

TOWN OF BOXFORD

BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT HARRY LEE COLE SCHOOL



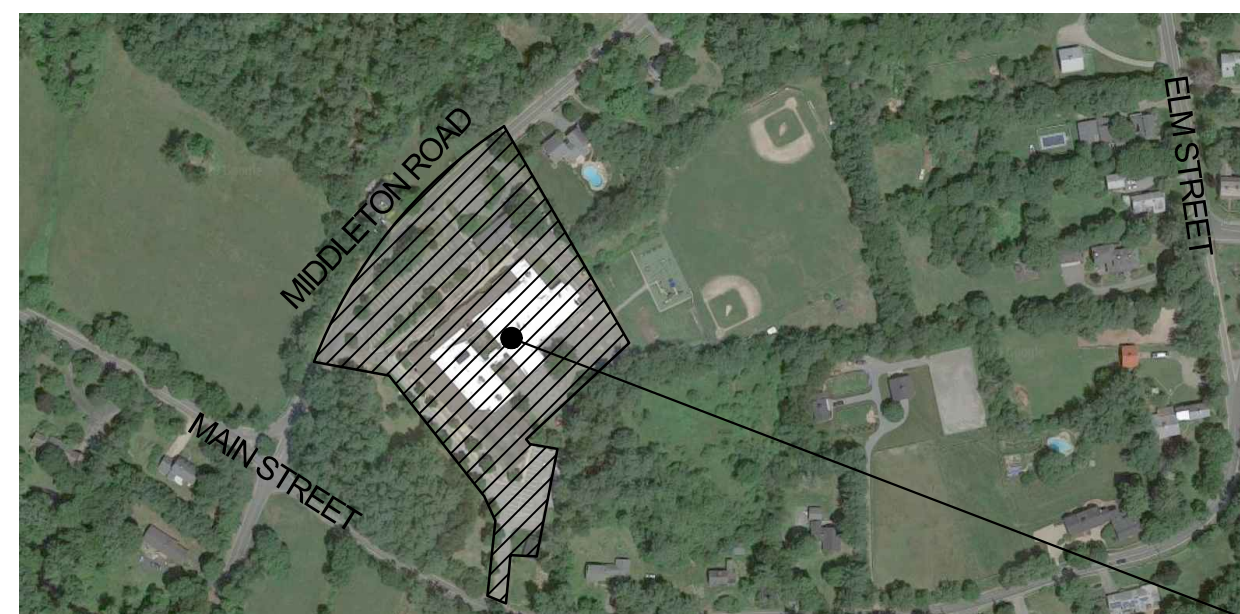
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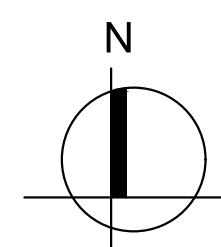
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Locus Map



HARRY LEE COLE SCHOOL
26 MIDDLETON ROAD, BOXFORD, MA 01921



- RENDERING FOR ILLUSTRATIVE PURPOSES ONLY -

**-PERMITTING ONLY-
- NOT FOR CONSTRUCTION -**

FEBRUARY 3, 2021

LANDSCAPE ARCHITECTURAL, CIVIL,
ENVIRONMENTAL, ELECTRICAL AND
UTILITY DESIGN:

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SHEET INDEX

C001.....	LEGEND, GENERAL NOTES & SYMBOLS
C100.....	EXISTING CONDITIONS PLAN
C110.....	SITE PREPARATION & EROSION & SEDIMENT CONTROL PLAN
C120.....	OVERALL MATERIALS & LAYOUT PLAN
C121.....	MATERIALS & LAYOUT ENLARGEMENT PLAN
C122.....	MATERIALS & LAYOUT ENLARGEMENT PLAN
C130.....	OVERALL GRADING & DRAINAGE PLAN
C131.....	GRADING & DRAINAGE ENLARGEMENT PLAN
C132.....	GRADING & DRAINAGE ENLARGEMENT PLAN
L100.....	OVERALL PLANTING PLAN
L101.....	PLANTING ENLARGEMENT PLAN
L102.....	PLANTING ENLARGEMENT PLAN
C500-506.....	SITE CONSTRUCTION DETAILS

GENERAL NOTES

- TOPOGRAPHIC AND EXISTING CONDITIONS INFORMATION COMPILED BY WESTON & SAMPSON, OCTOBER 2020.
- REFER TO EXISTING CONDITIONS LEGEND. ANY QUANTITIES SHOWN ON THE PLANS ARE FOR BIDDING PURPOSES ONLY. ALL BIDDERS ARE REQUIRED TO INSPECT THE PROJECT SITE IN ITS ENTIRETY PRIOR TO SUBMITTING THEIR BID, AND BECOME FAMILIAR WITH ALL CONDITIONS AS THEY MAY AFFECT THEIR BID. CONTRACTOR AND SUB-CONTRACTOR SHALL BE FAMILIAR WITH ALL DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING THE CONSTRUCTION.
- LOCATIONS OF ANY UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF SUCH UTILITIES, PROTECTING ALL EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE COORDINATION WITH UTILITY COMPANIES AND PUBLIC AGENCIES AND FOR OBTAINING ALL REQUIRED PERMITS AND PAYING ALL REQUIRED FEES. IN ACCORDANCE WITH M.G.L. CHAPTER 82, SECTION 40, INCLUDING AMENDMENTS, CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING PRIOR TO EXCAVATION. CONTRACTOR SHALL ALSO CALL "DIG SAFE" AT (888) 344-7233 NO LESS THAN 72 HOURS, (EXCLUSIVE OF WEEKENDS AND HOLIDAYS), PRIOR TO SUCH EXCAVATION. DOCUMENTATION OF REQUESTS SHALL BE PROVIDED TO PROJECT REPRESENTATIVE PRIOR TO EXCAVATION WORK.
- ANY DISCREPANCIES OR CONFLICTS BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, EXISTING CONDITIONS TO REMAIN, TEMPORARY CONSTRUCTION, PERMANENT CONSTRUCTION AND WORK OF ADJACENT CONTRACTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING. ITEMS ENCOUNTERED IN AREAS OF EXCAVATION THAT ARE NOT INDICATED ON THE DRAWINGS, BUT ARE VISIBLE ON SURFACE, SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER.
- ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS-BUILT" DRAWINGS.
- ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS OUTSIDE THE PROJECT LIMITS, SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NEEDED TO PROTECT HIS EMPLOYEES, AS WELL AS PUBLIC USERS FROM INJURY DURING THE ENTIRE CONSTRUCTION PERIOD AT NO EXPENSE TO THE OWNER USING ALL NECESSARY SAFEGUARDS, INCLUDING BUT NOT LIMITED TO, THE ERECTION OF TEMPORARY WALKS, STRUCTURES, PROTECTIVE BARRIERS, COVERING, OR FENCES AS NEEDED.
- THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.
- FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE OWNER'S REPRESENTATIVE.
- ALL EXISTING DRAINAGE FACILITIES TO REMAIN SHALL BE MAINTAINED FREE OF DEBRIS, SOIL, SEDIMENT, AND FOREIGN MATERIAL AND OPERATIONAL THROUGHOUT THE LIFE OF THE CONTRACT. REMOVE ALL SOIL, SEDIMENT, DEBRIS AND FOREIGN MATERIAL FROM ALL DRAINAGE STRUCTURES.
- CONTRACTOR'S STAGING AREA MUST BE WITHIN THE CONTRACT LIMIT LINE AND/OR IN AREAS APPROVED BY OWNER. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED WITH THE OWNER.
- THE CONTRACTOR SHALL KEEP ALL STREETS AND WALKS THAT ARE NOT RESTRICTED FROM PUBLIC USE DURING CONSTRUCTION BROOM CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE ACCEPTABLE METHODS AND MATERIALS TO MAINTAIN ADEQUATE DUST CONTROL THROUGHOUT CONSTRUCTION.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH TOWN OF BOXFORD ORDINANCES.

