

# PERMIT DRAWINGS

for

# Berkshire Hills Music Academy

## Bernon Music Center

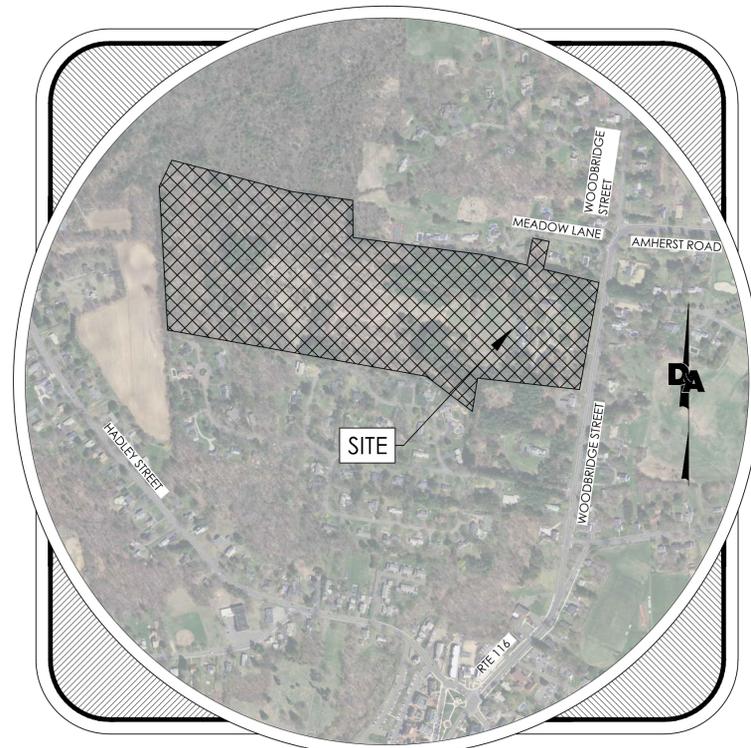
### South Hadley, MA 01075

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#### ATTACHMENTS

NO.	DRAWING TITLE	LATEST ISSUE
L100	Landscaping Plan	1/22/2016



VICINITY MAP  
SCALE: 1" = 500'

UTILITY CONTACTS			
UTILITY	UTILITY CO.	CONTACT	TELEPHONE
ELECTRIC	SOUTH HADLEY ELECTRIC LIGHT DEPT.	ERIC BERDARDIN	PH. (413) 452-0445 x4430
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WATER	SOUTH HADLEY, MA 01075		
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SEWER	20 WOODBRIDGE STREET		
	SOUTH HADLEY, MA 01075	SUPERINTENDENT	maiken@comcast.net
GAS	SOUTH HADLEY DPW	JIM REIDY	PH. (413) 538-5033
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	COLUMBIA GAS OF MASSACHUSETTS	KIM LAMBERT	PH. (413) 784-2274
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	SPRINGFIELD, MA 01104		EMERGENCY # 800-525-8222
BUILDING OFFICIAL	VERIZON	CUSTOMER SERVICE	PH. (800) 837-4966
	220 BROOKS STREET		
FIRE CHIEF	WORCESTER, MA 01606		
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	SOUTH HADLEY, MA 01075		

PERMITTING CONTACTS			
PERMIT	GOVERNING AGENCY	CONTACT	TELEPHONE
MINOR SITE PLAN REVIEW	SOUTH HADLEY PLANNING BOARD	RICHARD HARRIS	PH. (413) 538-5017 Ext 206
	116 MAIN STREET, ROOM 204	TOWN PLANNER	rharris@southhadleyma.gov
STORMWATER PERMIT	SOUTH HADLEY, MA 01075		
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	SOUTH HADLEY, MA, 01075		

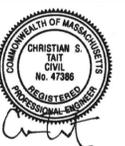


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www.doucetandassociates.com

**OWNER/ APPLICANT:** Berkshire Hills Music Academy  
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 South Hadley, MA. 01075  
  
**CONTACT:** Michelle Theroux  
  
**ARCHITECT:** Steffian Bradley Architects  
 One Corporate Road, Suite 102  
 Enfield, CT. 06082

REVISIONS:		
NO.	DESCRIPTION	REVISION DATE

Berkshire Hills Music Academy



Scale: AS NOTED  
 Designed by: CST  
 Drawn by: JBB  
 Reviewed by: TJH  
 Date: 1/22/2016

SHEET  
**C-1**  
1 OF 12

Project No:  
1491-001

**PERMIT DRAWINGS - NOT FOR CONSTRUCTION**

Drawing: P:\1491-001\1491-001.dwg  
 User: JBB  
 Plot Date: 1/22/2016 10:16:11 AM

LEGEND	
EXISTING	PROPOSED
	— LOCUS PROPERTY LINE
	— SHEET MATCHLINE <b>SEE SHEET 2 OF 2</b>
	— ABUTTER PROPERTY LINE
— X —	— CHAIN LINK FENCE
— □ —	— STOCKADE FENCE
— 10+00 —	— BASELINE
— ELEV —	— MAJOR CONTOUR (5 FEET)
— ELEV —	— MINOR CONTOUR (1 FOOT)
— ○ —	— STONE WALL
— —	— RETAINING WALL
— —	— SCRUB/HEDGEROW LINE
— —	— TREE LINE
— W —	— UNDERGROUND WATER LINE
— S —	— UNDERGROUND SEWER LINE
— T —	— UNDERGROUND TELEPHONE LINE
— D —	— UNDERGROUND DRAIN LINE
— E —	— UNDERGROUND ELECTRIC LINE
— G —	— UNDERGROUND GAS LINE
— OHW —	— OVERHEAD WIRE
— 47P —	— FIRE PROTECTION LINE
— 2"DW —	— DOMESTIC WATER LINE
— CATV —	— CABLE TV
— —	— WETLAND LINE
— —	— 100' WETLAND BUFFER
— —	— 200' RIPARIAN BUFFER
— —	— SAWCUT
— —	— GAS METER
— —	— ELECTRIC TRANSFORMER
— —	— ELECTRIC METER
— —	— DOWN SPOUT
— —	— BOLLARD
— —	— SIGN
— —	— DOUBLE SIGN
— —	— IRON PIPE
— —	— PULL BOX
— —	— UTILITY POLE
— —	— BORING LOCATION
— —	— CATCH BASIN
— —	— DOUBLE CATCH BASIN
— —	— DRAIN MANHOLE
— —	— SEWER MANHOLE
— —	— HYDRANT
— —	— WATER VALVE
— —	— PLUG/STUB
— —	— SINGLE LUMINAIRE
— —	— TEMPORARY BENCHMARK
— —	— METAL GUARDRAIL
— —	— 2 SIDED METAL GUARDRAIL
— —	— TREE (DECIDUOUS)
— —	— BUSH
— —	— PARKING COUNT
— —	— HANDICAP RAMP
— —	— HANDICAP PARKING
— —	— VAN-ACCESSIBLE HANDICAP PARKING
— —	— HEAVY DUTY CONCRETE PAVEMENT
— —	— STANDARD DUTY ASPHALT PAVEMENT
— —	— RIPRAP

ABBREVIATIONS	
GENERAL	
ABAN	ABANDON
ADJ	ADJUST
APPROX	APPROXIMATE
BB	BITUMINOUS BERM
BC	BITUMINOUS CURB
BOLR M	METAL BOLLARD
CC	CONCRETE CURB
CCB	CAPE COD BERM
CLF	CHAIN LINK FENCE
CONC	CONCRETE PAD
DYL	DOUBLE YELLOW LINE
ELEV	ELEVATION
EXIST	EXISTING
FDN	FOUNDATION
FFE	FINISH FLOOR ELEVATION
GC	GRANITE CURB
GL	GUTTER LINE
HPCR	HANDICAP RAMP
MAX	MAXIMUM
MCC	MONOLITHIC CONCRETE CURB
MGR L	METAL GUARDRAIL
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PROP	PROPOSED
REM	REMOVE
RET	RETAIN
REMOD	REMODEL
R&R	REMOVE AND RESET
R&S	SLOPED GRANITE EDGING
SGE	STOCKADE FENCE
STOF	STONE WALL
STW	SINGLE WHITE LINE
SWL	SINGLE YELLOW LINE
SYL	TRUCK ROUTE
TR	TYPICAL
TYP	
TC	TOP OF CURB
BC	BOTTOM OF CURB
TP	TOP OF TRANSFORMER PAD
BP	BOTTOM OF TRANSFORMER PAD
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
TW	TOP OF WALL
BW	BOTTOM OF WALL
CB	CATCH BASIN
CPP	CORRUGATED PLASTIC PIPE
C&C	CUT AND CAPPED
CI	CAST IRON PIPE
DCB	DUCTILE IRON PIPE
DI	DRAINAGE MANHOLE
DMH	ELECTRICAL CONDUIT
ECON	FLARED END SECTION
F&S	FRAME AND GRATE
F&C	FRAME AND COVER
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HH	ELECTRIC HANDHOLE
HW	HEAD WALL
HYD	HYDRANT
INV	INVERT ELEVATION
OCS	OVERFLOW CONTROL STRUCTURE
PV	POST INDICATOR VALVE
PW	PAVED WATER WAY
PVC	POLYVINYLCHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
SMH	SANITARY MANHOLE
TSV&B	TAPPING SLEEVE, VALVE AND BOX
UP	UTILITY POLE
UPR	UTILITY POLE W/ RISER

EXISTING CONDITIONS INFORMATION	
1.	SITE BOUNDARY, TOPOGRAPHY & UTILITY INFORMATION TAKEN FROM DESIGN PLANS BY WILLIAM CANON DATED MARCH 8, 2001 AND SITE OBSERVATIONS.
2.	TOTAL PROPERTY AREA IS ±48.80 ACRES LOCATED BETWEEN MEADOW LANE AND SYCAMORE KNOLLS ON WOODBRIDGE STREET (RTE 116).
3.	THE SITE IS LOCATED IN ZONE "C" PER FEMA FLOOD MAP 2501700010A.

SITE PLAN NOTES	
1.	ALL WORK AND MATERIALS SHALL COMPLY WITH ALL OF TOWN OF SOUTH HADLEY REGULATIONS AND CODES AND D.S.H.A. STANDARDS.
2.	CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
3.	ALL DISTURBED AREAS ARE TO RECEIVE MINIMUM 4 INCHES OF TOPSOIL, SEED AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
4.	ALL EDGES OF PAVEMENT TO BE FLUSH, UNLESS NOTED OTHERWISE.
5.	ALL ISLANDS SHALL BE LANDSCAPED IN ACCORDANCE WITH THE LANDSCAPING PLAN & SPECIFICATIONS.
6.	ALL CURBED RADII ARE TO BE 2' UNLESS OTHERWISE NOTED.
7.	ALL DIMENSIONS AND RADII ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITY'S SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
9.	EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, REMODEL OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
10.	THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE OWNERS 'SITE WORK SPECIFICATIONS'.
11.	REFER TO ARCH. PLANS FOR SITE LIGHTING ELECTRICAL PLANS.
12.	ALL CONSTRUCTION IN TOWN RIGHT-OF-WAYS AND/OR EASEMENTS SHALL BE IN ACCORDANCE WITH THE TOWN OF SOUTH HADLEY SPECIFICATIONS. ALL CONSTRUCTION IN THE STATE HIGHWAY LAYOUT (RIGHT-OF-WAY) SHALL CONFORM TO MASSDOT STANDARDS AND SPECIFICATIONS.
13.	IN THE EVENT OF DISCREPANCIES BETWEEN LOCAL SPECIFICATIONS AND THE OWNERS SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
14.	CONTRACTOR SHALL REFER TO ARCHITECTURAL DETAILS AND SPECIFICATIONS FOR REQUIREMENTS OF CONSTRUCTION AND JOINT SPACING OF SIDEWALKS, RAMPS, AND CURBING ADJACENT TO BUILDING.
15.	CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
16.	THE CONTRACTOR SHALL PROTECT ALL BENCHMARKS AND PROPERTY MONUMENTATION, BENCHMARKS AND MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED BY A LICENSED SURVEYOR AT THE CONTRACTORS EXPENSE.
17.	ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE CONDITIONS OF APPROVAL OUTLINED IN ALL STATE AND LOCAL PERMITS. CONTRACTOR SHALL OBTAIN COPIES OF ALL PERMITS AND ALL OF THE CONDITIONS OF APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THIS INFORMATION PRIOR TO CONSTRUCTION AND CONFORMING TO THE CONDITIONS AS REQUIRED DURING CONSTRUCTION.
18.	ALL STRIPING, PAVEMENT MARKINGS, AND TRAFFIC SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, UNLESS OTHERWISE NOTED ON THE PLANS.
19.	ALL CURB RAMPS, PROPOSED AND/OR EXISTING AND ADJACENT TO PROPOSED WORK SHALL BE ACCESSIBLE (HANDICAP) RAMPS, 1:12 (8.3%) MAX SLOPE, CEMENT CONCRETE WITH TACTILE WARNING STRIPS PER LOCAL, STATE AND FEDERAL REQUIREMENTS. ACCESSIBLE ROUTES, INCLUDING CROSSWALKS, SHALL BE 5% MAX WITH A 2% MAX CROSS-SLOPE.
20.	CONTRACTOR SHALL DEVELOP AN EQUIPMENT AREA STAGING PLAN TO REVIEW WITH CLIENT PRIOR TO MOBILIZATION.
21.	THE FULL SET OF APPROVED PROJECT PLANS ARE ON FILE AT THE TOWN OF SOUTH HADLEY PLANNING DEPARTMENT.

