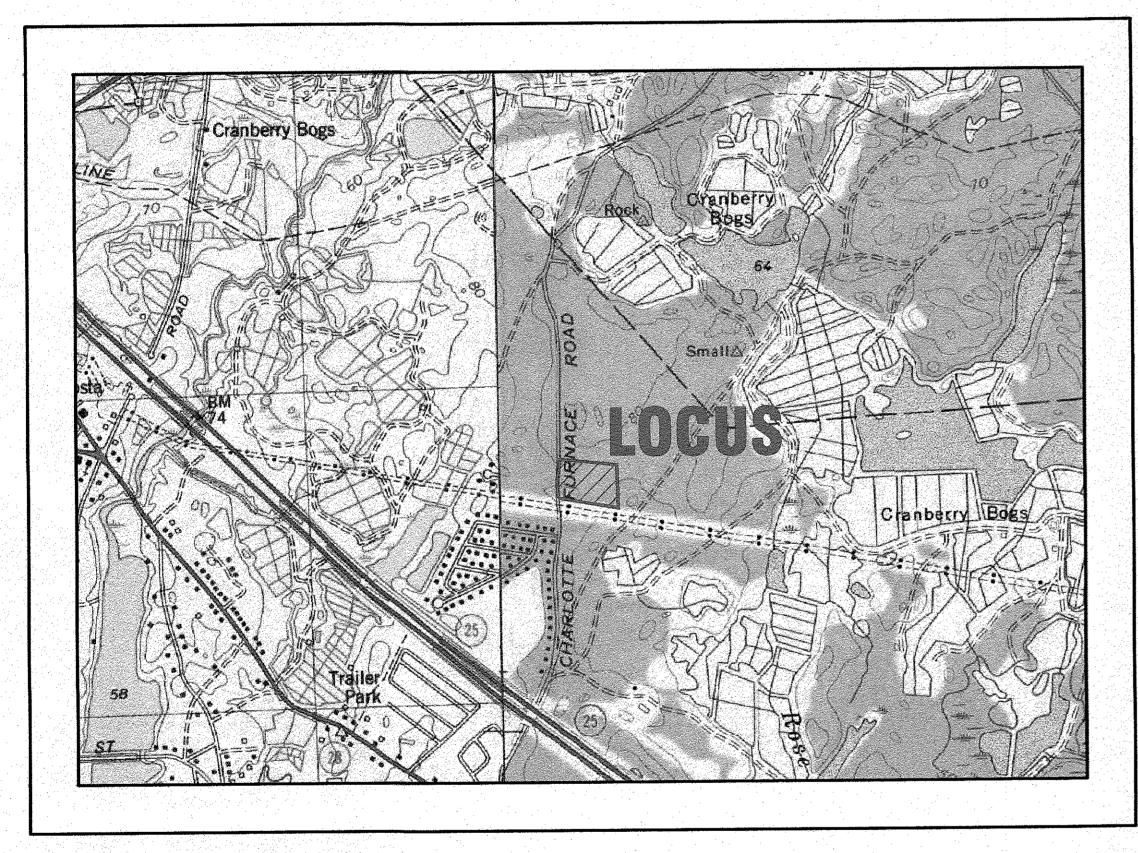
MASTER MILLWORK, INC.

SITE DEVELOPMENT PLAN
55 CHARLOTTE FURNACE ROAD
WAREHAM, MASSACHUSETTS

OWNER: MASTER MILLWORK, INC.

41 MEETING HOUSE LANE, SUITE 11 SAGAMORE BEACH, MA 02562



- <u>U.S.G.S. LOCUS PLAN</u> - SCALE: 1"=1000"

SITE DATA

ZONING DISTRICT: BDOD

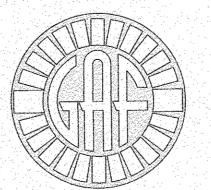
ASSESSOR'S MAP: 105
ASSESSOR'S LOTS: MA2
REQUIRED LOT AREA: 87,120 S.F.
MIN. FRONTAGE: 100'
MIN. FRONT SETBACK: 25'
MIN. SIDE & REAR SETBACK: 10'
MAX. PRINCIPAL BUILDING HEIGHT: 40'
MAX. BUILDING COVERAGE: 25%
MAX. FLOOR AREA RATIO: 75%
MAX. IMPERVIOUS COVERAGE: 65%
WATER SUPPLY: TOWN WATER
SANITARY SEWER: ON SITE SEPTIC
LANDSCAPE BUFFER: 10'

ZONING DATA:

ZONING	TABLE	ALLOWED	EXISTING	PROVIDED	
		- ·		(SAME AS EXISTING)	
FRONT SE	TBACK:	25'	178.8'	(SAME AS EXISTING)	
SIDE SE		10'	40.3	(SAME AS EXISTING)	
REAR SE		10'	217.0'	64.3'	
MAX. BUILDING COV		25%	7.7%	24.1%	
MAX. LOT COV	ERAGE:	65%	23.9%	56.1%	

FLOOD ZONE DATA:

THE ENTIRE LOCUS IS LOCATED IN FLOOD ZONE X, AS INDICATED ON FEMA FIRM MAP# 25023C0486J DATED: JULY 17, 2012.



G.A.F. ENGINEERS & LAND SURVEYORS

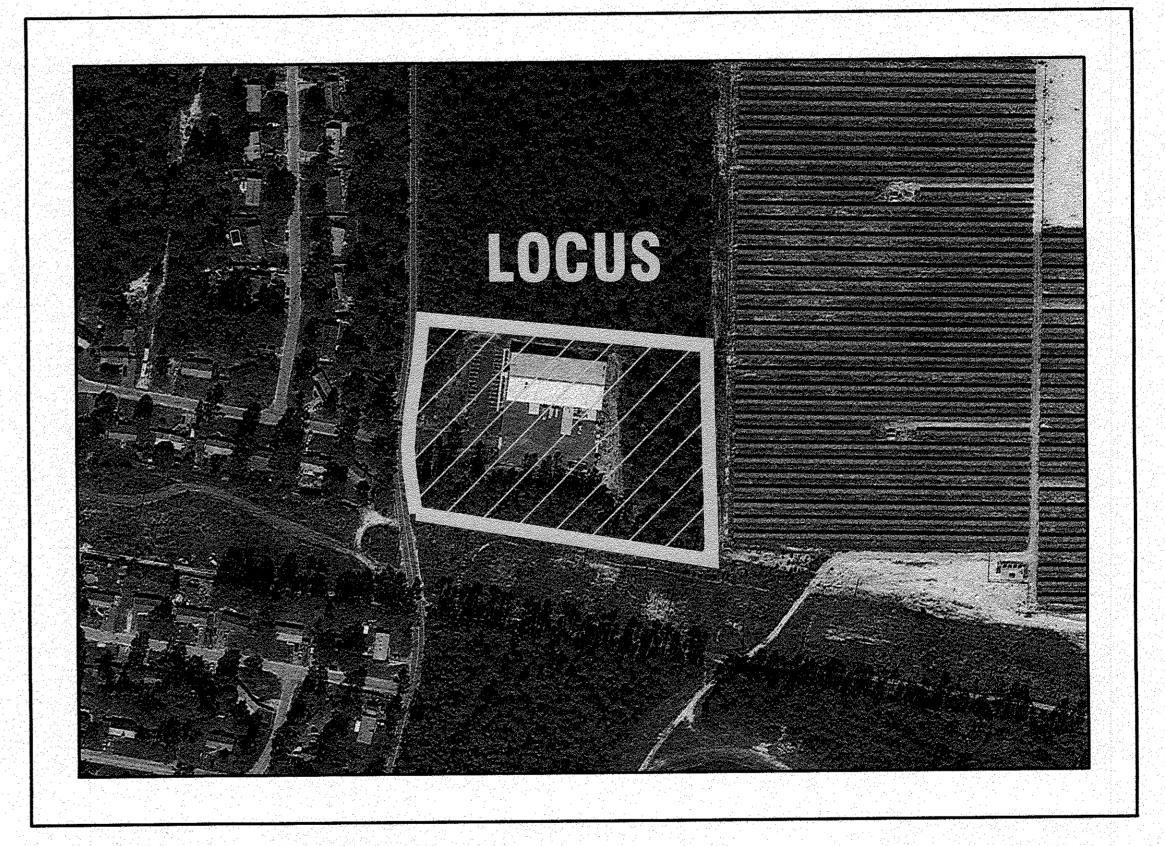
266 MAIN STREET, WAREHAM, MA 02571 TEL: (508) 295-6600 FAX: (508) 295-6634 E-MAIL: gaf@gaf-eng.com

JULY 8, 2020

APPLICANT: MASTER MILLWORK, INC.

41 MEETING HOUSE LANE, SUITE 11

SAGAMORE BEACH, MA 02562



- AERIAL OVERVIEW -

SCALE: 1"=200'

PLAN INDEX:

SHEET NO.	<u>DESCRIPTION</u>
1 2 3 4	COVER SHEET GENERAL NOTES & LEGEND EXISTING CONDITIONS & DEMOLITIC LAYOUT & UTILITIES GRADING & DRAINAGE
5	LANDSCAPING PLAN
	DETAIL SHEET 1
(1)	DETAIL SHEET 2
9	DETAIL SHEET 3
10	DETAIL SHEET 4
ARCH1	PLAN VIEW
ARCH2	ELEVATIONS
RAB-1	LIGHTING PLAN

PARKING DATA:

REQUIRED (OFFICE): 1 SPACE PER 250 S.F. G.F.A.
10,000 S.F./250 S.F.=40 SPACES
REQUIRED (WAREHOUSE): 1 SPACE PER 1.5 EMPLOYEES ON
LARGEST SHIFT PLUS ONE PER VEHICLE STORED ON PREMISES.
PROPOSED NUMBER OF EMPLOYEES=50
NUMBER OF PARKING SPACES REQUIRED=34

TOTAL REQUIRED: 74 SPACES

PROVIDED: 85 SPACES (EXISTING & PROPOSED)

APPROVED BY:						
	DATE: JULY 8, 2020					
	DRAWN BY: JMP				74 A	
	CHECKED BY: WFM	3	9/2/20	JMP	WFM	3 9/2/20 JMP WFM REV. PARKING SCHEDULE,
	JOB NO.: 19-9342	2	2 8/20/20	JMP	WFM	JMP WFM REV. ZONING DATA TABL
	COALE. AS NOTED	-	8/10/20	UMP WFM	WFM	NO CHANGES THIS
	7100	REV.	DATE	ЬΒ	BY APP'D	DESCRIPTIO

APPROVED BY:

A PPROVED BY:

A 1/20

WILLIAM F. BERNADEN
CONIL.

NO. 32883

MADDEN
CONIL.

NO. 32883

MADDEN
T. MAMM.
T. MAMM.

CONAL ENGINEERS & LAND SURVEYORS
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E—MAIL: gaf@gaf—eng.com
AF. ENGINEERING, INC. NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED, ANY MEANS, ELECTRONIC AND OF THIS DOCUMENT MAY BE REPRODUCED, STORED, SS WRITTEN CONSENT OF GAF. ENGINEERING, INC. WITH THE EXCEPTION OF ANY SS WRITTEN CONSENT OF GAF. ENGINEERING, INC. WITH THE EXCEPTION OF ANY SS WRITTEN CONSENT OF GAF. ENGINEERING, INC. WITH THE EXCEPTION OF ANY SS WRITTEN CONSENT OF GAF. ENGINEERING, INC. WITH THE EXCEPTION OF ANY SS WRITTEN CONSENT OF GAF. ENGINEERING. INC. WITH THE EXCEPTION OF ANY SS WRITTEN CONSENT OF GAF. ENGINEERING. INC. WITH THE EXCEPTION OF ANY SEPREDUCE IT IN CONJUNCTION WITH THE EXCEPTION OF ANY INC. THE CONTROL OF THE

SITE DEVELOPMENT PLAN

COVER SHEET

RELOTTE FURNACE ROAD

WAREHAM, MA
PREPARED FOR:

MASTER MILLWORK, INC.