EROSION AND SEDIMENT CONTROL NOTES

- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PUT INTO PLACE PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION, INCLUDING BUT NOT LIMITED TO, DRAINAGE INLETS, MANHOLES AND CATCH BASINS WITHIN THE LIMIT OF WORK AND DRAINAGE STRUCTURES OUTSIDE THE LIMIT OF WORK THAT ARE IMPACTED BY THE WORK FOR THE ENTIRE DURATION OF CONSTRUCTION. REFER TO SPECIFICATIONS AND DETAILS FOR TYPE OF EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF ALL CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL MEET ALL OF THE STATE OF MASSACHUSETTS D.E.P. REGULATIONS FOR SEDIMENT AND EROSION CONTROL AT NO ADDITIONAL COST TO THE OWNER.
- EXCAVATED MATERIAL STOCKPILED ON THE SITE SHALL BE SURROUNDED BY A RING OF UNBROKEN SEDIMENT AND EROSION CONTROL FENCE. THE LIMITS OF ALL GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMIT OF CONTRACT SHALL REMAIN TOTALLY UNDISTURBED UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.
- EROSION CONTROL BARRIERS TO BE INSTALLED AT THE TOE OF SLOPES. SEE SITE PLAN, NOTES, DETAILS AND SPECIFICATIONS.

DEMOLITION & SITE PREPARATION NOTES

- THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS. THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE COST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.
- THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS.
- UNLESS SPECIFICALLY NOTED TO BE REMOVED AND STOCKPILED (R&S) OR REUSED AND RELOCATED (R&R), ALL SITE FEATURES CALLED TO BE REMOVED AND DEMOLISHED (R&D) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC. TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO ADDITIONAL COST TO THE OWNER.
- ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
- DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN, OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
- IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER'S REPRESENTATIVE, TO REUSE EXISTING GRAVEL PAVEMENT BASE COURSE IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS FOR GRAVEL BORROW.

LAYOUT & MATERIALS NOTES

- COORDINATE ALL LAYOUT ACTIVITIES WITH THE SCOPE OF WORK CALLED FOR BY DEMOLITION, MATERIALS, GRADING AND UTILITIES OPERATIONS ENCOMPASSED BY THIS CONTRACT. SET, PROTECT AND REPLACE REFERENCE STAKES AS NECESSARY OR AS REQUIRED BY THE OWNER'S REPRESENTATIVE.
- THE LAYOUT OF SITE AMENITIES MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- ALL PROPOSED SITE FEATURES SHALL BE LAID OUT AND STAKED FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION. ANY REQUIRED ADJUSTMENTS TO THE LAYOUT SHALL BE UNDERTAKEN AS DIRECTED, AT NO ADDITIONAL COST TO THE OWNER.
- ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES AND SHALL BE TREATED WITH AN RS-1 TACK COAT AT POINT OF CONNECTION. ALL PATHWAY WIDTHS SHALL BE AS NOTED ON THE LAYOUT AND MATERIALS PLAN.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS OF ALL PROPOSED GATES.
- ALL LAYOUT LINES, OFFSETS, OR REFERENCES TO LOCATING OBJECTS ARE EITHER PARALLEL OR PERPENDICULAR UNLESS OTHERWISE DESIGNATED WITH ANGLE OFFSETS NOTED.
- REFER TO DETAIL DRAWINGS FOR CONSTRUCTION DETAILS.
- ONLY CLEAN FILL SHALL BE USED. CLEAN FILL SHALL BE CLEAR FROM TRASH, DEBRIS, ASPHALT, BRICK, CONCRETE, METAL, WOOD, RECYCLED CONSTRUCTION MATERIALS, OR OTHER DELETERIOUS MATERIALS.
- TO FACILITATE LAYOUT OF PROPOSED SITE FEATURES AND FACILITIES, LAYOUT INFORMATION FOR CERTAIN FUTURE WORK, WHICH IS NOT INCLUDED WITHIN THE SCOPE OF THIS CONTRACT HAS BEEN PROVIDED ON THE LAYOUT AND MATERIALS PLAN FOR INFORMATION ONLY.

GRADING & DRAINAGE NOTES

- ALL WORK RELATING TO INSTALLATION, RENOVATION OR MODIFICATION OF WATER, UTILITY STORMWATER DRAINAGE AND/OR SEPTIC UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE TOWN, AND STATE OF MASSACHUSETTS.
- THE CONTRACTOR SHALL VERIFY ALL GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
- ALL GRADING IS TO BE SMOOTH AND CONTINUOUS WHERE PROPOSED SURFACE MEETS EXISTING SURFACE. BLEND THE TWO PAVEMENTS AND ELIMINATE ROUGH SPOTS AND ABRUPT GRADE CHANGES AND MEET LINE AND GRADE OF EXISTING CONDITIONS WITH NEW IMPROVEMENTS.
- CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY PITCH TO DRAIN, WITH NO SURFACE WATER PONDING OR PUDDLING.
- ALL NEW WALKWAYS MUST CONFORM TO CURRENT AMERICANS WITH DISABILITIES ACT (ADA), AND MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) REGULATIONS. WALKWAYS SHALL MAINTAIN A CROSS PITCH OF NOT MORE THAN ONE AND A HALF (1.5%) PERCENT AND THE RUNNING SLOPE (PARALLEL TO THE DIRECTION OF TRAVEL) BETWEEN 1% MIN. AND 4.5% MAX. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
- ALL UTILITY GRATES, COVERS OR OTHER SURFACE ELEMENTS INTENDED TO BE EXPOSED AT GRADE SHALL BE FLUSH WITH THE ADJACENT FINISHED GRADE AND ADJUSTED TO PROVIDE A SMOOTH TRANSITION AT ALL EDGES.
- THE CONTRACTOR SHALL CONFIRM AND/OR SET SUBGRADE ELEVATIONS TO ALLOW FOR POSITIVE DRAINAGE AND PROVIDE EROSION CONTROL DEVICES, STRUCTURES, MATERIALS AND CONSTRUCTION METHODS TO DIRECT SILT MIGRATION AWAY FROM DRAINAGE AND OTHER UTILITY SYSTEMS, PUBLIC/PRIVATE STREETS AND WORK AREAS. CLEAN BASINS REGULARLY AND AT THE END OF THE PROJECT.
- EXCAVATION REQUIRED WITHIN PROXIMITY OF KNOWN EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.
- WHERE NEW EARTHWORK MEETS EXISTING EARTHWORK, CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDS AT ALL TOP AND BOTTOM OF SLOPES.
- WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED, BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
- RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND SEED (L&S) UNLESS OTHERWISE NOTED.
- SEE EARTHWORK SECTION OF SPECIFICATIONS FOR EXCAVATION AND FILLING PROCEDURES.

PLANTING NOTES

- THE DEPTH OF THE TOPSOIL LOAM FOR ALL PROPOSED LAWN AREAS SHALL BE 6" MINIMUM. ALL DISTURBED AREAS SHALL BE RESTORED WITH LOAM AND SEED UNLESS OTHERWISE NOTED.
- ALL REFERENCES TO LOAM AND SEED REFER TO HYDROMULCH SEEDED LAWN.
- ANY DISCREPANCIES BETWEEN THE PLANS AND THE PLANTING SCHEDULE, CONTRACTOR SHALL OWN THE LARGER QUANTITY AND SIZE AT NO ADDITIONAL COST TO THE OWNER.

