

LOCUS PLAN

SHEET DATE SHEET DATE REVISED NUMBER DESCRIPTION 07/14/2023 1 COVER SHEET **EXISTING CONDITIONS SURVEY** 12/30/2022 -2 07/14/2023 -3 DEMOLITION & EROSION CONTROL PLAN 07/14/2023 SITE PLAN 07/14/2023 5 GRADING & DRAINAGE PLAN 07/14/2023 UTILITY PLAN -07/14/2023 -7 CONSTRUCTION DETAILS 07/14/2023 CONSTRUCTION DETAILS 07/14/2023 9 CONSTRUCTION DETAILS 10 CONSTRUCTION DETAILS 07/14/2023 . 07/14/2023 CONSTRUCTION DETAILS 11 07/13/2023 APPROVAL NOT REQUIRED PLAN

SUBMITTED UNDER SEPARATE COVER

DATE	DATE	SHEET	SHEET
	REVISED	NUMBER	DESCRIPTION
06/12/2023	-	1-2	SUBSURFACE SEWERAGE DISPOSAL SYSTEM

PROPERTY:

1650 WASHINGTON STREET (RT-16) HOLLISTON, MA 01746

ASSESSORS MAP 5, LOT 4-28.1

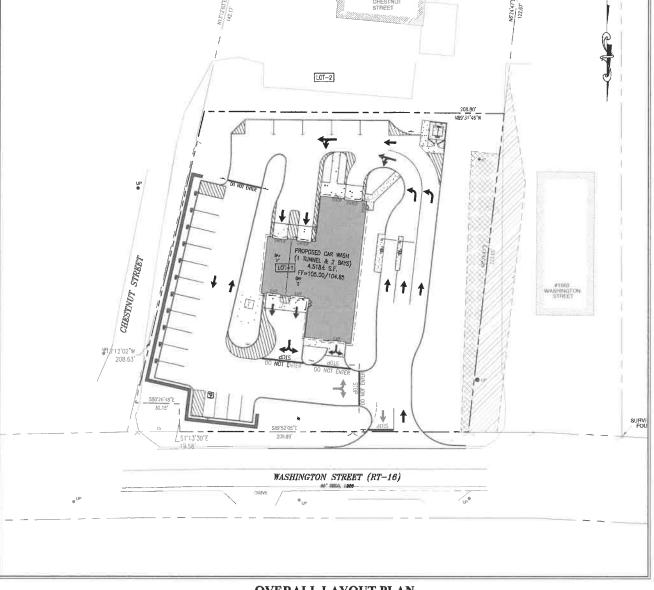
OWNER OF RECORD: 1650 REALTY TRUST 11 SAWIN STREET SHERBORN, MA 01770

SITE PLAN SET

FOR A

PROPOSED CAR WASH

1650 WASHINGTON STREET HOLLISTON, MA 01746



OVERALL LAYOUT PLAN SCALE: 1"=30' DATE SITE PLAN ENDORSED:

PREPARED BY:

CIVIL DESIGN GROUP, LLC

21 HIGH STREET SUITE 207 NORTH ANDOVER, MA 01845 www.cdgengineering.com p: 978-794-5400 f: 978-965-3971 CONTACT: PHILIP HENRY, P.E.

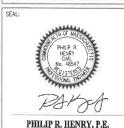
PREPARED FOR:

1650 WASHINGTON STREET, LLC 3 MICHAUD DRIVE FRAMINGHAM, MA 01701

NOT FOR CONSTRUCTION

ISSUED:

TOWN OF HOLLISTON



COVER SHEET

.

CDG PROJECT #:

22XXX

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

ACCORDANCE WITH THE PLAN AND DETAILS.

36. TOTAL APPROXIMATE LAND DISTURBANCE IS 1± ACRE.

- THIS SITE IS SUBJECT TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY. SITE OPERATORS SHALL CONFORM TO MEET THE CRITERIA FOR A MPDES GENERAL PERMIT FOR STORMMENTER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
- ADAPTATION TO ACTUAL FIELD CONDITIONS MAY WARRANT VARIATIONS FROM WHAT IS SHOWN ON THESE PLANS FOR EROSION CONTROLS IN ORDER TO MAXIMIZE THE EFFECTIVENESS OF THE CONTROLS.
- THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING ALL CONSTRUCTION RELATED CONDITIONS OUTLINED IN THE APPROVALS IN ADDITION TO THE ITEMS OUTLINED IN THESE CONSTRUCTION DOCUMENTS. THE PLANS INCLUDED HEREIN ARE PROVIDED AS A CUIDANCE DOCUMENT TO ASSIST IN THE IMPLEMENTATION OF EXCRISION/SEDIMENTATION CONTROLS AND STABILIZATION OF THE SITE. ADAPTATION TO ACTUAL FIELD CONDITIONS MAY WARRANT VARIATIONS FROM WART IS SHOWN ON THESE PLANS TO AMAINIZE THE FETCHMENS OF THE CONTROLS.
- THE CONTRACTOR SHALL ADHERE TO PROCEDURES OUTLINED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE EPA NPDES CONSTRUCTION GENERAL PERMIT REQUIREMENTS.
- IN ACCORDANCE WITH THE NPDES CONSTRUCTION GENERAL PERMIT AND ASSOCIATED STORMMATER POLLUTION PREVENTION PLAN (SWPPP), ERGSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST EVERY 14 DAYS AND WITHIN 24 HOURS OF A 0.25' STORM. REPORTS DOCUMENTING THE RESULTS OF EACH INSPECTION AND ANY CORRECTIVE ACTIONS SHALL BE KEPT ON-FILE WITH THE SWPPP.
- PROPOSED EROSION AND SEDIMENTATION CONTROL MEASURES WILL INCLUDE SILT SOCKS, CRUSHED STONE, RIPRAP, LOAM/SEED, HYDROSEEDING, MULCHING, EROSION CONTROL MATTING, DIVERSION BERMS, AND SEDIMENTATION BASINS AS FURTHER DESCRIBED HEREN.
- SIT SOCKS WILL BE USED FOR THE PERMETER EROSION CONTROL BARRIER AS SHOWN ON THIS PLAN AND ELSEWHERE AS CONDITIONS WARRANT. SIT SACKS WILL BE USED TO PROTECT OFFUNE CATCH BASINS (PRIOR TO BINDER) AND ELSEWHERE AS CONDITIONS WARRANT. THE CONTRACTOR WILL BE REQUIRED TO KEEP A REASONABLE STOCK OF SILT SOCKS ON SITE TO BE ABLE TO SUPPLEMENT OR MAKE REPAIRS AS NECESSARY.
- 8. LOAMING AND SEEDING OR HYDROSEEDING WILL BE USED AS A PERMANENT STABILIZATION MEASURE FOR ALL REVEGETATED AREAS OF THE SITE.
- 9. ALL PROPOSED SLOPES 3:1 AND STEEPER SHALL BE STABILIZED WITH AN EROSION CONTROL MATTING AND SHALL BE HYDROSEEDED.
- 10. MULCHING MAY BE USED TO REMFORCE SEEDED AREAS WHERE EROSION CONTROL MATTING IS NOT REQUIRED OR WARRANTED, BUT WHERE SOME PROTECTION IS WARRANTED. MULCHING MAY ALSO BE USED TO STABILIZE AREAS WHERE CONSTRUCTION ACTIVITIES WILL TEMPORARILY CEASE FOR MORE THAN 14 DAYS.
- SEDIMENTATION BASINS SHALL BE USED THROUGHOUT THE SITE TO TREAT RUNOFF. DIVERSION BERMS SHALL BE UTILIZED TO DIVERT UNTIREATED STORMWATER TO THE SEDIMENTATION BASINS. SEDIMENTATION BASINS AND DIVERSION BERMS SHALL BE ADDED, REMOVED, AND ADJUSTED AS THE SITE EVOLVES THROUGHOUT THE CONSTRUCTION PROCESS.
- 12. UPON CONVERTING ANY TEMPORARY SEDIMENTATION BASINS TO PERMANENT DETENTION/INFILTRATION BASINS, THE BASINS SHALL BE CLEANED OF ALL ACCUMULATED SEDIMENT TO ENSURE THAT THE VOLUMETRIC AND INFILTRATION DESIGN CAPACITIES ARE MAINTAINED.
- 13. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, IN ACCORDANCE WITH THE INPOES CONSTRUCTION GENERAL PERMANENTLY CEASED, AND EARLY DEPORT OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, UNLIESS PRECLUDED BY SHOW COPER OR FROZEN GROUND CONSTRUCTION STATES THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, UNLIESS PRECLUDED BY SHOW COPER OR FROZEN GROUND CONSTRUCTION STATES OF THE SITE IS TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 4. EROSION AND SEDIMENTATION CONTROLS WILL BE REQUIRED TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT TO ENSURE THAT THEY FUNCTION AS INTENDED, DEFICIENCIES WILL BE CORRECTED BY CLEANING ENDAGED AND SEDMENTATION CHARGES WILL BE CORRECTED BY CLEANING. REPARRING, OR REPLACED CONTROL AS INTENDED. DEFICENCES WILL BE CORRECTED BY CLEANING. REPARRING, OR REPLACED CONTROLS, OR PORTIONS, THEREOF TO RESENTABLES PROPER FUNCTIONING AS QUICKLY AS POSSEDE. SEDMENTATION CONTROLS WILL BE REQUIRED TO BE CLEANED OR REPLACED WHEN THE ACCUMULATIONS SEDMENT EXCESS 50 PERCENT OF THE DESIGN CAPACITY OF THE CONTROL. ANY OFF-SITE ACCUMULATIONS OF SEDMENT WILL BE REQUIRED TO BE REMOVED AS QUICKLY AS POSSIBLE IN A MANNER THAT WINNINGS ADDITIONAL DISTRICT.
- 5. EROSION CONTROL BARRIER (WHERE SHOWN) REPRESENTS THE LINIT OF WORK. WHERE NO EROSION CONTROL BARRIER IS REQUIRED (SUCH AS UPSLOPE AREAS), A LIMIT OF WORK LINE HAS BEEN SHOWN. WHERE NO EXCONTROL BARRIER IS REQUIRED, THE LIMIT OF WORK SHALL BE DELINEATED IN THE FIELD BY A VISUAL BARRIER SUCH AS TEMPORARY CONSTRUCTION FENCING IN ORDER TO KEEP CONSTRUCTION ACTIVITIES DUT OF THOSE
- 16. THE PROPOSED ONSITE DRAINAGE SYSTEM SHALL BE INSTALLED AS SOON AS PRACTICABLE, ALL EXISTING AND PROPOSED CATCH BASIN INLETS SHALL BE PROTECTED WITH A SILT SACK (SEE DETAIL).
- 17. DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT BASIN OR OTHER SETTLING AREA TO ALLOW FOR SUFFICIENT SETTLING PRIOR TO DISCHARGE.
- 18. DUST SHALL BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO LOCAL, STATE AND FEDERAL STANDARDS.
- 19. ABUTTING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS FROM THIS PROJECT AT ALL TIMES. WORK ON ABUTTING PROPERTY SHALL REQUIRE WRITTEN AUTHORIZATION FROM THE OWNED AND LAND DISTURBANCE.
- 20. THE EROSION CONTROL MEASURES ILLUSTRATED IN THIS PLAN SET SHALL BE THE MINIMUM REQUIRED CONTROLS IMPLEMENTED.
- 21. STOCKPILING LOCATIONS SHALL BE FIELD DETERMINED AND SHALL NOT LIE WITHIN THE 100-FOOT WETLAND BUFFER. DIVERSION BERMS AND EROSION CONTROL BARRIERS SHALL BE INSTALLED DOWNGRADIENT OF STO

