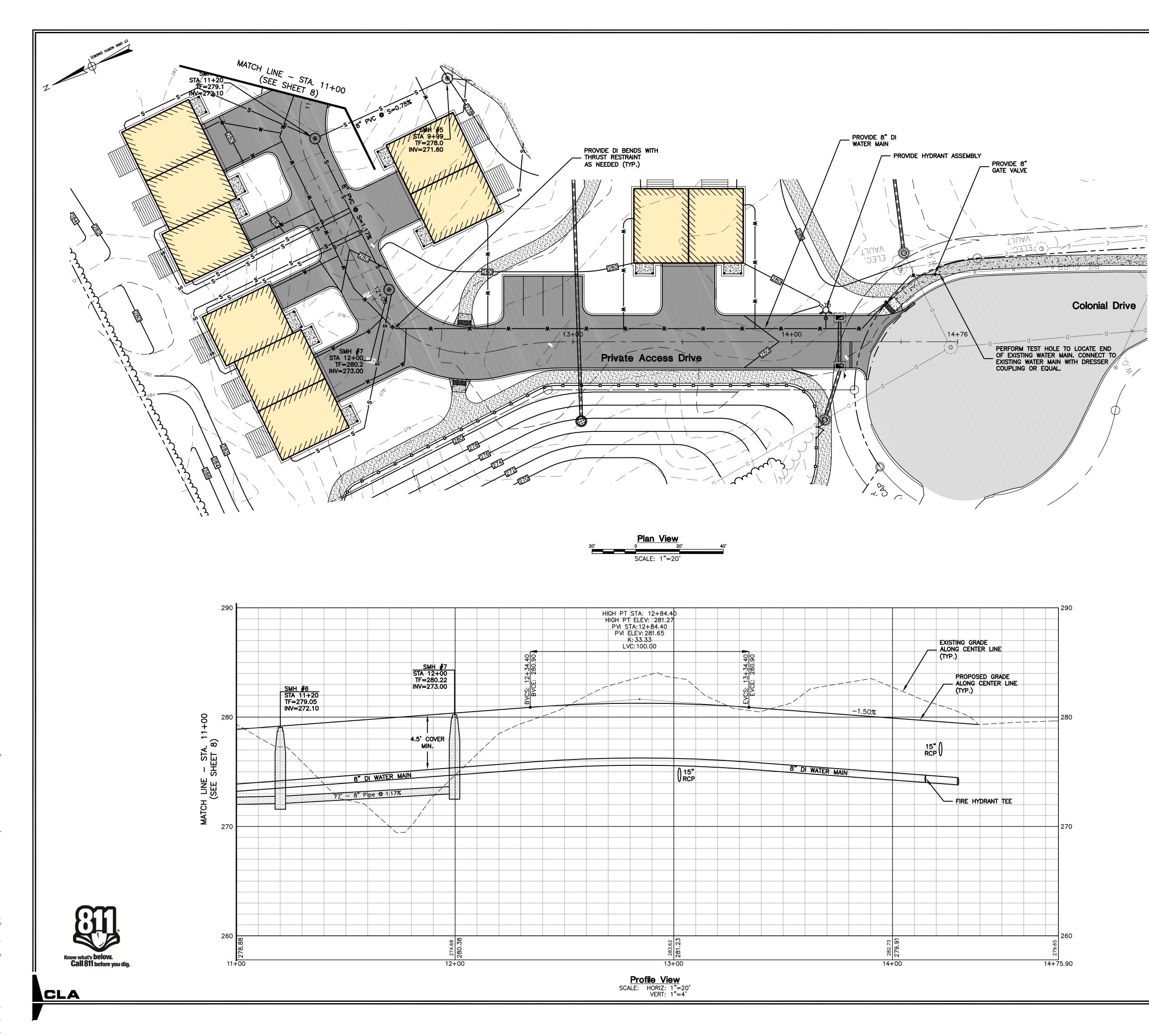
1 No.	9/7/2023 DATE	Develo	pment Reconfiguration REVISION	317 Main Street Norwich, CT (860) 886-1966 Fax (860) 8	
				25 Colonial Drive ly, Connecticut 06241	Project No. CLA-7283 Proj. Engineer
	Site Improvement Plan North Woods Village Planned Residential Development				
	Grading, Drainage, and Utility Plan 6				



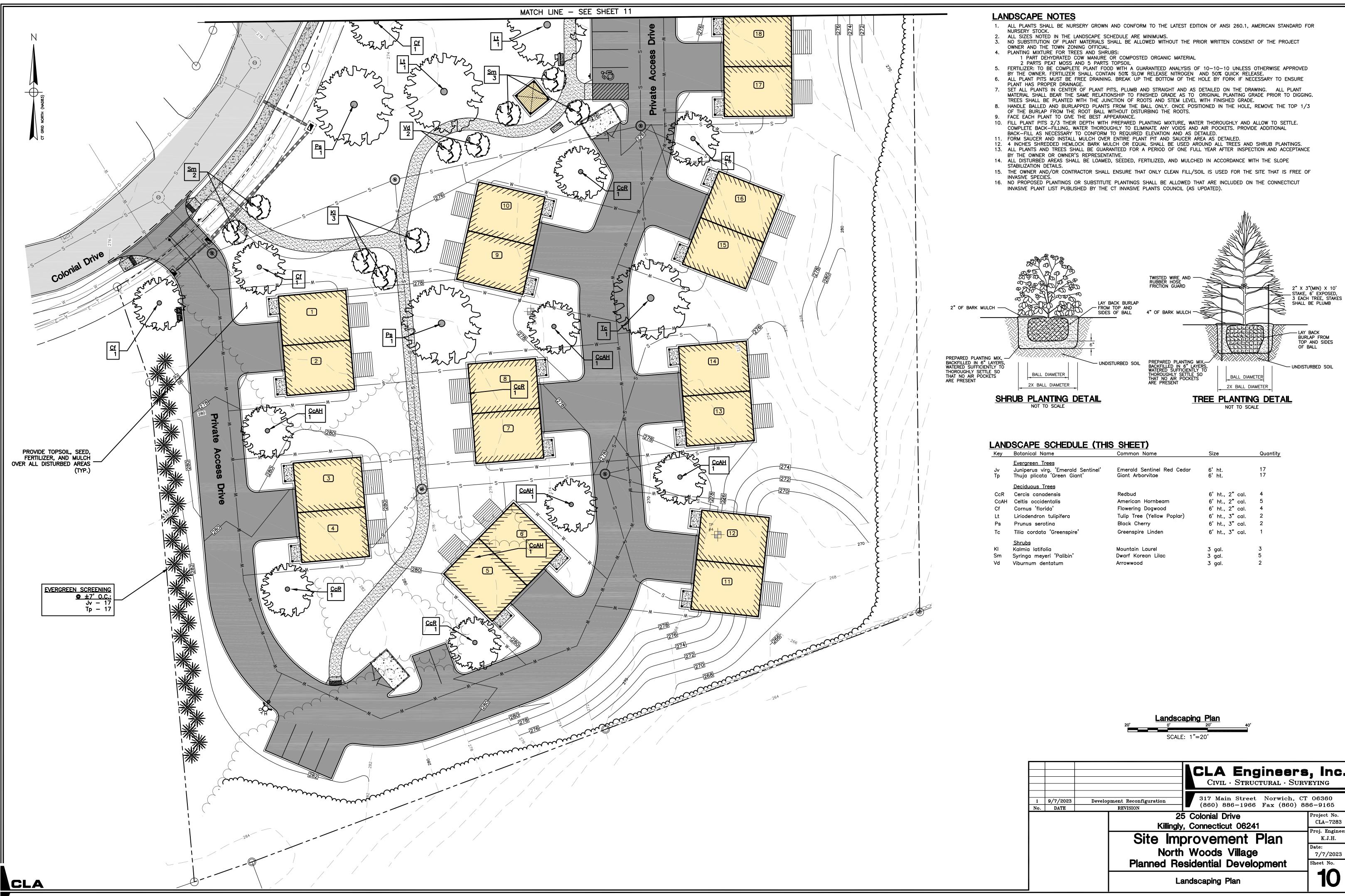
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				CIVIL · STRUCTURAL · SUR 317 Main Street Norwich, C	VEYING
1 No.	9/7/2023 DATE	Develop	pment Reconfiguration REVISION	(860) 886-1966 Fax (860) 8	
			2	5 Colonial Drive 7, Connecticut 06241	Project No. CLA-7283
				provement Plan	Proj. Engineer K.J.H.
				Woods Village	Date: 7/7/2023
			Planned Re	esidential Development	Sheet No.
	Driveway Plan & Profile 9				9