ABBREVIATIONS

GENERAL		UTILITIES	
PROP	PROPOSED	GICI	GUTTER INLET W/ CURB INLET
ADJ	ADJUST	CBCI	CATCH BASIN W/ CURB INLET
BIT. CONC.	BITUMINOUS CONCRETE	CB	CATCH BASIN
CEM. CONC.	CEMENT CONCRETE	C.I.T.	CHANGE IN TYPE
B	BASELINE	F&G	FRAME AND GRATE
N.T.S.	NOT TO SCALE	F&C	FRAME AND COVER
B.M.	BENCH MARK	CJ	CURB INLET
ABAN	ABANDON	CIP	CAST IRON PIPE
GRAN. CURB	GRANITE CURB	CMP	CORRUGATED METAL PIPE
EXIST. (OR EX.)	EXISTING	DI	DUCTILE IRON PIPE
FDN	FOUNDATION	GI	GUTTER INLET
F.L. (OR F)	FLOW LINE	HYD	HYDRANT
P	PROPERTY LINE	INV.	INVERT ELEVATION
P/MT	PAVEMENT	UP	UTILITY POLE
RC	REINFORCED CONCRETE	SMH	SEWER MANHOLE
REM	REMOVE	WG	WATER GATE
RET	RETAIN	DS	DOWN SPOUT
R.O.W.	RIGHT-OF-WAY	HDPE	HIGH DENSITY POLYETHYLENE PIPE
R&R	REMOVE AND RELOCATE	PVC	POLYVINYL CHLORIDE
R&R	REMOVE, RELOCATED AND RESET	RCP	REINFORCED CONCRETE PIPE
R&S	REMOVE AND SALVAGE	DMH	DRAIN MANHOLE
R&S	REMOVE AND DISPOSE	LB	LEACHING BASIN
R&D	REMOVE AND DISPOSE	CI	CAST IRON
P&P	PRESERVE AND PROTECT	OCS	OUTLET CONTROL STRUCTURE
SB	STONE BOUND	OGT	OIL AND GRIT TRAP
NIC	NOT IN CONTRACT	VC	VITRIFIED CLAY PIPE
H.C.	HANDICAP	LP	LIGHT POLE
WCR	WHEELCHAIR RAMP	SWTU	STORM WATER TREATMENT UNIT
HMA	HOT MIX ASPHALT	HH	HANDHOLE
G.C.	GENERAL CONTRACTOR		
E.C.	ELECTRICAL CONTRACTOR		
P.C.	PLUMBING CONTRACTOR		

Project:
BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT



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Consultants:

Revisions:

No.	Date	Description

Seal:



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 02/03/2021

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Scale: AS SHOWN

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Drawn By: EJA

Reviewed By: CB

Approved By: JIP

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Drawing Title:

**LEGEND,
 GENERAL NOTES
 & SYMBOLS**

Sheet Number:

C001

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Rev: 1.0 Date: 02/03/2021

SURVEY NOTES

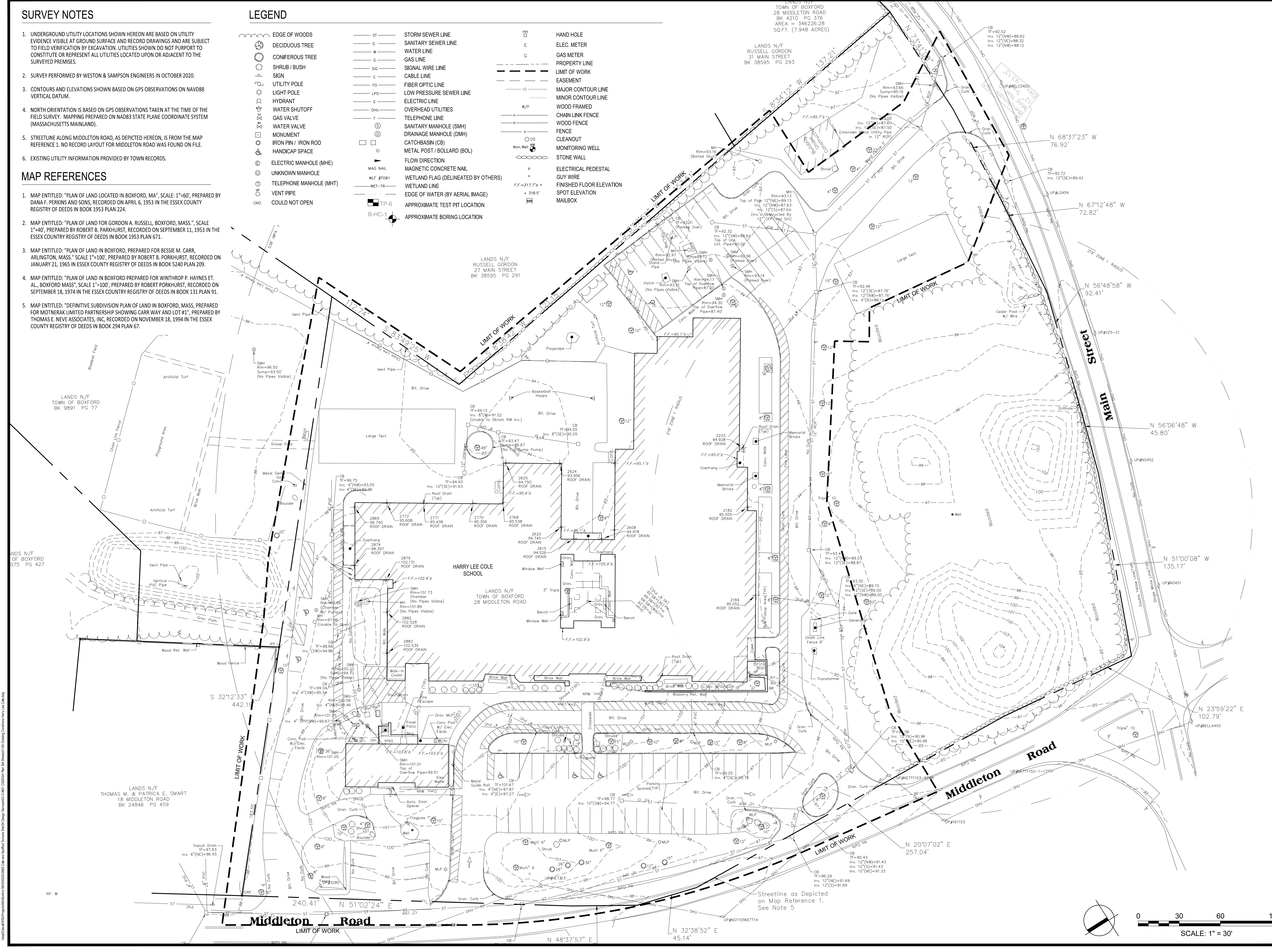
- UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND RECORD DRAWINGS AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES.
- SURVEY PERFORMED BY WESTON & SAMPSON ENGINEERS IN OCTOBER 2020.
- CONTOURS AND ELEVATIONS SHOWN BASED ON GPS OBSERVATIONS ON NAVD88 VERTICAL DATUM.
- NORTH ORIENTATION IS BASED ON GPS OBSERVATIONS TAKEN AT THE TIME OF THE FIELD SURVEY. MAPPING PREPARED ON NAD83 STATE PLANE COORDINATE SYSTEM (MASSACHUSETTS MAINLAND).
- STREETLINE ALONG MIDDLETON ROAD, AS DEPICTED HEREON, IS FROM THE MAP REFERENCE 1. NO RECORD LAYOUT FOR MIDDLETON ROAD WAS FOUND ON FILE.
- EXISTING UTILITY INFORMATION PROVIDED BY TOWN RECORDS.

MAP REFERENCES

- MAP ENTITLED: "PLAN OF LAND LOCATED IN BOXFORD, MA", SCALE: 1"=60', PREPARED BY DANA F. PERKINS AND SONS, RECORDED ON APRIL 6, 1953 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 1953 PLAN 224.
- MAP ENTITLED: "PLAN OF LAND FOR GORDON A. RUSSELL, BOXFORD, MASS.", SCALE 1"=40', PREPARED BY ROBERT B. PARKHURST, RECORDED ON SEPTEMBER 11, 1953 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 1953 PLAN 671.
- MAP ENTITLED: "PLAN OF LAND IN BOXFORD, PREPARED FOR BESSIE M. CARR, ARLINGTON, MASS.", SCALE 1"=100', PREPARED BY ROBERT B. PARKHURST, RECORDED ON JANUARY 21, 1965 IN ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 5240 PLAN 209.
- MAP ENTITLED: "PLAN OF LAND IN BOXFORD PREPARED FOR WINTHROP P. HAYNES ET. AL., BOXFORD MASS", SCALE 1"=100', PREPARED BY ROBERT PARKHURST, RECORDED ON SEPTEMBER 18, 1974 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 131 PLAN 91.
- MAP ENTITLED: "DEFINITIVE SUBDIVISION PLAN OF LAND IN BOXFORD, MASS, PREPARED FOR MOTNERAK LIMITED PARTNERSHIP SHOWING CARR WAY AND LOT #1", PREPARED BY THOMAS E. NEVE ASSOCIATES, INC. RECORDED ON NOVEMBER 18, 1994 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 294 PLAN 67.