WITHOUTTH

WI

JOB NO.: 19-9342

1 1 OF 10

PERMIT SET

(NOT FOR CONSTRUCTION)

GENERAL NOTES:

- ALL UNDERGROUND UTILITIES SHOWN OR NOT SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND IN PART FROM FIELD SURVEY AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. BEFORE EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION, OR REPAIRING, ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE MGL CHAPTER 370, ACTS OF 1963. CONTRACTORS MUST CALL DIG-SAFE AT (1-888-DIG-SAFE OR 811) G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- EXISTING CONDITIONS INFORMATION IS BASED ON AN ON THE GROUND FIELD SURVEY BY GAF ENGINEERING ON VARIOUS DATES AND MOST RECENTLY IN JULY OF 2019.
- THE CONTRACTOR SHALL COORDINATE AND OBTAIN ALL REQUIRED PERMITS, GIVE ALL NOTICES, COMPLY WITH ALL LAWS AND REGULATIONS. AND PAY ALL FEES ASSOCIATED WITH THE INSTALLATION OF THIS WORK.
- THE CONTRACTOR SHALL FIELD VERIFY, PRIOR TO CONSTRUCTION ALL EXISTING UNDERGROUND UTILITY LOCATIONS AND POINTS OF INTERCONNECTION.
- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, SUPERVISION, TOOLS, EQUIPMENT, FUEL, POWER, SANITARY FACILITIES AND INCIDENTALS NECESSARY FOR THE FURNISHING, PERFORMANCE, TESTING, START-UP AND COMPLETION OF THIS WORK.
- 6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICTS DISCOVERED IN THE FIELD.
- ANY CHANGES TO THESE SITE PLANS THAT ARE MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS AND REPORTED TO THE OWNER AND ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN EXCAVATION AND TRENCH PERMIT PURSUANT TO 520 CMR 14.00 AS APPLICABLE PRIOR TO THE START OF CONSTRUCTION.

CONSTRUCTION NOTES:

- IN GENERAL, THE PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY FITTING, CHANGE IN DIRECTION OR DETAIL OF CONSTRUCTION.
- THE LOCATION OF UTILITIES WERE OBTAINED FROM VARIOUS SOURCES OF INFORMATION. THE EXACT LOCATION AND COMPLETENESS IS NOT GUARANTEED. THE CONTRACTOR MUST NOTIFY DIG SAFE PRIOR TO THE START OF CONSTRUCTION (1-888-DIG-SAFE OR 811). G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF PERSONNEL AND PROTECTION OF PROPERTY AT THE SITE OR ADJACENT THERETO INCLUDING TREES, SHRUBS, LAWNS, PAVEMENTS, ROADWAYS, STRUCTURES AND UNDERGROUND UTILITIES NOT DESIGNED FOR REMOVAL, RELOCATION, OR REPLACEMENT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION REQUIRED FOR THE INSTALLATION OF THIS WORK.
- ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND OF GOOD QUALITY.
- THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL AND OTHER DEBRIS RESULTING FROM THIS WORK.
- ALL PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AS PART OF THIS WORK.
- THE CONTRACTOR SHALL INSTITUTE ALL SAFETY MEASURES NECESSARY TO PROTECT THE PUBLIC SAFETY. THIS SHALL INCLUDE, BUT NOT LIMITED TO, BARRICADES, SIGNS, LIGHTING, FENCES, POLICE DETAILS, AND ANY OTHER MEANS AS DIRECTED. NO TRENCHES ARE TO REMAIN OPEN OVERNIGHT.
- ELEVATIONS ARE IN FEET AND TENTHS AND ARE BASED ON THE DATUM OF NAVD-88.
- 10. SIDE SLOPE GRADING SHALL BE AS NOTED ON THE SITE PLANS.
- 11. ALL SIDE SLOPES SHALL BE DRESSED WITH 4 INCHES OF TOPSOIL. WHERE SIDE SLOPES EXCEED 3:1, PROVIDE AN EROSION CONTROL BLANKET OVER THE PLANTED SEED BED. SEE PLAN FOR LOCATIONS.
- 12. PERMANENT SEEDING (BEFORE SEPTEMBER 15) LIME TO PH OF 6.5 ACCORDING TO SOIL TEST OR APPLY AT THE RATE OF 100 TO 150 LBS. PER 1,000 SQUARE FEET. APPLY 10-20-20 FERTILIZER AT 1,000 LBS. PER ACRE. INCORPORATE LIME AND FERTILIZER IN TOP 4 INCHES OF SOIL. SEED 100 LBS. PER ACRE OF THE FOLLOWING SEED MIX.

CREEPING RED FESCUE 30-35% PERENNIAL RYEGRASS 30-35% KENTUCKY BLUEGRASS 20-25%

ANNUAL RYEGRASS HYDRO SEEDING IS AN ALTERNATIVE FOR THIS APPLICATION. A MIXTURE OF SEED WATER AND MULCH IS SPRAYED ON THE SEED BED COMBINING THREE (3) SEPARATE ACTIONS INTO ONE (1) OPERATION

- 13. ALL SEWER AND PLUMBING WORK SHALL CONFORM WITH 248 CMR 10.00 UNIFORM STATE PLUMBING CODE AND THE TOWN OF WAREHAM SEWER DEPARTMENTS SPECIFICATIONS.
- REQUIREMENTS OF THE TOWN OF WAREHAM MUNICIPAL MAINTENANCE DEPARTMENT. 15. ALL UTILITY INSTALLATIONS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE TOWN, STATE AND FEDERAL
- REQUIREMENTS & REGULATIONS.

14. ALL METHODS AND MATERIALS SHALL CONFORM WITH MassDOT STANDARDS AND SPECIFICATIONS, AND THE

16. DEWATERING IF REQUIRED SHALL BE DIRECTED TO A 5' MIN. DIAMETER RING OF HAYBALES OR A DIRTBAG. CONTRACTOR SHALL PROVIDE AND MAINTAIN DEWATERING EQUIPMENT FOR THE CONTROL, COLLECTION AND DISPOSAL OF GROUND AND SURFACE WATER WHERE NECESSARY TO COMPLETE THE WORK.

EROSION CONTROL NOTES:

THE COMPLETION OF CONSTRUCTION.

10-15%

- THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENTATION CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE. SILT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS. ADDITIONAL PROTECTION: ON-SITE PROTECTION MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNFORESEEN CONDITIONS OR ACCIDENTS.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION CONTROL DEVICES WHICH BECOME INEFFECTIVE.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR ALL GRADING AND OTHER LAND DISTURBING ACTIVITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES UPON
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES. AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS.
- CONTRACTOR SHALL PROVIDE TEMPORARY GROUND COVER FOR ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF THIRTY DAYS OR MORE
- IF WORK ON THIS PROJECT IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL FACILITIES IN GOOD CONDITION DURING THE SUSPENSION OF WORK.
- 10. SPRINKLE OR APPLY DUST SUPPRESSERS TO MINIMIZE DUST AT THE CONSTRUCTION SITE. MAINTAIN DUST CONTROL MEASURES UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- THE CONTRACTOR WILL ALSO NEED TO COMPLY TO ANY ORDER OF CONDITIONS THAT MAY BE ISSUED BY THE TOWN OF WAREHAM CONSERVATION COMMISSION.

DRAINAGE OPERATION AND MAINTENANCE SCHEDULE:

THE OPERATION AND MAINTENANCE (O&M) SCHEDULE DURING THE CONSTRUCTION PERIOD IS THE RESPONSIBILITY OF THE CONTRACTOR. THE OUTLINE BELOW SHALL BE FOLLOWED TO ENSURE THE PROPER CONSTRUCTION AND FUNCTION OF THE DRAINAGE FACILITIES.

- IN CONJUNCTION WITH THE SITE CONSTRUCTION, ALL DRAINAGE STRUCTURES SHALL BE INSTALLED AND THE AFFECTED AREAS STABILIZED (LOAM AND SEED, HYDROSEED, PLANTED, RIP-RAP, ETC.). PERMANENT STABILIZATION OF THESE AREAS SHALL BE STARTED AS SOON AS POSSIBLE.
- 2. EROSION CONTROL SHALL BE PLACED ALONG THE LIMITS OF WORK WHERE SHOWN ON THE PLAN.
- ALL EXISTING CATCH BASINS SHALL HAVE A TEMPORARY SILT SACK INSTALLED IN THEM PRIOR TO CONSTRUCTION. ALL PROPOSED CATCH BASINS AND WATER QUALITY CATCH BASINS SHALL HAVE TEMPORARY SILT SACK INSTALLED IN THEM AS SOON AS THE STRUCTURE IS SET. CONTRACTOR SHALL REMOVE AND DISPOSE OF THEM AT THE COMPLETION OF CONSTRUCTION. ALL EXISTINTG AND PROPOSED CATCH BASINS AND WATER QUAILTY CATCH BASINS SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED STRUCTURES SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- THE INFILTRATION BASIN SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED STRUCTURES SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- 5. STONE FILLED TRENCHES SHALL BE COVERED WITH AN ADDITIONAL TEMPORARY LAYER OF FILTER FABRIC UNTIL THE ABOVE GRADIENT SLOPE IS STABILIZED. IF THERE IS ANY EVIDENCE OF SEDIMENT ENTERING THE TRENCHES, THE AFFECTED AREA OF THE TRENCH SHALL BE FULLY RECONSTRUCTED INCLUDING THE FILTER FABRIC.
- 6. THE LEACHING GALLEYS AND OIL/GRIT SEPARATOR SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED STRUCTURES SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- ALL AREAS SHALL BE INSPECTED WEEKLY, AND AFTER LARGE STORMS. IF THERE IS EVIDENCE OF EROSION, THE ERODED AREA SHALL BE RE-STABILIZED, AND MEASURES SHALL BE TAKEN TO PREVENT REOCCURRENCE. THIS SCHEDULE MUST BE ADHERED TO BY THE CONTRACTOR UNTIL THE PROJECT IS ACCEPTED BY THE OWNER.

POST-CONSTRUCTION OPERATION AND MAINTENANCE PLAN:

UPON THE COMPLETION OF CONSTRUCTION, MAINTENANCE SHALL BE CONDUCTED BY THE OWNER OR OWNER'S AGENT ON THE SITE. THE FOLLOWING SHALL BE CARRIED OUT BY THE RESPONSIBLE PARTY AND SHALL BE ADHERED TO ENSURE THE PROPER OPERATION OF THE DRAINAGE FACILITIES.