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Jv Tp	<u>Evergreen Trees</u> Juniperus virg. 'Emerald Sentinel' Thuja plicata 'Green Giant'	Emerald Sentinel Red Cedar Giant Arborvitae	6'ht. 6'ht.	17 17
	<u>Deciduous Trees</u>			
CcR	Cercis canadensis	Redbud	6'ht., 2" cal.	4
CcAH	Celtis occidentalis	American Hornbeam	6'ht., 2" cal.	5
Cf	Cornus 'florida'	Flowering Dogwood	6'ht., 2" cal.	4
Lt	Liriodendron tulipifera	Tulip Tree (Yellow Poplar)	6'ht., 3" cal.	2
Ps	Prunus serotina	Black Cherry	6'ht., 3" cal.	2
Тс	Tilia cordata 'Greenspire'	Greenspire Linden	6'ht., 3" cal.	1
	Shrubs			
KI	Kalmia latifolia	Mountain Laurel	3 gal.	3
Sm	Syringa meyeri 'Palibin'	Dwarf Korean Lilac	3 gal.	5
Vd	Viburnum dentatum	Arrowwood	3 gal.	2

				CIVIL · STRUCTURAL · SUR	
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				25 Colonial Drive gly, Connecticut 06241	Project No. CLA-7283 Proj. Engineer
			Nor	nprovement Plan th Woods Village Residential Development	K.J.H. Date: 7/7/2023 Sheet No.
				Landscaping Plan	10

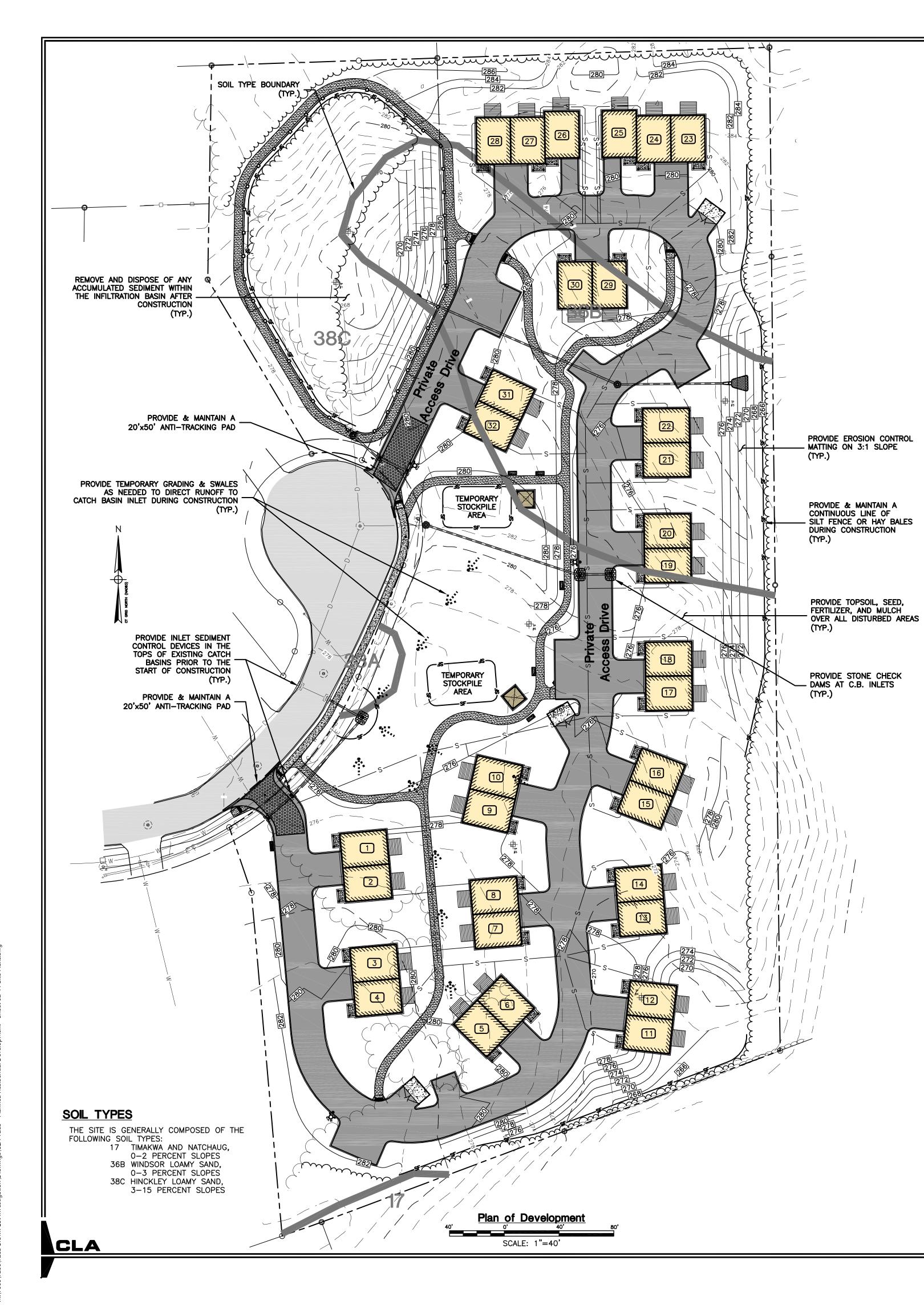


LANDSCAPESCHEDULE(THISSHEET)KeyBotanicalNameCommonName

Key	Botanical Name	Common Name	Size	Quantity
	<u>Deciduous Trees</u>			
CcR	Cercis canadensis	Redbud	6'ht., 2" cal.	5
CcAH	Celtis occidentalis	American Hornbeam	6'ht., 2" cal.	4
Cf	Cornus 'florida'	Flowering Dogwood	6' ht., 2" cal.	3
Lt	Liriodendron tulipifera	Tulip Tree (Yellow Poplar)	6' ht., 3" cal.	1
Ps	Prunus serotina	Black Cherry	6'ht., 3" cal.	1
Tc	Tilia cordata 'Greenspire'	Greenspire Linden	6'ht., 3" cal.	2
	Shrubs			
KI	Kalmia latifolia	Mountain Laurel	3 gal.	4
Sm	Syringa meyeri 'Palibin'	Dwarf Korean Lilac	3 gal.	3
Vd	Viburnum dentatum	Arrowwood	3 gal.	5

Landscaping Plan

					/ETING
1 No.	9/7/2023 DATE	Develoj	oment Reconfiguration REVISION	317 Main Street Norwich, CT (860) 886-1966 Fax (860) 88	
				25 Colonial Drive ly, Connecticut 06241	Project No. CLA-7283
				provement Plan	Proj. Engineer K.J.H.
			Nort	h Woods Village	Date: 7/7/2023
			Planned R	esidential Development	Sheet No.
Landscaping Plan				11	



EROSION & SEDIMENTATION CONTROL NARRATIVE

- 1. THE EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS HAVE BEEN DEVELOPED AS TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THI BASED ON THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONT THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH TH CONNECTICUT DEP.
- 2. THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN PLANS. THE CONTRACTOR SHALL PROVIDED SILT FENCE, STONE CHECK DAMS AND/OR O EROSION CONTROL MEASURES AS NEEDED OR DIRECTED BY THE ENGINEER OR TOWN STA ADEQUATELY PREVENT SEDIMENT TRANSPORT.
- 3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE D
- 4. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURE DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
- 5. STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEM STOCKPILE AREAS. TEMPORARY VEGETATIVE COVER MAY BE REQUIRED (SEE NOTE).
- 6. CONTINUOUS DUST CONTROL USING WATER, CALCIUM CHLORIDE OR APPROVED EQUAL SHA PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF TRENCHES AND GRAVELED ROADWAY SURFACES.
- 7. IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER DISC SHALL BE PROVIDED AS SHOWN IN THE HAY-BALE BARRIER DEWATERING DETAIL OR ALTER METHOD PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AND TOWN S
- 8. ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PERMANI VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE HORIZ ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED PER T PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING SHALL BE P ALL DISTURBED AREAS THAT ARE SLOPED MORE THAN THREE HORIZONTAL TO ONE VERTIC
- 9. IF FINAL SEEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER 15 CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMP WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING.
- 10. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISH GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.
- 11. ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY REPA STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE RETU THE SITE. POST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE DISPOSED OF IN A APPROVED BY THE TOWN AND ENGINEER.
- 12. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETA RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE TOWN.
- 13. UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY TH CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CO DEP.
- 14. THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATION FOR PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS PRIOR T START OF CONSTRUCTION.
- 15. THE WETLANDS ENFORCEMENT OFFICER SHALL BE NOTIFIED AT LEAST 2 BUSINESS DAYS I CONSTRUCTION TO INSPECT EROSION CONTROLS.