SPECIAL CONSTRUCTION NOTES	
1.	PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE TOWN OF SOUTH HADLEY REPRESENTATIVES, OWNERS ENGINEER, CONSULTING ENGINEER, CONSTRUCTION MANAGER, UTILITY COMPANY REPRESENTATIVES, AND ANY OTHER AFFECTED PARTIES.
2.	THE CONTRACTOR SHALL NOTIFY DIG SAFE @ 8-1-1 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITY.
3.	THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL LAND SURVEYOR FOR CONSTRUCTION LAYOUT AND CONTROL. ALL COST SHALL BE INCLUDED IN THE BASE BID.
4.	THE CONTRACTOR SHALL REMOVE OR RELOCATE, WHEN APPLICABLE, ALL EXISTING STRUCTURES, FOUNDATIONS AND CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPE, POWER POLES AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED TO ALLOW FOR CONSTRUCTION, UNLESS OTHERWISE NOTED.
5.	ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AND GRADED TO ORIGINAL GRADES UNLESS OTHERWISE SHOWN ON THE THE CONSTRUCTION DRAWINGS.
6.	CONTRACTOR SHALL PROVIDE TWO SETS OF AS-BUILT DRAWINGS, AS WELL AS AN ELECTRONIC COPY PRIOR TO FINAL PAYMENT. AS-BUILT DRAWINGS SHALL BE IN FULL ACCORDANCE WITH CLIENT REQUIREMENTS FOR TOPOGRAPHIC AND RETRACEMENT SURVEYS AND SHALL INCLUDE ALL INSTALLED UTILITIES WITH VERTICAL AND HORIZONTAL LOCATIONS AND BE SATISFACTORY TO THE BUILDING OFFICIAL FOR ISSUANCE OF A CERTIFICATION OF OCCUPANCY. THE AS-BUILT DRAWINGS SHALL ALSO INCLUDE PIPE INVERTS AND BE STAMPED AND SIGNED BY A LICENSED ENGINEER OR PROFESSIONAL LAND SURVEYOR WITH THE STATE OF MASSACHUSETTS.
7.	CONTRACTOR SHALL ADJUST Bmps AS NEEDED BASED ON FIELD CONDITIONS TO PREVENT MIGRATION OF SEDIMENT OFF-SITE.

SITE GRADING NOTES	
1.	CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE SITE. UTILITIES THAT ARE TO BE REMOVED SHALL BE DISPOSED OF AT AN APPROVED LOCATION.
2.	THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL DIG SAFE @ 8-1-1 AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3.	ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE SHOWN ON PLAN.
4.	PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
5.	STORM PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED: HIGH DENSITY POLYETHYLENE PIPE (HDPE) SMOOTH INTERIOR / ANNUAL EXTERIOR. PIPE JOINTS AND FITTINGS SHALL CONFORM TO AASHTO M252 AND M254. CONTRACTOR MAY PROPOSE A SUBSTITUTION OF REINFORCED CONCRETE PIPE (RCP) FOR CONSIDERATION BY THE OWNER AT THE CONTRACTORS EXPENSE.
6.	EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
7.	EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
8.	PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
9.	IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER AT NO COST TO THE OWNER.
10.	ALL STORM PIPES ENTERING STRUCTURES SHALL BE GROUDED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
11.	ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING (H20) RING & COVERS.
12.	THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE USEPA NPDES PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL PREPARE AND SUBMIT A STORM WATER NOTICE OF INTENT FOR COVERAGE UNDER THE GENERAL PERMIT AT LEAST 14 DAYS PRIOR TO ANY CONSTRUCTION.
13.	CONTRACTOR SHALL ADJUST AND/OR SAWCUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADING.
14.	CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
15.	TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY BY HAROLD L. EATEN & ASSOCIATES, INC. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
16.	ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE A MIN OF 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC AND/OR RIP-RAP TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
17.	CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
18.	ALL DRAIN MANHOLES SHALL HAVE A SMOOTH UNIFORM Poured MORTAR INVERT FROM INVERT IN TO INVERT OUT.
19.	IF CONTRACTOR RELOCATES OR SETS NEW BENCHMARKS, THE VERTICAL ELEVATIONS OF THE BENCHMARKS SHALL BE SET, BY A LICENSED SURVEYOR, WITHIN A TOLERANCE OF 0.010 FT.
20.	ALL STRUCTURES IN THE NEW PAVEMENT AREAS ARE TO BE ADJUSTED TO MATCH NEW PAVEMENT ELEVATIONS. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.
21.	ALL BLASTING OPERATIONS MUST CONFORM TO THE TOWN OF SOUTH HADLEY AND THE STATE OF MASSACHUSETTS STANDARDS AND REGULATIONS.
22.	ALL LANDSCAPED ISLANDS SHALL BE MADE FLUSH AT BACK OF CURB WITH LOAM AND SEED AND/ OR LANDSCAPING PER LANDSCAPE PLAN.

SITE UTILITY NOTES	
1.	ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2.	CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3.	SANITARY SEWER PIPE SHALL BE AS FOLLOWS: SDR35 PER ASTM D 3034, FOR PIPES LESS THAN 12' DEEP SDR26 PER ASTM D 3034, FOR PIPES GREATER THAN 12' DEEP
4.	ALL WATER SYSTEM COMPONENTS AND WATER LINES SHALL BE PVC (AWWA SPEC C-900), INSTALLED, TESTED & CHLORINATED ACCORDING TO AWWA STANDARDS, AND OWNER, TOWN OF SOUTH HADLEY AND MASS DEP REGULATIONS. RESTRAINT DEVICES FOR MECHANICAL JOINT FITTINGS AND APPURTENANCES SHALL CONFORM TO ANSI A21.11 OR ANSI A21.53 (AWWA C111 or AWWA C153).
5.	CONTRACTOR SHALL MAINTAIN A MINIMUM OF 5'-6" COVER ON ALL WATERLINES.
6.	WATER AND SANITARY SEWER SEPARATION SHALL BE 10' MIN. HORIZONTAL FROM OUTSIDE EDGE OF PIPES. IF HORIZONTAL SEPARATION CAN NOT BE OBTAINED, THE WATER LINE MUST BE INSTALLED A MIN. OF 18" ABOVE SANITARY SEWER LINE ONLY WITH THE APPROVAL OF THE OWNER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE (10' MIN), AND THE SEWER MATERIALS SHALL BE WATER WORKS GRADE 150 PSI PRESSURE RATED PIPE MEETING LATEST AWWA STANDARDS AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE.
7.	PIPES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BY LOCAL AUTHORITY BEFORE BACKFILLING.
8.	TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS.
9.	CATCH BASIN THROATS SHALL BE ALIGNED WITH THE FACE OF CURB TO PROVIDE FREE AND CLEAR DRAINAGE TO THE STRUCTURE BELOW.
10.	ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
11.	DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
12.	EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
13.	REFER TO MEP DRAWINGS FOR TIE-IN OF ALL UTILITIES.
14.	CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE TOWN OF SOUTH HADLEY WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
15.	THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT DIG SAFE @ 8-1-1 AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
16.	ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
17.	CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
18.	ALL LIGHT POLES SHALL BE 11.5' HIGH W/ 0.5' BASES AS SHOWN ON THE SITE LIGHTING PLAN UNLESS OTHERWISE NOTED. (SEE DETAIL)
19.	CONTRACTOR TO REFER TO THE ARCHITECTURAL PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
20.	CONTRACTOR SHALL COMPLY WITH THE LATEST OSHA STANDARDS OR DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND MAINTENANCE OF ALL SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION.
21.	CONTRACTOR SHALL ENSURE UNINTERRUPTED SERVICE OF ALL EXISTING UTILITIES ON THE SITE INCLUDING BUT NOT LIMITED TO SEWER, WATER, ELECTRIC, GAS, TELEPHONE, CATV AND OTHERS.
22.	CONTRACTOR TO FIELD VERIFY SIZE, INVERT(S) AND MATERIAL OF EXISTING UTILITIES AT ALL TIE-IN POINTS AND CROSSINGS. ENGINEER SHALL BE NOTIFIED OF DEVIATIONS FROM THE EXISTING CONDITIONS SHOWN PRIOR TO CONSTRUCTION.
23.	DISCHARGES FROM DEWATERING OPERATIONS MUST BE DIRECTED THROUGH AN APPROPRIATE POLLUTION PREVENTION/TREATMENT MEASURE, SUCH AS A PUMP DISCHARGE FILTER BAG, SEDIMENT TRAP OR SEDIMENT BASIN PRIOR TO BEING DISCHARGED FROM THE SITE. UNDER NO CIRCUMSTANCES ARE DISCHARGES FROM DEWATERING OPERATIONS TO BE DISCHARGED DIRECTLY INTO STREAMS, WETLANDS OR OTHER AREAS OFF-SITE. LIKEWISE, DISCHARGES INTO STORM SEWER SYSTEMS THAT DO NOT DRAIN TO A SUITABLE ON-SITE TREATMENT FACILITY, SUCH AS A BASIN, ARE ALSO PROHIBITED. DISCHARGES FROM DEWATERING OPERATIONS MUST ALSO BE CONDUCTED IN A MANNER SUFFICIENT TO PREVENT EROSION FROM THE DISCHARGE RUNOFF.

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 Civil Engineering & Planning  
 136 West Street - Suite 103  
 Northampton, MA 01060  
 Phone: (413) 517-0133  
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**Legend & General Notes**

**Berkshire Hills Music Academy**  
**Bernon Music Center**  
 48 Woodbridge Street  
 South Hadley, MA 01075



Scale:	NTS
Designed:	CST
Drawn:	JBB
Reviewed:	TJH
Date:	1/22/2016

SHEET  
**C-2**  
 2 of 12  
 Project No:  
 1491-001

**PERMIT DRAWINGS - NOT FOR CONSTRUCTION**

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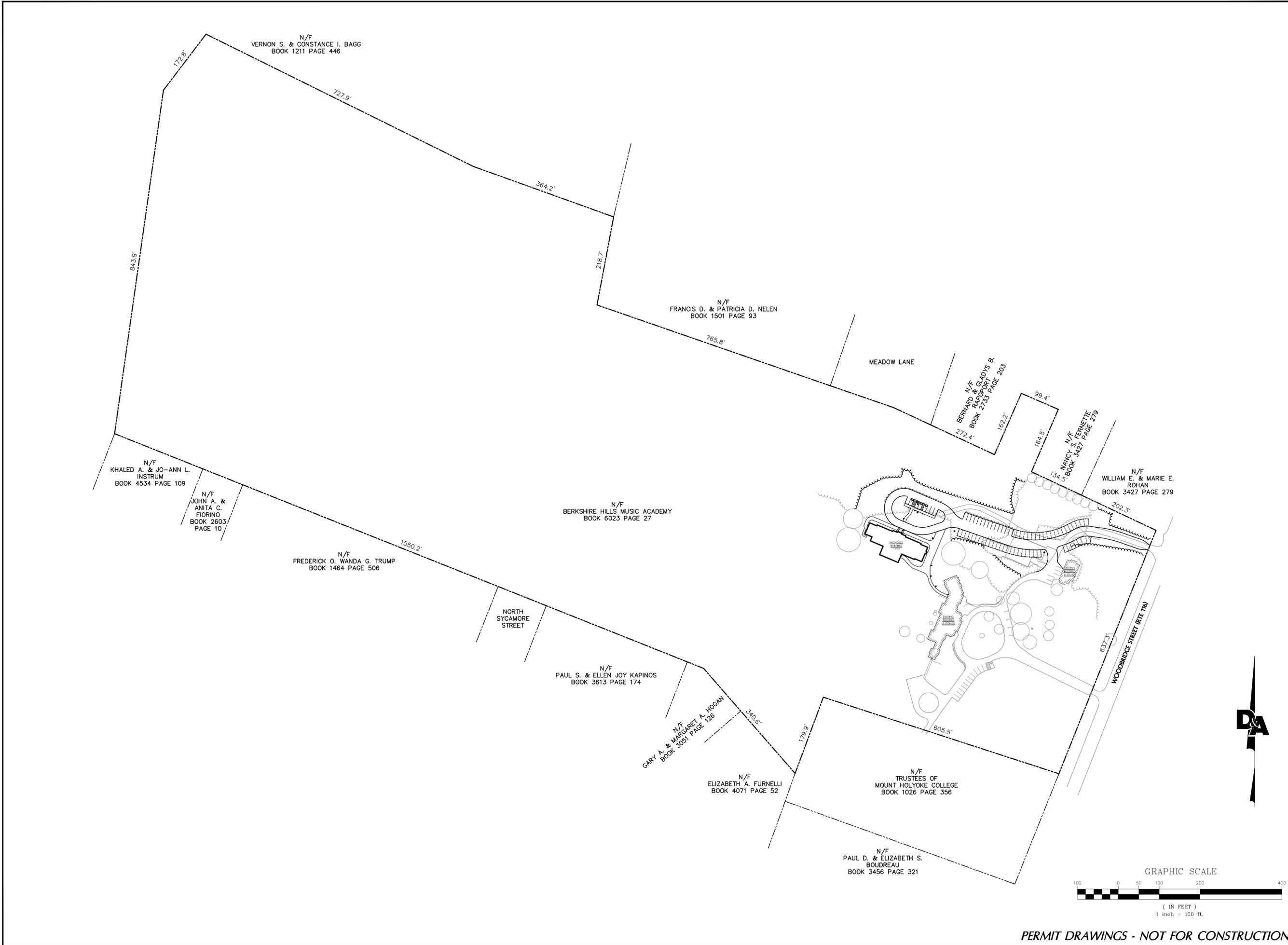
Overall Site Plan

**Berkshire Hills Music Academy**  
 Berron Music Center  
 48 Woodbridge Street  
 South Hadley, MA 01075



Scale: 1" = 100'  
 Designed: CST  
 Drawn: JBB  
 Reviewed: TJH  
 Date: 1/22/2016