SITE & DEMOLITION NOTES

- THE LOCATION AND ELEVATION OF EXISTING UTILITIES AND STRUCTURES SHOWN ON THESE PLANS ARE BASED ON MEASUREMENTS TAKEN IN THE FIELD AND TRICES FLAMS ARE DATED ON MESSUREMENTS TRACK IN A THE DISCOVERED EXCED AND/OR FROM THE MUNICIPALITY. THIS INFORMATION SHALL NOT BE CONSIDERED EXACT AND THE CONTRACTOR SHALL VERIEY ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO CONTRACTOR SMILL VERBEY ALL UNDERFISCHOOL DITTOT CONTRACTOR SMILL VERBEY ALL UNDERFISCHOOL DITTOT CONTRACTOR SMILL VERBEY ALL UNDERFISCH SMILL VORTY DIS SEFE (BIT) AT LEAST 27 HIDDEN PRORT TO ANY EXCAVATION TO REDUEST ENSING UTILITY MARK CUT LOCATIONS. THE CONTRACTOR SMILL VORTY ON THE PRORT SMILL VICTOR SMILL VERBE SMILL WE FIX STING UTILITY LOCATIONS CONTRECT WITH THE PRORT SMILL VICTOR SMILL VERBE SMILL VICTOR SMILL VERBE SMILL VER
- EXISTING BASE INFORMATION INCLUDING PROPERTY LINE, STRUCTURES, UTILITIES AND TOPOGRAPHY ARE TAKEN FROM EXISTING CONDITIONS PLAN, PREPARED BY J2M CONSULTING ASSOCIATES, LLC.
- ELEVATIONS SHOWN ARE BASED ON THE DATUM REFERENCED ON THE EXISTING CONDITIONS PLAN.
- EXISTING STRUCTURES MAY BE UNDER A DEMO DELAY, THEREFORE, THESE STRUCTURES SHALL NOT BE RAZED ON OR BEFORE THE END OF THE DEMO DELAY DATE.
- ALL WORK MUST BE INSPECTED PER TOWN REQUIREMENTS. CONTRACTOR SHALL CONTACT THE TOWN BUILDING DEPARTMENT PRIOR TO THE START OF WORK,
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING ALL CONSTRUCTION RELATED CONDITIONS OUTLINED IN THE APPROVALS IN ADD TO THE ITEMS OUTLINED IN THESE CONSTRUCTION DOCUMENTS.
- . THE LIMIT OF WORK FOR THIS PROJECT SHALL BE SHOWN ON THE PLANS AS SAWGUT UMES, EROSION CONTROL BARRIER LINES, AND/OR LIMIT OF WORK LINES AND SHALL BE MARKED IN THE FIELD PRIOR FOR CONSTRUCTION. EMSTING FEATURES OUTSIDE LIMIT OF WORK LINE ARE TO REMAIN UNLESS OTHERWISE SPECIFED AND THE ESTING FEATURES WITHIN LIMIT OF WORK LINE SHALL BE REMOYED LINLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- ALL DISTURBED OFF-SITE AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION
- PEDESTRIAN AND VEHICULAR ACCESS WITHIN THE PUBLIC RIGHT-OF-WAY AND SHARED ACCESS DRIVE SHALL BE KEPT IN GOOD CONDITION THROUGHOUT
- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL THE CONTRICTOR SHALL BE RESPONDING FOR THE OBSTRUMEN AND PARTINE FOR ALL PERMITS AND UTILITY CORNECTION/DISCONNECTION FEES RELIANCE TO THE PROJECT, CONTRICTOR SHALL NOTIFY AND COORDINATE ALL UTILITY WORK WITH THE APPLICACE UTILITY COMPANIES AND/OR LOCAL DEPARTMENTS. ALL PERMITS SHALL BE KEPT WITHIN THE TRAILER AND CLEARLY VISIBLE.
- THE OFFSITE DISPOSAL OF ALL DEMOLISHED MATERIALS SHALL COMPLY WITH THE APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES.
- 4. FILL MATERIAL(S) SHALL NOT CONTAIN HAZARDOUS MATERIALS.
- . CONSTRUCTION DUMPSTERS SHALL BE LOCATED ON A STABLE SURFACE, PROPERLY MAINTAINED, AND EMPTIED ON A REGULAR BASIS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE GENERAL UPKEEP OF THE SITE DURING THE CONSTRUCTION PROCESS,
- ALL WALLS GREATER THAN 4 FEET EXPOSED HEIGHT SHALL BE DESIGNED BY A STRUCTURAL ENGINEER, IF APPLICABLE.
- . CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EAR MATERIALS ARE EXPOSED FOR A MINIMUM AMOUNT OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.

20. THE AREAS OF CONSTRUCTION SHALL REMAIN IN A STABLE CONDITION AT THE CLOSE OF EACH CONSTRUCTION DAY, EROSION CONTROLS SHALL BE CHECKED AT THIS TIME AND MAINTAINED OR REINFORCED IF NECESSARY.

TEST PIT ESHGW I

P-2 N/A - R

- CONTRACTOR SHALL COORDINATE THE LOCATION OF STAGING AREAS AND JOB TRAILER WITH THE ENGINEER AND OWNER PRIOR TO MOBILIZATION OF ANY EQUIPMENT ON THE SITE.
- CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS, AND EQUIPMENT AND RESTORE OR REPAIR ANY DAMAGE THAT OCCURS TO THE SITE RESULTING FROM CONSTRUCTION ACTIVITY.
- 24. DISPOSE OF ANY AND ALL DEMOUSHED BUILDING MATERIALS, STOARAGE TANKS, PAREMANT, BITUMINOUS CUBBING, CONGRETE, VEGETATION, SURPLUS MATERIAL, AND SITE RUBBLE OFF-STE IN ACCORDANCE WITH LOCAL ORDINANCES, THE MASSACHUSETTS WETLAND PROTECTION ACT, CHAPITER 131 SECTION 40, GL., AND ALL APPLICABLE STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.

 CONTRACTOR SHALL ADHERE PROTOCOLS, INCLUDING DOT I CONSTRUCTION. 									
CONSTRUCTION.		LEGEND							
		EXISTING	PROPOSED	DESCRIPTION					
				PROPERTY LINE					
		0		DRAIN MANHOLE					
				CATCH BASIN					
GENERAL ABBREVIATIONS		0		SEWER MANHOLE					
ASSESSOR'S PARCEI	A.P.	D		DRAIN PIPE					
BOTTOM OF CURB	BC			GAS LINE					
BITUMINOUS CONCRETE CURB BITUMINOUS CONCRETE	BCC BIT. CONC	OHW		OVERHEAD WIRES					
BOTTOM OF WALL CATCH BASIN	BW CB			WATER LINE					
CHAIN LINK FENCE CLEANOUT	C.L.F.	s		SEWER LINE					
CONCRETE SUPEACE	CONC	æ		HYDRANT					
DRILL HOLE FOUND DRAIN MANHOLE	DH (F) DMH			SIGN					
DOUBLE WALL FIBER GLASS DASHED WHITE LINE	DWFG DWL	\$		SITE LIGHT					
DOUBLE YELLOW CENTERLINE EDGE OF PAVEMENT EXTRUDED CONCRETE CURB ELECTRIC HANDHOLE	DYCL EOP	-0-		UTILITY POLE					
	ECC EHH	170		INDEX CONTOUR					
FINISHED FLOOR ELEVATION FRONT YARD	FF≔ FY	189		MINOR CONTOUR					
VERTICAL GRANITE CURB GAS METER	GC GM	~~~		TREE LINE					
HIGH DENSITY POLYETHYLENE PIPE	HDPE	H . 10		CONCRETE SIDEWALK					
INVERT ELEVATION LINEAL FEET	I= IF	⊕ <i>l.P.</i>		IRON PIPE/IRON PIN					
LANDSCAPED AREA MONOLITHIC CONCRETE CURB MATCH EXISTING INVERT NOT AVAILABLE	MCC ME N/A			EXISTING BUILDINGS & APPURTENANCES TO BE DEMOLISHED					
NOW OR FORMERLY ON CENTER	N/F QC		X	CONSTRUCTION FENCE					
RIM ELEVATION ROOF DRAIN	R= RD		g and recommendations.	WATTLES					
REMOVE REAR YARD SEWER FORCE MAIN	REM RY SFM			PROPOSED BUILDING PAD					
SOLID WHITE EDGE LINE SOLID WHITE LINE SIDE YARD TOP OF CURB	SWEL SWL SY TC			PAVEMENT TO BE RECLAIMED (IF SUITABLE)					
TOP OF WALL UTSLITY POLE VITRIFIED CLAY	TW UP VC			STABILIZED CONSTRUCTION ENTRANCE					

BORING LOCATION

	1 1-1		INSTALL WATTLE EROSION CONTROL (TYP.)		PROPOSED SUBSURFACE INFLITMENTON SYSTEM TO BE	- 1/2 /	
FROM THE OWNER PRIOR TO		/ 			OPERATIONAL ONCE UPSTREAM AREAS ARE STABILIZED	×	
IGRADIENT OF STOCKPILES IN		REM 1	INSTALL TEMP, SEDMENT TRAP, CATCH BASINS UNTIL SITE STA	17-75' Sig.	90	Side of the state	
TEST PIT DATA ESHGW DEPTH ESHGW ELEVATION	16/16/1	RVC PIPE UP	AS COMPLETE (TIP)	N78'49'33			
N/A - REFUSAL N/A - REFUSAL N/A - REFUSAL 52" 94.4±		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0/	81.57 WOOD REM PILE	NOVE EXISTING SAND ORGANIC SO.		
52" 94.8± 32" 94.3± 30" 95.5±	nes co	STALL WATTLE EROSION NUROL (TYP.)	REM	REM TTREE	AYER (TYP.)		COMMERCIAL DISTRICT
LIMIT OF WOR	BE	REN WEATHERED CONCRETE SIDEWALK	ASPALT PATCHES	REM THEE	SHED		
PROPERTY UN	6	IP-4	TRE	0	INSTALL WATTLE EROSION CONTROL (TYP.)		
COMMERCIAL	A	Pyc PIPE UP	PROPOSED EXTENTS OF BUILDING CANOPY	1-10-	702		EXISTING TREES IF THE LIMIT OF 1.)
COMMERCIAL DISTRICT	1 - 1/E	N0'08'11		102		1 And	#1660 WASHINGTON
ONII.	REM LOAM	YOU - OVE EXISTING AND ORGANIC -	1 1/1	#1650 % ///////////////////////////////////			STREET
CHESTINUT	*	INER (TVP.)	TREE	STREET			
///			REMOVE EXISTING	3 WALK	REM	INSTALL CONSTRUCTION FENCE AT THE PERMIETER OF THE SITE FENCE TO BE RELOCATED AS NEEDED TO FACILITATE THE CONSTRUCTION PROCESS	
SH212'02"W		PAVELIENT (TYP.)	LEC/TEL SERVICES TO BUILDING	RENOVE EXISTING	ASPHALT DRIVE	THE CONSTRUCTION PROCESS	
INSTALL CONSTRUCTION FENCE AT THE PERMIETER OF THE SITE, FENCE TO BE RELOCATED AS NEEDED TO FACILITATE THE	REA STONESORIVE		1 2 2 2	PAVEMENT (TYP.)	7P-2	JUP	COMMERCIAL DISTRICT
CONSTRUCTION PROCESS	388 26 46 E	APPLT I	103- 103-	103-		PROTECT EXISTING UTILITY POLE AND OVERHEAD WIRES OUTSEE LIMIT OF WORK (TYP.)	
	30,15	, z	- Ende	INSTALL WATLE EROSION	TP-1 EXISTING WATER SHUT-OFF TO SE REMOVED		
	PROTECT SML OUTSDE = 1'13'30"E		200.80 X	104 - SWC	natural community of the community of th		
PROTECT DIS	D N	M unit or cop	EXISTING SIGN M	- / M	so	LIMIT OF EOP	
ROADWAY BEY LIMIT OF W	COND LIMIT OF WORK SHALL STARRIZED CONSTRUCTION.	REMOVAL THAPPIC MARKINES TO BE REMOVED (TYP, OF ALL WITHIN LIMIT OF WORK)	WASHINGTON ST		SAUCUT LINE REPRESENTS THE WORK WITHIN THE RIGHT OF S	REMOVAL E APPROXIMATE LIMIT OF MAY FOR THE INSTALLATION	
100	PAYEMENT HAS BEEN REMOVED.	MENIS WITHIN THE DRIVE	80' SHLO		OF SIDEWALK, CURB AND LITE. CONNECTIONS/DISCONNECTS	ν	
NCE INDUSTRIAL INTEGE	ROHT-OF-	WAY SHALL BE D WITH THE TOWN F RESPECTMENTY	UP UP	INDUSTRIAL DISTRICT	N UP		DigSafe

22. ESTIMATED STABILIZED AREA AS SHOWN ON THE SEQUENCING PLANS PROVIDED HEREIN REPRESENTS THE APPROXIMATE AREA THAT WILL BE STABILIZED (EITHER TEMPORARILY OR PERMANENTLY) BY THE END OF THE CONSTRUCTION SEQUENCE.