NOTE: THE CONTRACTOR SHALL CONTINUALLY STORE THE FOLLOWING MATERIALS ONSITE DURING CONSTRUCTION TO MEET UNEXPECTED EROSION NEEDS * 100 LF OF SILT FENCE * 10 HAY BALES * 10 CY OF WOOD CHIPS OR CRUSHED STONE

STORMWATER SYSTEM OPERATIONS AND MAINTENANCE

Maintenance Schedule for Infiltration Basi	ns	Maintenance Schedule for Catch Basins		
Activity	Schedule	Activity	Schedule	
• Prior to new spring growth reaching a height of 2" (e.g., shortly after forsythia or redbud blooms), trim any material standing from the previous year close to the ground (approximately 2"). This will allow the soil to warm more quickly, which will stimulate the emergence and growth of native seedlings and reduce the likelihood of the meadow being invaded by	Second growing season	Clean out sediment from catch basin and hydrodynamic separator	 Between November 15th and December 15th (after leaf fall) During April (after snow melt) 	
 shrubs. Problem weeds should be hand pulled or spot sprayed with an approved herbicide, such as Rodeo® or Garlon® 3A. If you did not plant vines or spiny plants as part of your 		Maintenance Schedule for Parking / Driveway	v Areas	
mix, be vigilant about controlling them. These are more		Activity	Schedule	
easily pulled when they are young rather than after they have had two to three months of growth. Examples include bindweed, blackberry, multiflora rose, mile-a-minute and Japanese hops. Be equally vigilant about controlling other invasive species, such as autumn olive and Japanese knotweed.		Sweep impervious areas	 Between November 15th and December 15th (after leaf fall) During April (after snow melt) 	
• Special Circumstances If you notice a heavy infestation of ragweed or foxtail in the second growing season, trim the meadow to a height of 8". Trimming		Remove and dispose of trash and debris onsite	Daily - As needed maintenance	
 should cease by mid-September. For the basin and side slopes, inspect for invasive vegetation. Grassy weeds or persistent perennials can re-establish in these soils. Monitor and control weeds by hand pulling or spot spraying. 	Monthly			
 Inspect for damage, undercut, or eroded area Monitor for sediment accumulation 	Semi-Annual inspection			
Repair undercut or eroded areas.	As needed maintenance			
 Clean and remove debris & sediment from inlet and outlet structures Inspect and clean debris & sediment in the basin Clean and remove debris from the plunge pools Mow side slopes. Close mowing throughout the regular growing season or extensive chemical use is not conducive to water quality improvement and wildlife habitat. Spring mowed vegetation can typically remain within basins providing cover for new emerging vegetation. 	Semi-annual			

	STORMWATER MANAGEMENT & POLLUTION PREVENTION PLAN
S A STRATEGY	DURING CONSTRUCTION
HIS PLAN IS ITROL" BY	1. <u>POLLUTION PREVENTION TEAM:</u> THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE PROVISIONS OF THIS PLAN.
THE	 <u>SWEEPING:</u> IMPERVIOUS SURFACES BEYOND THE WORK SITE SHALL BE SWEPT CLEAN OF SAND, SILT AND LITTER DAILY AT THE END OF THE WORK DAY.
N ON THE	3. <u>OUTSIDE STORAGE:</u> ACCESSORIES OR EQUIPMENT STORED OUTSIDE SHALL BE COVERED OR MAINTAINED TO MINIMIZE POSSIBILITY OF
OTHER	THESE MATERIALS OR THEIR RESIDUE PASSING TO STORM WATER. 4. <u>WASHING:</u>
TAFF TO	NO WASHING OF VEHICLES, ACCESSORIES, EQUIPMENT OR APPLIANCES IN WORK SITE. 5. <u>MAINTENANCE AND INSPECTION:</u>
DISTURBANCE.	 A. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. B. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE
RES EVERY 7 NT DEPOSITS IT OF THE	HALF THE HEIGHT OF THE BARRIER. C. DAILY DUST CONTROL USING WATER, OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED SURFACES.
Y THE	6. <u>SPILLS OR ACCIDENTAL DISCHARGES:</u> A. COMPLY WITH STATE AND FEDERAL REGULATIONS TO CONTAIN AND CLEAN UP ANY SPILL OR DISCHARGE
MPORARY	AND DISPOSE OF MATERIALS AT AN APPROVED FACILITY. B. CONTACT CONNECTICUT DEEP OIL AND CHEMICAL SPILL RESPONSE DIVISION (860) 424–3338 C. THE FOLLOWING STEPS SHOULD BE PERFORMED AS SOON AS POSSIBLE: a. STOP THE SOURCE OF THE SPILL
HALL BE	 b. CONTAIN THE SPILL c. COVER SPILL WITH ABSORBENT MATERIAL SUCH AS KITTY LITER, SAWDUST OR OIL ABSORBENT PADS. DO NOT USE STRAW.
F BACKFILLED	d. DISPOSE OF ABSORBER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
SCHARGE	POST_CONSTRUCTION 1 DOLUTION DREVENTION TEAM
ERNATE	1. <u>POLLUTION PREVENTION TEAM:</u> THE PROPERTY OWNER WILL BE RESPONSIBLE FOR MAINTAINING THE STORMWATER MANAGEMENT SYSTEMS
STAFF.	LOCATED ON THE PROPERTY AND CARRYING OUT THE PROVISIONS OF THIS PLAN. 2. <u>SWEEPING:</u>
NENT	THE PRIVATE DRIVE SHALL BE SWEPT CLEAN OF SAND AND LITTER AND ANY OTHER POLLUTANTS AT LEAST TWICE
RIZONTAL TO	PER YEAR. A. BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL)
THE	B. DURING APRIL (AFTER SNOW MELT)
PROVIDED ON TICAL (3:1).	 <u>OUTSIDE STORAGE:</u> ACCESSORIES OR EQUIPMENT STORED OUTSIDE SHALL BE COVERED OR MAINTAINED TO MINIMIZE POSSIBILITY OF THESE MATERIALS OR THEIR RESIDUE PASSING TO STORM WATER.
5, THE	4. <u>WASHING:</u> NO WASHING OF VEHICLES, ACCESSORIES, EQUIPMENT OR APPLIANCES IN IMPERVIOUS AREAS.
PTED AS	5. <u>MAINTENANCE AND INSPECTION:</u> A. WATER QUALITY BASINS
SHED	a. INSPECT BASIN & SIDE SLOPES FOR INVASIVE VEGETATION – ANNUALLY b. INSPECT FOR DAMAGED, UNDERCUT, OR ERODED AREAS – SEMI–ANNUALLY c. CLEAN AND REMOVE DEBRIS FROM THE OUTLET, INSPECT AND CLEAN DEBRIS IN THE BASIN, MOW
	SIDE SLOPES - SEMI-ANNUALLY d. REMOVE SEDIMENT AND DEBRIS FROM WATER QUALITY BASINS WHEN SEDIMENT ACCUMULATION
PAIRED AND TURNED TO	REACHES ½ OF THE STORAGE VOLUME OF THE BASIN. B. GRASS SWALES
A MANNER	a. MOW – AS NEEDED b. REMOVE SEDIMENT AND LEAF LITTER – BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL) AND DURING APRIL (AFTER SNOW MELT)
TATION IS	C. RAIN GARDENS: SEE DETAIL
N.	6. <u>SPILLS OR ACCIDENTAL DISCHARGES:</u> A. COMPLY WITH STATE AND FEDERAL REGULATIONS TO CONTAIN AND CLEAN UP ANY SPILL OR DISCHARGE AND DISPOSE OF MATERIALS AT AN APPROVED FACILITY.
CORDING TO	B. CONTACT CONNECTICUT DEEP OIL AND CHEMICAL SPILL RESPONSE DIVISION (860) 424–3338
THE	C. THE FOLLOWING STEPS SHOULD BE PERFORMED AS SOON AS POSSIBLE: a. STOP THE SOURCE OF THE SPILL
CONNECTICUT	b. CONTAIN THE SPILL c. COVER SPILL WITH ABSORBENT MATERIAL SUCH AS KITTY LITER, SAWDUST OR OIL ABSORBENT PADS.
OR THE TO THE	DO NOT USE STRAW. d. DISPOSE OF ABSORBER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
PRIOR TO	
-	

				CIVIL · STRUCTURAL · SURV	
1 No.	9/7/2023 DATE	Develoj	pment Reconfiguration REVISION	317 Main Street Norwich, CT (860) 886-1966 Fax (860) 88	
	25 Colonial Drive Killingly, Connecticut 06241				
			Nort	provement Plan h Woods Village esidential Development	Proj. Engineer K.J.H. Date: 7/7/2023 Sheet No.
	Stormwater Management Plan and Erosion & Sedimentation Control Plan				

TEMPORARY VEGETATIVE COVER

A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL IN THE STOCKPILES HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER. LIME AND SEED IS APPLIED. 10–10–10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F. LIMESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS.