- PARKING LOT SWEEPING IS AN EFFECTIVE NONSTRUCTURAL SOURCE CONTROL THAT WILL REMOVE SEDIMENT FROM PAVED SURFACES. PARKING LOT SWEEPING SHOULD BE DONE BY THE USE OF A HIGH EFFICIENCY VACUUM SWEEPER OR REGENERATIVE AIR SWEEPER. PARKING LOT SWEEPING SHALL BE DONE TWICE PER YEAR. ONCE REMOVED FROM PAVED SURFACES, THE SWEEPINGS MUST BE HANDLED AND DISPOSED OF PROPERLY IN ONE OF THE WAYS APPROVED BY MASSDEP (SEE POLICY # BAW-18-001: REUSE & DISPOSAL OF STREET SWEEPINGS).
- NYLOPLAST DRAIN MANHOLES SHALL INSPECTED MONTHLY, AND SHALL BE CLEANED AT LEAST FOUR TIMES PER YEAR AND AT THE END OF THE FOLIAGE AND SNOW-REMOVAL SEASONS. ALL DEBRIS, SEDIMENTS AND HYDROCARBONS SHOULD BE HANDLED PROPERLY AND DISPOSED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL GUIDELINES AND REGULATIONS. IF THERE IS EVIDENCE THAT THEY HAVE BEEN CONTAMINATED BY A SPILL OR OTHER MEANS, THE CLEANINGS MUST BE EVALUATED IN ACCORDANCE WITH THE MASSDEP HAZARDOUS WASTE REGULATIONS, 310 CMR 30.000 AND HANDLED AS HAZARDOUS WASTE.
- PROPRIETARY CATCH BASINS (WATER QUALITY CATCH BASINS) ARE UNDERGROUND RETENTION SYSTEMS DESIGNED TO REMOVE TRASH, DEBRIS AND COARSE SEDIMENT FROM STORMWATER RUNOFF AND SERVE AS TEMPORARY SPILL CONTAINMENT DEVICES FOR FLOATABLES SUCH AS OILS AND GREASE. INSPECT THE UNITS MONTHLY AND CLEAN AT LEAST TWO TIMES PER YEAR AND AT THE END OF THE FOLIAGE AND SNOW-REMOVAL SEASONS. SEDIMENTS MUST ALSO BE REMOVED WHENEVER THE DEPTH OF DEPOSITS IS GREATER THAN OR EQUAL TO ONE HALF THE DEPTH FROM THE BOTTOM OF THE INVERT. SEDIMENT SHALL BE REMOVED THROUGH THE USE OF A VACUUM TRUCK. SEDIMENT MUST BE HANDLED AND DISPOSED OF PROPERLY IN ONE OF THE WAYS ALREADY APPROVED BY MASSDEP (SEE MASSDEP POLICY ON MANAGEMENT OF CATCH BASIN CLEANINGS). IF THERE IS EVIDENCE THAT THEY HAVE BEEN CONTAMINATED BY A SPILL OR OTHER MEANS, THE CLEANINGS MUST BE EVALUATED IN ACCORDANCE WITH THE MASSDEP HAZARDOUS WASTE REGULATIONS, 310 CMR 30.00 AND HANDLED AS HAZARDOUS WASTE.
- INFILTRATION BASIN AREAS SHALL BE INSPECTED AT LEAST FOUR TIMES PER YEAR TO ENSURE THE BASINS ARE OPERATING AS INTENDED. ALSO INSPECT THE BASINS DURING AND AFTER MAJOR STORM EVENTS TO DETERMINE IF THE BASINS ARE MEETING THE EXPECTED DETENTION TIMES. POTENTIAL PROBLEMS THAT SHALL BE CHECKED INCLUDE: SUBSIDENCE, EROSION, CRACKING OR TREE GROWTH ON THE EMBANKMENT SEDIMENT ACCUMULATION AROUND THE STONE FILLED TRENCH, DAMAGE TO THE EMERGENCY SPILLWAY, SEDIMENT ACCUMULATION AROUND THE OUTLET AND EROSION WITHIN THE BASIN AND BANKS. MAKE ANY NECESSARY REPAIRS IMMEDIATELY. MOW THE UPPER-STAGE, SIDE SLOPES AND EMBANKMENTS AT LEAST TWICE PER YEAR. REMOVE SEDIMENT AS NECESSARY, BUT AT LEAST ONCE EVERY FIVE YEARS. SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- STONE FILLED TRENCHES SHALL BE INSPECTED DURING AND 24 HOURS AFTER ALL MAJOR STORM EVENTS TO LOOK FOR PONDED WATER. IF THERE IS EVIDENCE OF PONDED WATER AT THE SURFACE OF THE TRENCH, IT IS LIKELY THAT THE TRENCH IS CLOGGED. REMOVE AND REPLACE THE FIRST LAYER OF STONE AGGREGATE AND FILTER FABRIC. IF WATER IS PONDED INSIDE THE TRENCH THEN THE TRENCH HAS FAILED. IN THIS CASE REMOVE ALL ACCUMULATED SEDIMENT, STONE AND FILTER FABRIC, THE BOTTOM OF THE TRENCH MUST BE SCARIFIED AND TILLED TO INDUCE INFILTRATION AND REPLACE WITH NEW STONE AND FILTER FABRIC. INSPECT STONE TRENCHES EVERY 6 MONTHS AND ROUTINELY REMOVE DEBRIS, TRASH, LEAVES, AND ANY SEDIMENT FROM THE SURFACE OF THE TRENCH, ADD STONE IF NECESSARY.
- DEEP SUMP CATCH BASINS ARE UNDERGROUND RETENTION SYSTEMS DESIGNED TO REMOVE TRASH, DEBRIS AND COARSE SEDIMENT FROM STORMWATER RUNOFF AND SERVE AS TEMPORARY SPILL CONTAINMENT DEVICES FOR FLOATABLES SUCH AS OILS AND GREASE. INSPECT CATCH BASINS MONTHLY AND CLEAN AT LEAST TWO TIMES PER YEAR AND AT THE END OF THE FOLIAGE AND SNOW-REMOVAL SEASONS. SEDIMENTS MUST ALSO BE REMOVED WHENEVER THE DEPTH OF DEPOSITS IS GREATER THAN OR EQUAL TO ONE HALF THE DEPTH FROM THE BOTTOM OF THE INVERT. SEDIMENT SHALL BE REMOVED THROUGH THE USE OF A VACUUM TRUCK. SEDIMENT MUST BE HANDLED AND DISPOSED OF PROPERLY IN ONE OF THE WAYS ALREADY APPROVED BY MASSDEP (SEE MASSDEP POLICY ON MANAGEMENT OF CATCH BASIN CLEANINGS) IF THERE IS EVIDENCE THAT THEY HAVE BEEN CONTAMINATED BY A SPILL OR OTHER MEANS, THE CLEANINGS MUST BE EVALUATED IN ACCORDANCE WITH THE MASSDEP HAZARDOUS WASTE REGULATIONS, 310 CMR 30.00 AND HANDLED AS HAZARDOUS WASTE.
- OIL/GRIT SEPARATORS ARE UNDERGROUND STORAGE TANKS WITH THREE CHAMBERS DESIGNED TO REMOVE HEAVY PARTICULATES. FLOATING DEBRIS AND HYDROCARBONS FROM STORMWATER. INSPECT OIL/GRIT SEPARATORS MONTHLY AND CLEAN THEM OUT AT LEAST TWICE PER YEAR. POLLUTED WATER OR SEDIMENT REMOVED FROM AN OIL/GRIT SEPARATOR SHOULD BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE & FEDERAL LAWS AND REGULATIONS.
- LEACHING GALLEYS SHALL BE INSPECTED AFTER EVERY MAJOR STORM EVENT IN THE FIRST FEW MONTHS AFTER CONSTRUCTION TO ENSURE PROPER STABILIZATION AND FUNCTION. THEREAFTER, THE LEACHING GALLEYS SHALL BE INSPECTED AT LEAST ONCE PER YEAR. WATER DEPTH IN THE LEACHING GALLEYS SHOULD BE OBSERVED AND MEASURED AT 0, 24, AND 48-HOUR INTERVAL'S AFTER A MAJOR STORM EVENT AT LEAST ONCE PER YEAR. EXFILTRATION RATES ARE CALCULATED BY DIVIDING THE DROP IN THE WATER LEVEL (INCHES) BY THE ELAPSED TIME (HOUR). A COMPARISON OF EXFILTRATION RATE MEASUREMENTS TAKEN OVER THE YEARS PROVIDE A USEFUL TOOL TRACKING ANY CLOGGING PROBLEMS WITH THE UNDERGROUND INFILTRATION SYSTEM.

DRAINAGE INSTALLATION NOTES:

- ALL DRAINAGE PIPES, UNLESS OTHERWISE NOTED, ARE TO BE ADS N-12 PIPE WITH SOIL TIGHT JOINTS AND FITTINGS. REFER TO PLAN FOR LOCATION, SIZES AND SLOPES.
- ALL ROOF DRAIN PIPES, UNLESS OTHERWISE NOTED, ARE TO BE 6" ADS N-12 PIPE WITH SOIL TIGHT JOINTS AND FITTINGS. MINIMUM SLOPE TO BE 1.00%. REFER TO PLAN FOR LOCATION.
- MIN. COVER ON PIPES SHALL NOT BE LESS THAN 1.5 FEET.
- ALL WORK AND MATERIAL SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF WAREHAM MUNICIPAL MAINTENANCE DEPARTMENT.

PERMIT SET (NOT FOR CONSTRUCTION)

DEMOLITION NOTES:

- 1. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE HIS/HER OWN DETERMINATION OF SUBSURFACE CONDITIONS, INCLUDING THE LOCATION OF ROCK AND THE ACTUAL LOCATION OF UTILITIES OR OTHER FEATURES WHICH MAY AFFECT HIS/HER WORK. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION WILL BE REPORTED TO THE ENGINEER OF RECORD FOR RESOLUTION AND CONSTRUCTION METHOD.
- 2. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND APPARATUS NECESSARY AND SHALL DO ALL WORK REQUIRED TO COMPLETE THE DEMOLITION, REMOVAL, AND ALTERATIONS OF EXISTING FACILITIES, INCLUDING PIPING SYSTEMS AND APPURTENANCES, DRAINAGE, PAVEMENT, LANDSCAPE AND SITE FEATURES ENCOUNTERED DURING THE INSTALLATION AS INDICATED ON THE DRAWINGS. AS HEREIN SPECIFIED, AND/OR AS DIRECTED BY THE DESIGN ENGINEER.
- ALL EQUIPMENT, PIPING, AND OTHER MATERIALS THAT ARE NOT TO BE RELOCATED OR TO BE RETURNED TO THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM, AWAY FROM THE SITE OF THE WORK AND AT HIS OWN EXPENSE.
- ALL DEMOLITION OR REMOVAL OF EXISTING STRUCTURES, PAVEMENT, UTILITIES, EQUIPMENT, AND APPURTENANCES, LANDSCAPE AND SITE FEATURES SHALL BE ACCOMPLISHED WITHOUT DAMAGING THE INTEGRITY OF EXISTING STRUCTURES, EQUIPMENT, PAVEMENT, APPURTENANCES, AND TREES TO REMAIN.
- SUCH ITEMS THAT ARE DAMAGED SHALL BE EITHER REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF HIS WORK TO THE SATISFACTION OF THE DESIGN ENGINEER AND/OR THE OWNER.
- PROVIDE TWO (2) COPIES OF PROPOSED METHODS AND OPERATIONS OF DEMOLITION TO THE OWNER AND ENGINEER FOR REVIEW PRIOR TO THE START OF WORK. INCLUDE IN THE SCHEDULE THE COORDINATION FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
- PROVIDE A DETAILED SEQUENCE OF WORK TO THE DESIGN ENGINEER AND THE OWNER FOR DEMOLITION AND REMOVAL WORK TO ENSURE THE UNINTERRUPTED PROGRESS OF THE OWNER'S OPERATIONS.
- 8. ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT BUILDINGS, STRUCTURES, OTHER FACILITIES AND PERSONS.
- 9. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED AND ADJACENT FACILITIES TO REMAIN.
- 10. THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGES CAUSED BY DEMOLITION OPERATIONS TO ADJACENT FACILITIES AT NO COST TO THE OWNER.
- 11. THE EXISTING BUILDING FOOTPRINT SHALL BE BACKFILLED WITH STRUCTURAL FILL AND COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY. THE SLAB SHOULD BE CONSTRUCTED ON A MINIMUM 8 INCH THICK LAYER OF COMPACTED 3/4" CRUSHED STONE. COORDINATE WITH ALL ARCHITECTURAL AND STRUCTURAL DRAWINGS.

WATER INSTALLATION NOTES:

INSTALLATION OF THE WATER SERVICE.