LEGEND

ST	STORM SEWER LINE	HH	HAND HOLE
S	SANITARY SEWER LINE	E	ELEC. METER
W	WATER LINE	G	GAS METER
G	GAS LINE	SIG	SIGNAL WIRE LINE
FO	FIBER OPTIC LINE	C	CABLE LINE
LPS	LOW PRESSURE SEWER LINE	FO	FIBER OPTIC LINE
E	ELECTRIC LINE	LPS	LOW PRESSURE SEWER LINE
OHU	OVERHEAD UTILITIES	E	ELECTRIC LINE
T	TELEPHONE LINE	OHU	OVERHEAD UTILITIES
SMH	SANITARY MANHOLE (SMH)	T	TELEPHONE LINE
DMH	DRAINAGE MANHOLE (DMH)	SMH	SANITARY MANHOLE (SMH)
CB	CATCHBASIN (CB)	DMH	DRAINAGE MANHOLE (DMH)
BOL	METAL POST / BOLLARD (BOL)	CB	CATCHBASIN (CB)
FD	FLOW DIRECTION	BOL	METAL POST / BOLLARD (BOL)
MAG NAIL	MAGNETIC CONCRETE NAIL	FD	FLOW DIRECTION
WLF #10B1	WETLAND FLAG (DELINEATED BY OTHERS)	MAG NAIL	MAGNETIC CONCRETE NAIL
WET-TR	WETLAND LINE	WLF #10B1	WETLAND FLAG (DELINEATED BY OTHERS)
TP-6	APPROXIMATE TEST PIT LOCATION	WET-TR	WETLAND LINE
B-HC-1	APPROXIMATE BORING LOCATION	TP-6	APPROXIMATE TEST PIT LOCATION
		B-HC-1	APPROXIMATE BORING LOCATION



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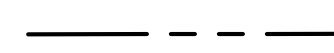

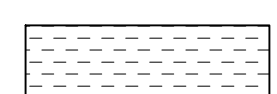
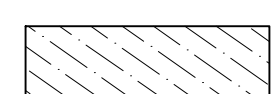
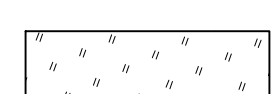
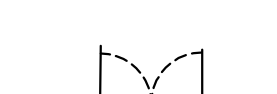
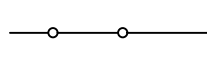
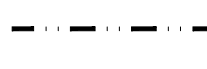







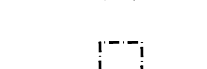



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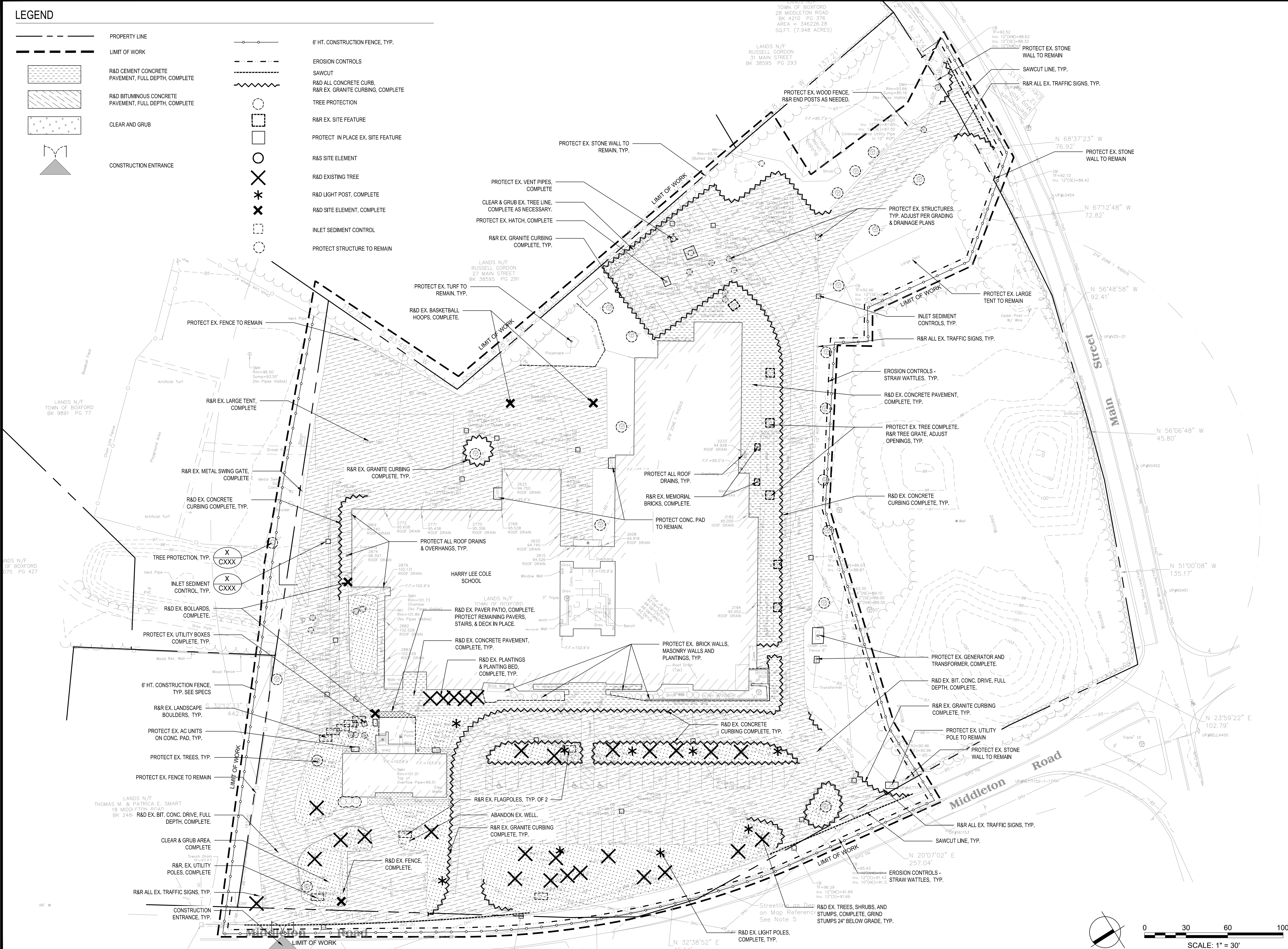
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EXISTING CONDITIONS PLAN

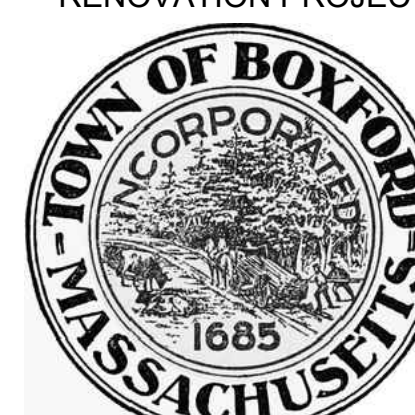
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C100

LEGEND

-  PROPERTY LINE
-  LIMIT OF WORK
-  R&D CEMENT CONCRETE PAVEMENT, FULL DEPTH, COMPLETE
-  R&D BITUMINOUS CONCRETE PAVEMENT, FULL DEPTH, COMPLETE
-  CLEAR AND GRUB
-  CONSTRUCTION ENTRANCE
-  6' HT. CONSTRUCTION FENCE, TYP.
-  EROSION CONTROLS
-  SAWCUT
-  R&D ALL CONCRETE CURB, R&R EX. GRANITE CURBING, COMPLETE
-  TREE PROTECTION
-  R&R EX. SITE FEATURE
-  PROTECT IN PLACE EX. SITE FEATURE
-  R&S SITE ELEMENT
-  R&D EXISTING TREE
-  R&D LIGHT POST, COMPLETE
-  R&D SITE ELEMENT, COMPLETE
-  INLET SEDIMENT CONTROL
-  PROTECT STRUCTURE TO REMAIN



Project: **BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT**



HARRY LEE COLE SCHOOL
26 MIDDLETON ROAD
BOXFORD, MA 01921

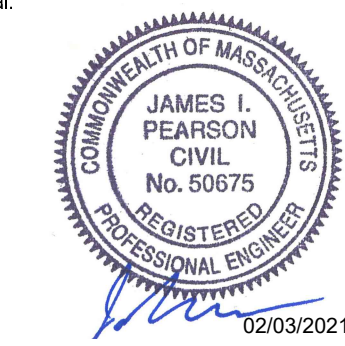
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JAMES L. PEARSON
CIVIL
No. 50675
PROFESSIONAL ENGINEER
02/03/2021