PERMANENT VEGETATIVE COVER

TOPSOIL WILL BE REPLACED ONCE THE EXCAVATIONS HAVE BEEN COMPLETED AND THE SLOPES ARE GRADED AS SHOWN ON THE PLANS. PROVIDE SLOPE PROTECTION AS CALLED FOR ON THE PLANS AND DETAILS. TOPSOIL SHALL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF 6 INCHES. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS.

- APPLY AGRICULTURAL GROUND LIMESTONE AT THE RATE OF TWO TONS PER ACRE OR 100 LBS. PER 1000 S.F.
- APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER 1000 S.F.
- WORK LIMESTONE AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES.
- INSPECT SEEDBED BEFORE SEEDING.
- IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS. - APPLY THE FOLLOWING GRASS SEED MIX:

TYPICAL SEED MIXTURE

ALL DISTURBED AREAS

KENTUCKY BLUEGRASS CREEPING RED FESCUE PERENNIAL RYEGRASS	20 20 <u>5</u> 45	0.45 0.45 <u>0.10</u> 1.00
TYPICAL SEED MIXTURE FOR NON-MOWED SLOPES (3		
CT DEP SEED MIX NO. 26	LBS./ACRE	<u>LBS./1000_S.F</u>
SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	4.0	0.10
BIG BLUESTEM (NIAGRA, KAW)	4.0	0.10
LITTLE BLUESTEM (BLAZE, ALDOUS, CAMPER)	2.0	0.05
SAND LOVEGRASS (NE-27, BEND)	1.5	0.03
BIRD'S-FOOT TREFOIL (EMPIRE VIKING)	2.0	0.05

LBS./ACRE

13.5

<u>LBS./1000 S.F.</u>

0.33

THE RECOMMENDED SEEDING DATES ARE: APRIL 1 – JUNE 15 AND AUGUST 15 – OCTOBER 15

IMMEDIATELY FOLLOWING SEEDING, FIRM SEED BED WITH A ROLLER AND MULCH WITH WEED FREE STRAW. IF PERMANENT VEGETATIVE COVER IS HAS NOT BEEN ESTABLISHED BY OCTOBER 15, APPLY A TEMPORARY VEGETATIVE COVER ON THE TOPSOIL.

VEGETATIVE COVER FOR WATER QUALITY BASIN

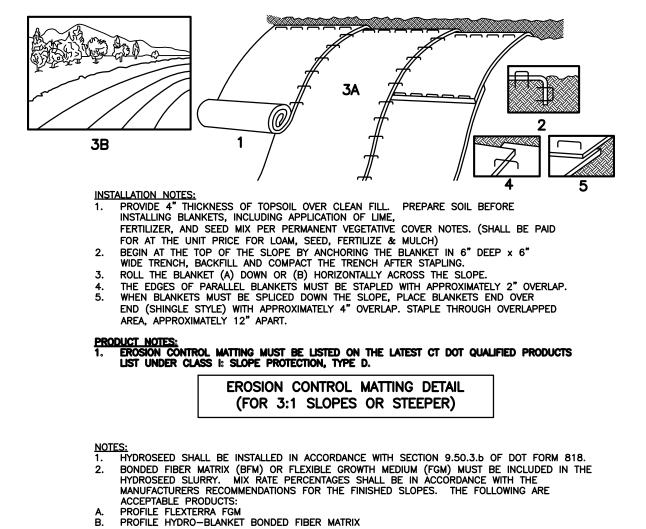
SEED MIXTURE FOR SETTLING BASINS SHALL BE THE "NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR MOIST SITES" FROM NEW ENGLAND WETLAND PLANTS, AMHERST, MA, TELEPHONE NO. 413-548-8000

THE BEST RESULTS ARE OBTAINED WITH A SPRING SEEDING. SUMMER AND FALL SEEDING REQUIRE A LIGHT MULCHING OF WEED FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A 10% INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE.

RAIN GARDEN SEED MIXTURE <u>LBS./ACRE</u> LBS./1000 S.F. 0.80 35 NEW ENGLAND EROSION CONTROL/RESTORATION MIX

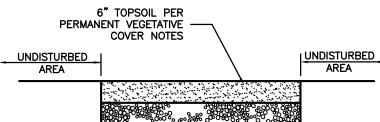
FOR DETENTION BASINS AND MOIST SITES

SPECIES: Virginia Wild Rye, (Elymus virginicus), Creeping Red Fescue, (Festuca rubra), Little Bluestem, (Schizachvrium scoparium), Big Bluestem, (Andropogon gerardii), Fox Sedge, (Carex vulpinoidea), Switch Grass, (Panicum virgatum), Rough Bentgrass, (Agrostis scabra), New England Aster, (Aster novae-angliae), Boneset, (Eupatorium perfoliatum), Grass Leaved Goldenrod, (Euthamia graminifolia), Green Bulrush, (Scirpus atrovirens), Blue Vervain, (Verbena hastata) Soft Rush, (Juncus effusus), Wool Grass, (Scirpus cyperinus)



- MAT, INC. SOIL GUARD BONDED FIBER MATRIX
- D. NORTH AMERICAN GREEN HYDRA GT OR HYDRA CM
 3. THE REQUIRED SEED MIX SHALL BE IN ACCORDANCE WITH THE PERMANENT VEGETATIVE COVER NOTES. <u>ALL APPLICATION RATES SHALL BE INCREASED BY 10% FOR HYDROSEEDING.</u>
 4. THE CONTRACTOR SHALL ENSURE 100% COVERAGE OF THE DISTURBED SOIL.

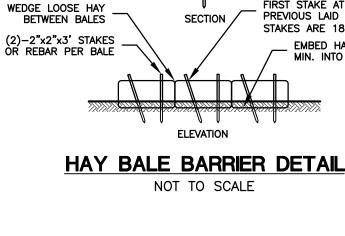






NOT TO SCALE





BACKFILL & COMPACT

EXCAVATED FILL ALONG HAY BALE

FLOW ——

PROVIDE SILT FENCE PER SILT FENCE SECTION DETAIL



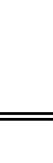




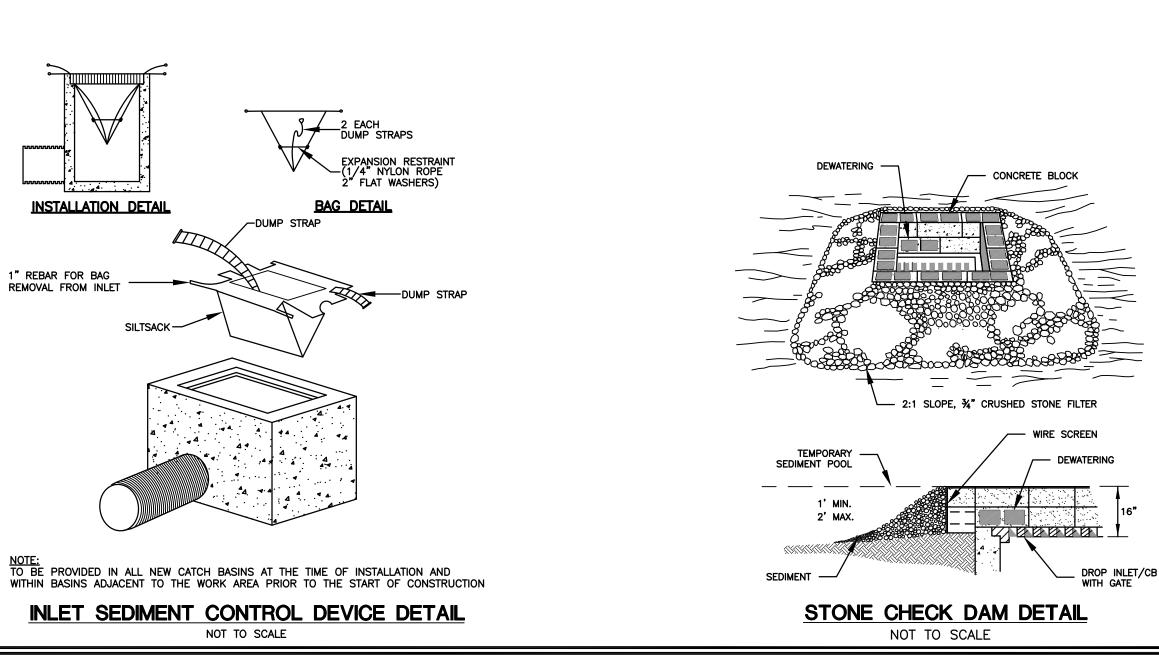
NOT	<u>'ES:</u>	
1.		ORMWATE
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ST	OF	<u>RWW</u>