- ALL WATER MAINS, SERVICES, GATE VALVES/GATE BOX, CURB STOPS, HYDRANTS, FITTINGS, ETC. & METHOD OF INSTALLATION SHALL CONFORM TO THE TOWN OF WAREHAM FIRE DISTRICT RULES & REGULATIONS.
- WATER MAIN SHALL BE TESTED & DISINFECTED IN ACCORDANCE WITH THE TOWN OF WAREHAM FIRE DISTRICT REQUIREMENTS.
- CONTRACTOR TO COORDINATE WITH THE TOWN OF WAREHAM FIRE DISTRICT FOR THE INSPECTIONS OF THE WATER MAIN INSTALLATION.
- THE INSTALLATION OF THE WATER SERVICE. THE CONTRACTOR SHALL OBTAIN A COPY OF THE REGULATIONS FROM

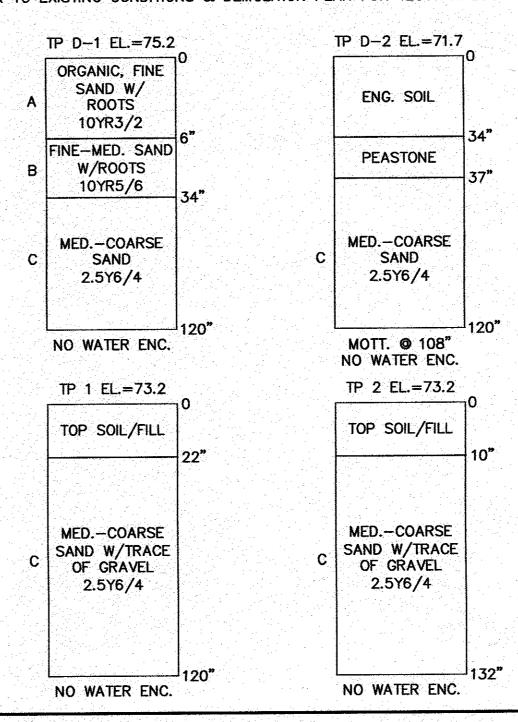
THE TOWN OF WAREHAM FIRE DISTRICT BEFORE PROCEEDING WITH THE

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE

WATER MAIN/SERVICE SHALL BE INSTALLED A MINIMUM OF 1' BELOW ALL PROPOSED DRAINAGE LINES.

TEST PIT DATA

DATE OF TESTING: AUGUST 22, 2019 PERFORMED BY: BRIAN GRADY, G.A.F. ENGINEERING INC. REFER TO EXISTING CONDITIONS & DEMOLITION PLAN FOR TEST PIT LOCATIONS



ABBREVIATIONS ADVANCED DRAINAGE SYSTEM APPROXIMATE APPROX. BOTTOM OF CURB BIT. CONC. BITUMINOUS CONCRETE BOULDERS BLDRS BOTTOM OF WALL BORDERING VEGETATED WETLANDS CATCH BASIN CONCRETE BOUND/DRILL HOLE CAPE COD BERM CEM. CEMENT CAST IRON CONC. CONCRETE CLEAN OUT CEMENT LINED DUCTILE IRON C.L.D.I CORRUGATED METAL PIPE CMP CPP CORRUGATED PLASTIC PIPE DIAMETER DRAIN MANHOLE DUCTILE IRON DRAINAGE CONTROL STRUCTURE ELECTRIC **ELEVATION** ELEV.,EL. EDGE OF PAVEMENT **EXISTING** FIRE DEPARTMENT CONNECTION F.D.C. FLARED END SECTION F.E.S. FINISHED FLOOR ELEVATION F.F.E. FND. FOUND FIRE PROTECTION GAS GATE, GAS VALVE HANDICAP PARKING HIGH DENSITY POLYETHYLENE H.D.P.E **HYDRANT** INVERT INV. MAXIMUM MAX MEDIUM MINIMUM NOT TO SCALE N.T.S. NOW OR FORMERLY OVERHEAD WIRE PRECAST CONCRETE CURBING POLYVINYL CHLORIDE PIPE PVC PROPOSED REINFORCED CONCRETE PIPING RADIUS REMOVE AND DISPOSE REMOVE AND STOCK STONE BOUND/DRILL HOLE SEWER SLOPED GRANITE CURBING SEWER MANHOLE STATION STA TOP OF CURB TOP OF WALL TYPICAL TOP OF FOUNDATION UTILITY POLE UNDERGROUND ELECTRIC VERTICAL GRANITE CURB VGC WATER WATER GATE, WATER VALVE