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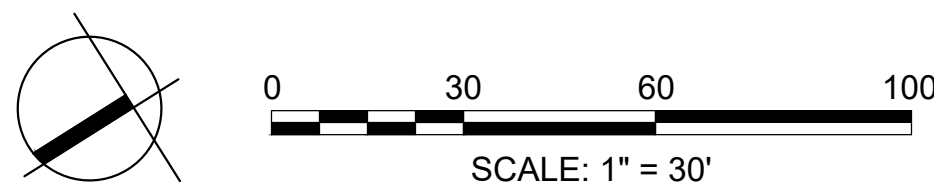
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Drawn By: EJA
Reviewed By: CB
Approved By: JIP

W&S Project No.: ENG20-0865
W&S File No.:

SITE PREPARATION & EROSION & SEDIMENT CONTROL PLAN

Sheet Number:
C110

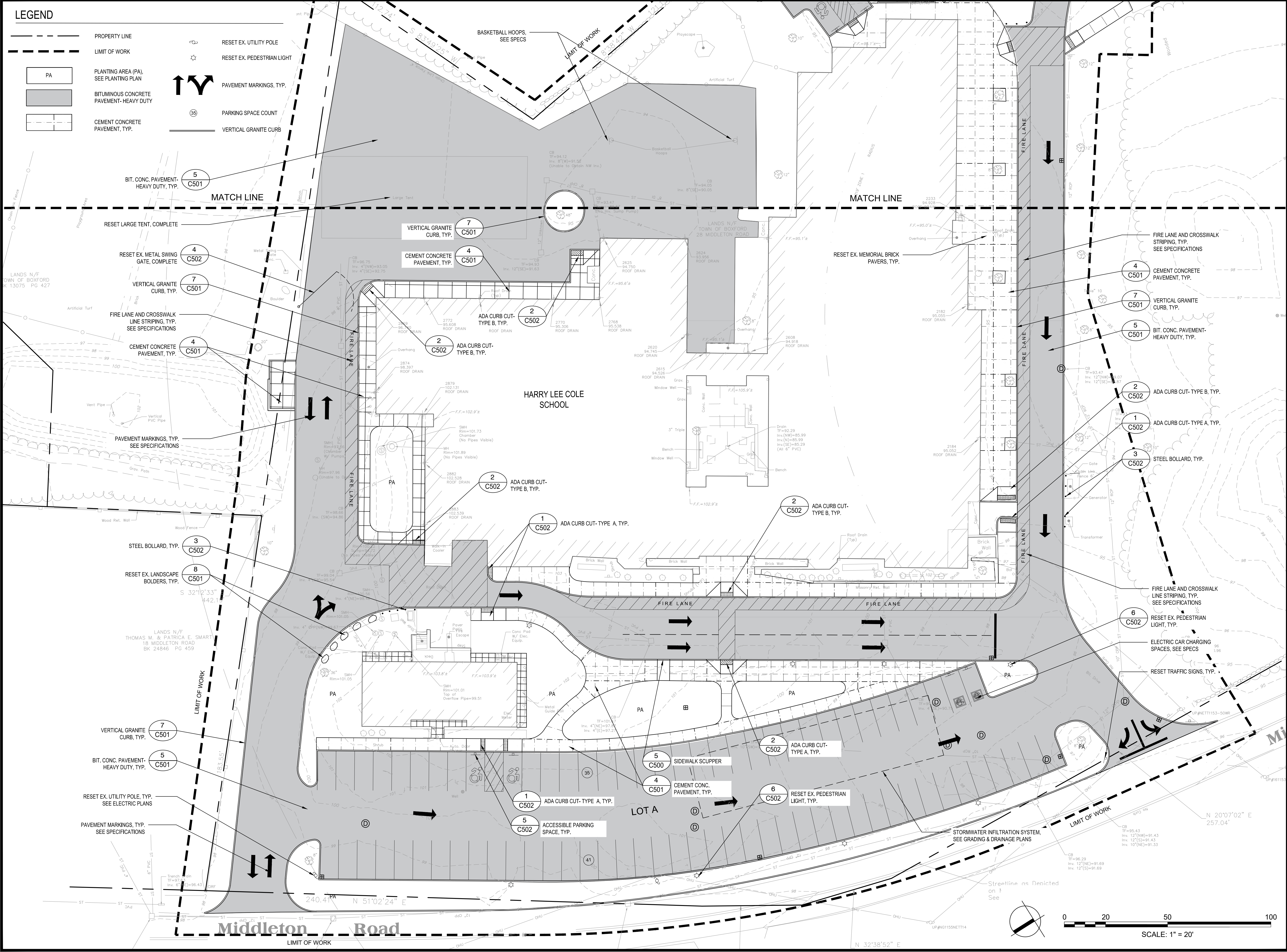


HARRY LEE COLE SCHOOL RENOVATION PROJECT - EROSION & SEDIMENT CONTROL PLAN - SHEET C110
 DATE: FEBRUARY 3, 2021
 DRAWN BY: EJA
 CHECKED BY: JIP
 APPROVED BY: JIP
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REVISION: 18 DATE: 10/24/2019

LEGEND

- PROPERTY LINE
- - - - - LIMIT OF WORK
- PA BITUMINOUS CONCRETE PAVEMENT-HEAVY DUTY
- CEMENT CONCRETE PAVEMENT, TYP.
- RESET EX. UTILITY POLE
- RESET EX. PEDESTRIAN LIGHT
- PAVEMENT MARKINGS, TYP.
- PARKING SPACE COUNT
- VERTICAL GRANITE CURB



Project: **BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT**



TOWN OF BOXFORD
INCORPORATED 1685
MASSACHUSETTS

HARRY LEE COLE SCHOOL
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BOXFORD, MA 01921


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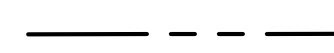

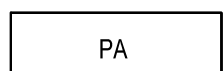

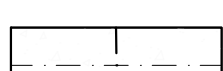
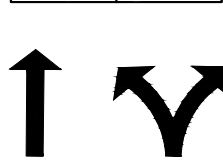