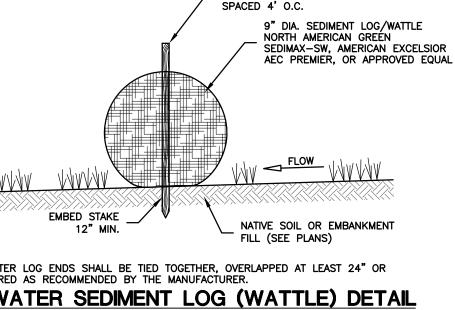
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1" REBAR FOR BAG



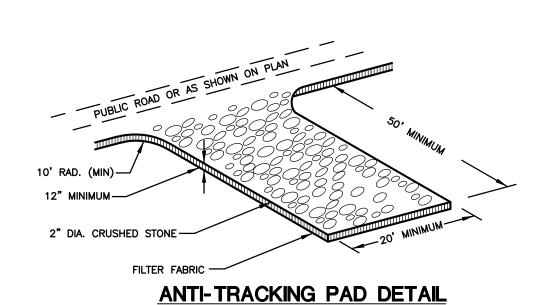
CLA





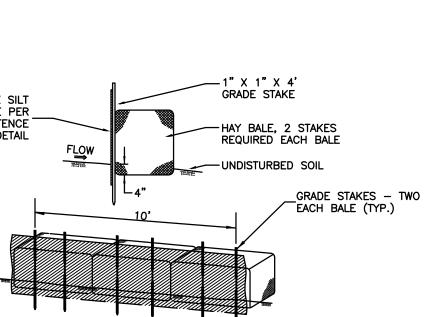
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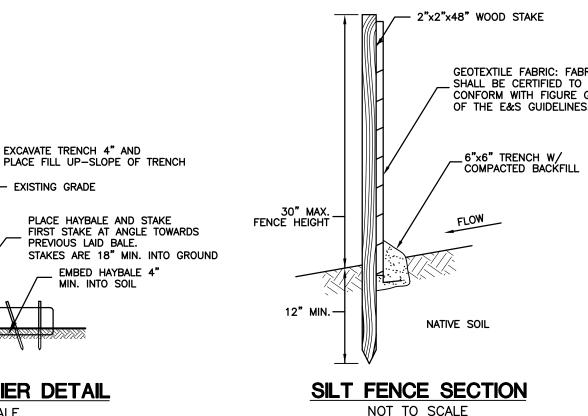
2"x2"x48" WOOD STAKE

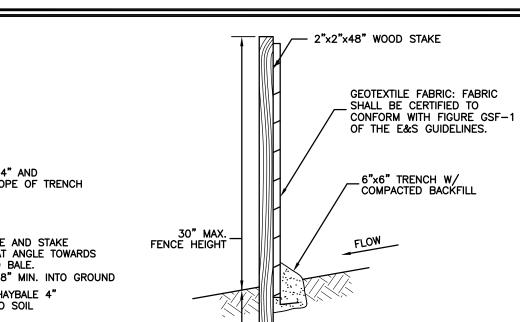


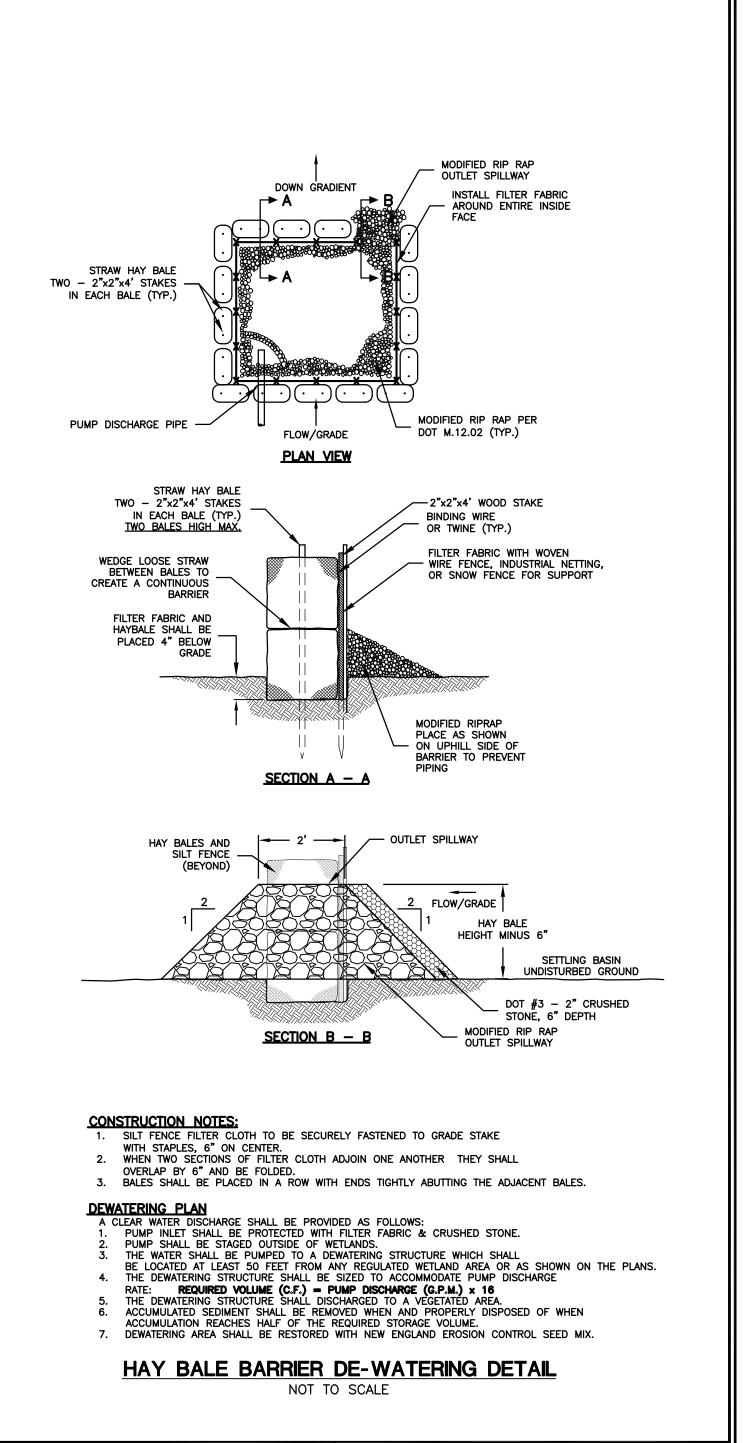
NOT TO SCALE

1. SILT FENCE FILTER CLOTH TO BE SECURELY FASTENED TO GRADE STAKE WITH STAPLES, 6" ON CENTER. 2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN ONE ANOTHER THEY SHALL OVERLAP BY 6" AND BE FOLDED. 3. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. SILT FENCE BACKED BY HAY BALES DETAIL NOT TO SCALE