25. PROVIDE AND STORE AUXILIARY DEWATERING EQUIPMENT ON THE SITE IN THE EVENT OF BREAKDOWN, PROVIDE NON-WOVEN FILTER FABRIC SHALL BE SPECIFICALLY DESIGNED FOR SUBSURFACE DRAINAGE APPLICATIONS. 26. WATER FROM THE TRENCHES AND EXCAVATIONS SHALL BE DISPOSED OF IN SUCH A MANNER AS TO AVOID PUBLIC NUISANCE, INJURY TO PUBLIC HEALTH OR THE ENVIRONMENT, OR DAMAGE TO PUBLIC OR PRIVATE PROPERTY, OR DAMAGE TO THE WORK COMPLETED OR IN PROCRESS, DO NOT DISCHARGE WATER INTO ANY SANITARY SEWER SYSTEM. SILTATION BARRIERS SHALL BE UTILIZED IF NECESSARY.

28. THE CONTRACTOR SHALL REPAIR ANY DAMAGE RESULTING FROM THE FAILURE OF THE DEWATERING OPERATIONS OR FROM FAILURE TO MAINTAIN ALL AREAS OF WORK IN SUITABLE DRY CONDITION

31. THE PROPOSED ONSITE DRAINAGE SYSTEM SHALL BE INSTALLED AS SOON AS PRACTICABLE, ALL EXISTING AND PROPOSED CATCH BASIN INLETS SHALL BE PROTECTED WITH A SILT SACK (SEE DETAIL).

29. DO NOT EXCAVATE UNTIL THE DEWATERING SYSTEM IS OPERATIONAL AND THE EXCAVATION MAY PROCEED WITHOUT DISTURBANCE TO THE FINAL SUBGRADE.

23. CRUSHED STONE AND/OR RIPPAP SHALL BE USED TO CONSTRUCT THE TRACKING PAD, CLIT SLOPE TREATMENT AREAS, CHECK DAMS, SEDIMENTATION BASIN QUILET PROTECTION, AND ELSEWHERE AS CONDITIONS WARRANT. THE CONTRACTOR WILL BE REQUIRED TO KEEP A PRASONABLE STOCK OF CRUSHED STONE AND RIPPAPA ON STIE TO BE ABLE TO SUPPLEMENT OR MAKE REPAIRS AS NECESSARY.

24. ALL DEWARDEN SUPST DISCHARGE.

27. WATER FROM TRENCHES AND EXCAVATIONS SHALL NOT BE DISCHARGED DIRECTLY TO STORM DRAIN SYSTEMS. PROPER TREATMENT TO A SEDIMENTATION AREA IS TO TAKE PLACE PRIOR TO DISCHARGE TO ANY DRAINAGE SYSTEMS.

32. BMPS TO BE USED FOR INFILTRATION AFTER CONSTRUCTION SHALL NOT BE USED AS BMPS CURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE BOARD, MANY INFILTRATION TECHNOLOGIES ARE NOT DESIGNED TO HANDLE THE HIGH CONCENTRATIONS OF SEDMENTS TYPICALLY FOUND IN CONSTRUCTION RUNOFF, AND THUS MUST BE PROTECTED FROM CONSTRUCTION RELATED SEDMENT LOADINGS.

33. ABUTTING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILING OPERATIONS FROM THIS PROJECT AT ALL TIMES, WORK ON ABUTTING PROPERTY SHALL REQUIRE WRITTEN AUTHORIZATION FROM THE OWNER PRIOR TO ARY LAND DISTURBANCE.

THE EROSION CONTROL MEASURES LLUSTRATED IN THIS PLAN SET SHALL BE THE WINMLIM REQUIRED CONTROLS IMPLEMENTED. THE CONTRACTOR SHALL KEEP ADDITIONAL EROSION CONTROL MEASURES SUCH AS SILT SOCKS ONSITE AT ALL TIMES TO RELOCATE OR ADD SUCH MEASURES AS THE PROJECT EVOLVES OR AN UNFORESEEN CONDITION OCCURS.

35. STOCKFILES SHALL BE LOCATED ONSITE OUTSIDE OF ALL WETLAND RESOURCE AREA BUFFER ZONES IF PRESENT ON SITE. EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE FOOT OF THE STOCKFILE AND AND SHALL BE COVERED TO PREVENT WASHOUT.

30. UNLESS OTHERWISE SPECIFIED, CONTINUE DEWATERING UNINTERRUPTED UNTIL THE STRUCTURES, PIPES, AND APPURTENANCES TO BE BUILT HAVE BEEN PROPERLY INSTALLED. WHERE SUBGRADE MATERIALS ARE UNABLE TO MEET SUBGRADE DENSITY REQUIREMENTS DUE TO IMPROPER DEMATERING TECHNIQUES, REMOVE AND REPLACE THE MATERIALS AS DIRECTED BY THE ENGINEER.

NOT FOR CONSTRUCTION REVISIONS



CIVIL ENGINEER:

COMMERCIAL DISTRICT

Civil Design GROUP, LLC

21 HIGH STREET, SUITE 207 NORTH ANDOVER, MA 01845 p: 978-794-5400 f: 978-965-3971

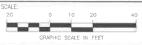
PREPARED FOR:

1650 WASHINGTON STREET, LLC

3 MICHAUD DRIVE FRAMINGHAM, MA 01701

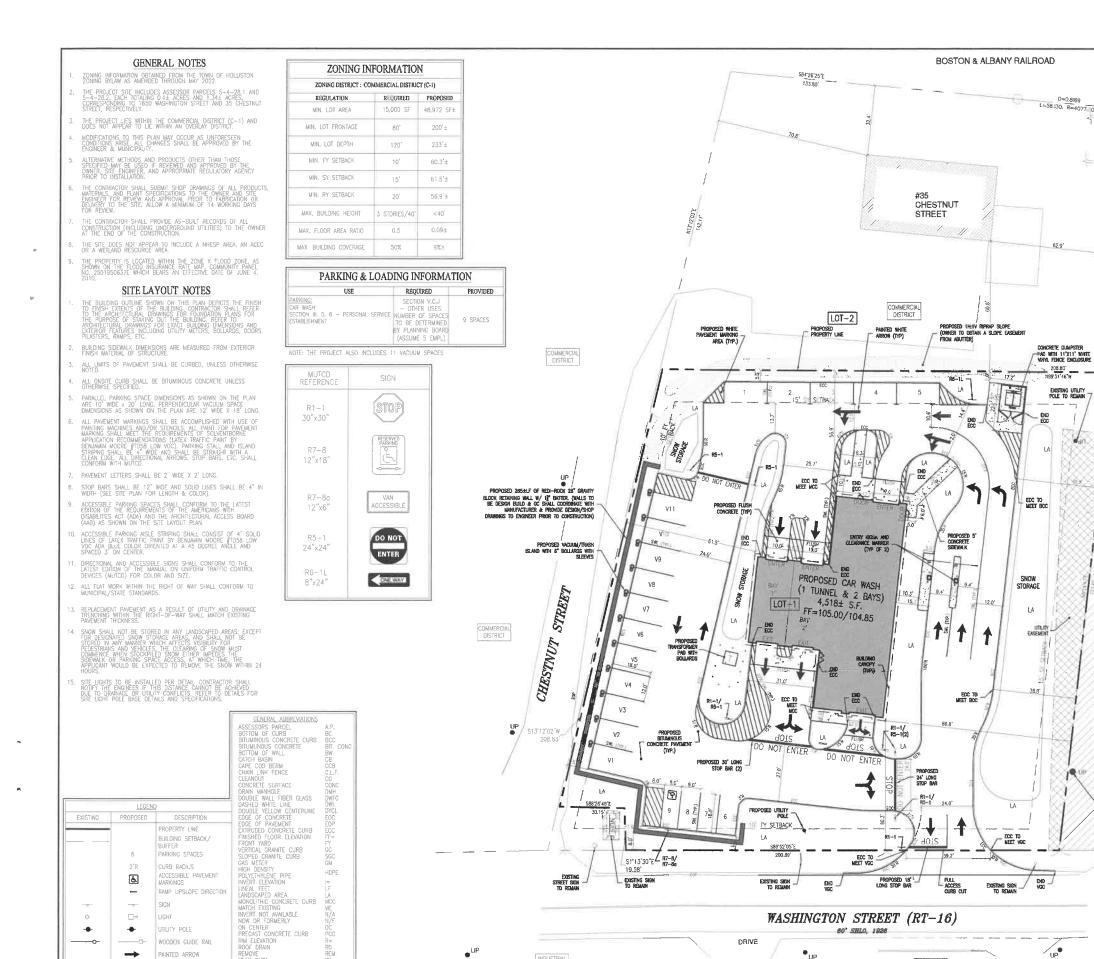
PROPOSED CAR WASH **DEVELOPMENT**

1650 WASHINGTON STREET (RT-16) HOLLISTON, MA 01746



DEMOLITION & EROSION CONTROL PLAN

07/14/2023



CONCRETE PAD/SIDEWALK ACCESSIBLE RAMP



COMMERCIAL DISTRICT

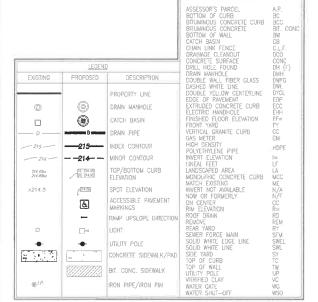
> COMMERCIAL DISTRICT

#1660 WASHINGTON STREET

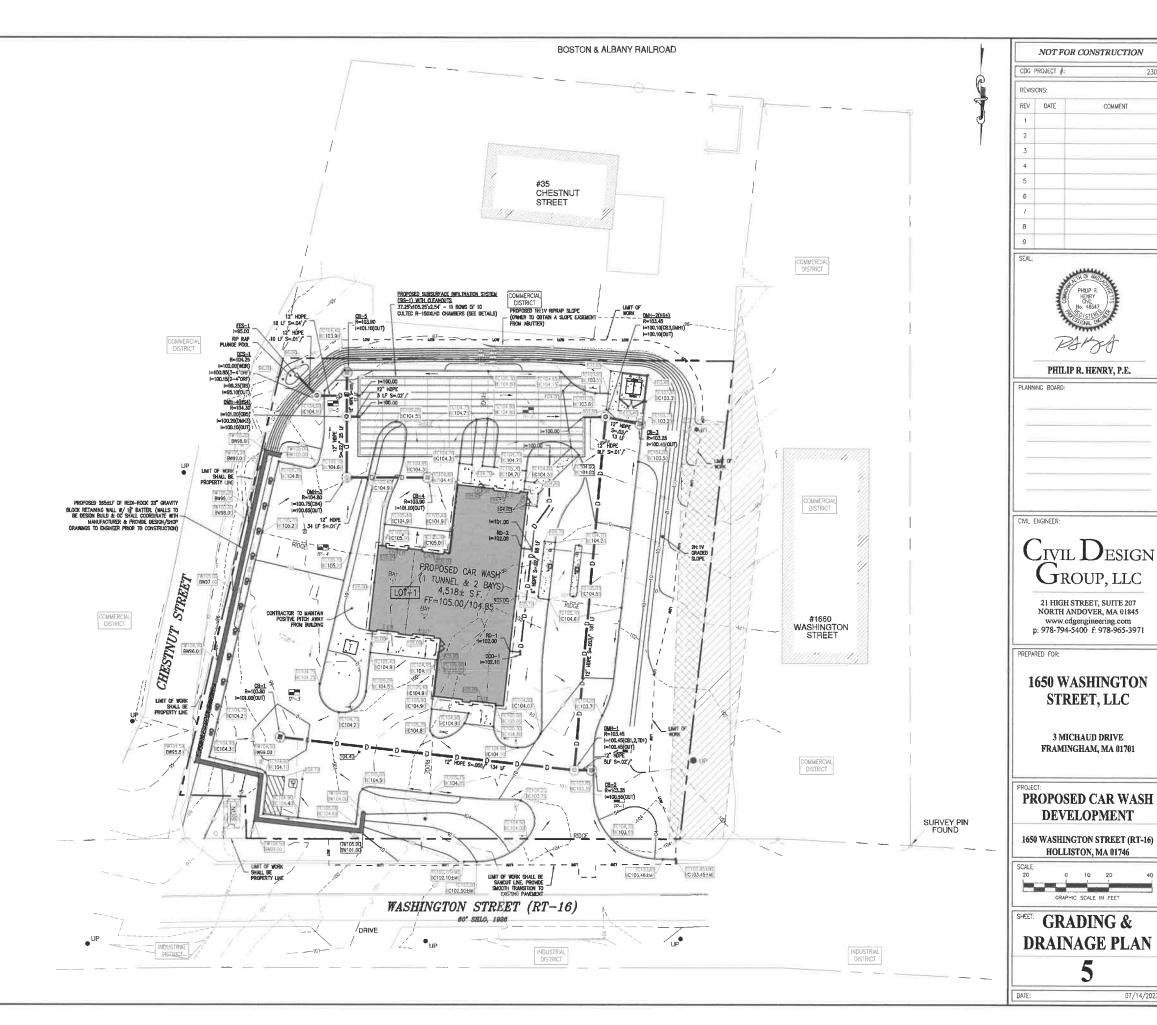
INDUSTRIAL DISTRICT

GRADING & DRAINAGE NOTES

- THE ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON THE DATUM REFERENCE ON THE EXISTING CONDITIONS PLAN.
- EXTERIOR ELEVATIONS ALONG EACH BUILDING SIDE MAY VARY IN ORDER TO ACHIEVE GRADE IN CERTAIN AREAS, CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM THE PROPOSED BUILDING.
- . NEW SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0% AND A MAXIMUM RUNNING SLOPE OF 5.0% UNLESS AN ADA COMPILANT RAMP IS PROVIDED. RAMPS SHALL NOT EXCEED AN 8.0% RUNNING SLOPE AND SHALL NOT EXCEED A 6 "RISE UNLESS A HANDRAIL IS PROVIDED. FURTHERMORE, ACCESSIBLE PARKNON SPACES AND PROXIMATE ACCESS ASLES SHALL BE SLOPED AT A MAXIMUM OF 2.0% IN ALL DIRECTIONS, SHOULD ANY DISCREPANCIES WITH THESE REQUIREMENTS ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER HAMEDATELY SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED.
- CONTRACTOR SHALL NOTIFY ENCINEER IF THE ILLUSTRATED CRADES CANNOT BE ACHIEVED WITHIN ACCESSIBLE AREAS, INCLUDING PARKING SPACES, ROUTES AND RAMPS.
- UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF THE CONSTRUCTION.
- 7. CURB SHALL TRANSITION FROM FLUSH TO FULL DEPTH REVEAL WITHIN 6 FEET.
- PROPOSED BOTTOM OF CURB ELEVATIONS ALONG EXISTING STREETS ARE BASED ON EXISTING CONDITIONS INFORMATION AND SHALL BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL MATCH EXISTING EDGE OF PAYEMENT GRADE.
- EXISTING DRAINAGE AND UTILITY RIM ELEVATIONS LOCATED WITHIN THE LIMIT OF WORK TO REMAIN SHALL BE ADJUSTED BY THE CONTRACTOR TO MATCH NEW FINISHED GRADE.
- 10. ALL FLAT WORK WITHIN THE RIGHT OF WAY SHALL CONFORM TO MUNICIPAL/STATE STANDARDS.
- 11. EXISTING TREES OUTSIDE OF THE LIMIT OF WORK SHALL BE PROTECTED DURING CONSTRUCTION.
- 12. ALL DISTURBED AREAS OUTSIDE THE LIMIT OF WORK SHALL BE RESTORED IN KIND.
- NEW DRAINAGE PIPE SHALL BE DUAL WALL CORRUGATED HDPE (ADS N-12 OR APPROVED EQUAL), UNLESS OTHERWISE SPECIFIED.
- 14. ROOF DRAIN LEADERS SHALL BE 6" HOFE PIPE, UNLESS OTHERWISE SPECIFIED.
- 15. ELEVATION OF LANDSCAPED AREAS ARE GIVEN AT PLANTED/SOD GRADE.
- 16. THE AREA BELOW THE SUBSURFACE INFILTRATION AREA SHALL BE LEFT UNCOMPACTED.
- 17. ANY DISTURBED AREAS THAT WILL NOT BE STABILIZED BY PAVEMENT OR BUILDING BASE COURSES SHALL BE SODDED OR SEEDED & MULCHED. MULCHING SHALL BE USED TO STABILIZE DISTURBED AREAS.
- 18. ALL BACK FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. BACK FILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATIVE MATTER, WASTE, CONSTRUCTION MATERNALS, OR OTHER OBJECTIONABLE WATERNAL, BACK FILL MATERNALS SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND THE MATERNAL SHALL HAVE NO TENDEMOLY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER TAMPING BLOWS OR PROOF ROLLING, ALL BACK FILL MATERNAL SHALL BE PLAED IN LOOSE 6—IN. LIFTS AND COMPACTED BY MECHANICAL MEANS, AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
- . ALL BULDINGS, SIGEWALK, AND PAVEMENT SUB-GRADES SHALL BE COMPACTED TO 98% OF ASTM D698 TO A DEPTH OF 12-IN. AND TO 95% OF ASTM 0698 BELOW 12-IN DEPTHS. ALL OTHER NON-STRUCTURAL AREAS SHALL BE COMPACTED TO 90% OF ASTM 0698.
- 20. PROPOSED CATCH BASINS SHALL INCLUDE ELIMINATOR HOODS AS SPECIFIED IN THE DETAILS
- 21. PROVIDE A SMOOTH, FLUSH TRANSITION BETWEEN ALL NEW AND EXISTING PAVEMENTS.



GENERAL ABBREVIATIONS



COMMENT

PHILIP R. HENRY, P.E.