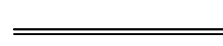
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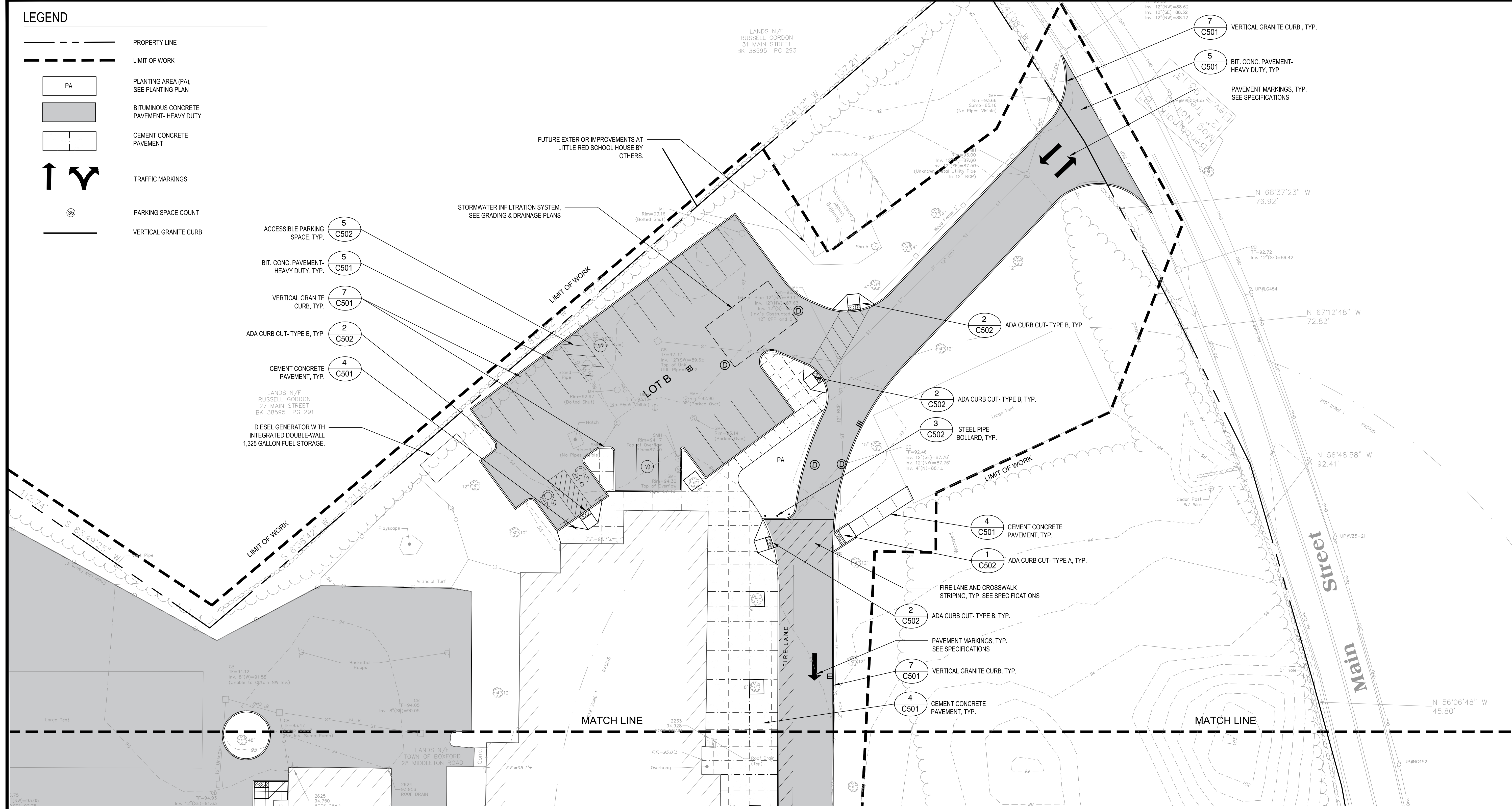
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Approved By: JIP
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W&S File No.:

MATERIALS & LAYOUT ENLARGEMENT PLAN

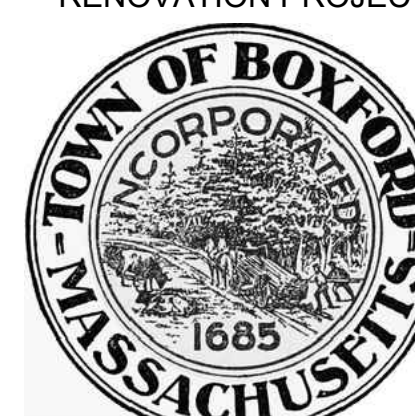
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LEGEND

-  PROPERTY LINE
-  LIMIT OF WORK
-  PLANTING AREA (PA), SEE PLANTING PLAN
-  BITUMINOUS CONCRETE PAVEMENT- HEAVY DUTY
-  CEMENT CONCRETE PAVEMENT
-  TRAFFIC MARKINGS
-  PARKING SPACE COUNT
-  VERTICAL GRANITE CURB



Project:
BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT



HARRY LEE COLE SCHOOL
 26 MIDDLETON ROAD
 BOXFORD, MA 01921

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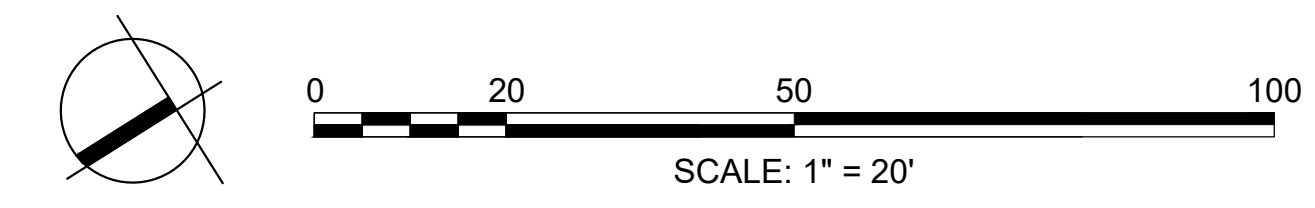
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 No. 50675
 REGISTERED ENGINEER
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 W&S File No.:

Drawing Title:
MATERIALS & LAYOUT ENLARGEMENT PLAN

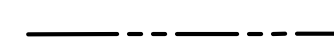

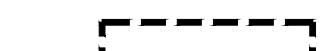
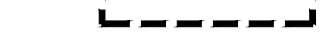

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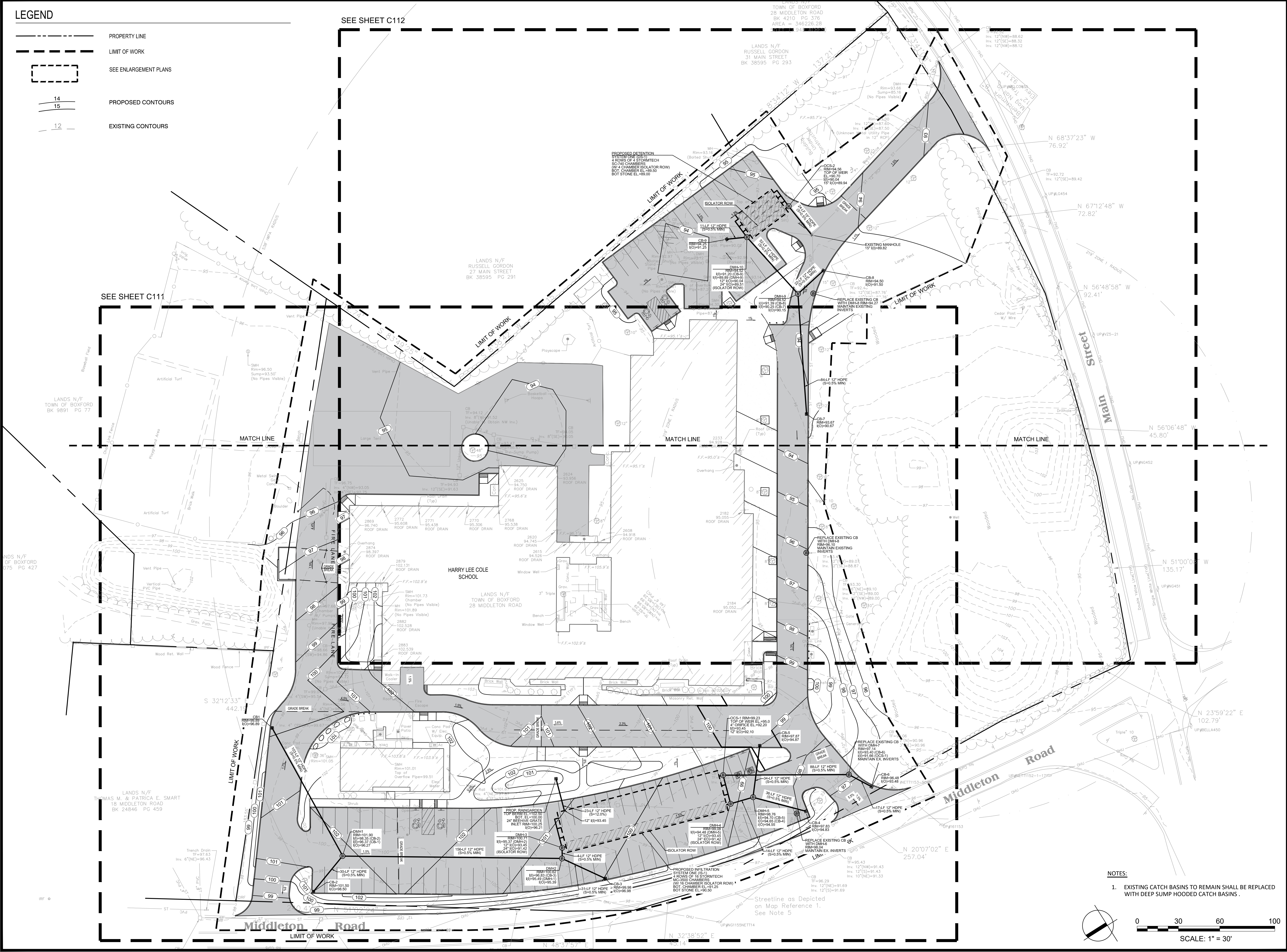
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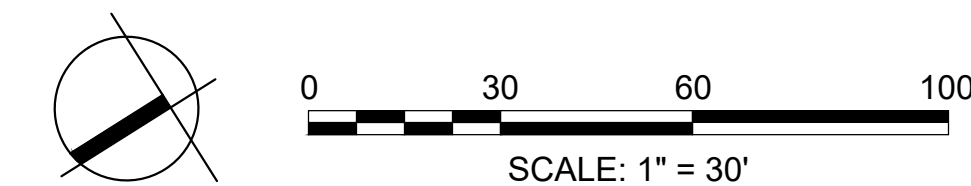
-  PROPERTY LINE
-  LIMIT OF WORK
-  SEE ENLARGEMENT PLANS
-  PROPOSED CONTOURS
-  EXISTING CONTOURS