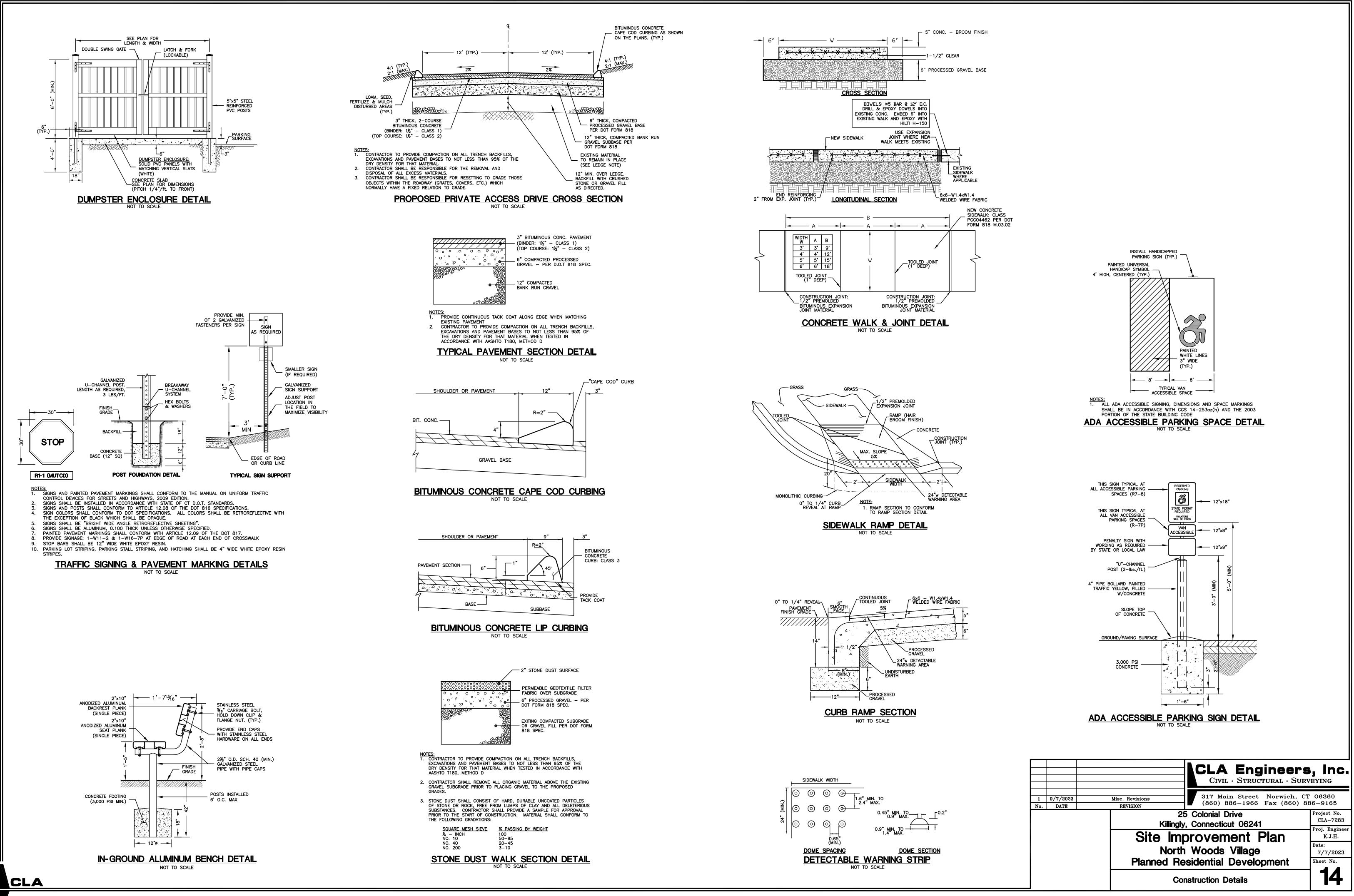


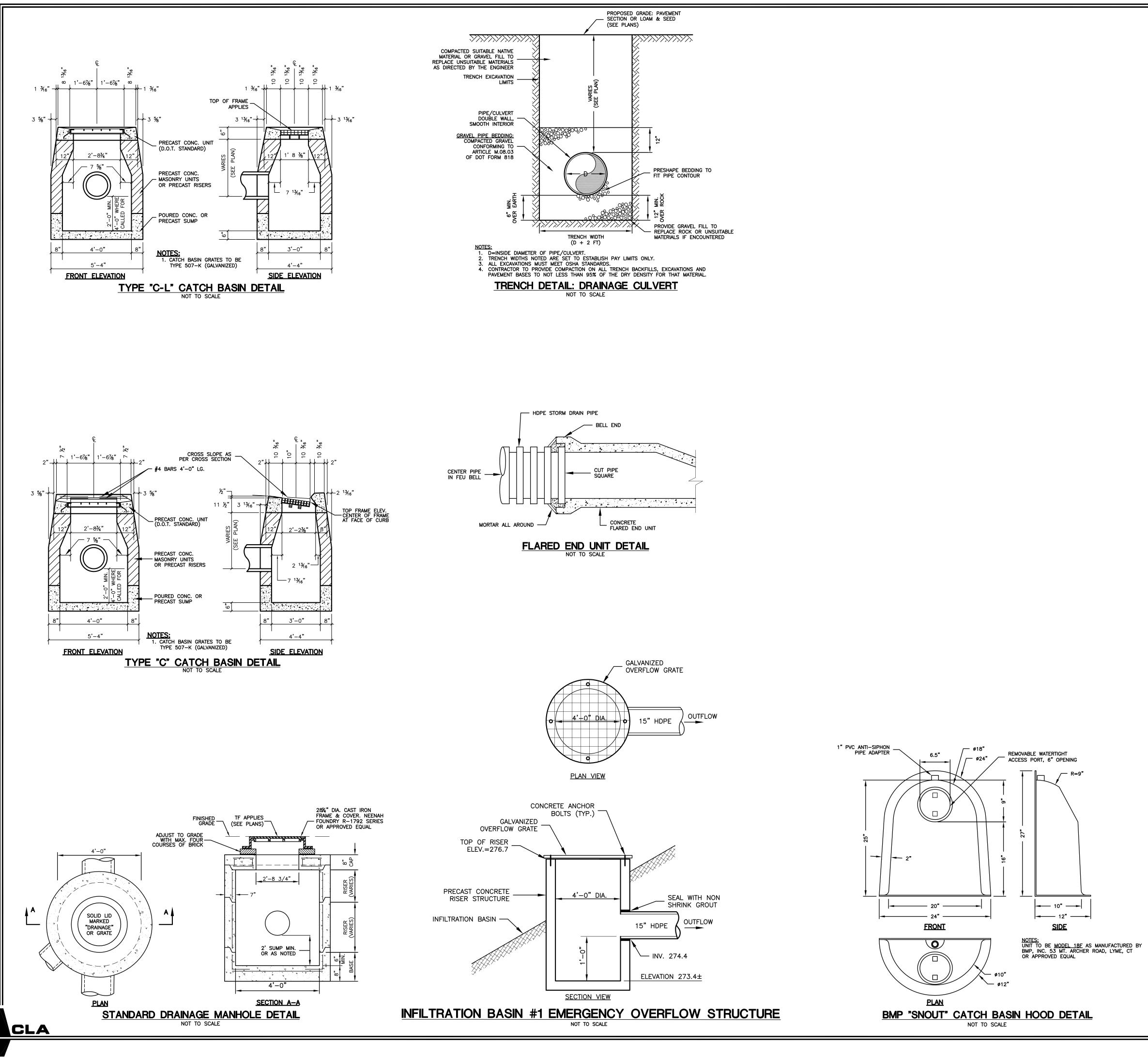




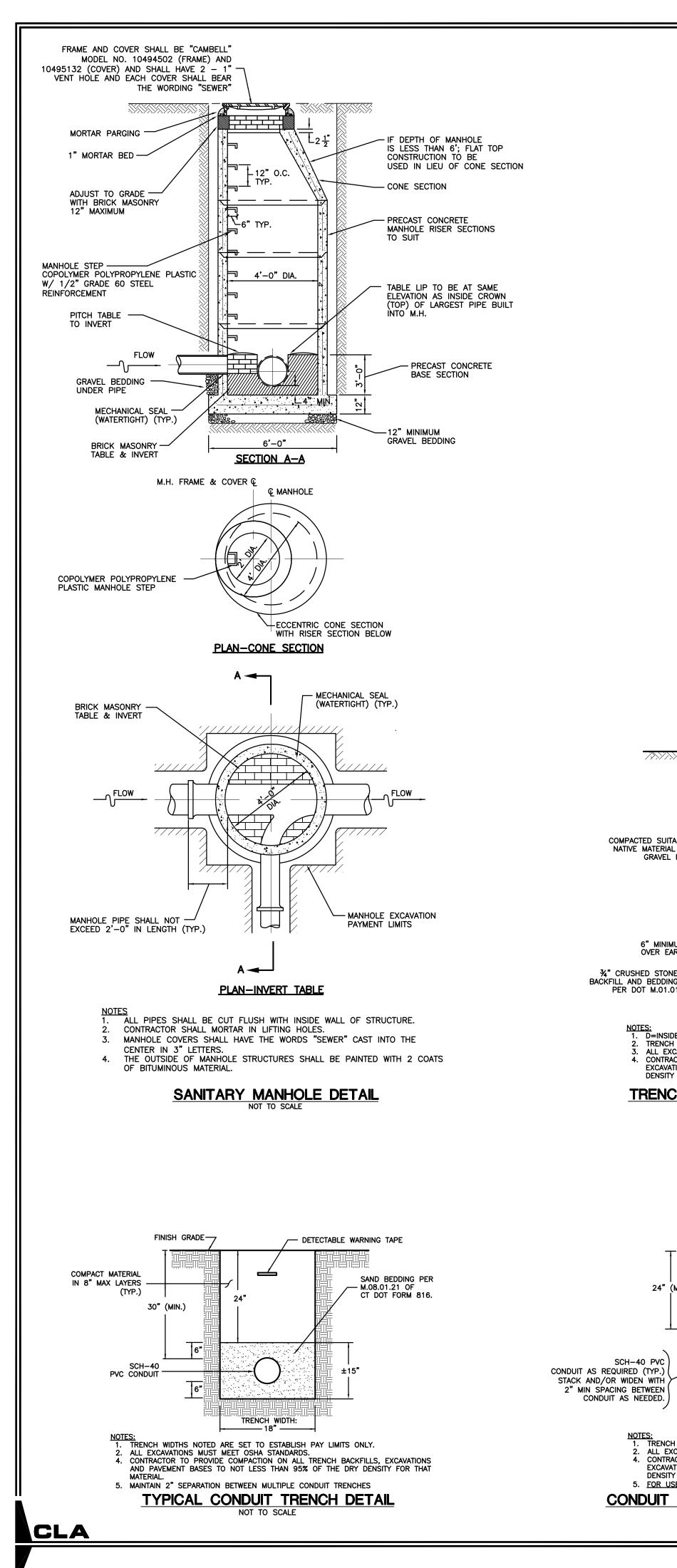


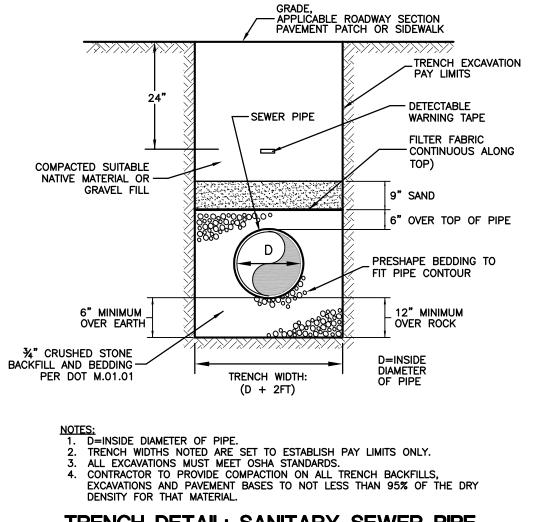
			CIVIL · STRUCTURAL · SURV	
1 No.	9/7/2023 DATE	 Misc. Revisions REVISION	317 Main Street Norwich, C7 (860) 886-1966 Fax (860) 8	
		Killin	25 Colonial Drive Igly, Connecticut 06241	Project No. CLA-7283
			nprovement Plan	Proj. Engineer K.J.H.
		Nor	rth Woods Village	Date: 7/7/2023
		Planned F	Residential Development	Sheet No.
			ater Management Plan and Sedimentation Control Details	13





				s, Inc.
1 No.	9/7/2023 DATE	Misc. Revisions REVISION	317 Main Street Norwich, C7 (860) 886-1966 Fax (860) 8	