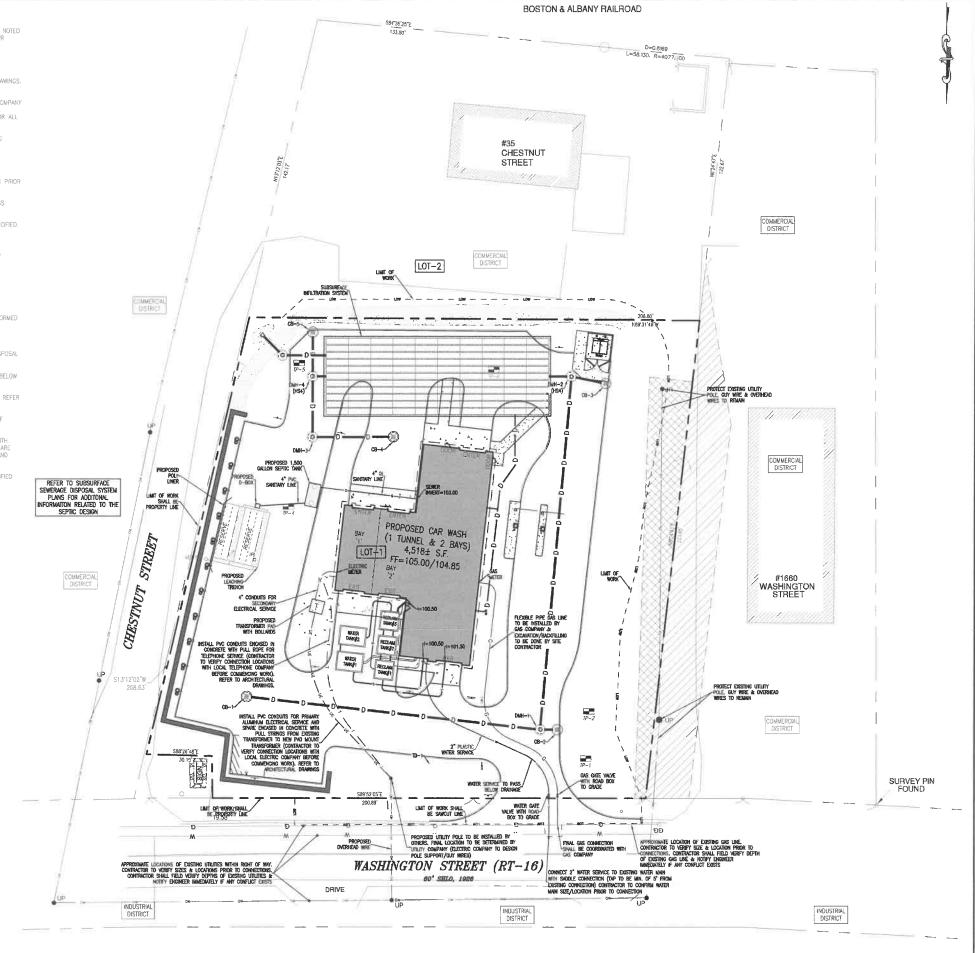
3 MICHAUD DRIVE

07/14/2023

UTILITY NOTES

- ALL WATER SERVICES SHALL BE INSTALLED WITH A MINIMUM 5' AND A MAXIMUM OF 6' OF COVER EXCEPT AS NOTED
 OR DETAILED OTHERWISE. GREATER DEPTHS ARE PERMITTED WHERE REQUIRED TO AVOID CONFLICTS WITH OTHER
 UTILITIES.
- ALL WATER SERVICE INSTALLATION METHODS AND TESTING REQUIREMENTS SHALL MEET OR EXCEED ALL LOCAL MUNICIPAL REQUIREMENTS.
- WATER, ELECTRICAL, TELEPHONE AND GAS MAINS DEPICTED IN THE RIGHT OF WAY ARE BASED ON RECORD DRAWINGS. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONNECTION.
- 4. PROPOSED GAS SERVICE LOCATION IS APPROXIMATE ONLY. THE CONTRACTOR SHALL CONFIRM WITH THE GAS COMPANY THAT GAS LINE INSTALLATION SHALL BE BY THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL GIVE THE GAS COMPANY ADVANCE NOTICE OF WHICH THE GAS LINE CAN BE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND COMPACTION FOR THE GAS LINE.
- DUE TO THE SCALE OF THE SITEWORK DRAWINGS, THE EXACT LOCATION OF UTILITY SERVICES TO THE BUILDING SHALL BE VERIFIED WITH THE BUILDING DRAWINGS.
- ALL UTILITIES, PIPE MATERIALS, STRUCTURES, AND INSTALLATION METHODS SHALL CONFORM TO MUNICIPALITY STANDARDS AND REQUIREMENTS.
- SUITABLE, TEMPORARY PLUGS SHALL BE INSTALLED IN THE OPEN ENDS OF UTILITY SERVICES TO THE BUILDING PRIOR TO BACKFILLING. STUB LOCATIONS SHALL BE MARKED IN THE FIELD SO THAT THEY MAY BE EASILY LOCATED.
- WATER SERVICES TO BE CUT & CAPPED AT MAIN AND SERVICE LINES SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE SPECIFIED.
- 9. GAS SERVICES TO BE CUT & CAPPED AT PROPERTY LINE AND ABANDONED IN PLACE, UNLESS OTHERWISE SPECIFIED.
- 10. WATER SERVICE CONNECTIONS SHALL BE INSPECTED BY THE MUNICIPAL WATER & SEWER DEPARTMENT.
- 11. ALL SITE ORAINAGE, WATER, AND SEWER WORK OUTSIDE THE BUILDING FOOTPRINT SHALL BE PERFORMED BY A LICENSED DRAIN LAYER.
- EXISTING DRAINAGE AND UTILITY RIM ELEVATIONS LOCATED WITHIN THE LIMIT OF WORK TO REMAIN SHALL BE ADJUSTED BY THE CONTRACTOR TO MATCH NEW FINISHED GRADE.
- CONTRACTOR TO FIELD VERIFY DEPTH OF EXISTING UTILITIES ALONG THE PATH OF THE PROPOSED UTILITY
 CONNECTIONS AND NOTIFY ENGINEER IMMEDIATELY IF A CONFLICT EXISTS.
- 14. EXCAVATION, CONDUIT INSTALLATION AND BACKFILLING FOR ELECTRICAL AND TELEPHONE SERVICES TO BE PERFORMED BY SITE CONTRACTOR.
- 15. ALL UTILITIES ARE TO BE LOCATED UNDERGROUND UNLESS OTHERWISE NOTED.
- 16. WASTEWATER FROM THE PROJECT WILL BE DIRECTED VIA GRAVITY SEWER PIPES TO INDIMIDUAL LOT SEWAGE DISPOSAL SYSTEMS. THE SEWERAGE DISPOSAL SYSTEMS WILL BE DESIGNED FINALIZED UNDER SEPARATE COVER.
- 17. SEWER SHALL NOT BE PLACED WITHIN 10' (HORIZONTALLY) OF A WATER LINE AND THE SEWER MUST BE 18" BELOW THE WATER LINE AT NECESSARY CROSSINGS.
- 18. THE ONSITE SEPTIC SYSTEMS HAVE BEEN DESIGNED BY OTHERS UNDER SEPARATE COVER. CONTRACTOR SHALL REFER TO THE SEPTIC DESIGN PLANS FOR ADDITIONAL INFORMATION AND DETAILS.
- 19. THE CONTRACTOR, ON BEHALF OF THE DEVELOPER, SHALL SUBMIT UTILITY AS—BUILT PLANS IN PAPER AND PDF FORMAT INCLUDING SWING TIES FOR SEWER AND WATER TO THE TOWN ENGINEERING DEPARTMENT.
- 20. THE CONTRACTOR SHALL COORDINATE ALL PROPOSED GAS, ELECTRIC, TELEPHONE, AND CABLE UTILITY WORK WITH THE RESPECTIVE UTILITY COMPANIES. THE PROPOSED CONNECTION LOCATIONS AND DETAILS PROVIDED HEREIN ARE FOR REPRESENTATION PURPOSES ONLY. FINAL CONNECTION POINTS AND DETAILS SHALL BE AS DETERMINED AND REQUIRED BY THE UTILITY COMPANIES.
- 21. TRANSFORMERS AND ASSOCIATED PROTECTIVE BOLLARDS SHALL BE PAINTED YELLOW, UNLESS OTHERWISE SPECIFIED BY THE OWNER OR UTILITY COMPANY.
- 22. GUY WIRES SHALL BE INSTALLED AS REQUIRED/DESIGNED BY THE UTILITY COMPANY.

CAR WASH EXTERIOR STRUCTURE INFORMATION						
STRUCTURE	RIM ELEVATION	INVERT ELEVATION				
RECLAIM TANK #1	104.45±	100.20(2",4",6"IN), 99.70(6"OUT)				
RECLAIM TANK #2	104.60±	99.70(6"IN)x2, 99.70(6"0UT)x2				
RECLAIM TANK #3	104.90±	99.70(6"IN)x2, 100.70(10"OUT), 99.45(6"OUT)				
WATER TANK #1	104.50±	99.15(2"iN), 92.00(6"EO),				
WATER TANK #2	104.75±	99 1 6":N 92 00(6"E0)				



NOT FOR CONSTRUCTION

PHILIP R. HENRY, P.E.

CIVIL DESIGN

GROUP, LLC

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www.cdgengineering.com

p: 978-794-5400 f: 978-965-3971

1650 WASHINGTON STREET, LLC

3 MICHAUD DRIVE FRAMINGHAM, MA 01701

PROPOSED CAR WASH DEVELOPMENT

1650 WASHINGTON STREET (RT-16) HOLLISTON, MA 01746

UTILITY

PLAN

0

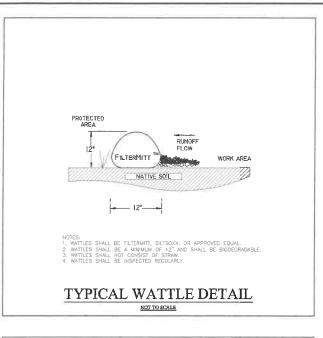
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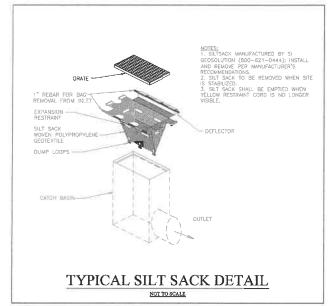
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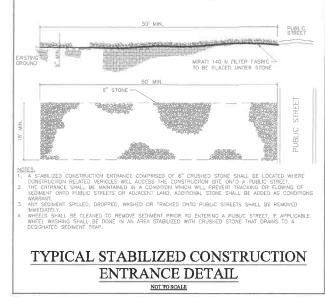
COMMENT

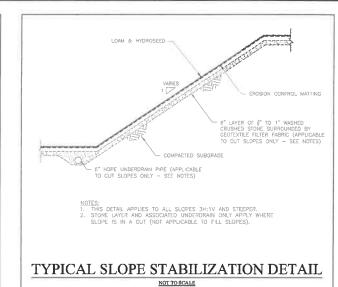
REVISIONS

REV











CIVIL DESIGN

 $G_{\text{ROUP, LLC}}$

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1650 WASHINGTON STREET, LLC

3 MICHAUD DRIVE

FRAMINGHAM, MA 01701

PROPOSED CAR WASH

DEVELOPMENT

1650 WASHINGTON STREET (RT-16) HOLLISTON, MA 01746

AS NOTED

CONSTRUCTION

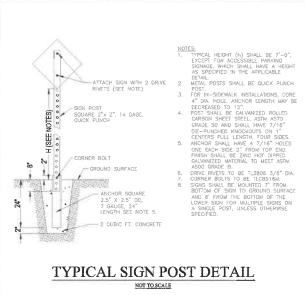
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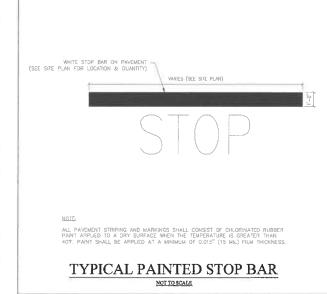
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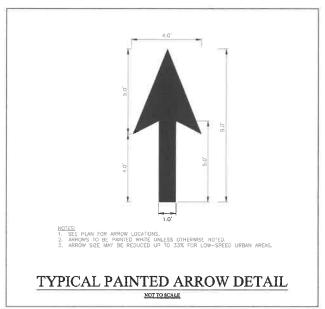
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COMMENT

REVISIONS:

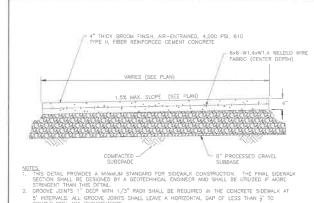






TYPICAL EXTRUDED CURB DETAIL

NOT TO SCALE



2. GROUPE JUDIN'S : DEEP WITH 1/3 PARIN SHALL BE REQUIRED IN THE CONDRETE SIGEWALK AT 5' INTERNALS. ALL GROVE JOHNTS SHALL LEAVE A HORIZONTAL GAP OF LESS THAN 3' TO COMPLY WITH ADA REQUIREMENTS.
ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 40' INTERNALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIREWALK JOINS ANY PRIOS STRUCTURE. EXPANSION JOINT WILL BE REQUIRED WHERE THE SIREWALK JOINS ANY PRIOS STRUCTURE. EXPANSION JOINT FOR THE STRUCTURE AND STRUCTURE. AND STRUCTURE AS MOOTH TANSITION ACROSS SOURCES, AND STRUCTURE AND REQUIREMENTS.
4. FLAT WORK WITHIN THE MUNICIPAL RIGHT OF WAY SHALL BE CONSTRUCTED IN CONFORMANCE WITH MUNICIPAL STANDARDS SPECIFICATIONS.

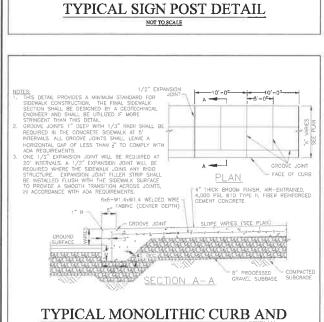
TYPICAL CONCRETE SIDEWALK DETAIL

BASE COURSE -WHITE I NOTES: 1. REFER TO LAYOUT PLANS FOR LOCATIONS OF VARIOUS CURB TYPES.

ADHESIVE/BONDING AGENT USED.

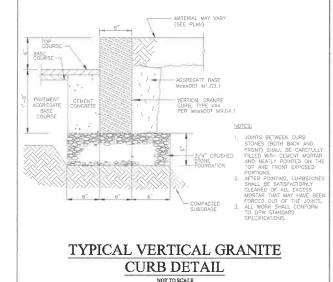
3. CONTROL JOINTS SHALL BE INSTALLED AT NINE FOOT INTERVALS (OR AS RECOMMENDED BY THE MANUFACTURER/INSTALLER) AND AT ALL RADIUS POINTS TO MINIMIZE CRACKING.

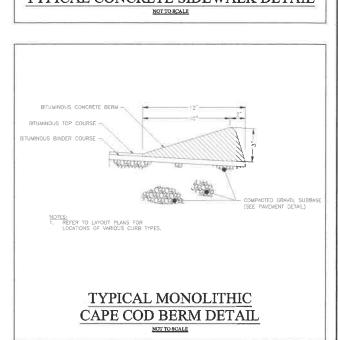
4. THE FIRMSHED CURBING SHALL BE COATED WITH A CURRIO COMPOUND DESIGNED TO STAL THE SURFACE AND FORM A WATERPROOF MEMBRANE TO RETARD THE LOSS OF WATER FROM THE FRESH CONDERCE. THE MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWER.