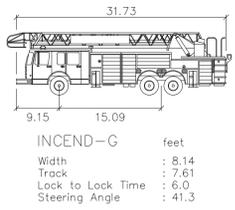
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**C-3**  
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 Project No:  
 1491-001



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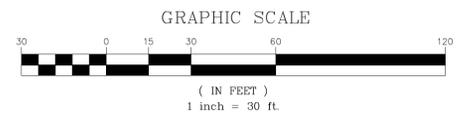
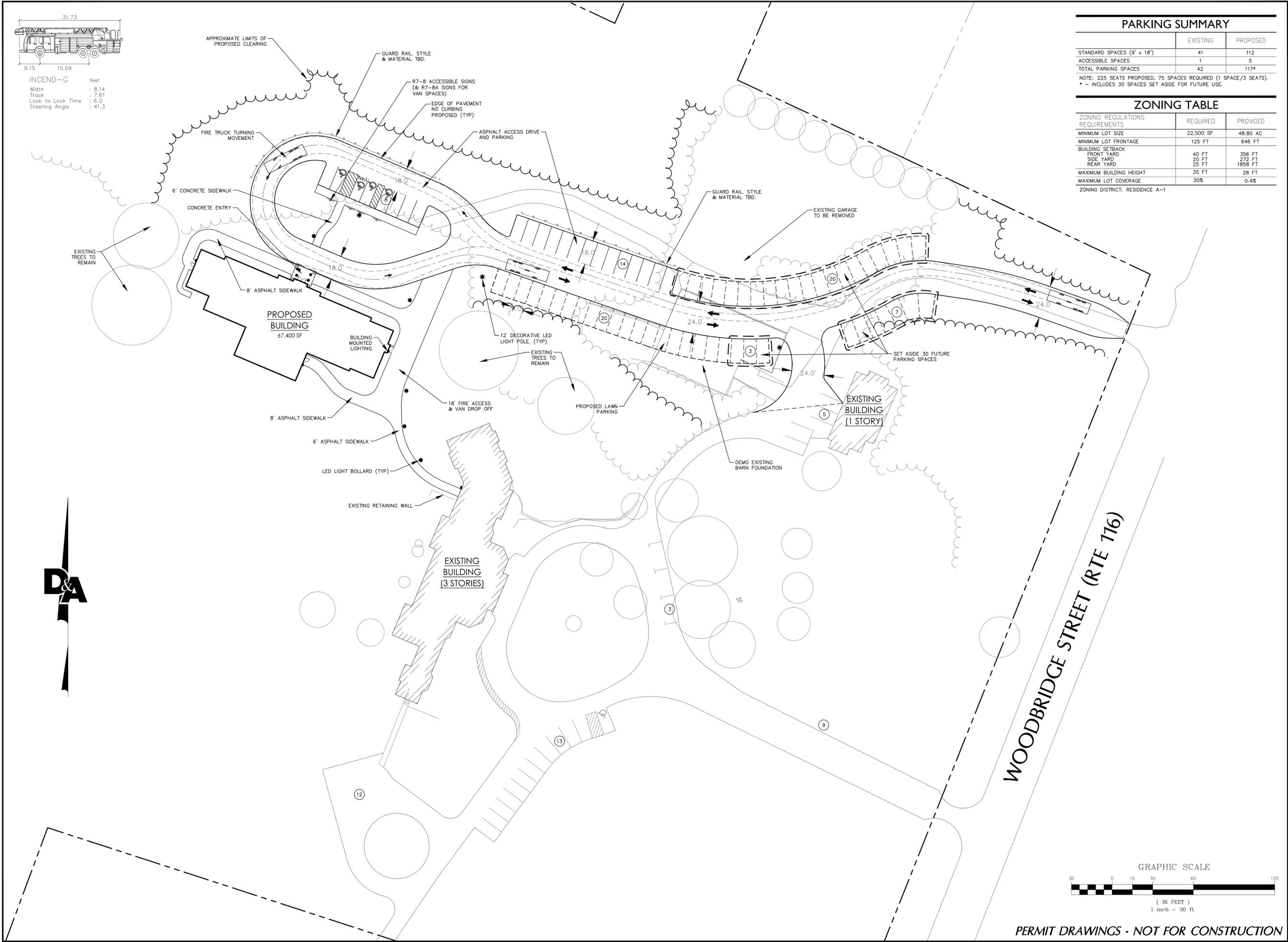


PARKING SUMMARY		
	EXISTING	PROPOSED
STANDARD SPACES (9' x 18')	41	112
ACCESSIBLE SPACES	1	5
TOTAL PARKING SPACES	42	117*

NOTE: 225 SEATS PROPOSED, 75 SPACES REQUIRED (1 SPACE/3 SEATS).  
 \* - INCLUDES 30 SPACES SET ASIDE FOR FUTURE USE.

ZONING TABLE		
ZONING REGULATIONS REQUIREMENTS	REQUIRED	PROVIDED
MINIMUM LOT SIZE	22,500 SF	48.80 AC
MINIMUM LOT FRONTAGE	125 FT	646 FT
BUILDING SETBACK		
FRONT YARD	40 FT	356 FT
SIDE YARD	20 FT	272 FT
REAR YARD	25 FT	1858 FT
MAXIMUM BUILDING HEIGHT	35 FT	28 FT
MAXIMUM LOT COVERAGE	30%	0.4%

ZONING DISTRICT: RESIDENCE A-1



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**Site Layout & Materials Plan**

**Berkshire Hills Music Academy**  
 Bernon Music Center  
 48 Woodbridge Street  
 South Hadley, MA 01075



Scale: 1" = 30'  
 Designed: CST  
 Drawn: JBB  
 Reviewed: TJH  
 Date: 1/22/2016

SHEET  
**C-4**  
 4 OF 12  
 Project No:  
 1491-001

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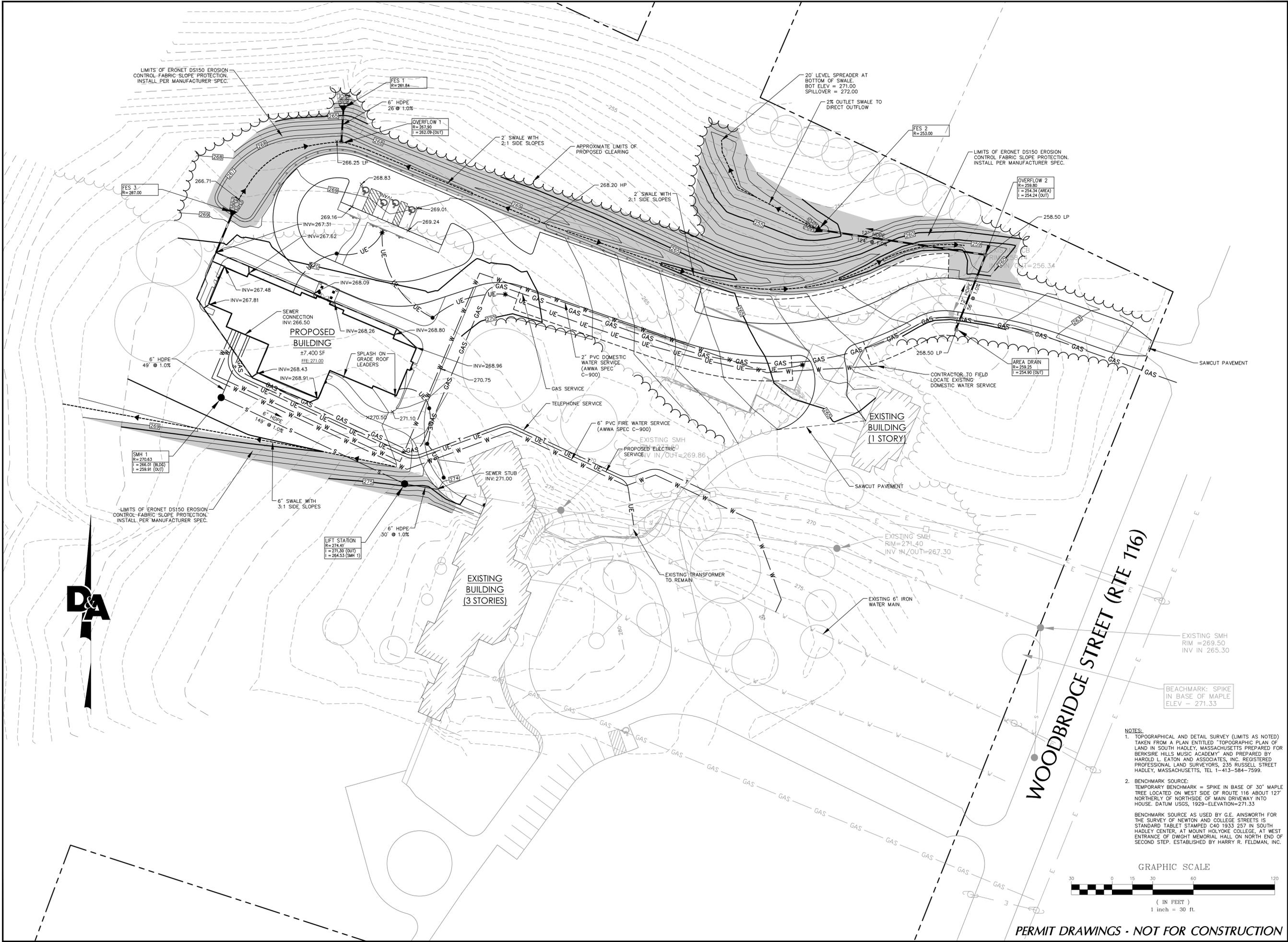
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**Site Grading & Utility Plan**

**Berkshire Hills Music Academy**  
 Berron Music Center  
 48 Woodbridge Street  
 South Hadley, MA 01075



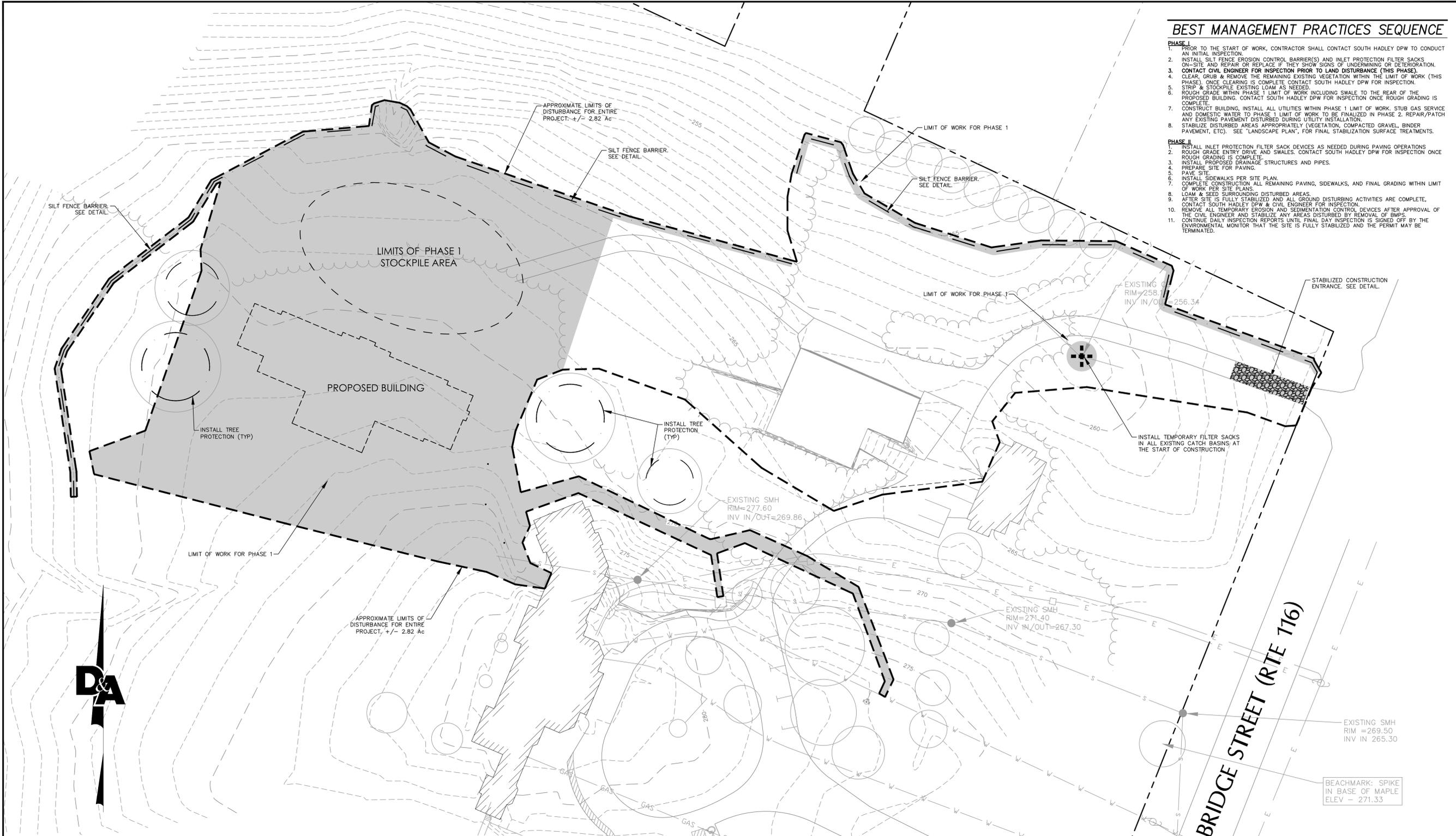
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 Reviewed: TJH  
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 SHEET  
**C-5**  
 5 of 12  
 Project No: 1491-001



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 Date: 1/22/2016 11:00:43  
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**BEST MANAGEMENT PRACTICES SEQUENCE**