		Kil	25 Colonial Drive lingly, Connecticut 06241	Project No. CLA-7283
		Site	Improvement Plan	Proj. Engineer K.J.H.
		No	orth Woods Village	Date: 7/7/2023
		Planned	Residential Development	Sheet No.
			Construction Details	15





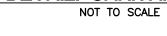


GRADE

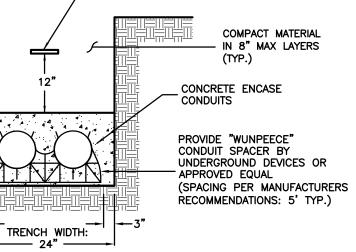
DENSITY FOR THAT MATERIAL.

24" (MIN.)

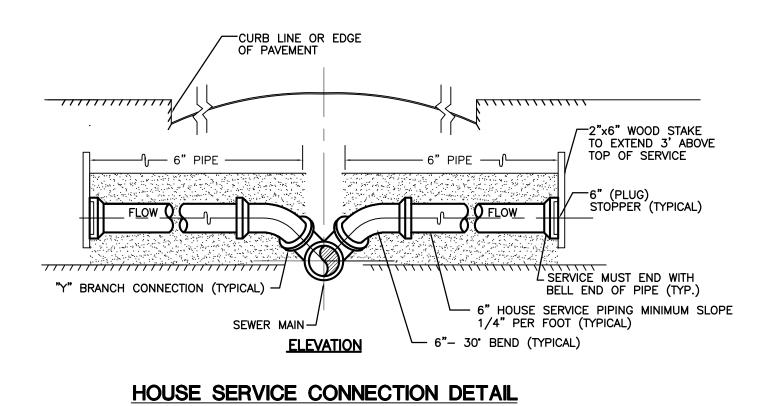
SCH-40 PVC



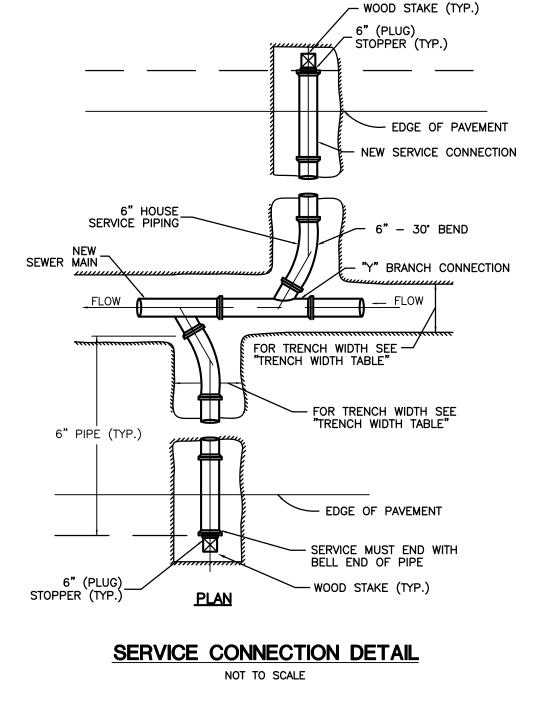
 NOTES:
 TRENCH WIDTHS NOTED ARE SET TO ESTABLISH PAY LIMITS ONLY.
 ALL EXCAVATIONS MUST MEET OSHA STANDARDS.
 CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY 5. FOR USE WHERE THERE IS LESS THAN 30" OF COVER AVAILABLE CONDUIT DUCT BANK (CONC. ENCASED) DETAIL NOT TO SCALE