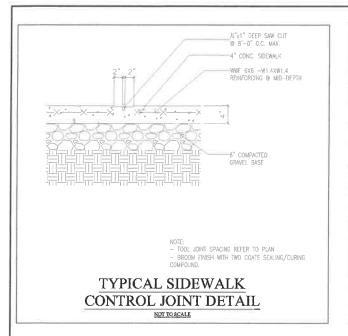


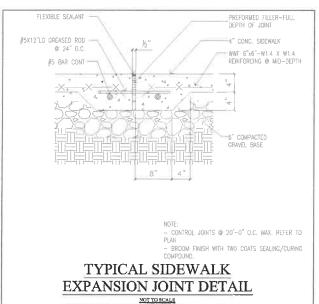
SIDEWALK DETAIL

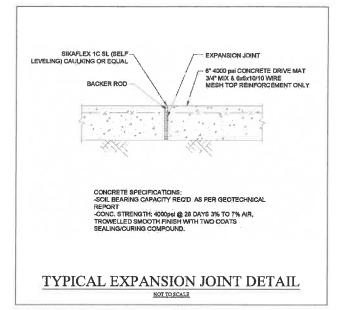
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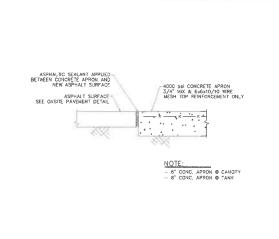




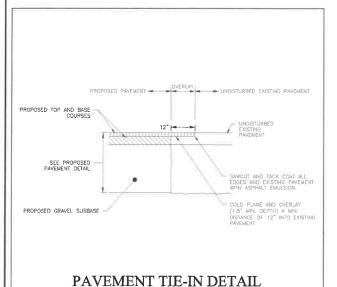


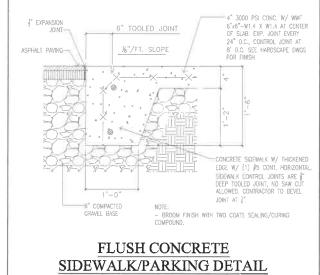


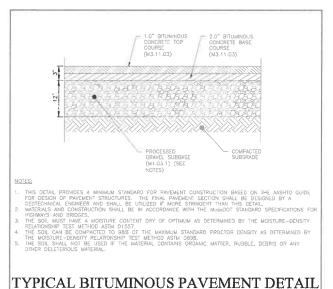


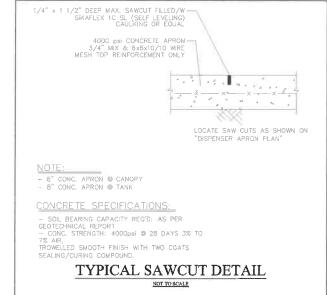


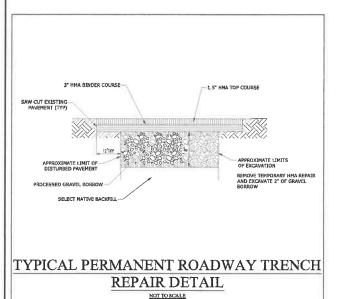
TYPICAL ASPHALT /CONCRETE TRANSITION DETAIL NOT TO SCALE

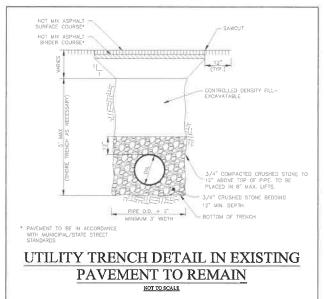


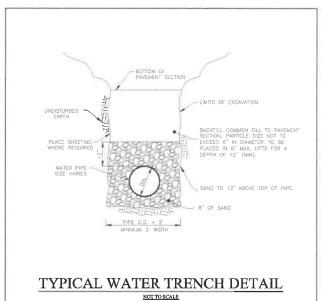


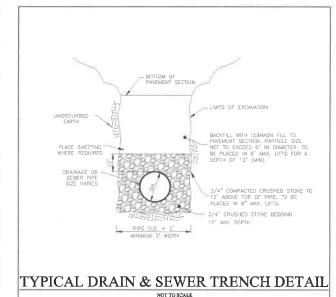












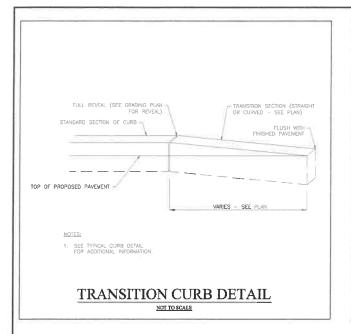


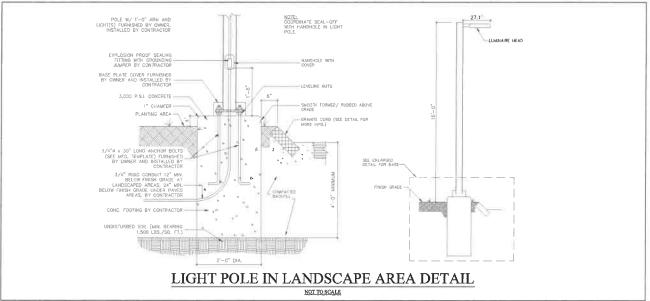
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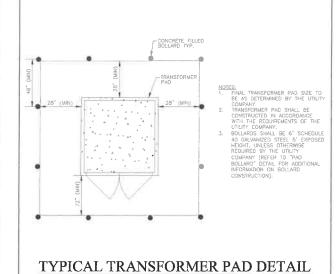
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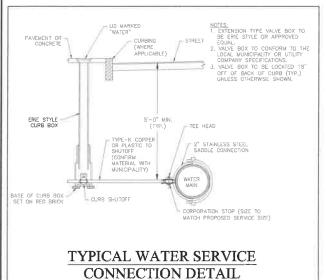
NOT FOR CONSTRUCTION

REVISIONS:

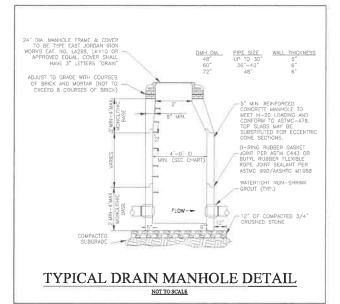


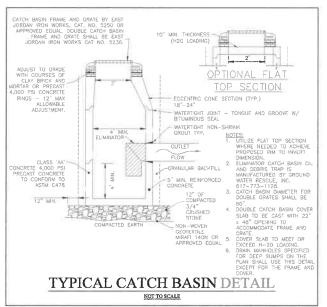


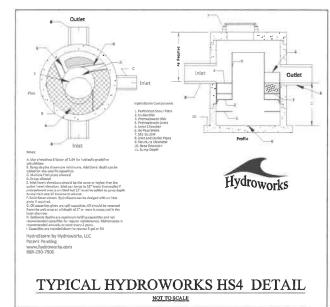


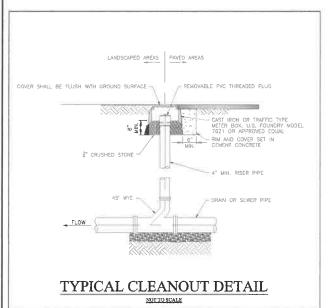


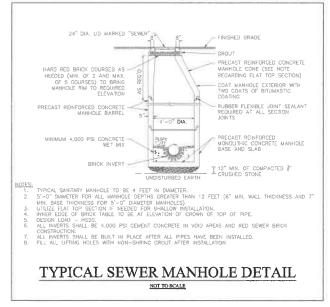
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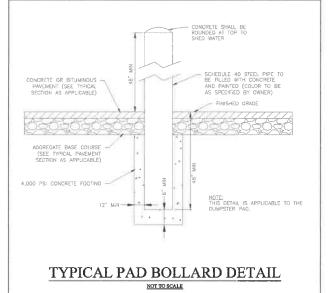


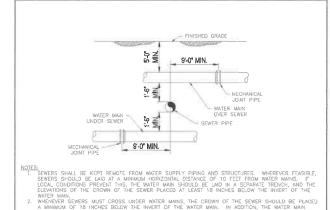








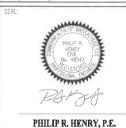




CHUSSING.
WHEN IT IS IMPOSSIBLE TO OBTAIN HORIZONTAL OR VERTICAL SEPARATION AS STRULATED ABOVE, BOTH
THE WATER AND THE SEWER PIPING SWALL BE CONSTRUCTED SUCH THAT THE PIPE JOINTS ARE PLACED
AS FAR AWAY FROM THE CROSSING AS POSSIBLE AND THE PIPE CROSSING SHALL BE SLEEVED A
DISTANCE OF TO FEET ON ALL SIDES OF THE CROSSING.

WATER/SEWER CROSSING DETAIL

NOT FOR CONSTRUCTION COMMENT



CIVIL DESIGN

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CIVIL ENGINEER:

1650 WASHINGTON STREET, LLC

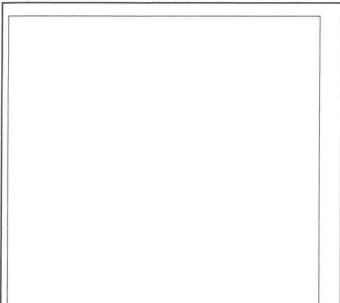
> 3 MICHAUD DRIVE FRAMINGHAM, MA 01701

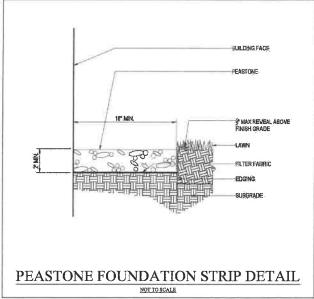
PROPOSED CAR WASH DEVELOPMENT

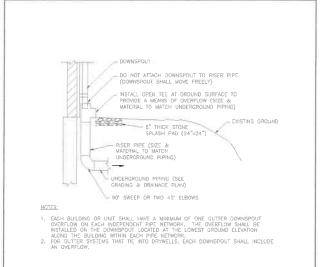
1650 WASHINGTON STREET (RT-16) HOLLISTON, MA 01746

AS NOTED

CONSTRUCTION **DETAILS**







GUTTER DOWNSPOUT DETAIL

WIDTH OF MARKING WIDTH OF SYMBOL -BLUE PAINT WHITE PAINT (3" STROKE WIDTH)

TYPICAL ACCESSIBLE PARKING SPACE MARKING DETAIL

NOT FOR CONSTRUCTION

COMMENT

COG PROJECT # REVISIONS: REV DATE

PHILIP R. HENRY, P.E.

CIVIL DESIGN GROUP, LLC

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1650 WASHINGTON STREET, LLC

> 3 MICHAUD DRIVE FRAMINGHAM, MA 01701

PROPOSED CAR WASH DEVELOPMENT

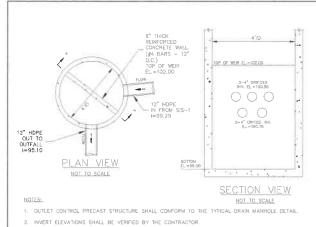
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AS NOTED

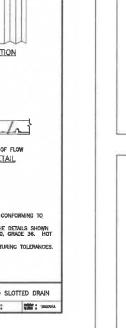
CONSTRUCTION **DETAILS**

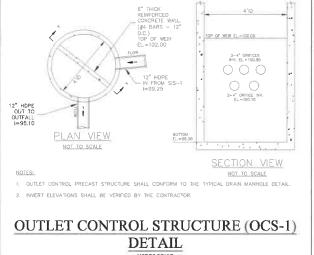
07/14/2023

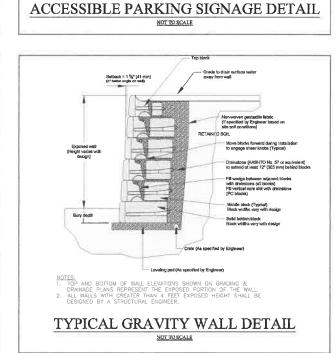
4"x10" PT SOUTHERN YELLOW PINE RAIL WOODEN GUIDE RAIL DETAIL



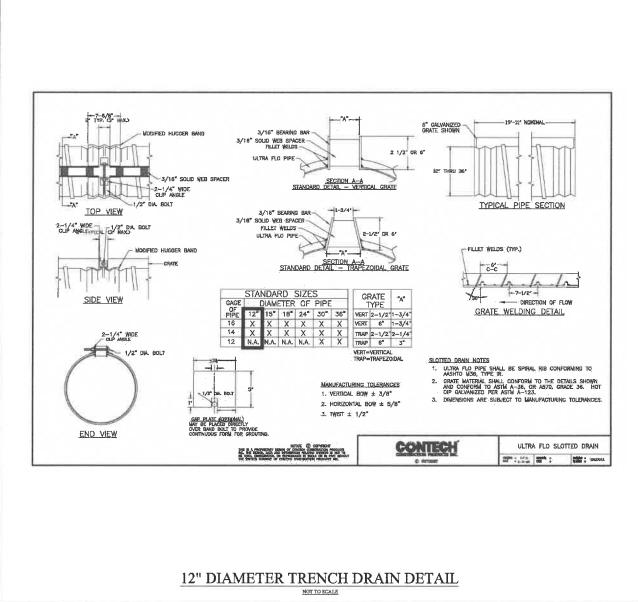
OUTLET CONTROL STRUCTURE (OCS-1) **DETAIL**