- PHASE I**
1. PRIOR TO THE START OF WORK, CONTRACTOR SHALL CONTACT SOUTH HADLEY DPW TO CONDUCT AN INITIAL INSPECTION.
  2. INSTALL SILT FENCE EROSION CONTROL BARRIER(S) AND INLET PROTECTION FILTER SACKS ON-SITE AND REPAIR OR REPLACE IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
  3. CONTACT CIVIL ENGINEER FOR INSPECTION PRIOR TO LAND DISTURBANCE (THIS PHASE).
  4. CLEAR, GRUB & REMOVE THE REMAINING EXISTING VEGETATION WITHIN THE LIMIT OF WORK (THIS PHASE). ONCE CLEARING IS COMPLETE CONTACT SOUTH HADLEY DPW FOR INSPECTION.
  5. STRIP & STOCKPILE EXISTING LOAM AS NEEDED.
  6. ROUGH GRADE WITHIN PHASE 1 LIMIT OF WORK INCLUDING SWALE TO THE REAR OF THE PROPOSED BUILDING. CONTACT SOUTH HADLEY DPW FOR INSPECTION ONCE ROUGH GRADING IS COMPLETE.
  7. CONSTRUCT BUILDING, INSTALL ALL UTILITIES WITHIN PHASE 1 LIMIT OF WORK. STUB GAS SERVICE AND DOMESTIC WATER TO PHASE 1 LIMIT OF WORK TO BE FINALIZED IN PHASE 2. REPAIR/PATCH ANY EXISTING PAVEMENT DISTURBED DURING UTILITY INSTALLATION.
  8. STABILIZE DISTURBED AREAS APPROPRIATELY (VEGETATION, COMPACTED GRAVEL, BINDER PAVEMENT, ETC). SEE 'LANDSCAPE PLAN', FOR FINAL STABILIZATION SURFACE TREATMENTS.
- PHASE II**
1. INSTALL INLET PROTECTION FILTER SACK DEVICES AS NEEDED DURING PAVING OPERATIONS
  2. ROUGH GRADE ENTRY DRIVE AND SWALES. CONTACT SOUTH HADLEY DPW FOR INSPECTION ONCE ROUGH GRADING IS COMPLETE.
  3. INSTALL PROPOSED DRAINAGE STRUCTURES AND PIPES.
  4. PREPARE SITE FOR PAVING.
  5. PAVE SITE.
  6. INSTALL SIDEWALKS PER SITE PLAN.
  7. COMPLETE CONSTRUCTION ALL REMAINING PAVING, SIDEWALKS, AND FINAL GRADING WITHIN LIMIT OF WORK PER SITE PLANS.
  8. LOAM & SEED SURROUNDING DISTURBED AREAS.
  9. AFTER SITE IS FULLY STABILIZED AND ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE, CONTACT SOUTH HADLEY DPW & CIVIL ENGINEER FOR INSPECTION.
  10. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES AFTER APPROVAL OF THE CIVIL ENGINEER AND STABILIZE ANY AREAS DISTURBED BY REMOVAL OF BMP'S.
  11. CONTINUE DAILY INSPECTION REPORTS UNTIL FINAL DAY INSPECTION IS SIGNED OFF BY THE ENVIRONMENTAL MONITOR THAT THE SITE IS FULLY STABILIZED AND THE PERMIT MAY BE TERMINATED.



**SEDIMENTATION & EROSION CONTROL NOTES**

1. TEMPORARY EROSION CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH PLANS AND SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. SILT AND SEDIMENTATION SHALL BE REMOVED FROM THE CONTROLS AS NECESSARY. TEMPORARY CONTROLS SHALL REMAIN IN PLACE UNTIL PERMANENT CONTROLS HAVE BEEN ESTABLISHED.
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3. INSTALL SILT FENCING AND EROSION CONTROLS DOWN SLOPE OF ALL AREAS TO BE DISTURBED.
4. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND 4 INCHES OF TOPSOIL APPLIED. THESE AREAS SHALL THEN BE SEED, MULCHED, WATERED, AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE GRASSED EXCEPT AS SHOWN ON THE LANDSCAPING PLAN. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER.
5. FREQUENT SWEEPING OF THE PAVED AREAS DURING CONSTRUCTION WILL BE REQUIRED TO HELP MITIGATE MIGRATION OF SOILS ONTO THE SURROUNDING PAVED AREAS AND STORM SEWER SYSTEM.
6. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL CLEAN ALL STORM DRAINAGE STRUCTURES, PIPES, ETC. PRIOR TO FINAL PAYMENT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS PERTAINING TO THE TOWN OF LONGMEADOW, STORM WATER MANAGEMENT ORDINANCE.

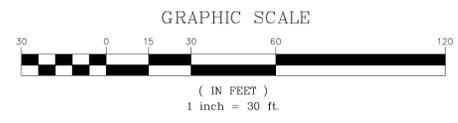
**LEGEND**

- LIMITS OF AREA TO BE DISTURBED = 2.82 ACRES
- 122- PROPOSED GRADE
- SILT FENCE
- ⊕ TEMPORARY FILTER SACK (GRATED INLET)
- PHASE LIMIT OF WORK

**CHECK LIST FOR EROSION CONTROL PLAN**

RESPONSIBLE PERSONNEL- OWNER AND SITE CONTRACTORS

WORK DESCRIPTION	LOCATION	DATE INSTALLED	INITIALS	DATE REMOVED	INITIALS
SILT FENCE AND HAY BALES	DOWNSLOPE OF ALL PROP. CONSTRUCTION				
CONSTRUCTION ENTRANCE / EXIT	HAMPDEN STREET ENTRANCE				
TOPSOIL SEED, & MULCH	AS SHOWN ON PLAN				



**PERMIT DRAWINGS - NOT FOR CONSTRUCTION**

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 Civil Engineering & Planning  
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 Northampton, MA 01060  
 Phone: (413) 517-0133  
 www.doucetandassociates.com

NO.	DATE	REVISION	APP.
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**Erosion & Sedimentation Control Plan - Phase 1**

**Berkshire Hills Music Academy**  
 Berron Music Center  
 48 Woodbridge Street  
 South Hadley, MA 01075



Scale: 1" = 30'  
 Designed: CST  
 Drawn: JBB  
 Reviewed: TJH  
 Date: 1/22/2016

SHEET  
**C-6**  
 6 OF 12  
 Project No: 1491-001

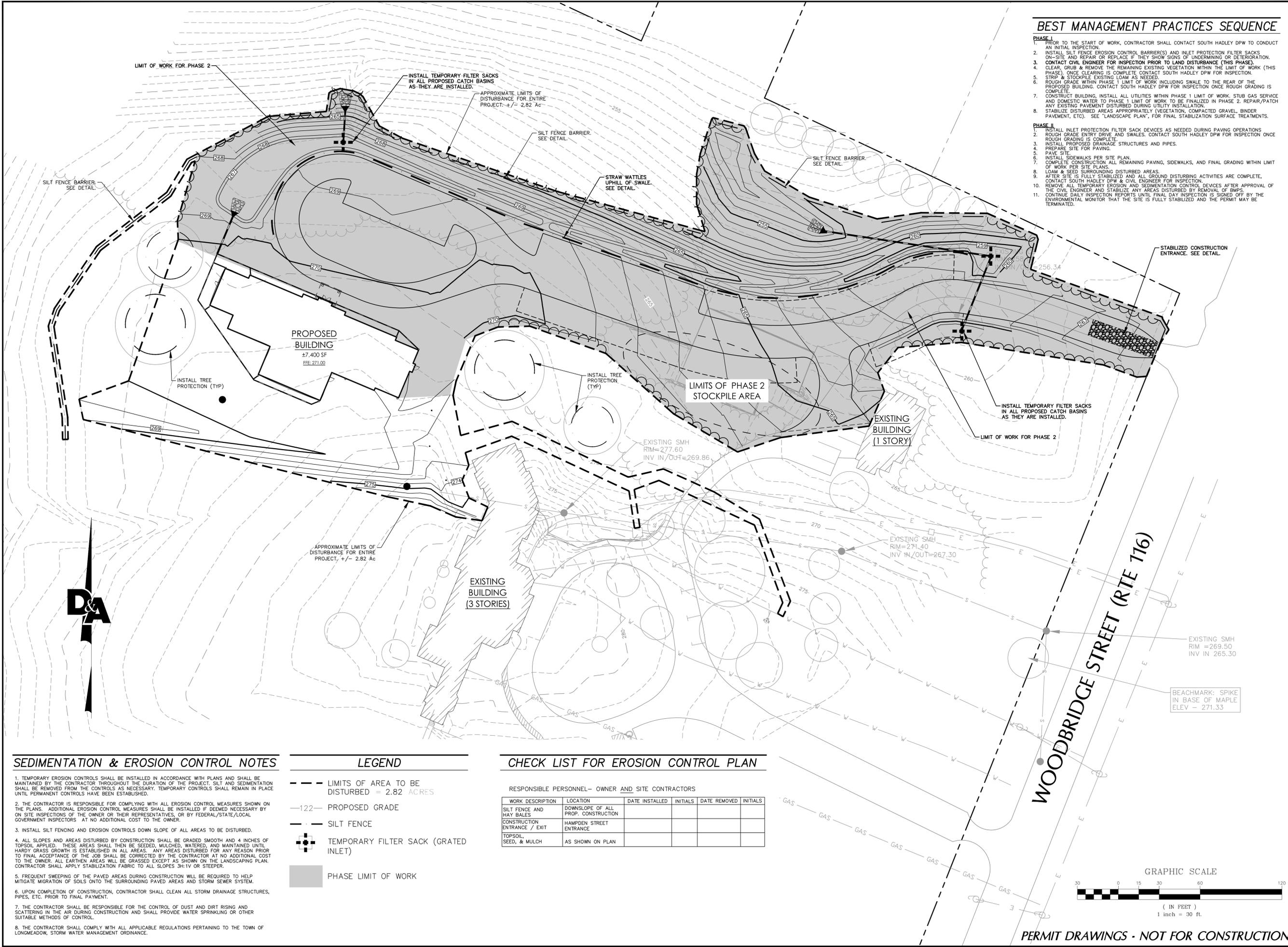
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**BEST MANAGEMENT PRACTICES SEQUENCE**

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1. PRIOR TO THE START OF WORK, CONTRACTOR SHALL CONTACT SOUTH HADLEY DPW TO CONDUCT AN INITIAL INSPECTION.
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**SEDIMENTATION & EROSION CONTROL NOTES**

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**LEGEND**

- LIMITS OF AREA TO BE DISTURBED = 2.82 ACRES
- 122- PROPOSED GRADE
- SILT FENCE
- ⊕ TEMPORARY FILTER SACK (GRADED INLET)
- PHASE LIMIT OF WORK

**CHECK LIST FOR EROSION CONTROL PLAN**

RESPONSIBLE PERSONNEL- OWNER AND SITE CONTRACTORS

WORK DESCRIPTION	LOCATION	DATE INSTALLED	INITIALS	DATE REMOVED	INITIALS
SILT FENCE AND HAY BALES	DOWNSLOPE OF ALL PROP. CONSTRUCTION				
CONSTRUCTION ENTRANCE / EXIT	HAMPDEN STREET ENTRANCE				
TOPSOIL SEED, & MULCH	AS SHOWN ON PLAN				

**Erosion & Sedimentation Control Plan - Phase 2**

**Berkshire Hills Music Academy**  
 Berron Music Center  
 48 Woodbridge Street  
 South Hadley, MA 01075



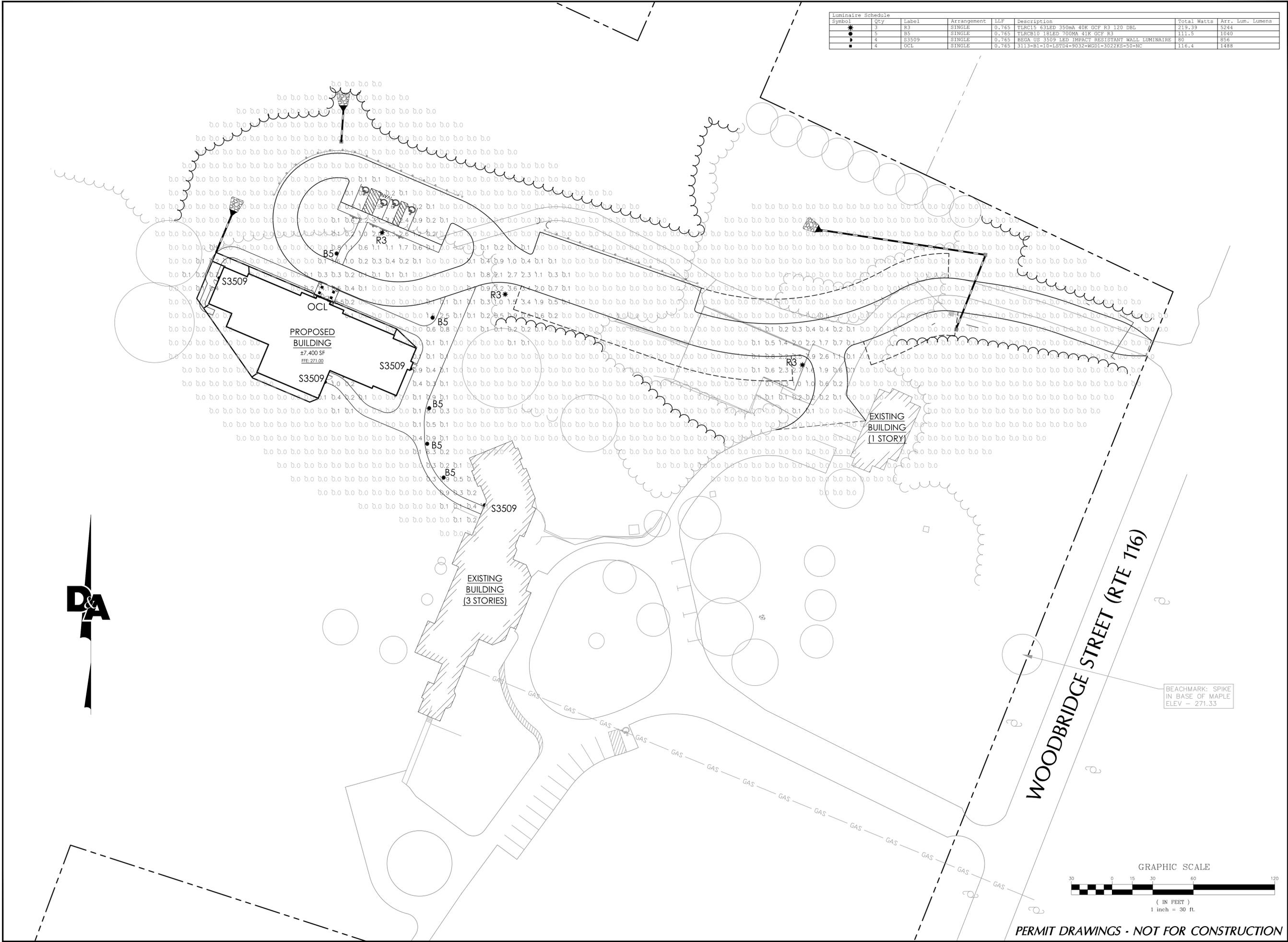
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 Reviewed: TJH  
 Date: 1/22/2016