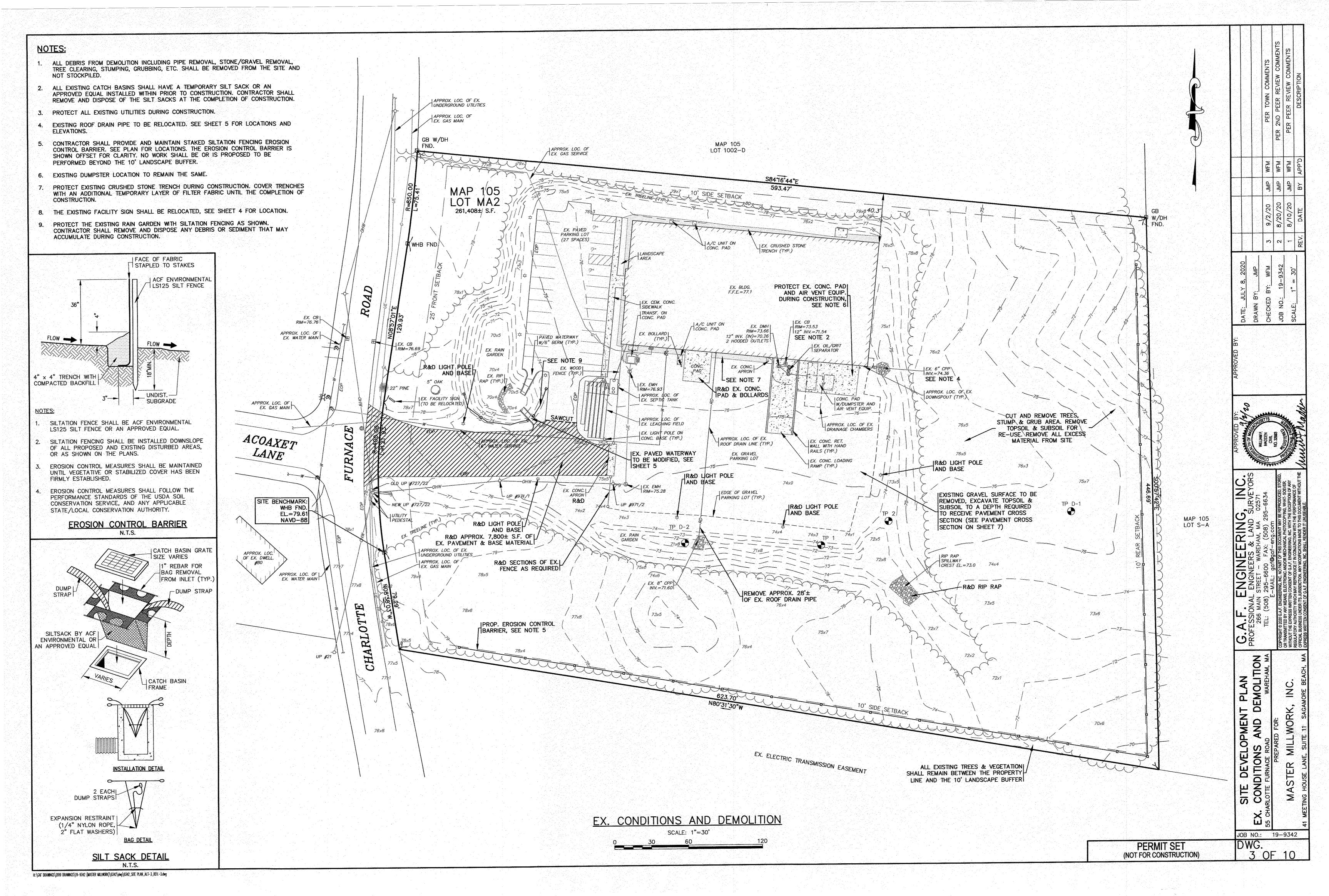
WATER QUALITY STRUCTURE

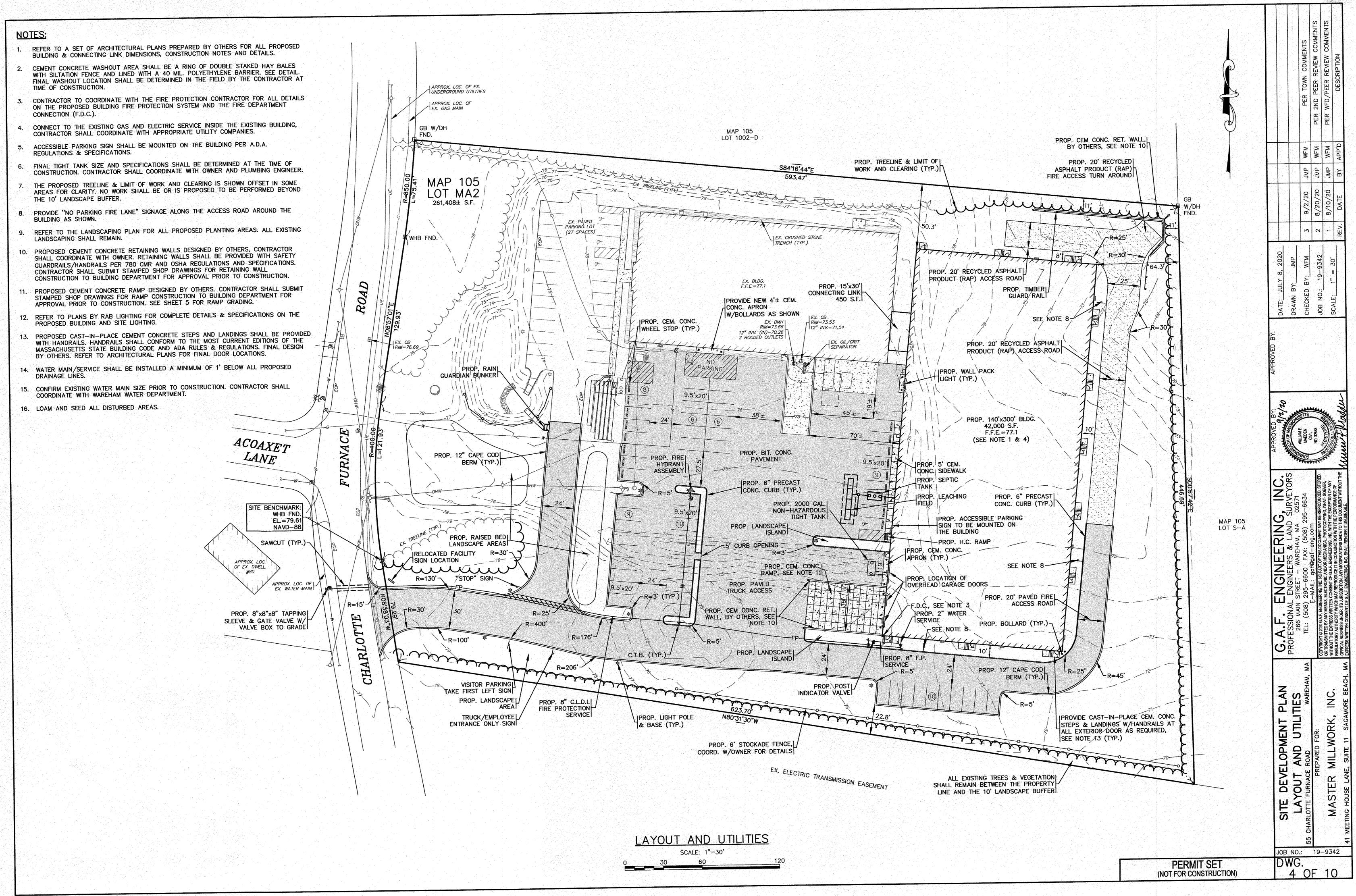
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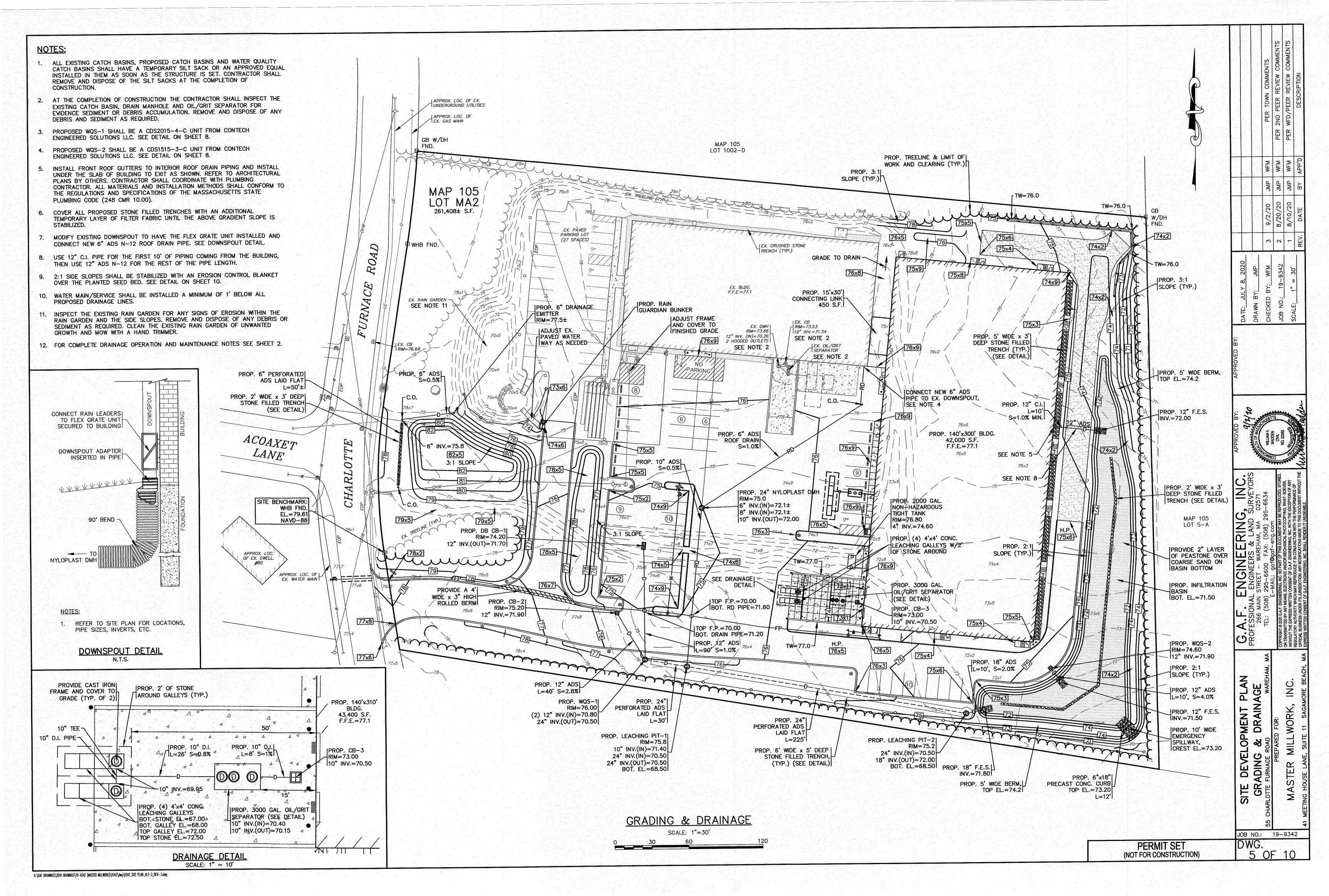
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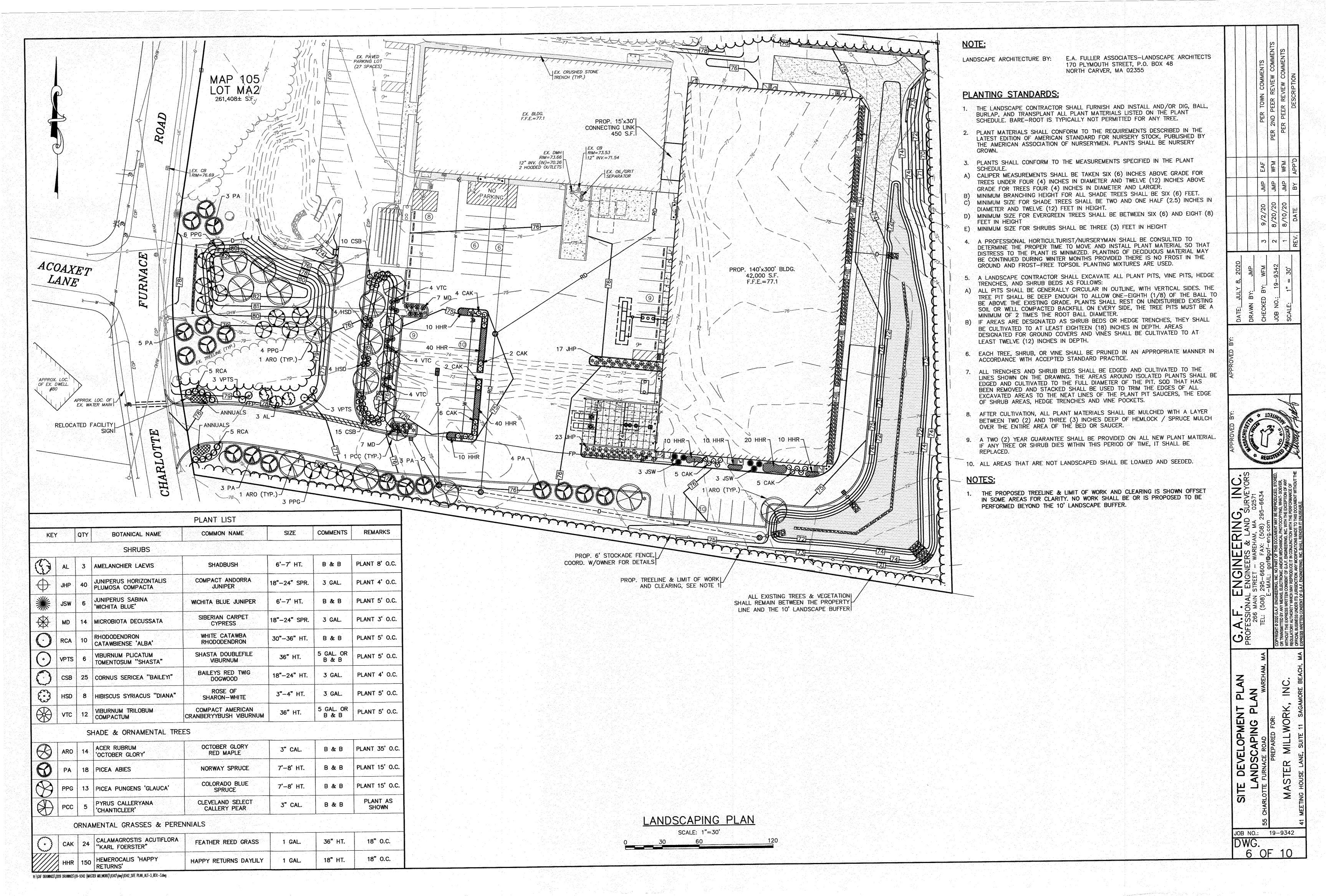
LEGEND PROPOSED **EXISTING** DESC. <u> 55</u> CONTOURS ----55---- 52x5 SPOT GRADES 53x5 WETLANDS F.E.M.A. FLOOD ZONE DRAIN LINE PERFORATED DRAIN LINE _ _ _ _ D__ _ _ _ ROOF DRAIN LINE CATCH BASIN (CB) DRAIN MANHOLE (DMH) CLEAN OUT (C.O.) ELECTRIC MANHOLE (EMH) UNDERGROUND UTILITIES ----UE----UE-----OHW----OVERHEAD WIRES ——ОНW-— Q -0-UTILITY POLE -0 -(1) GUY POLE WATER GATE VALVE WATER SHUTOFF/CURB STOP **HYDRANT** POST INDICATOR VALVE WATER LINE -----FP-----FIRE PROTECTION LINE டெய் SEWER MANHOLE (SMH) ----S----SEWER LINE TREELINE LIGHT POST Q GAS LINE ———G—— ——— G——— GAS GATE/VALVE GAS SHUTOFF GAS METER **°** О FENCE BOUND ᇝᇤ TEST PIT/PERC TEST SILT FENCE 0 0 0 0 GUARD RAIL FLARED END SECTION JOB NO.: 19-9342 ∞ STONE WALL ∞ OF 10

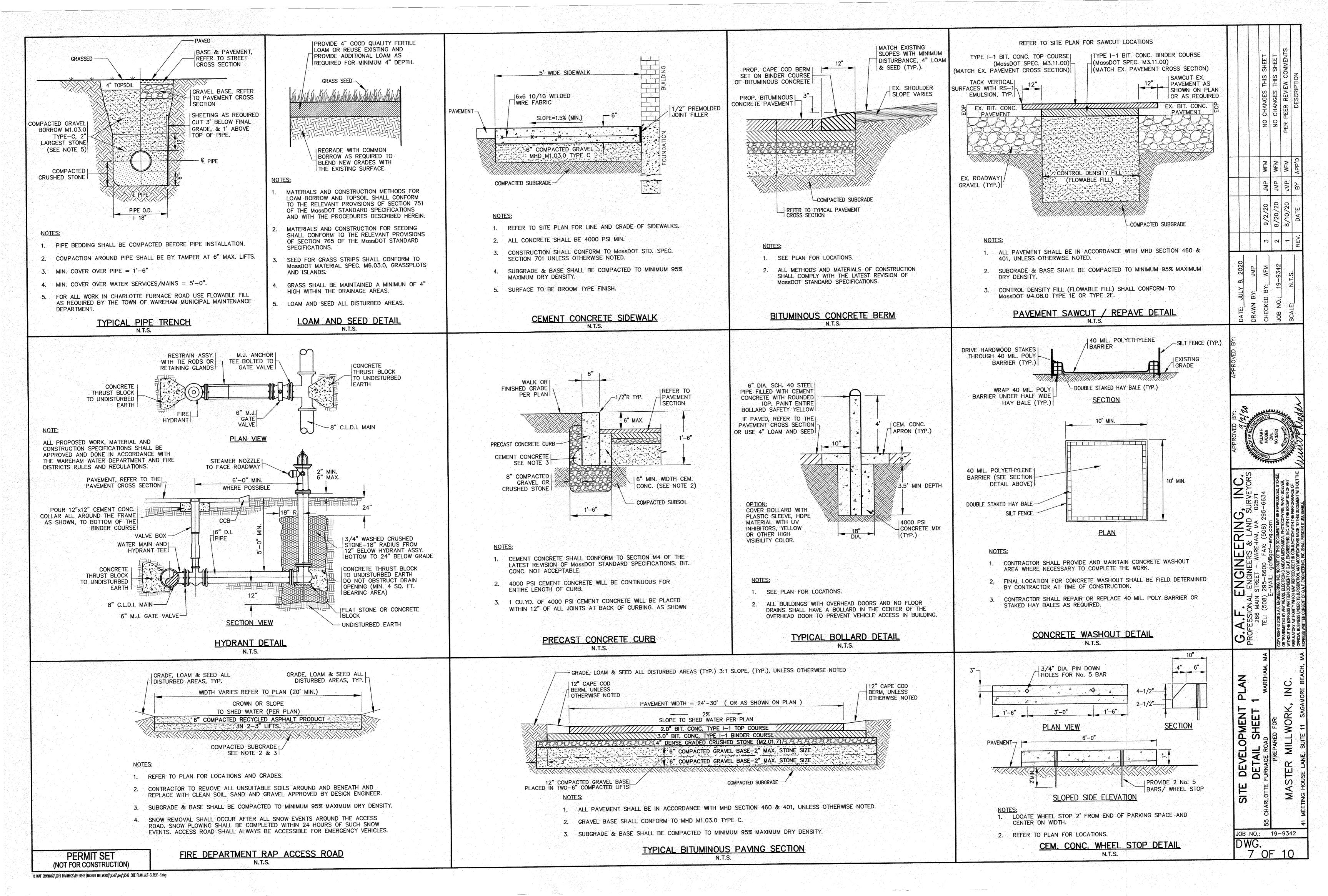
H:\CAF DRAWNCS\2019 DRAWNCS\19-9342 (MASTER MILLWORK)\9342\dmg\9342_SITE PLAN_ALT-3_REV.-3.dmg