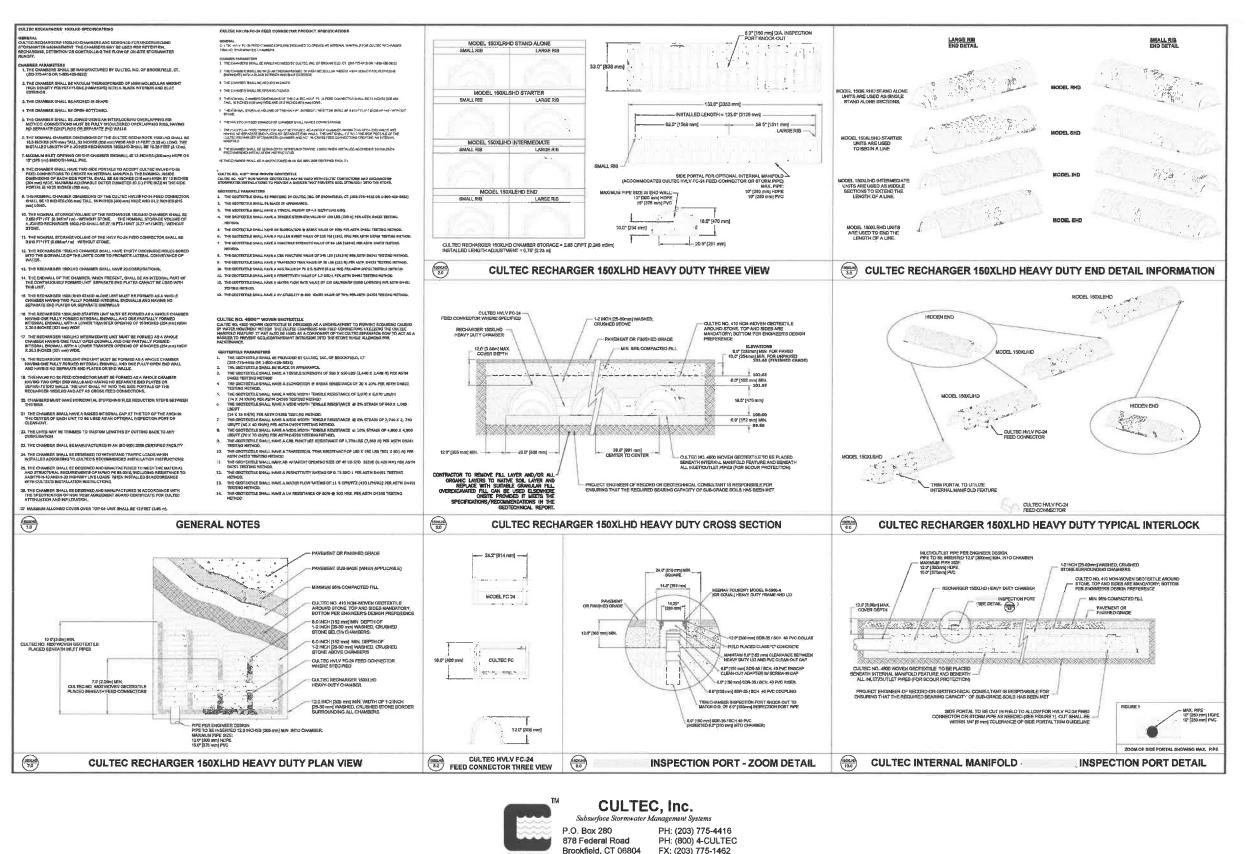






A MINIMUM OF 5' TO BOTHOM UP SHAN AND A MAXIMUM OF 8' TO TOP OF SIGN IN ORDER TO COMPLY WITH APPLICABLE ADA AND AMB REQUIREMENTS. VAN ACCESSIBLE SIGN SHALL BE USED ON ONE PARKING SPACE PER BULDING, SUCH THAT THE STRIPED ACCESSIBLE ASILE SON THE PASSENGER SIDLE OF THE VAN SPACE.





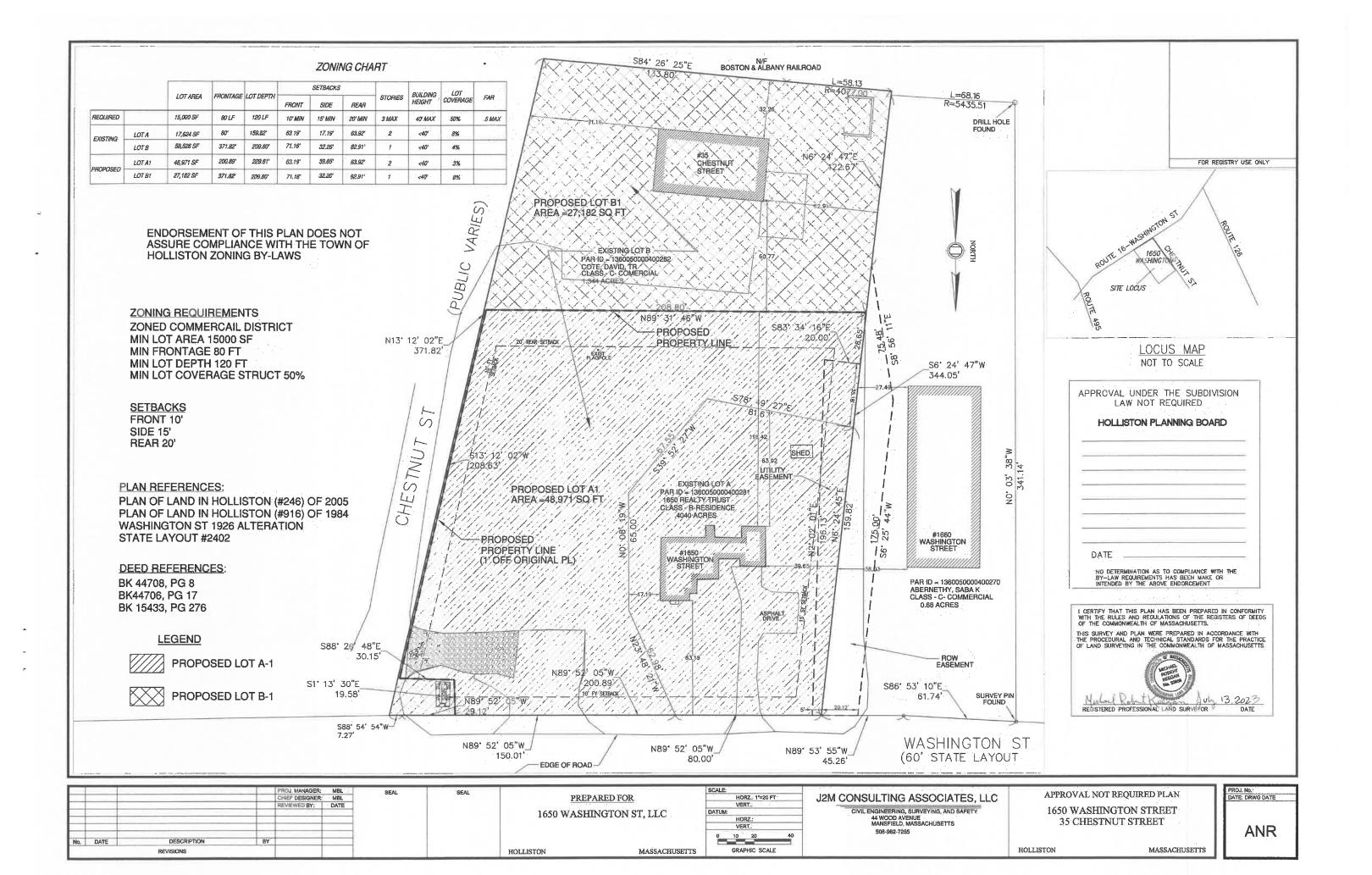
NOT FOR CONSTRUCTION CDG_PROJECT_#-REVISIONS: REV DATE COMMENT PHILIP R. HENRY, P.E. CIVIL DESIGN Group, LLC 21 HIGH STREET, SUITE 207 NORTH ANDOVER, MA 01845 www.cdgengineering.com p: 978-794-5400 f; 978-965-3971 1650 WASHINGTON STREET, LLC 3 MICHAUD DRIVE FRAMINGHAM, MA 01701 PROPOSED CAR WASH DEVELOPMENT 1650 WASHINGTON STREET (RT-16) HOLLISTON, MA 01746 AS NOTED CONSTRUCTION **DETAILS**