SHEET  
**C-7**  
 7 of 12  
 Project No: 1491-001

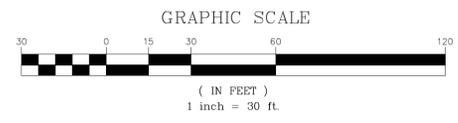
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 Plot Date/Time: Jan 22, 16 10:29:30 AM

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●	5	B5	SINGLE	0.765	TLRCL10 18LED 700MA 41K GCF R3	111.5	1040
■	4	S3509	SINGLE	0.765	BEGA US 3509 LED IMPACT RESISTANT WALL LUMINAIRE	80	856
■	4	OCL	SINGLE	0.765	3113-B1-10-LSTD4-9032-WGD1-3022KS-50-NC	116.4	1488



BEACHMARK: SPIKE  
IN BASE OF MAPLE  
ELEV - 271.33



PERMIT DRAWINGS - NOT FOR CONSTRUCTION

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Photometric Plan

Berkshire Hills Music Academy  
Berron Music Center  
48 Woodbridge Street  
South Hadley, MA 01075



Scale: 1" = 30'  
Designed: CST  
Drawn: JBB  
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Date: 1/22/2016

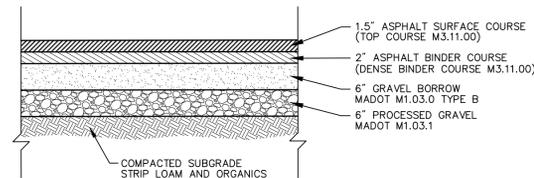
SHEET  
C-8  
8 OF 12  
Project No:  
1491-001

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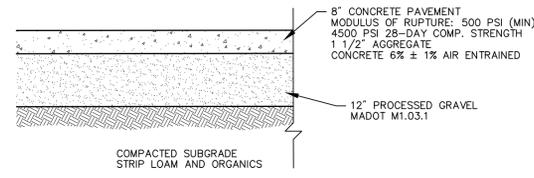
- Notes:
- SEE SITE LAYOUT PLAN FOR PAVEMENT WIDTH AND LOCATION.
  - SEE GRADING PLAN FOR PAVEMENT SLOPE.

### STANDARD DUTY ASPHALT PAVING

SOURCE: DOUCET & ASSOCIATES, INC.

SCALE: 2/27/07  
NOT TO SCALE PAGE-A-3

### Asphalt Paving

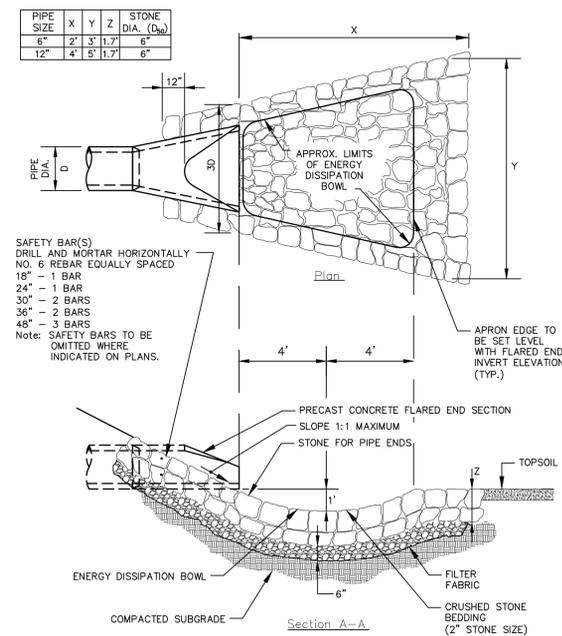


- Notes:
- CONCRETE PAVEMENT SHALL HAVE EXPANSION JOINTS AT A SPACING OF 80 TO 120 FEET WITH A JOINT FILLER THICKNESS BASED ON THE THERMAL EXPANSION. ALL EXPANSION JOINTS SHALL BE SEALED WITH AN AASHTO-APPROVED ELASTOMERIC JOINT SEALER. SLABS SEPARATED BY AN EXPANSION JOINT SHALL BE TIED TOGETHER WITH DOWELS THAT ARE 2'-6" LONG AND AT A SPACING OF BETWEEN 18 AND 40 INCHES IN ADDITION TO EXPANSION JOINTS, CONTRACTION, (CRACK CONTROL) JOINTS SHALL BE CONSTRUCTED AT A MAXIMUM SPACING OF 15 FEET ON CENTER.

### CONCRETE PAD

SCALE: 3/14/08  
NOT TO SCALE ADA-4

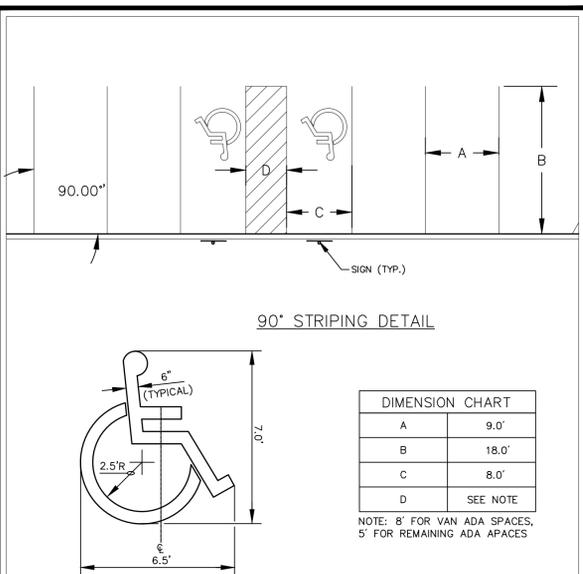
### Concrete Paving



SOURCE: DOUCET & ASSOCIATES, INC.

SCALE: 2/6/03  
NOT TO SCALE B-12

### Flared End Section (FES) with Stone Protection



### 90° STRIPING DETAIL

DIMENSION CHART	
A	9.0'
B	18.0'
C	8.0'
D	SEE NOTE

NOTE: 8' FOR VAN ADA SPACES, 5' FOR REMAINING ADA APACES

### ACCESSIBLE PARKING SYMBOL

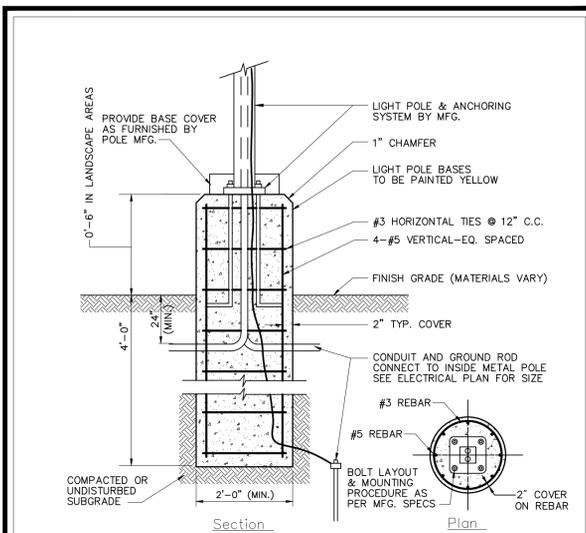
LOCATE AT EDGE OF PARKING SPACE UNLESS ACCOMPANIED BY "VAN" LETTERING

### Notes:

- SEE SITE PLAN FOR TOTAL LAYOUT
- THESE DETAILS ARE FOR REFERENCE AND DIMENSION CONTROL ONLY
- ALL DIMENSIONS ARE THE CENTERLINE TO OF STRIPE UNLESS OTHERWISE INDICATED
- AREA STRIPING SHALL BE 4" WIDE, 24" O.C. AT 45°

SCALE: 11/14/06  
NOT TO SCALE STRP-14

### Parking Lot Striping Detail



Section

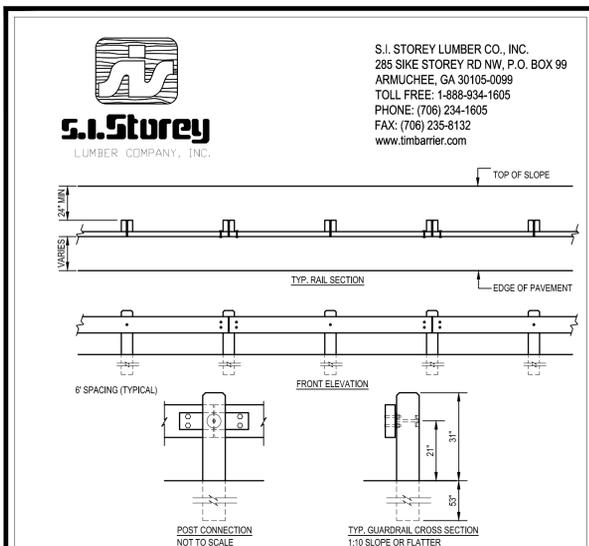
Plan

### Notes:

LIGHT POLE FOUNDATION DESIGN IS SUBJECT TO CHANGE BASED ON FINAL POLE AND FIXTURE SELECTION AND GEOTECHNICAL SITE INVESTIGATION.

SCALE: 2/6/03  
NOT TO SCALE L1-2

### Light Pole Foundation Detail (Up to 15' Pole)



- NOTES:
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  - DO NOT SCALE DRAWINGS.
  - POST LENGTH TO BE 7' WHEN LOCATED IN CLIMATES WHERE FROST HEAVING MAY OCCUR.
  - DRIVE POSTS OR AUGER, BACKFILL WITH NATIVE SOIL AND COMPACT EVERY 12".
  - ALL TIMBER #1 S4S SOUTHERN PINE, PRESSURE TREATED, AWPA-C14, WOOD FOR USE IN HWY. CONSTR.
  - TYP. POST: 6" X 6" X 5' - TYP. RAIL: 3" X 12" X 11' 11 1/2"; FOR RADIUS SECTIONS SPECIFY 3" X 12" X 9' 11 1/2"
  - FASTENERS: ASTM A307, A242, F436 TYPE 3, A563 DMS.
  - TIMBARRIER™ SPLICE PLATE & PLATE WASHER ASTM-A588.
  - UNDER EACH BOLT HEAD ON FACE OF RAIL INSTALL ONE 7/8" WASHER.
  - CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) REFERENCE NUMBER 651-001.