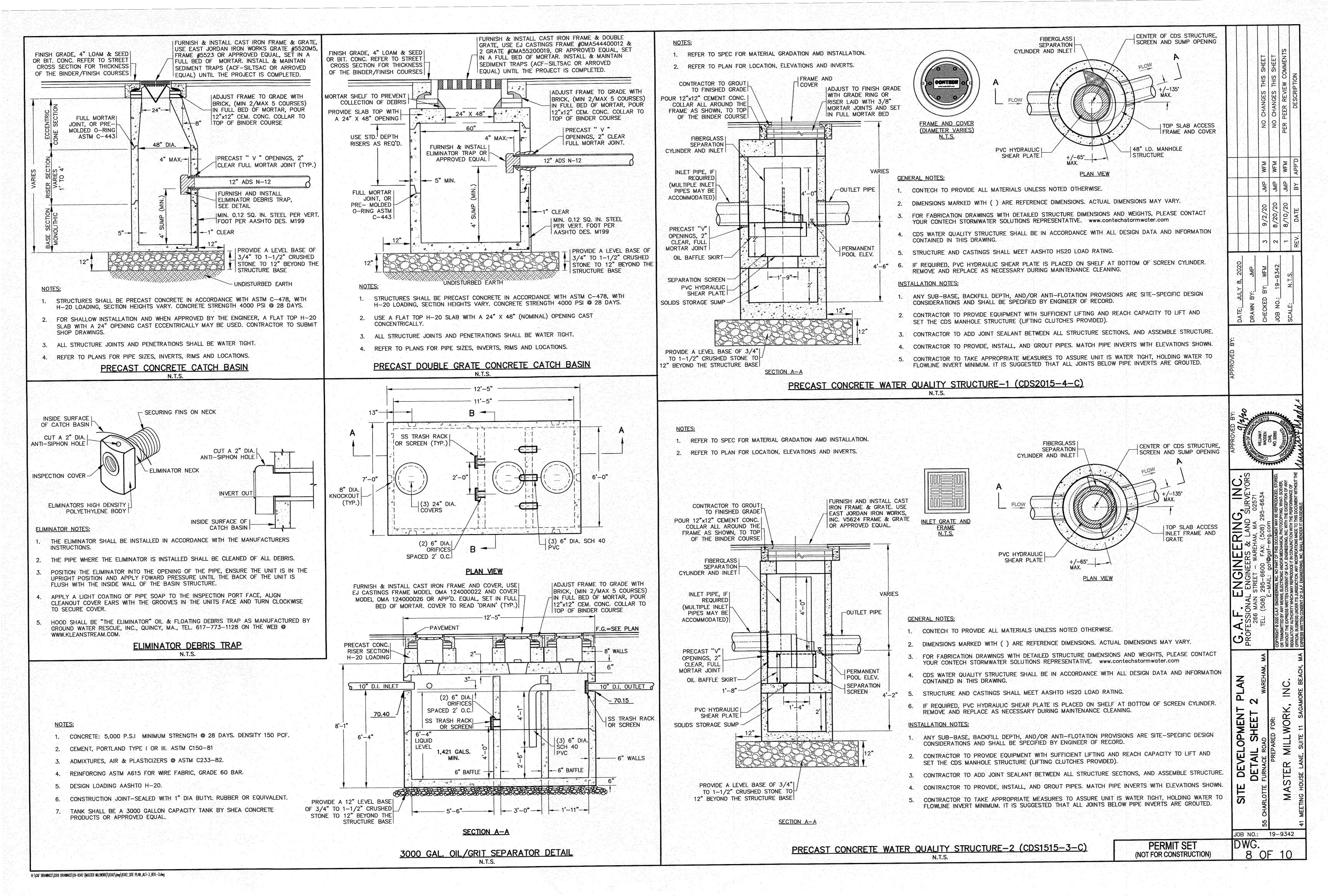


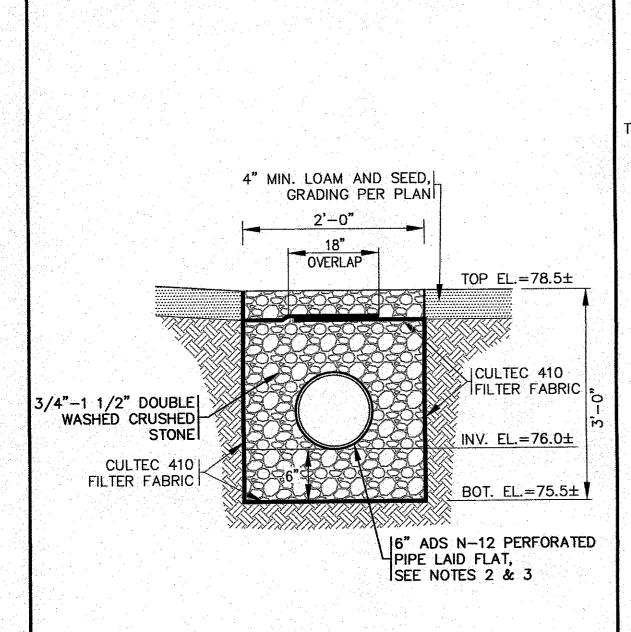






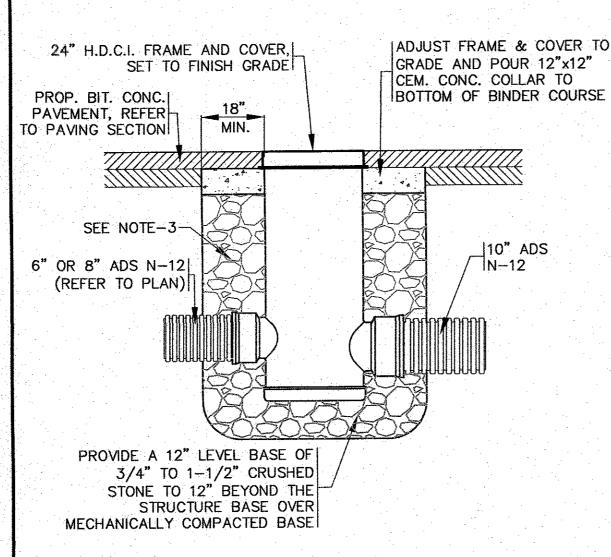






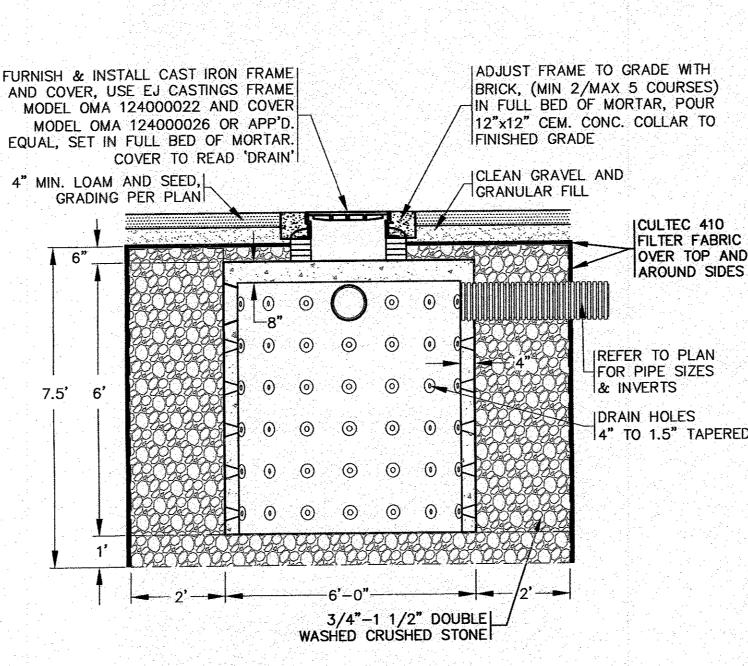
- 1. REFER TO PLAN FOR LOCATIONS AND COMPLETE DIMENSIONS.
- 2. ALL PIPES SHALL HAVE SOIL TIGHT JOINTS AND FITTINGS.
- 3. PIPE PERFORATION PATTERN SHALL BE AASHTO CLASS II.

(2'x3') STONE FILLED TRENCH W/ PERFORATED PIPE



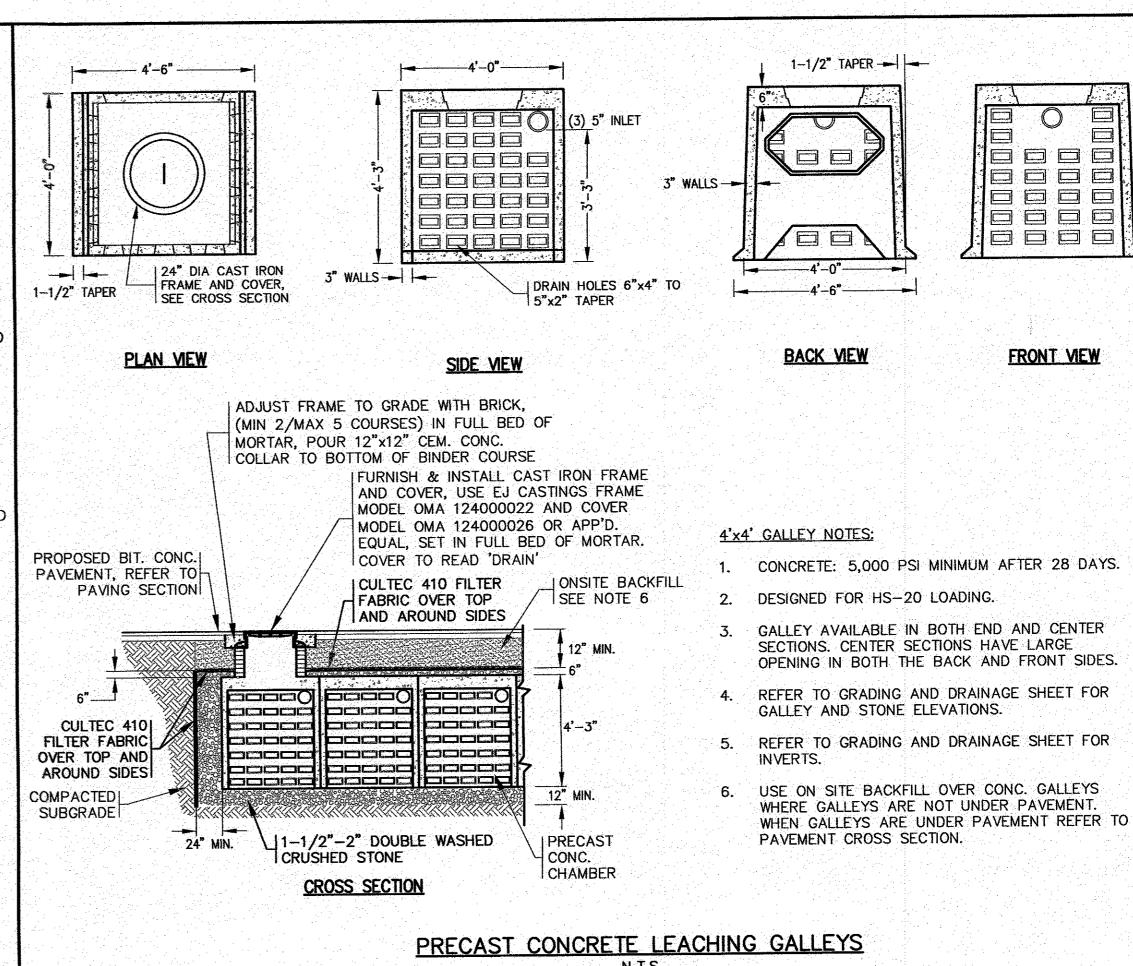
- REFER TO GRADING & DRAINAGE PLAN FOR LOCATIONS AND ELEVATIONS.
- INSTALLATION SHALL BE PER MANUFACTURERS SPECIFICATIONS.
- THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321, OR AS DETERMINED BY LOCAL STANDARDS & SITE ENGINEER. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.
- 4. FRAME AND COVER TO MEET H-20 LOADING REQUIRMENTS.