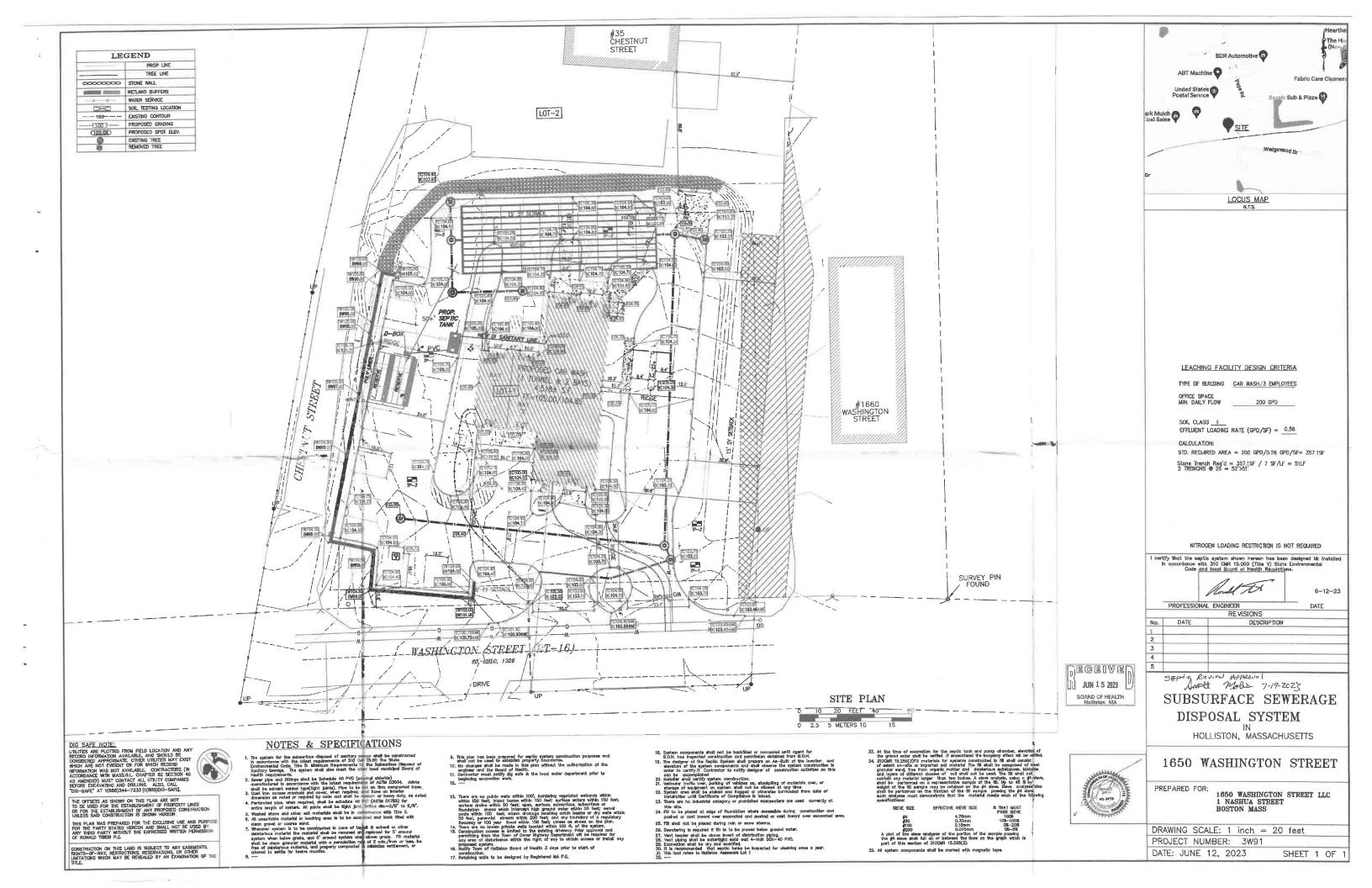
CULTEC Www.cultec.com

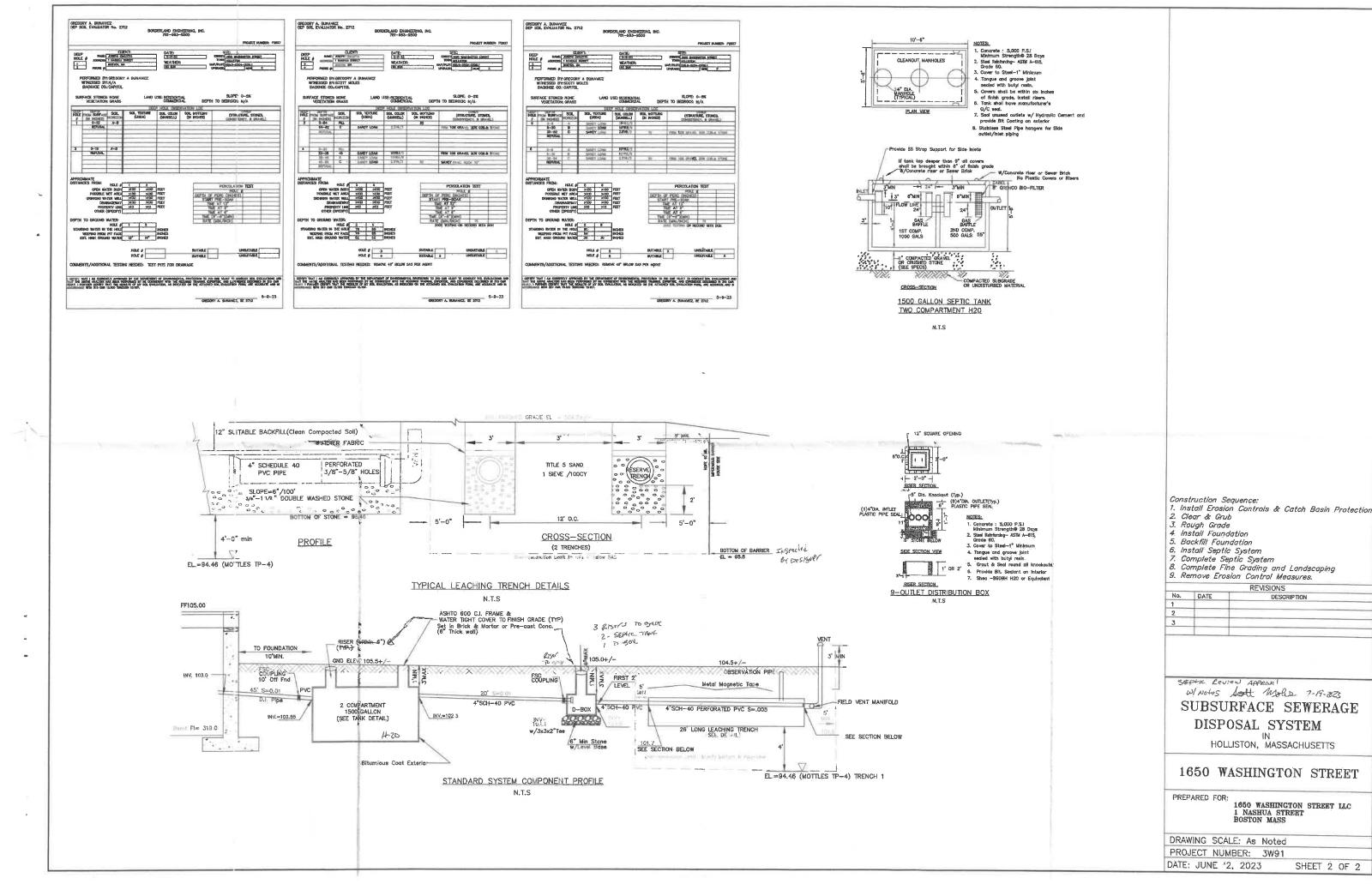
FX: (203) 773-1462
tech@cultec.com

CULTEC RECHARGER150XLHD DETAILS

NOT TO SCALE





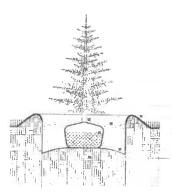


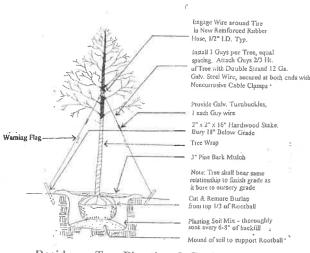




GROUNDCOVER PLANTING

- SARK MULCH 75mm (5") MOL





Deciduous Tree Planting & Guying

Notes & Goals:

- . To create a landscape that maximizes and retains open space.
- Using native and drought tolerant species of plants.
- To provide open areas for snow storage on site.
- To provide street trees, such as the Red Maple that are tolerant to many conditions such as salt/sand and plowing in the winter, drought tolerant, and easy to maintain. The Red Maple trees maintain a neat, oval canopy, not getting too large. Setting them back off the street will allow for open view points and keep back from the utility poles on site.
- The existing street signs will remain and be planted with a hardy, neat, colorful landscapes around them.
- Provide low growing plants near the exit and entrances to the car wash so all site lines are kept open for vehicles and pedestrians. This can be done with long time, low growing, native perennials.
- Provide seasonal color with evergreens, that also provide shelter for birds in the winter, and Spring, Summer and Fall flowers that will also be pollinators for birds, butterflies, bees, and hummingbirds. There will be plants that bloom early in the Spring right until Frost. With continual color throughout the seasons, this property will always provide a welcoming atmosphere.
- To provide a easy to maintain, drought tolerant, with a nice neat appearance so this property will always look tidy and appealing to the customers and pedestrian/vehicular traffic on Washington Street.



Plant Schedule

Qty. Latin Name

	Acer rubrum 'October Glory'	October Glory Red Maple	B&B	2.5-3"c	Red fall leaves, oval canopy, native very tolerant
0	Calamagrostis Karl Foerster	Karl Foerster Feather Reed Grass	CONT	3 Gal.	
	Echinacea 'White Swan'	White Coneflower	CONT	1 Gal.	24-30"H, perennial, sun loving, June-frost, elegant
	Echincea	Purple Coneflower	CONT	1 Gal.	24"H, Native, drought tolerant, flowers until Frost
	Liatris	Liatris	CONT	I Gal.	2-3'H, spreading perennial, purple flowers July-Sept. Native
3	Hex glabra 'Shamrock'	Dwarf Inkberry	CONT	3 Gal.	Native, rounded, hardy, evergreen hedge, no care, neut habit
	Itea	Sweetspire	CONT	2 Gal.	Native, white drooping flowers, bright red fall leaves, hardy
	Magnolia virginiana	Sweet Bay Magnolia	B&B	7-81	White spring flowers, native, beautiful white spring flowers
	Miscanthus sinensis Morning Light	Morning Light Miscanthus	CONT	2 Gal.	3-4', Variegated thin leaves, silvery arching grass, very hardy
	Nepeta 'Cat's Meow'	Cat Mint		1 Gal.	12-18"H, Lavender flowers May-Sept., spreading, sun-semi
	Phlox paniculate	Sweet William Phlox	CONT	I Gal.	24-30"H, various colors, July-August, perennial, native
	Picea glauca	White Spruce	B&B	7-8"	Evergreen, very tolerant, native, stays dense
	Rosa Drift Bright Pink	Bright Pink Drift Rose	CONT	2 Gal.	Small shrub, pink double blossoms, casy care, hardy
	Rosa Drift Light Pink	Light Pink Drift Rose	CONT	2 Gal.	Color from June until Frost, very hardy, likes full sun
2	Rudbeckia Goldstrum	Black Eyed Susan		1 Gal.	Yellow flowers, dark center, 24"H, sun, Aug-frost, native
	Viburnum trilobum	Highbush Cranberry Viburnum		5 Gal.	8-10°H, white spring flowers, red fruit late summer, native
00	Vinca minor	Common Periwinkle	TRAY	25/tray	Evergreen groundcover, purple flowers, hardy, native









Planting Schedule:

Planting may commence as soon as the ground has thawed at the nursery, and at the site of planting, and weather conditions make it practicable to work both at the nursery and at the site.

Planting shall not occur any later than the following:

Sept 1- Nov 1 Deciduous Trees and Shrubs July 15 Evergreen Trees and Shrubs Sept 1- Nov 1

Mulch shall be 100% fine-shredded dark pine back of uniform size applied to a uniform depth of 3".

Seeding:

Seeding shall be hydroseeded.

Composed of the following varieties, mixed to the specified proportions.

Kentucky Blue grass 70% Chewings Fescue 15% Creeping Red Rescue 15%

Seeding Rate 3 lbs/1000 sq ft.

PROJECT #: REV DATE COMMENT SEAL:

NOT FOR CONSTRUCTION



PHILIP R. HENRY, P.E. PLANNING BOARD:

LANDSCAPE DESIGNER:

CARIN GOSSELIN CMG DESIGN 203 CROSS STREET NORWELL, MA 02061 781-249-2211

PREPARED FOR:

1650 WASHINGTON STREET, LLC

3 MICHAUD DRIVE FRAMINGHAM, MA 01701

PROPOSED CAR WASH DEVELOPMENT

1650 WASHINGTON STREET (RT-16) HOLLISTON, MA 01746

AS NOTED

LANDSCAPE **DETAILS**

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07/14/2023





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Consultant:

Revision:

Architect of Record:

Drawn: Author

Checked: Checker

Scale:

Key Plan:

Project Name: CAR WASH @ HOLLISTON

1650 WASHINGTON ST, HOLLISTON

Sheet Name:

COVER PAGE

Project Number:

2023-002

Issue Date:

08/22/2023

Sheet Number:

T0.01

SHEET LIST T0.01 COVER PAGE A0.01 ARCHITECTURAL SITE PLAN
A1.01 FLOOR PLANS
A1.02 FLOOR PLANS A1.03 BUILDING ELEVATIONS
A1.03. EXTERIOR ELEVATIONS
A1.04. EXTERIOR ELEVATIONS



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Revision:



Drawn: Author Checked: Checker

Scale: 3/16" = 1'-0"

Architect of Record:

Scale:

11 SIDE ELEVATION - 01 Scale: 3/16" = 1'-0"



Project Name:

CAR WASH @ HOLLISTON

1650 WASHINGTON ST, HOLLISTON

Sheet Name:

EXTERIOR ELEVATIONS

Project Number:

2023-002

Issue Date:

08/22/23

Sheet Number:

A1.03.

8/22/2023 9:04:54 PM C:\ Revit Local 2021/2023-02-16 Holliston V

10 FRONT ELEVATION Scale: 3/16" = 1'-0"



D: (781) 827 1664 V.24X36DESIGNSTUDIO.COM						
ultant:						



Architect of Record:

Drawn: Author

Checked: Checker 3/16" = 1'-0"

Scale:

Project Name: CAR WASH @ HOLLISTON

1650 WASHINGTON ST, HOLLISTON

Sheet Name:

EXTERIOR ELEVATIONS

Project Number:

2023-002

Issue Date: 08/22/23

Sheet Number:

A1.04.



11 REAR ELEVATION Scale: 3/16" = 1'-0"

10 SIDE ELEVATION Scale: 3/16" = 1'-0"