SCALE: 2/6/03  
NOT TO SCALE SGN-1

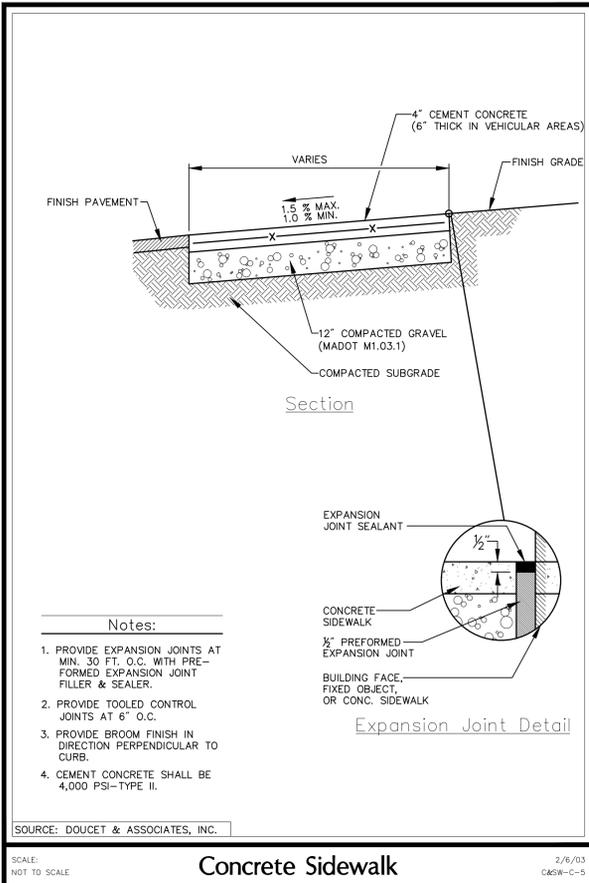
### Timbarrier Detail

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6			
5			
4			
3			
2			
1			

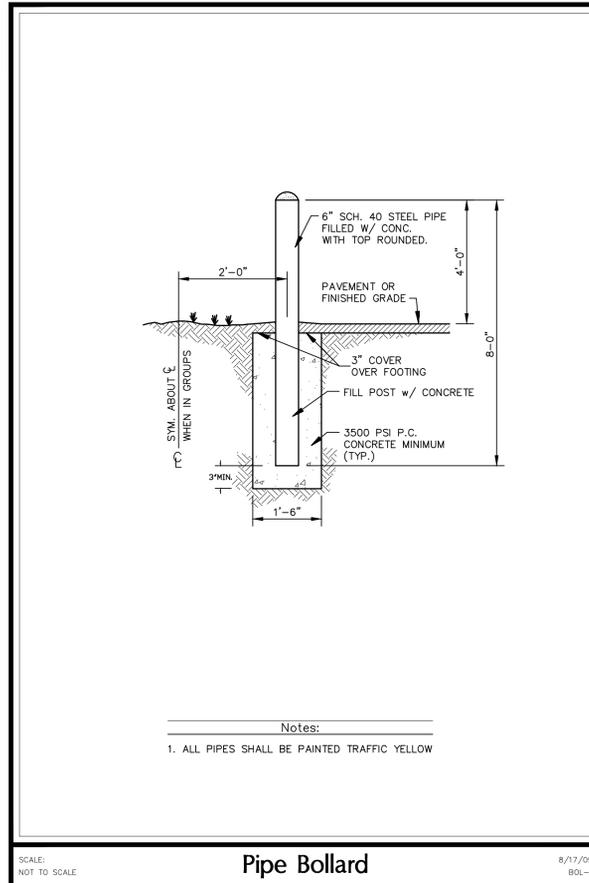
### Details



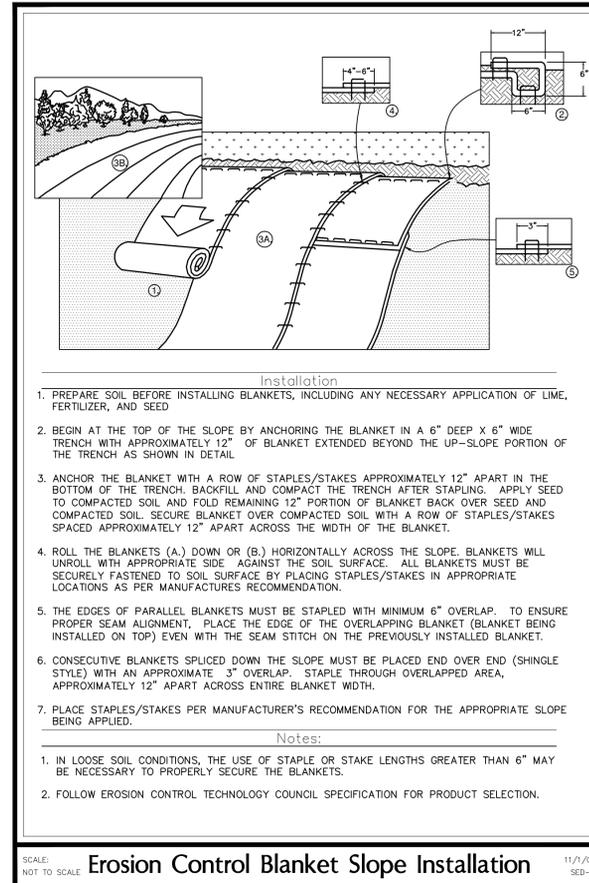
Scale: NTS  
Designed: CST  
Drawn: JBB  
Reviewed: TJH  
Date: 1/22/2016



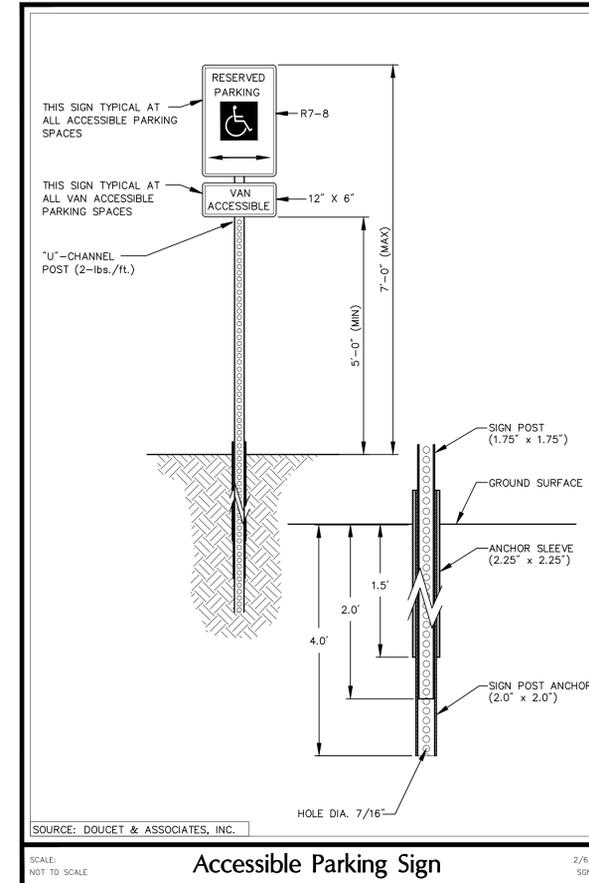
Concrete Sidewalk



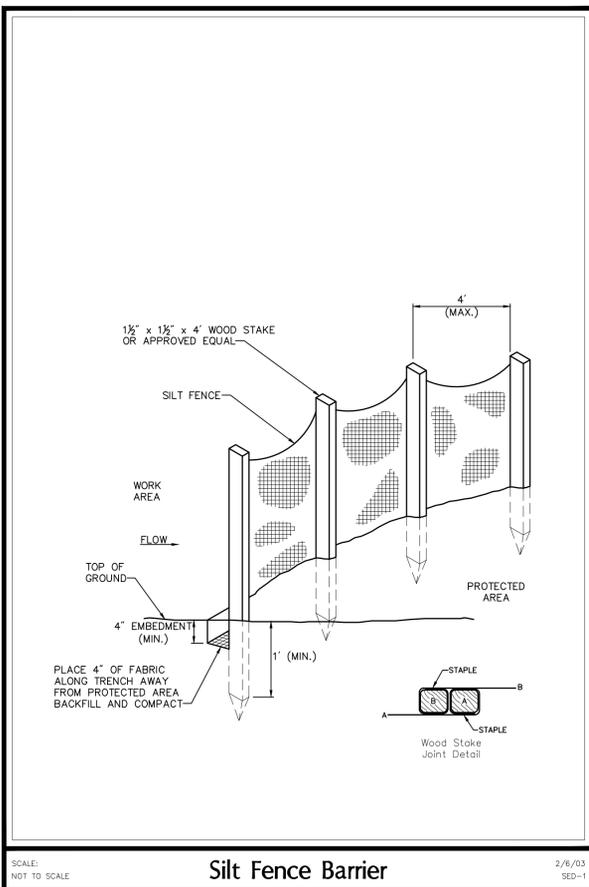
Pipe Bollard



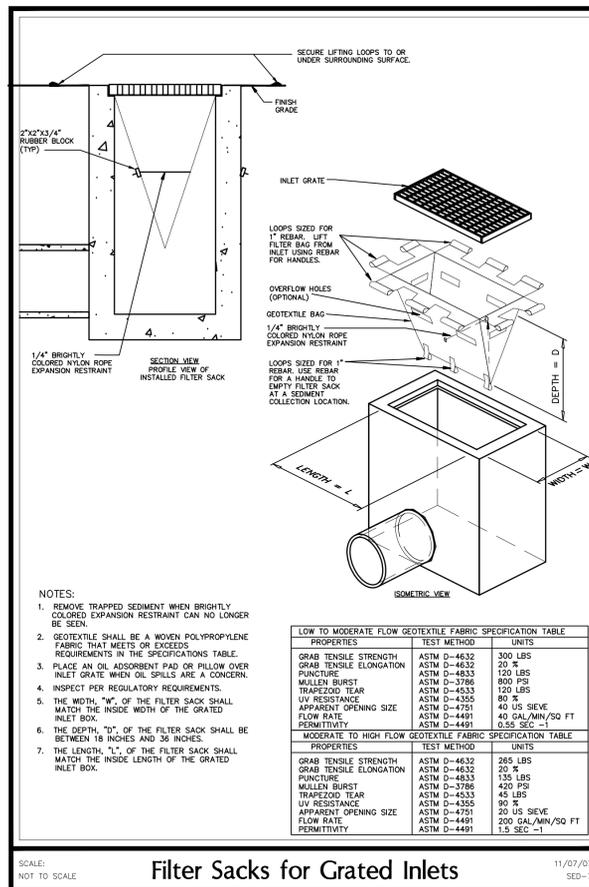
Erosion Control Blanket Slope Installation



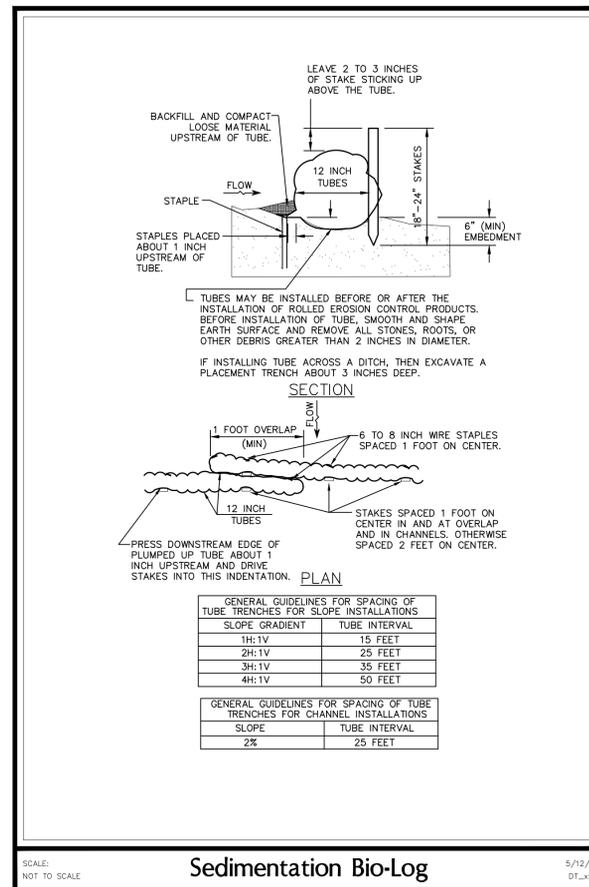
Accessible Parking Sign



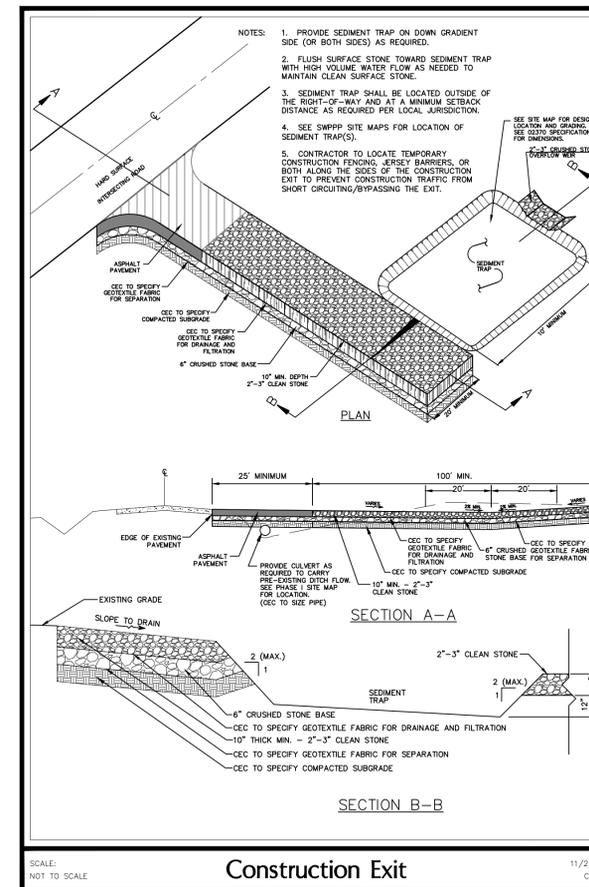
Silt Fence Barrier



Filter Sacks for Grated Inlets



Sedimentation Bio-Log



Construction Exit

NO.	DATE	REVISION	APP.
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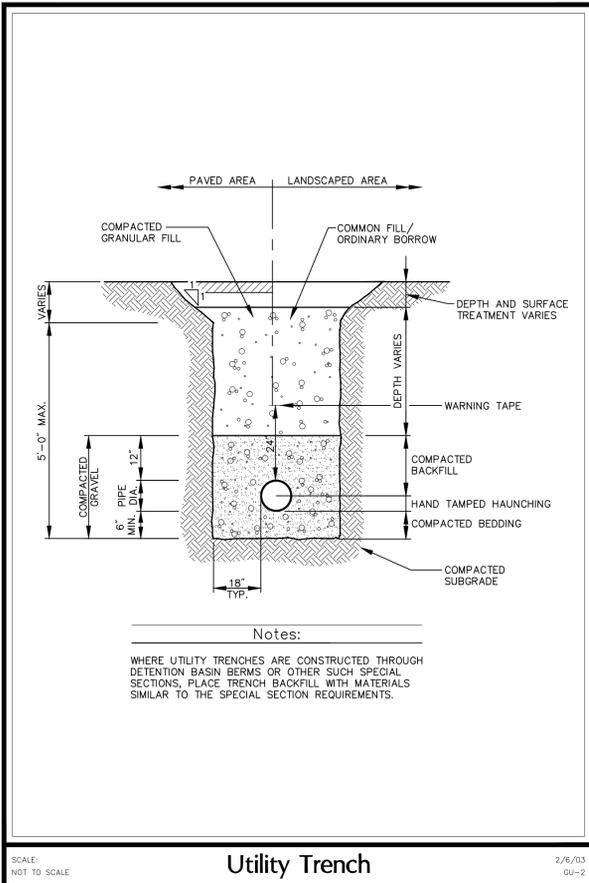
Details