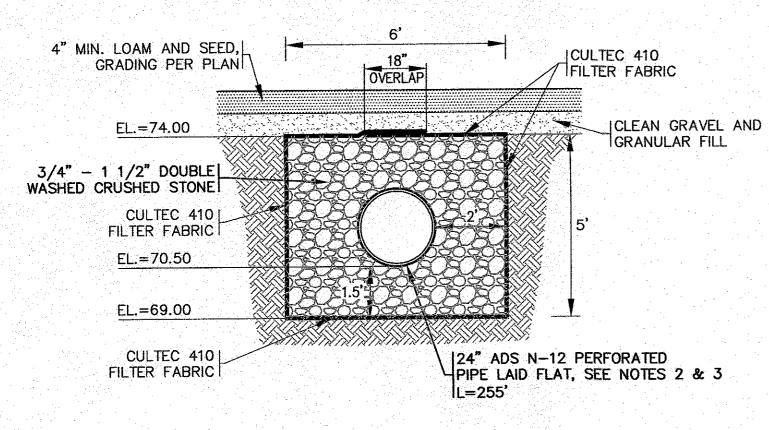
NYLOPLAST 24" DRAIN BASIN DETAIL



- 1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
- 2. DESIGNED FOR HS-20 LOADING.
- 3. STEEL REINFORCEMENT SHALL COMPLY WITH ASTM A-615, GRADE 60
- 4. REFER TO GRADING AND DRAINAGE SHEET FOR INVERTS & LOCATIONS.

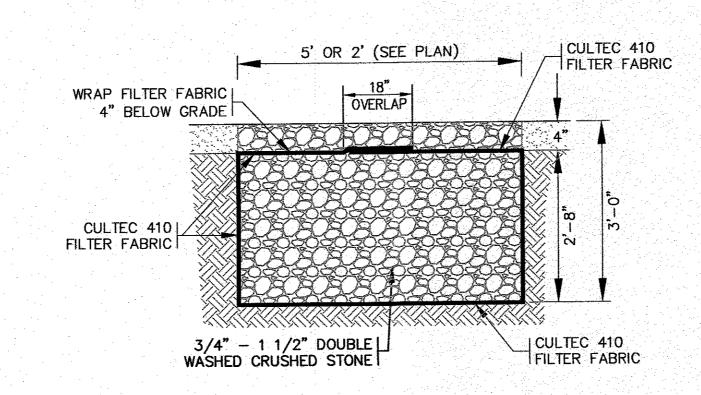
PRECAST CONCRETE LEACHING PIT N.T.S.





- REFER TO PLAN FOR LOCATIONS AND ELEVATIONS.
- 2. ALL PIPES SHALL HAVE SOIL TIGHT JOINTS AND FITTINGS.
- PIPE PERFORATION PATTERN SHALL BE AASHTO CLASS II.

(6'x5') STONE FILLED TRENCH W/ PERFORATED PIPE



- REFER TO PLAN FOR LOCATIONS AND ELEVATIONS.
- COVER TRENCHES WITH AN ADDITIONAL TEMPORARY LAYER OF FILTER FABRIC UNTIL THE ABOVE GRADIENT SLOPE IS STABILIZED.

STONE FILLED TRENCH N.T.S.

12" MIN. OF MODIFIED ROCKFILL MassDOT SPEC. M2.02.4, OVER GEOTEXTILE FABRIC, CULTEC 410 OR APPROVED EQUAL (TYP.) COVER ANY EXPOSED PIPE WITH! PE THREADED PROVIDE 12" OF MODIFIED ROCKFILL ROCKFILL, MassDOT SPEC. M2.02.0 ROD W/WING NUTS ABOVE FLOW LINE ON SIDES OVER GEOTEXTILE FABRIC, CULTEC AND SPACERS 410 OR APPROVED EQUAL DRAIN PIPE 5' MIN.

DIA./DIM. 7.5" 6.5" 15.0" 10.0" 6.5" 6.5" 32.0**"** 25.0" 35.0" 29.0"

RIGHT SIDE VIEW

FRONT VIEW

PROVIDE 12" OF MODIFIED ROCKFILL

FIN. GRADE

G IN

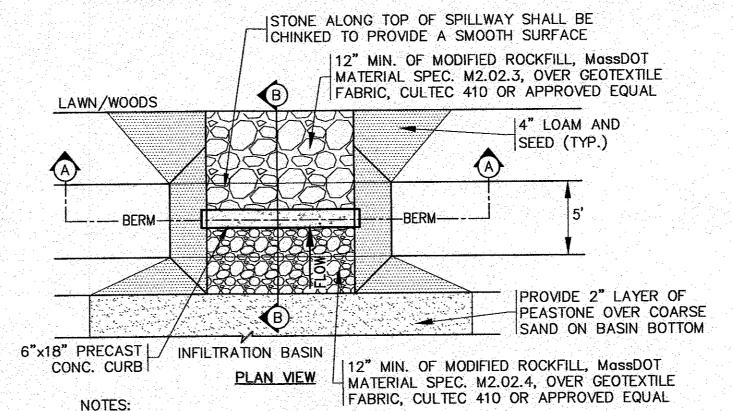
ABOVE FLOW LINE ON SIDES

FLARED END SECTION

5' WIDE EMERGENCY SPILLWAY CREST EL.=73.2 TOP OF SEE DETAIL SEE NOTE 4 EL.=74.2**ELEVATIONS** 100 YEAR STORM 72.48 4" LOAM & SEED IMATCH EX. 10 YEAR STORM 72.02 GRADE COMPACTED 2 YEAR STORM SUBGRADE 6"x18" PRECAST PROVIDE 2" LAYER OF CONC. CURB PEASTONE OVER COARSE SAND ON BASIN BOTTOM SEE NOTE 5 3/4" - 1 1/2"DOUBLE WASHED CULTEC 410 CRUSHED STONE FILTER FABRIC 2' WIDE BY 3' DEEP STONE FILLED TRENCH BOTTOM EL.=68.5 (SEE DETAIL)

INFILTRATION BASIN DETAIL

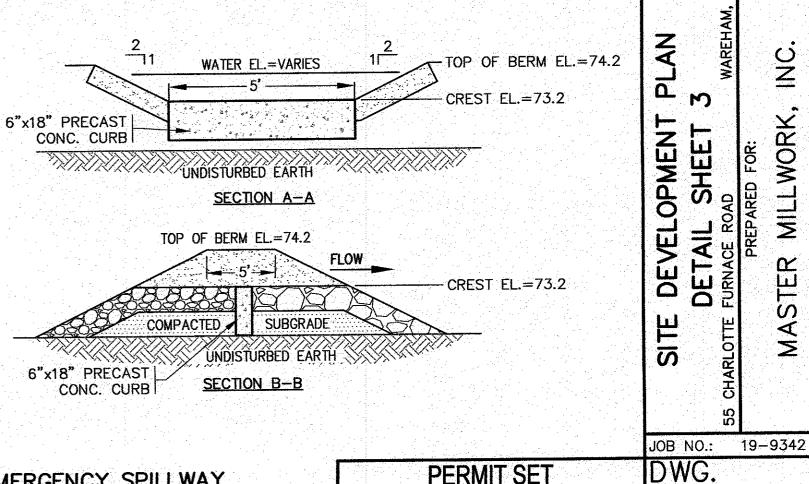
- GRASS ON THE BASIN SLOPES SHALL BE MAINTAINED APPROXIMATELY 4" HIGH. REFER TO THE POST CONSTRUCTION MAINTENANCE NOTES.
- 2. SLOPES SHALL BE CLEAR OF ALL OTHER VEGETATION.
- WHERE REQUIRED CONTRACTOR TO REMOVE ALL UNSUITABLE SOILS AND REPLACE WITH CLEAN SAND AND GRAVEL APPROVED BY DESIGN ENGINEER.
- CONTRACTOR SHALL PLACE COMPACTED ORDINARY BORROW (M1.01.0) WITH STONE SIZE NO LARGER THAN 6" FOR FILL AREAS ADJACENT TO THE STONE SPILLWAY.
- COVER STONE WITH AN ADDITIONAL TEMPORARY LAYER OF FILTER FABRIC UNTIL THE ABOVE GRADIENT SLOPE IS STABILIZED.



PLAN VIEW

REFER TO PLAN FOR LOCATIONS AND INVERTS.

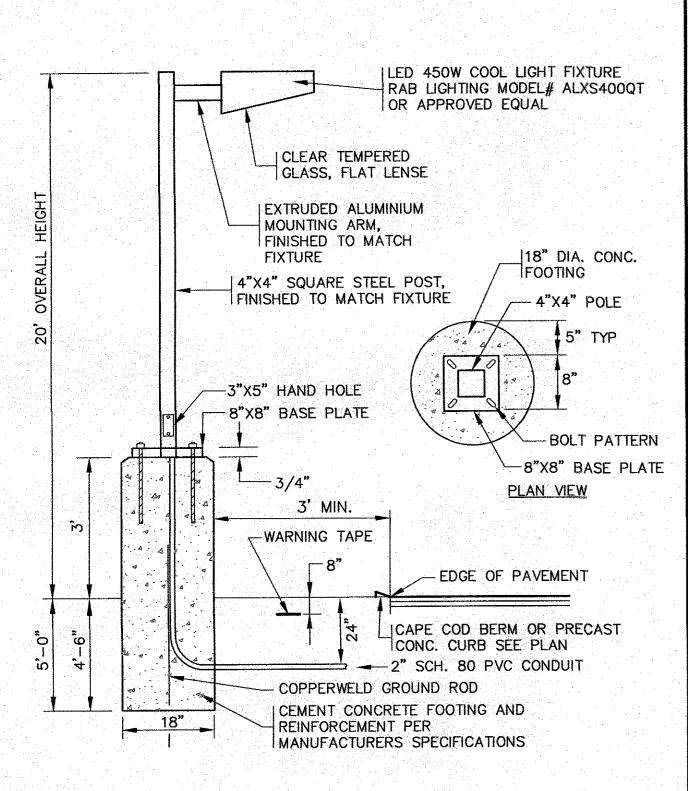
- 1. REFER TO PLAN FOR SIDE SLOPES, WIDTHS & ELEVATIONS.
- ALL STONE TO BE 12" MIN. OF MODIFIED ROCK FILL, MassDOT MATERIAL SPEC. M2.02.3 OR STONE FOR PIPE ENDS M2.02.4 OVER GEOTEXTILE FABRIC. CULTEC 410 OR APPROVED EQUAL (TYP.). REFER TO DETAIL FOR STONE SIZE LOCATIONS.



EMERGENCY SPILLWAY N.T.S.

PERMIT SET (NOT FOR CONSTRUCTION)

H:\GAF DRAWNGS\2019 DRAWNGS\19-9342 (MASTER MILLWORK)\9342\dmg\9342_SITE PLAN_ALT-3_REV.-3.dmg



- CIRCUIT CONDUCTORS TO BE PULLED AND TERMINATED BY ELECTRIC CONTRACTOR TO COORDINATE.
- 2. CONTRACTOR TO COORDINATE WITH OWNER ON FINAL LIGHT FIXTURE SPECIFICATIONS.
- 3. ALL MOUNTING HARDWARE AND INSTALLATION SHALL BE PER MANUFACTURER SPECIFICATIONS.

STANDARD LIGHT POLE W/BASE N.T.S.