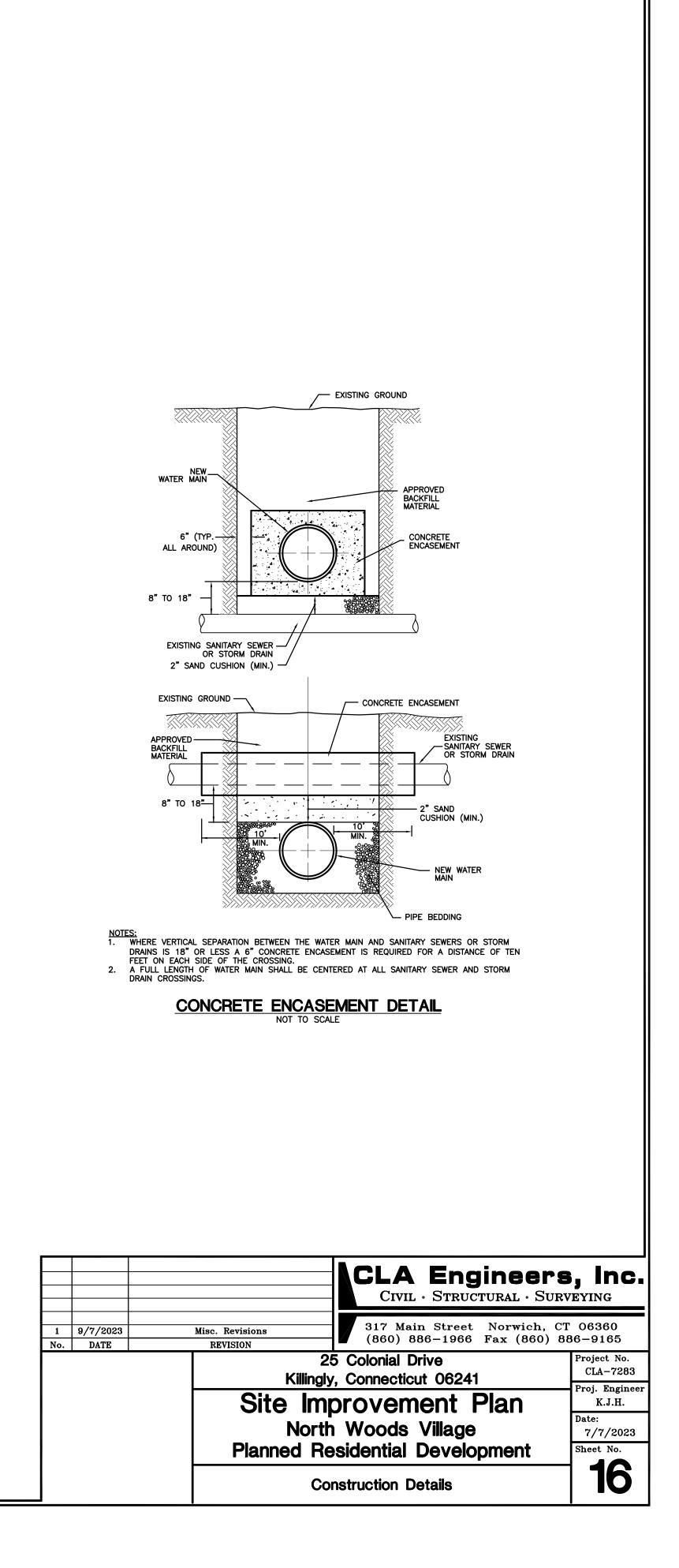


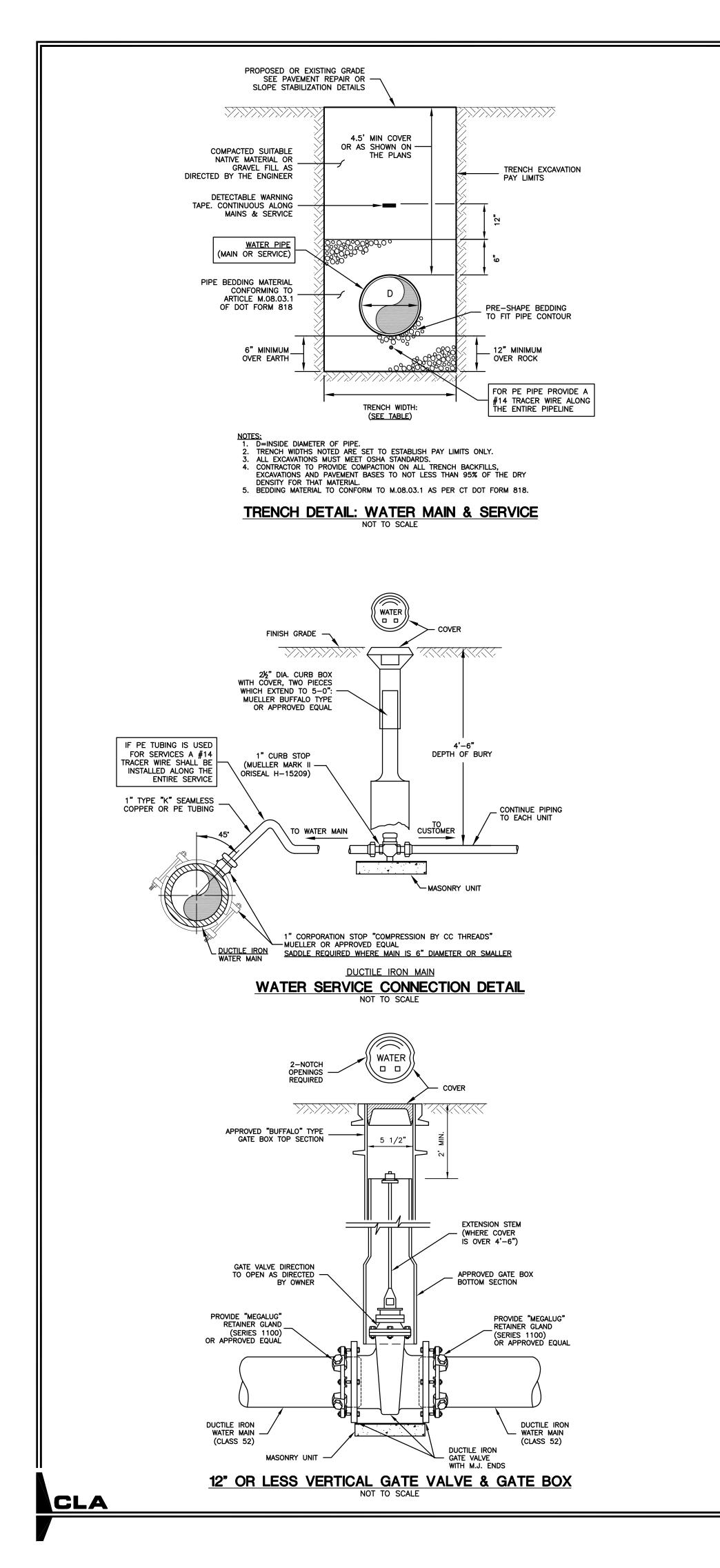
DETECTABLE WARNING TAPE

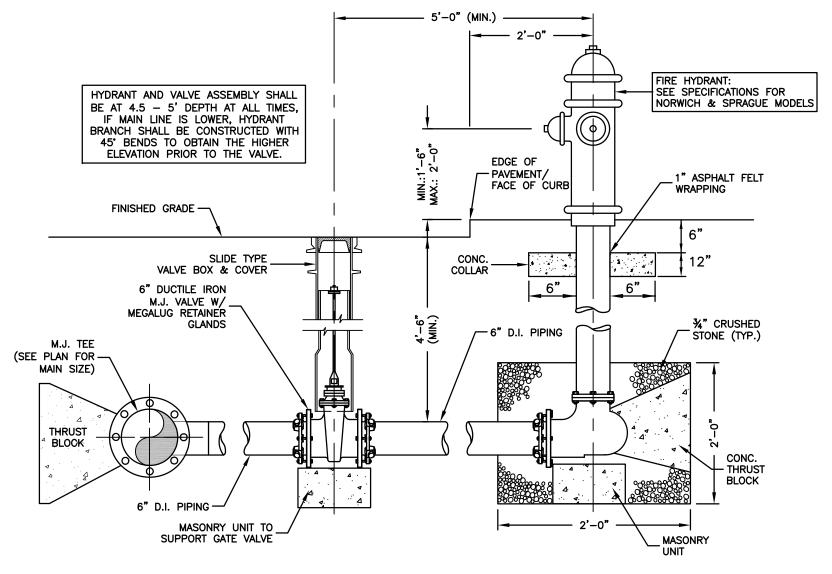


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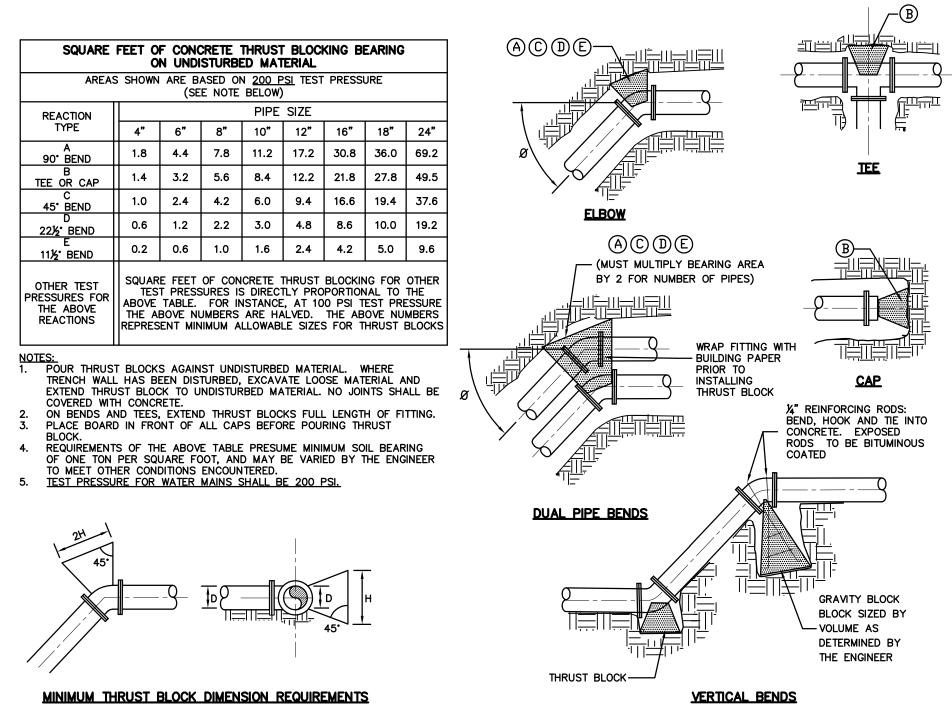








FIRE HYDRANT ASSEMBLY DETAIL



THRUST BLOCK DETAILS & DIMENSIONS

					CIVIL · STRUCTURAL · SURV	5, Inc. VEYING
1 No.	9/7/2023 DATE		Misc. Revisions REVISION		317 Main Street Norwich, CT (860) 886-1966 Fax (860) 88	86-9165
			к		5 Colonial Drive /, Connecticut 06241	Project No. CLA-7283 Proj. Engineer
	Site Improvement Plan North Woods Village					
					esidential Development	Sheet No.