**Berkshire Hills Music Academy**  
Bemnon Music Center  
48 Woodbridge Street  
South Hadley, MA 01075

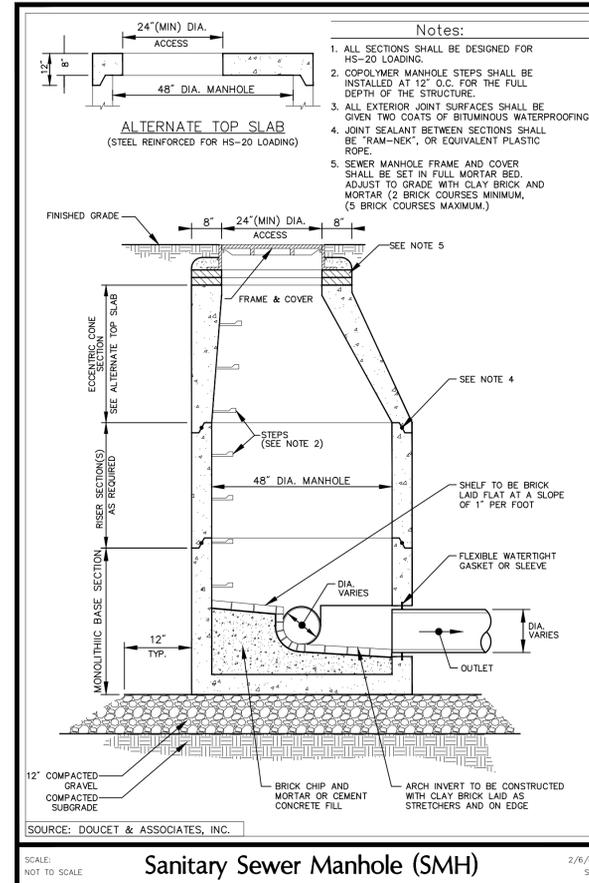


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Drawn: JBB  
Reviewed: TJH  
Date: 1/22/2016

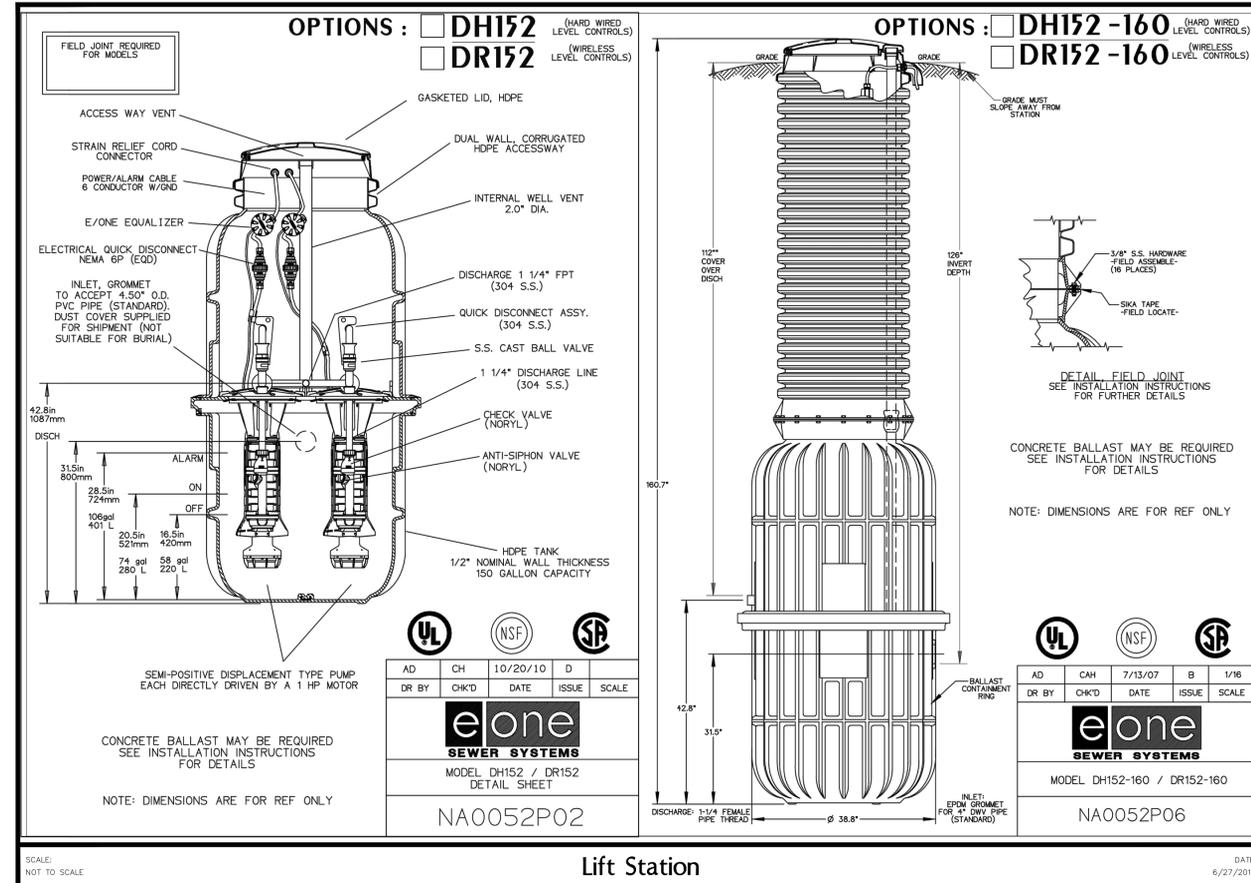
SHEET  
**C-10**  
10 of 12  
Project No: 1491-001



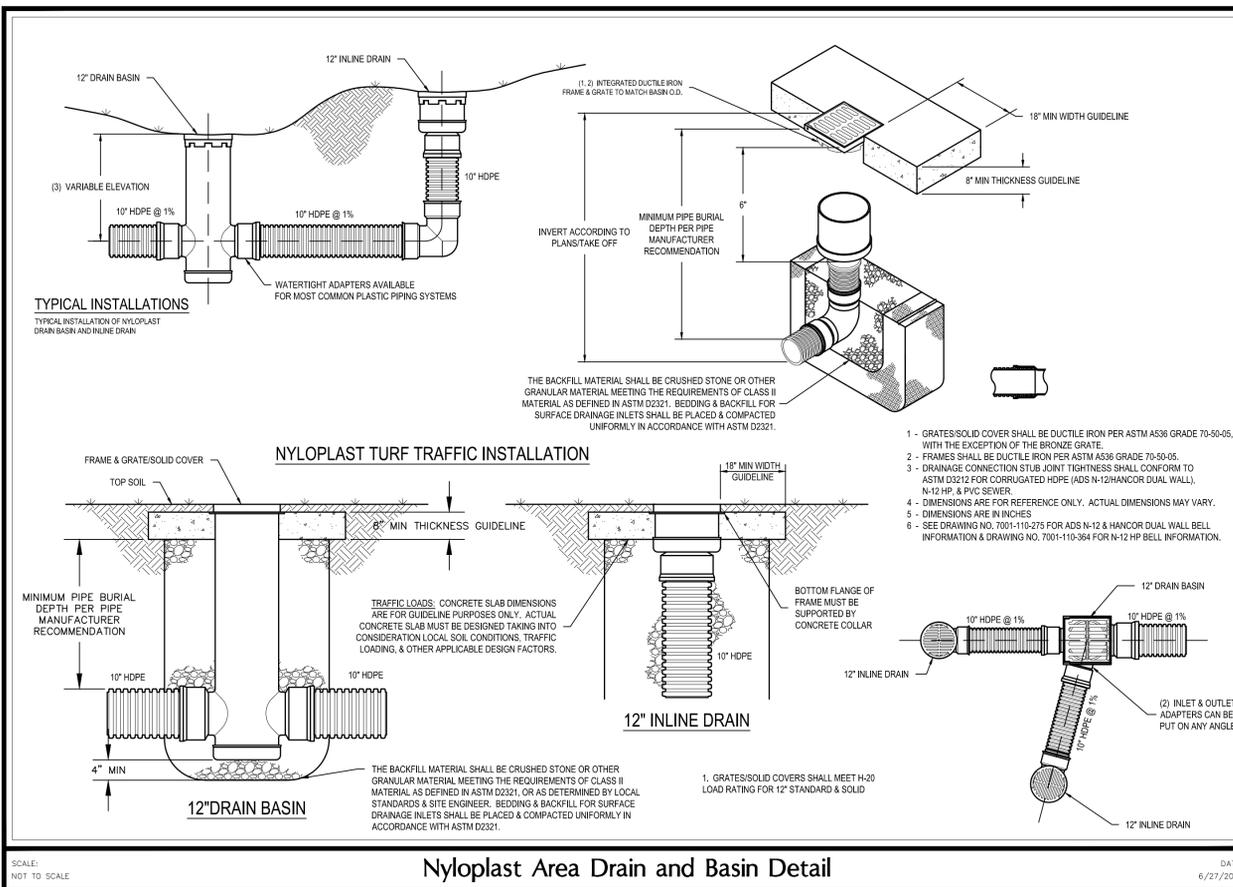
Utility Trench



Sanitary Sewer Manhole (SMH)



Lift Station



Nyroplast Area Drain and Basin Detail

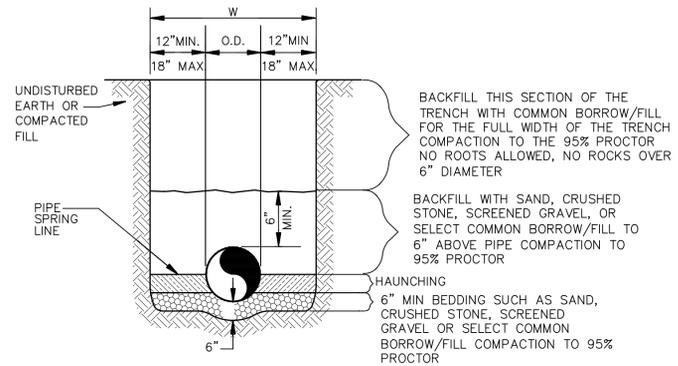
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Scale: NTS  
Designed: CST  
Drawn: JBB  
Reviewed: TJH  
Date: 1/22/2016

SHEET  
**C-11**  
11 of 12  
Project No: 1491-001



BACKFILL THIS SECTION OF THE TRENCH WITH COMMON BORROW/FILL FOR THE FULL WIDTH OF THE TRENCH COMPACTION TO THE 95% PROCTOR NO ROOTS ALLOWED, NO ROCKS OVER 6" DIAMETER

BACKFILL WITH SAND, CRUSHED STONE, SCREENED GRAVEL, OR SELECT COMMON BORROW/FILL TO 6" ABOVE PIPE COMPACTION TO 95% PROCTOR

HAUNCHING  
6" MIN BEDDING SUCH AS SAND, CRUSHED STONE, SCREENED GRAVEL OR SELECT COMMON BORROW/FILL COMPACTION TO 95% PROCTOR

PIPE DIA.	W
≤12"	O.D. OF PIPE + (12" TO 18")
>12"	≥ O.D. OF PIPE + 18"

Notes:

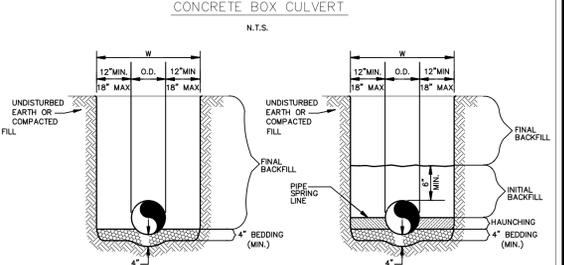
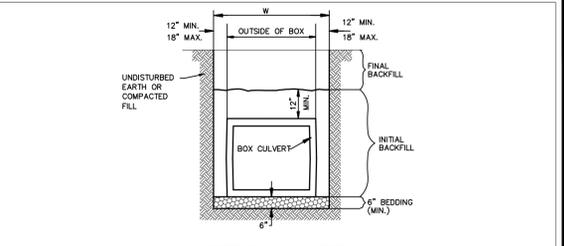
- ALL MATERIALS WILL CONFORM TO LOCAL MATERIAL SPECIFICATIONS AND INSTALLATION PROCEDURES SHALL CONFORM TO LOCAL GUIDELINES AND POLICIES.
- ALL WATER MAIN SHOULD HAVE MINIMUM OF DEPTH OF 5' TOP OF PIPE TO FINISHED GRADE.
- SEE TRENCH PATCH DETAIL FOR PAVEMENT EXCAVATION DIMENSIONS AND STANDARDS.
- REQUIREMENTS FOR SUBBASE AND BASE MATERIAL TYPE ARE TO BE IN ACCORDANCE WITH LOCAL AUTHORITY HAVING LOCAL JURISDICTION IN PAVED AREAS.
- REQUIREMENTS FOR GRAVEL, LOAM, AND/OR SEED ARE TO BE IN ACCORDANCE WITH LOCAL AUTHORITY HAVING LOCAL JURISDICTION IN NON-PAVED AREAS.
- ALL MATERIALS USED TO MEET MASS. STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
- ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698 CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
- FILL SLAVED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
- ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATION AND LOCAL ORDINANCES (SEE SPECIFICATIONS).
- ALL SEWER MAIN PIPE SHOULD HAVE A MINIMUM DEPTH OF 4' FROM TOP OF PIPE TO FINISH GRADE.
- IF 4' OF COVER IS NOT POSSIBLE PIPE SHALL BE INSULATED.
- ALL SEWER SERVICE LINES SHALL BE PVC SDR-35 AND MUST BE A MINIMUM OF 6" DIAMETER, NO EXCEPTIONS.