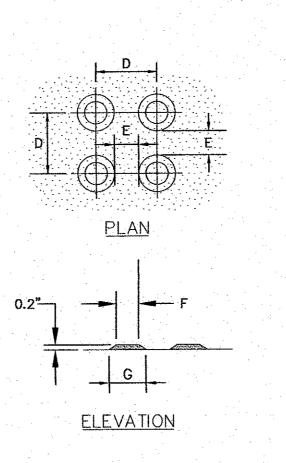
|ALL DAMAGED

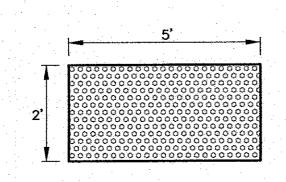
BRANCHES TO

TOTALLY REMOVED

BACKFILL MIXTURE

BE REMOVED



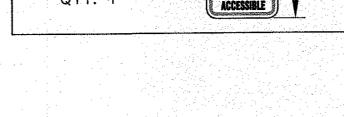


- REFER TO PLAN FOR LOCATIONS.
- ALL WORK SHALL COMPLY TO ADA SPECIFICATIONS AND MassDOT CONSTRUCTION STANDARD DETAILS.

TRUNCATED DOME

DETECTABLE WARNING PANEL

N.T.S.



1. ACCESSIBLE SYMBOL PAINT SHALL CONFORM TO

2. SIGNAGE TO CONFORM WITH THE MANUAL ON

AND HIGHWAYS OR APPROVED EQUAL.

FOR STREETS AND HIGHWAYS.

CENTERED IN STALL).

R7-8

(NO PARKING

-VAN)

STRIPING PAINT AS SPECIFIED. (SYMBOL SHALL BE

UNIFORM TRAFFIC CONTROL DEVICES OF STREETS

ACCORDANCE WITH THE LATEST EDITION OF THE

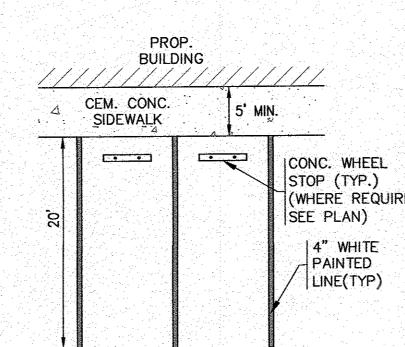
MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

12"

PARKING

3. PARKING AREA PAVEMENT MARKINGS SHALL BE IN

7"R CIRCLE



ACCESSIBLE PARKING

TO WALL MIN. OF 5'

ABOVE FIN. GRADE | BUILDING

△ CEM. CONC.

SIDEWALK 4

SIGN (R7-8) MOUNTED

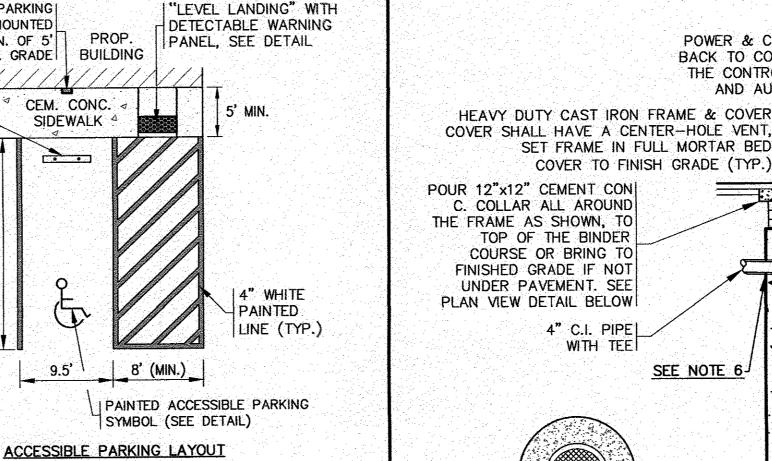
CONC. WHEEL

STOP (TYP.)

STANDARD PARKING LAYOUT

ACCESSIBLE PARKING PAINT SYMBOL AND SIGN N.T.S.

ACCESSIBLE PARKING AND STANDARD PARKING LAYOUTS



(WHERE REQUIRED,

CONTRACTOR SHALL VERIFY THE BUILDING SEWER INVERT PRIOR TO INSTALLATION OF THE TIGHT TANK. TANK INVERT SHALL BE DETERMINED IN THE FIELD AT TIME OF CONSTRUCTION.

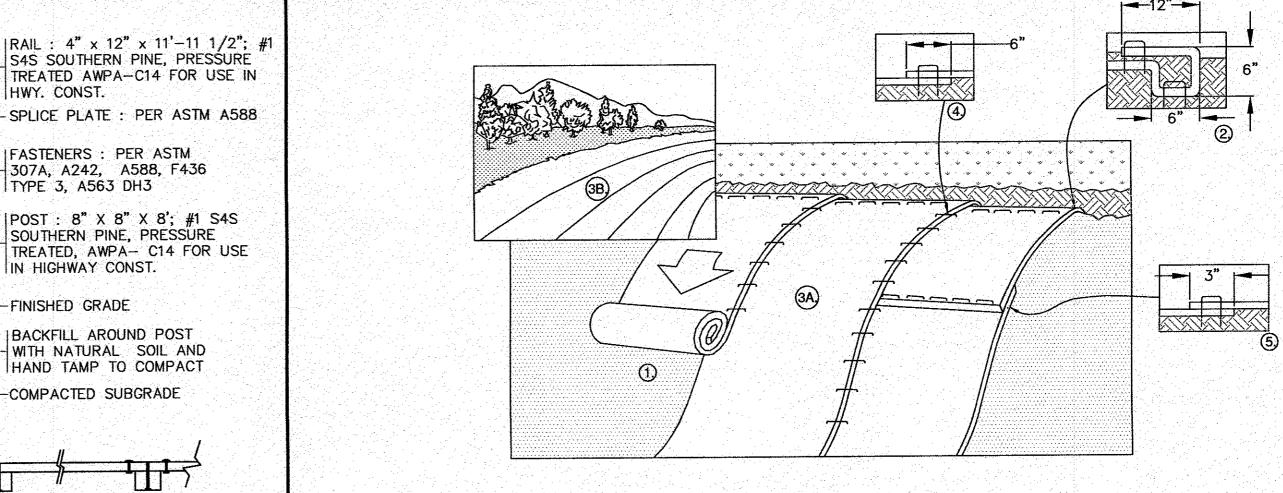
7. TIGHT TANK SHALL BE POSTED "NON-HAZARDOUS INDUSTRIAL WASTEWATER".

DRAINS. TIGHT TANK SHALL BE WATERPROOF AND WATERTIGHT.

8. FINAL HOLDING TANK SIZE AND SPECIFICATIONS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH OWNER.

5. THE PROPOSED 2000 GALLON TIGHT TANK SHALL BE EQUIPPED WITH BOTH AUDIBLE & VISUAL ALARMS, TO WARN WHEN THE

2000 GALLON H-20 NON-HAZARDOUS TIGHT TANK N.T.S.



- 1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP's.
- 3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP.
- CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3' OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH. NOTE: *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.
- 6. REFER TO NORTH AMERICAN GREEN FOR INSTALLATION METHODS AND STAPLE CONFIGURATION FOR PRODUCT #C125BN.

EROSION CONTROL BLANKET SLOPE DETAIL

PERMIT SET (NOT FOR CONSTRUCTION)

TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS EXISTING GRADE TWO-PLY FABRIC-BEARING RUBBER HOSE 1/2" MIN. I.D. (2 REQ'D) IDOUBLE STRAND TWISTED MALLEEABLE #10 GAUGE ANNEALED STEEL WIRE (2 REQ'D) 8' STAKES, MIN 3' IN GROUND TO BE PLUMB LEVEL ELEV. AT TOP. STAKES TO BE PAINTED OR STAINED BLACK. EXPOSE ROOT FLARE KEEP MULCH 3" FROM BASE OF TRUNK -MULCH AS SPECIFIED -5" EARTH SAUCER ROPES AT TOP OF BALL SHALL BE CUT. REMOVE TOP 1/3 OF BURLAP. NON-BIODEGRADABLE MATERIAL SHALL BE

CAST IRON FRAME WITH GRATE OR COVER, AS REQUIRED PRECAST CONCRETE FLAT TOP SLAB UNIT WITH AN ECCENTRIC 24" DIA. OPENING RISER SECTION OF MANHOLE OR CATCH BASIN

1. FOR COMPLETE DETAILS REFER TO

MANUFACTURES SPECIFICATIONS.

2. CONTRACTOR TO SUBMIT SHOP DRAWINGS.

FLAT TOP SLAB N.T.S.

1" CHAMFER HWY. CONST. |FASTENERS : PER ASTM TYPE 3, A563 DH3 TYP. RAIL SECTION 6'-0" O.C. (TYP) FRONT ELEVATION GROUND ELEVATION 6'-0" O.C. (TYP) TERMINAL SECTION FRONT ELEVATION

- CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL TIMBER GUARD RAIL SPECIFICATIONS AND DETAILS.
- REFER TO PLAN FOR LOCATIONS.

TYPICAL TIMBER GUARD RAIL DETAIL N.T.S.

SHADE TREE PLANTING DETAIL N.T.S. H:\GAF DRAWHIGS\2019 DRAWHIGS\19-9342 (MASTER MILLWORK)\9342\dmg\9342_STE PLAN_ALT-3_REV.-3.dmg

1. REFER TO LANDSCAPING PLAN FOR PLANTING LOCATIONS.

JOB NO.: 19-9342 10 OF 10

POUR 12"x12" CEMENT CON 12" MIN C. COLLAR ALL AROUND 36" THE FRAME AS SHOWN, TO TOP OF THE BINDER COURSE OR BRING TO → 4" VENT FINISHED GRADE IF NOT UNDER PAVEMENT. SEE PLAN VIEW DETAIL BELOW 4" C.I. PIPE WITH TEE SEE NOTE 6 MAX LIQUID LEVEL ALARM ON

MECHANICALLY COMPACTED AND ON TO WHICH 12" OF CRUSHED STONE HAS BEEN PLACED.

4. ALL MOUNTING BRACKETS AND ATTACHING HARDWARE SHALL BE GALVANIZED OR NONCORROSIVE CONSTRUCTION.

TANK IS 3/5 FULL. THE ALARM PANEL SHALL BE MOUNTED IN A READILY VISIBLE LOCATION ON THE BUILDING.

POWER & CONTROL WIRING IN CONDUIT

THE CONTROL PANEL TO HAVE VISIBLE

AND AUDIBLE HIGH WATER ALARMS

BACK TO CONTROL PANEL AT BUILDING.

PLAN VIEW

STANDARD UNITS AASHO-H20.

HEAVY DUTY CAST IRON FRAME & COVER

SET FRAME IN FULL MORTAR BED COVER TO FINISH GRADE (TYP.)

2000 GALLON H-20 CONCRETE HOLDING TANK

IFLOAT SWITCH HIGH WATER ALARM SET AT % CAPACITY

NEMA 4 JUNCTION BOX

AND CONTROLS IN PRE

CAST HAND HOLE

12" CRUSHED STONE OVER MECHANICALLY COMPACTED BASE

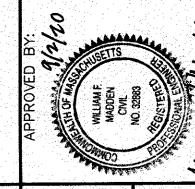
FINISH GRADE EL.= 76.8±

WEIGHTED ANCHOR

LENGTH 11' 0" WIDTH 6' 0" DEPTH 7' 5" TANK SHALL BE INSTALLED ON A LEVEL STABLE BASE

1. TIGHT TANK CONSTRUCTION AND INSTALLATION SHALL CONFORM TO 310 CMR 15.260 AS APPLICABLE FOR CONNECTION TO FLOOR 2. CONCRETE MINIMUM STRENGTH: 5000 PSI @ 28 DAYS STEEL REINFORCEMENT: ASTM-A-615-68, GRADE 60 DESIGN LOADING:

3. 310 CMR 15.228: (1) SEPTIC TANK SHALL BE INSTALLED LEVEL AND TRUE TO GRADE ON A LEVEL STABLE BASE THAT HAS BEEN



(Q)