	SOIL TYPE	
	SILT OR CLAY	GRANULAR SOIL
ABOVE GROUND WATER	FILTER FABRIC NOT REQUIRED	FILTER FABRIC NOT REQUIRED
BELOW GROUND WATER	FILTER FABRIC REQUIRED	FILTER FABRIC NOT REQUIRED

2" OVERLAP MINIMUM OF FILTER FABRIC AT TOP OF BEDDING

Utility Trench and Bedding

12/21/04 GU-1



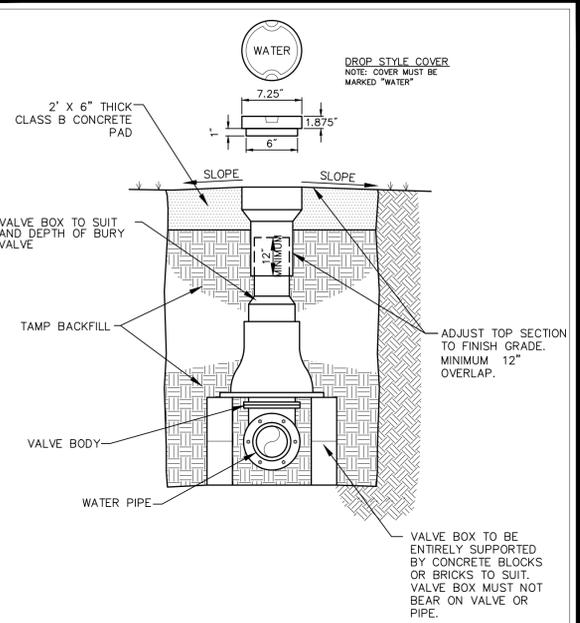
REINFORCED CONCRETE PIPE (RCP) AND SPIRAL RIB PIPE SMALLER THAN 60" Ø

ALL OTHER PIPES INCLUDING SPIRAL RIB PIPE 60" Ø AND LARGER

- GENERAL NOTES
- BEDDING SHALL BE CLASS I-A WORKED BY HAND, IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
  - HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
  - INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
  - INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS II COMPACTED TO 90% STANDARD PROCTOR.
  - FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
  - FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 90% STANDARD PROCTOR.
  - ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-LATEST EDITION.
  - ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 5" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698, CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
  - FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
  - ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

Storm Sewer Trench and Bedding

12/20/04 D-47

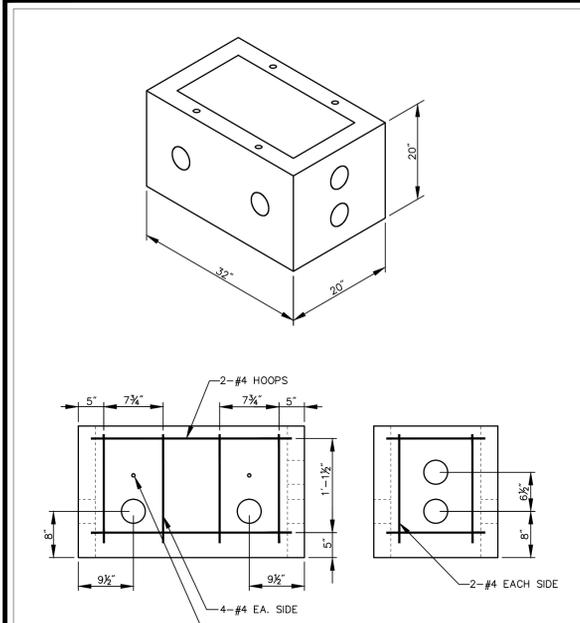


Notes:

- ALL MATERIALS WILL CONFORM TO SWSC MATERIAL SPECIFICATIONS AND INSTALLATION PROCEDURES WILL CONFORM TO SWSC GUIDELINES AND POLICIES.
- ALL WATER MAIN SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
- SEE TRENCHING DETAIL AND TRENCHING PATCH DETAIL FOR TRENCHING AND BACKFILLING SPECIFICATIONS.
- THIS IS A WAL-MART STANDARD DETAIL, MODIFIED BY D&A TO COMPLY WITH SWSC STANDARDS.

Gate Valve

12/21/04 W-5

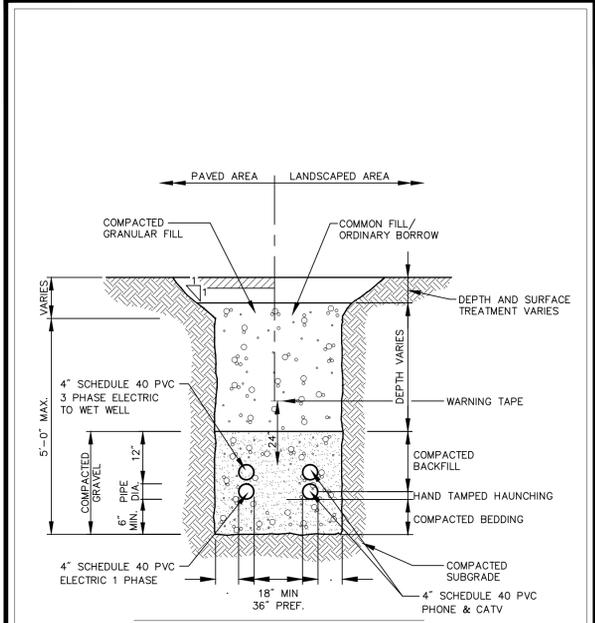


Notes:

- CONCRETE 4,000 PSI @28 DAYS.
- REINFORCING ASTM A-615, #4 REBAR AS SHOWN
- DESIGN FOR HS20-44 LOADING

Precast Pullbox

2/6/03 GU-5



Notes:

WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.

CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO PROVIDE REQUIRED CONDUIT, PULL TAPE, PULL VAULTS, MINIMUM SEPARATION, AND ALL OTHER STANDARDS AND SPECIFICATIONS.

Electric, Telephone, & CATV Trench

2/6/03 GU-2

NO.	DATE	REVISION	APP.
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Details



Scale: NTS  
Designed: CST  
Drawn: JBB  
Reviewed: TJH  
Date: 1/22/2016

SHEET  
**C-12**  
12 OF 12  
Project No:  
1491-001

Notes

Key Plan

Seal

BHMA Bernon Music Center



Project Number  
2697.000  
DATE  
01/22/16  
ISSUE

Scale  
As indicated

Date  
01.22.16  
Issue  
SITE PLAN REVIEW

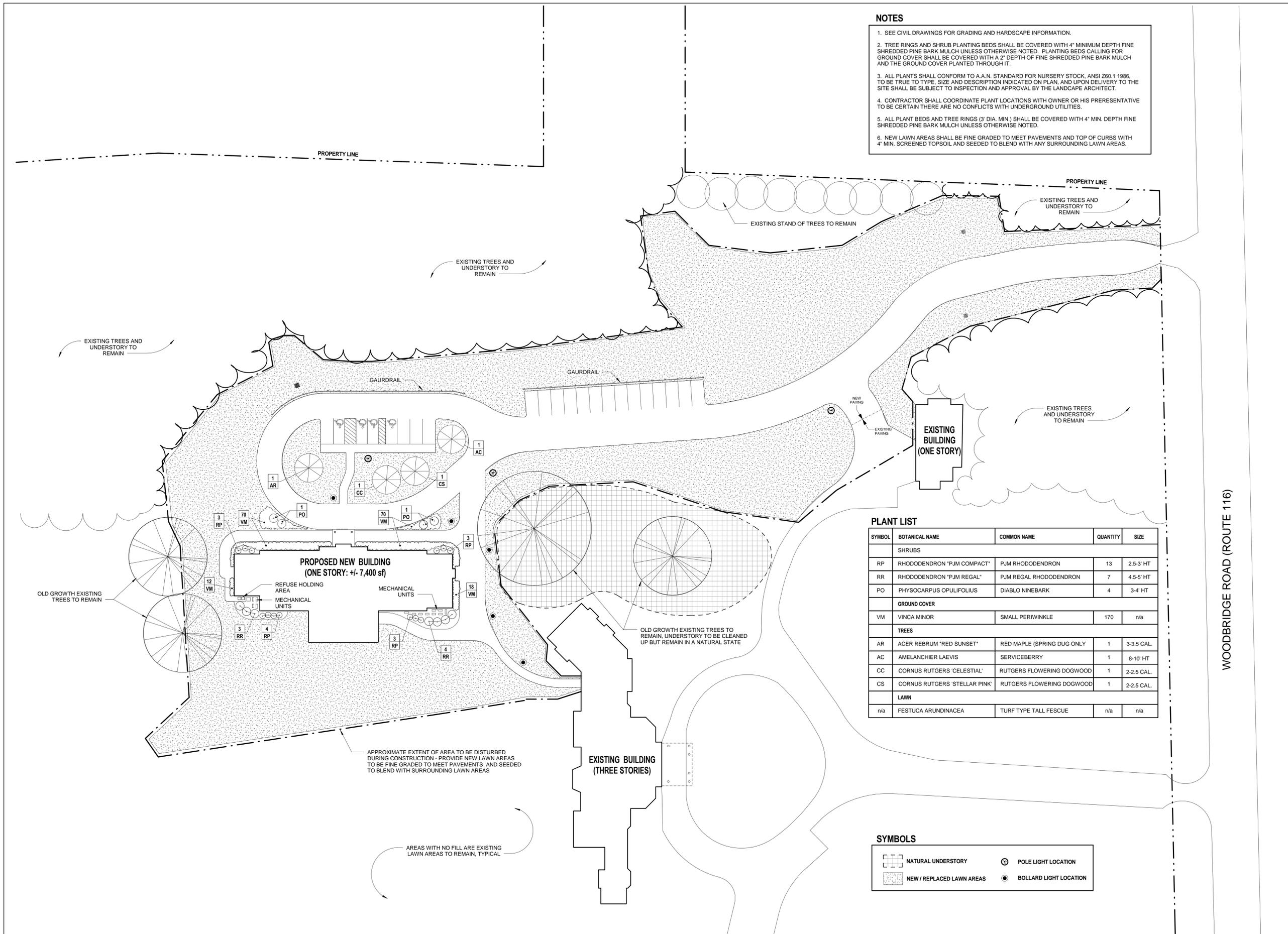
Title  
LANDSCAPING PLAN

**L100**

© Steffian Bradley Architects  
Plotted: 1/21/2016 6:37:19 PM

**NOTES**

1. SEE CIVIL DRAWINGS FOR GRADING AND HARDSCAPE INFORMATION.
2. TREE RINGS AND SHRUB PLANTING BEDS SHALL BE COVERED WITH 4" MINIMUM DEPTH FINE SHREDDED PINE BARK MULCH UNLESS OTHERWISE NOTED. PLANTING BEDS CALLING FOR GROUND COVER SHALL BE COVERED WITH A 2" DEPTH OF FINE SHREDDED PINE BARK MULCH AND THE GROUND COVER PLANTED THROUGH IT.
3. ALL PLANTS SHALL CONFORM TO A.N. STANDARD FOR NURSERY STOCK, ANSI Z60.1 1996, TO BE TRUE TO TYPE, SIZE AND DESCRIPTION INDICATED ON PLAN, AND UPON DELIVERY TO THE SITE SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT.
4. CONTRACTOR SHALL COORDINATE PLANT LOCATIONS WITH OWNER OR HIS PRERESENTATIVE TO BE CERTAIN THERE ARE NO CONFLICTS WITH UNDERGROUND UTILITIES.
5. ALL PLANT BEDS AND TREE RINGS (3" DIA. MIN.) SHALL BE COVERED WITH 4" MIN. DEPTH FINE SHREDDED PINE BARK MULCH UNLESS OTHERWISE NOTED.
6. NEW LAWN AREAS SHALL BE FINE GRADED TO MEET PAVEMENTS AND TOP OF CURBS WITH 4" MIN. SCREENED TOPSOIL AND SEEDED TO BLEND WITH ANY SURROUNDING LAWN AREAS.



**PLANT LIST**

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
<b>SHRUBS</b>				
RP	RHODODENDRON 'PJM COMPACT'	PJM RHODODENDRON	13	2.5-3' HT
RR	RHODODENDRON 'PJM REGAL'	PJM REGAL RHODODENDRON	7	4.5-5' HT
PO	PHYSCARPUS OPUULIFOLIUS	DIABLO NINEBARK	4	3-4' HT
<b>GROUND COVER</b>				
VM	VINCA MINOR	SMALL PERIWINKLE	170	n/a
<b>TREES</b>				
AR	ACER REBRUM 'RED SUNSET'	RED MAPLE (SPRING DUG ONLY)	1	3-3.5 CAL.
AC	AMELANCHIER LAEVIS	SERVICEBERRY	1	8-10' HT
CC	CORNUS RUTGERS 'CELESTIAL'	RUTGERS FLOWERING DOGWOOD	1	2-2.5 CAL.
CS	CORNUS RUTGERS 'STELLAR PINK'	RUTGERS FLOWERING DOGWOOD	1	2-2.5 CAL.
<b>LAWN</b>				
n/a	FESTUCA ARUNDINACEA	TURF TYPE TALL FESCUE	n/a	n/a

**SYMBOLS**

-  NATURAL UNDERSTORY
-  NEW / REPLACED LAWN AREAS
-  POLE LIGHT LOCATION
-  BOLLARD LIGHT LOCATION