SEE SHEET C112

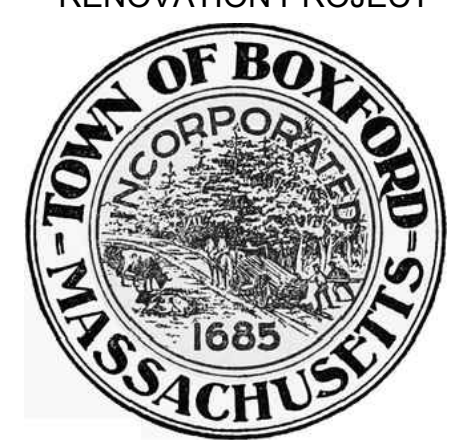
SEE SHEET C111



NOTES:
 1. EXISTING CATCH BASINS TO REMAIN SHALL BE REPLACED WITH DEEP SUMP HOODED CATCH BASINS.



Project:
BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT



HARRY LEE COLE SCHOOL
 26 MIDDLETON ROAD
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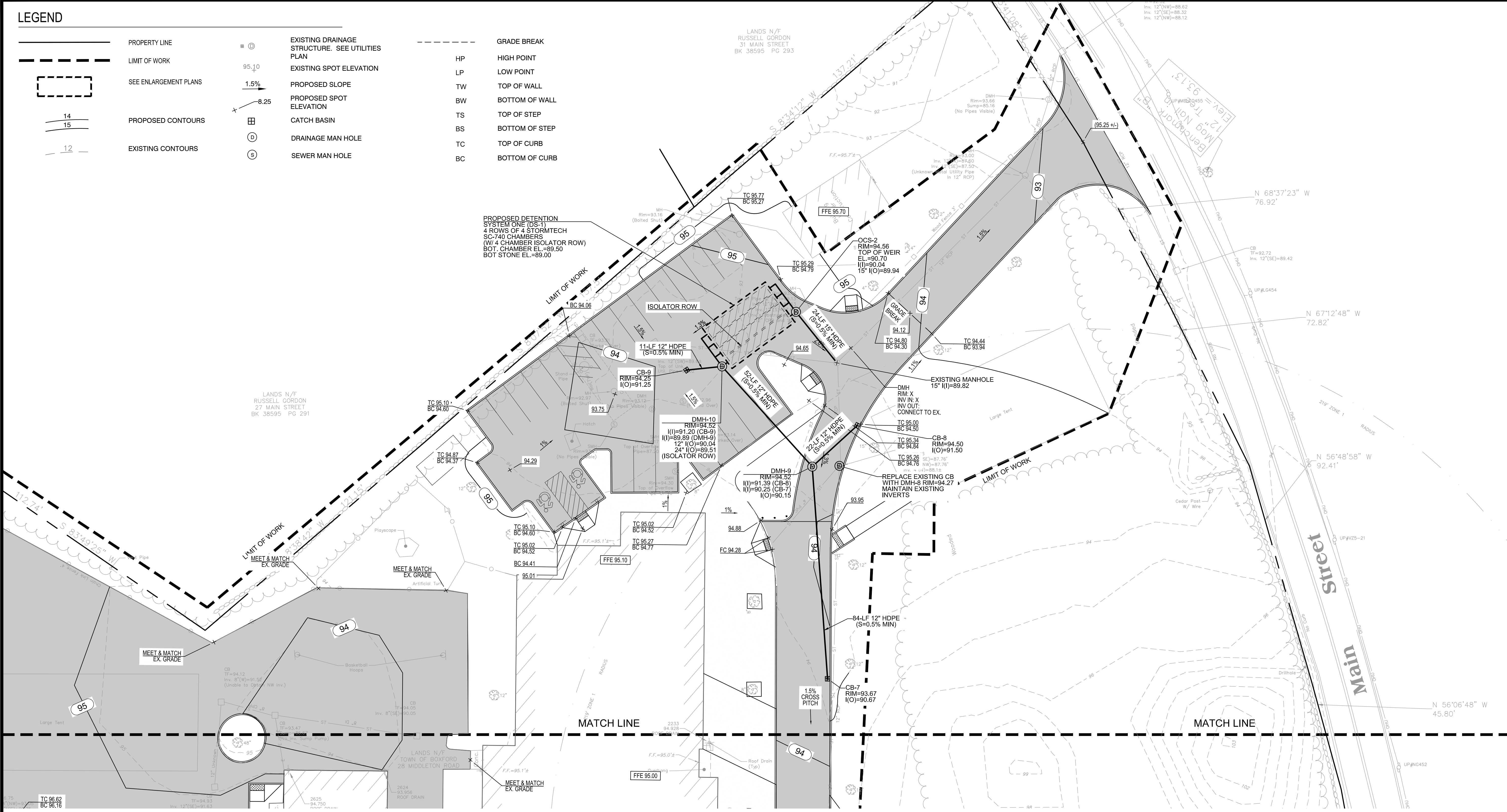
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 Drawn By: EJA
 Reviewed By: CB
 Approved By: JIP

W&S Project No.: ENG20-0865
 W&S File No.:
 Drawing Title:
OVERALL GRADING & DRAINAGE PLAN

Sheet Number:
C130

LEGEND

	PROPERTY LINE		EXISTING DRAINAGE STRUCTURE. SEE UTILITIES PLAN		GRADE BREAK
	LIMIT OF WORK		EXISTING SPOT ELEVATION		HIGH POINT
	SEE ENLARGEMENT PLANS		PROPOSED SLOPE		LOW POINT
	PROPOSED CONTOURS		PROPOSED SPOT ELEVATION		TOP OF WALL
	EXISTING CONTOURS		CATCH BASIN		BOTTOM OF WALL
			DRAINAGE MAN HOLE		TOP OF STEP
			SEWER MAN HOLE		BOTTOM OF STEP
					TOP OF CURB
					BOTTOM OF CURB



Project:
BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT

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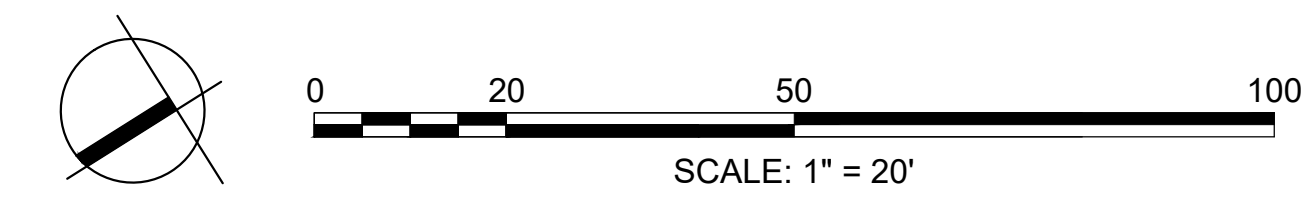
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 Reviewed By: JIP
 Approved By: JRF

W&S Project No.: ENG20-0865
 W&S File No.:

Drawing Title:
GRADING & DRAINAGE ENLARGEMENT PLAN

Sheet Number:
C132



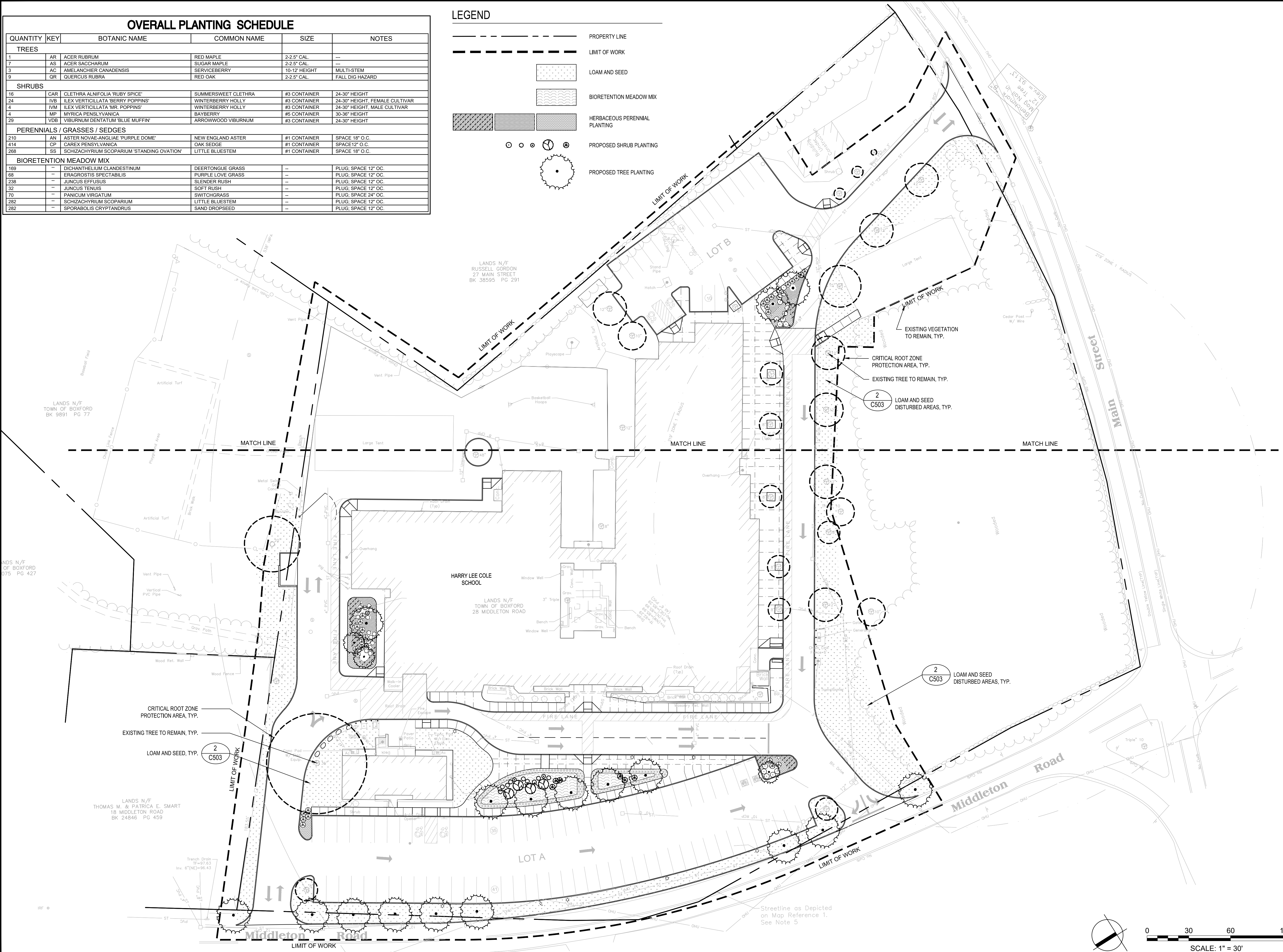
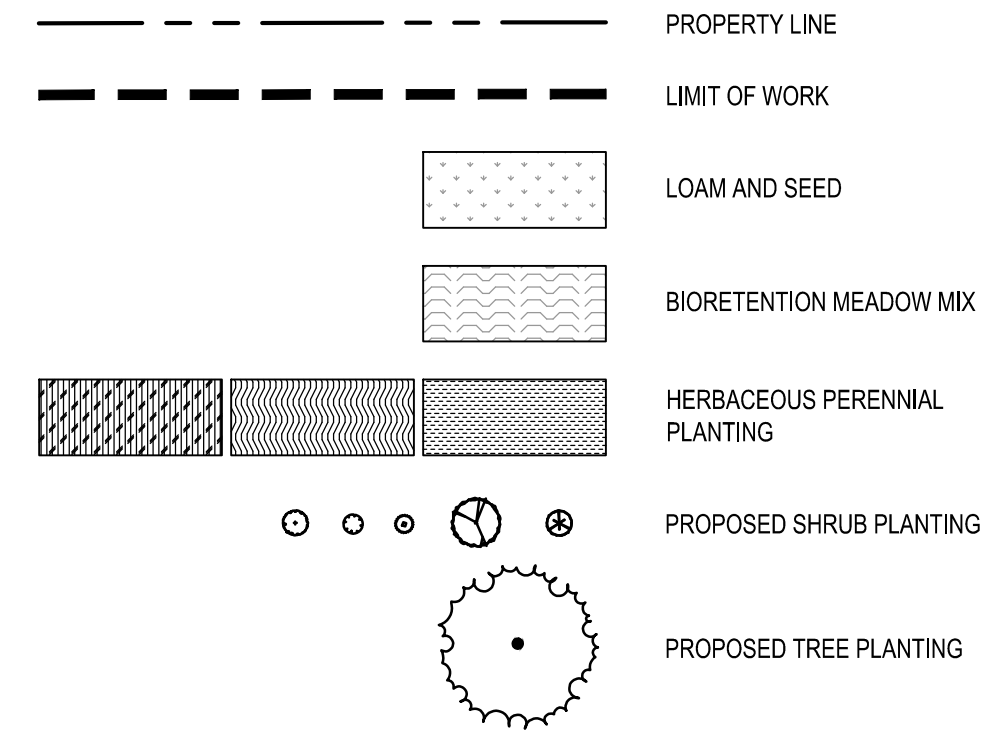
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Rep: 1.8 Date: 10/24/2019

OVERALL PLANTING SCHEDULE

QUANTITY	KEY	BOTANIC NAME	COMMON NAME	SIZE	NOTES
TREES					
1	AR	ACER RUBRUM	RED MAPLE	2-2.5" CAL.	---
7	AS	ACER SACCHARUM	SUGAR MAPLE	2-2.5" CAL.	---
3	AC	AMELANCHIER CANADENSIS	SERVICEBERRY	10-12' HEIGHT	MULTI-STEM
9	QR	QUERCUS RUBRA	RED OAK	2-2.5" CAL.	FALL DIG HAZARD
SHRUBS					
16	CAR	CLETHRA ALNIFOLIA 'RUBY SPICE'	SUMMERSWEET CLETHRA	#3 CONTAINER	24-30" HEIGHT
24	IVB	ILEX VERTICILLATA 'BERRY POPPINS'	WINTERBERRY HOLLY	#3 CONTAINER	24-30" HEIGHT, FEMALE CULTIVAR
4	IVM	ILEX VERTICILLATA 'MR. POPPINS'	WINTERBERRY HOLLY	#3 CONTAINER	24-30" HEIGHT, MALE CULTIVAR
4	MP	MYRICA PENNSYLVANICA	BAYBERRY	#5 CONTAINER	30-36" HEIGHT
29	VDB	VIBURNUM DENTATUM 'BLUE MUFFIN'	ARROWWOOD VIBURNUM	#3 CONTAINER	24-30" HEIGHT
PERENNIALS / GRASSES / SEDGES					
210	AN	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	#1 CONTAINER	SPACE 18" O.C.
414	CP	CAREX PENNSYLVANICA	OAK SEDGE	#1 CONTAINER	SPACE 12" O.C.
268	SS	SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION'	LITTLE BLUESTEM	#1 CONTAINER	SPACE 18" O.C.
BIORETENTION MEADOW MIX					
169	--	DICHANTHELIUM CLANDESTINUM	DEERTONGUE GRASS	--	PLUG, SPACE 12" O.C.
68	--	ERAGROSTIS SPECTABILIS	PURPLE LOVE GRASS	--	PLUG, SPACE 12" O.C.
238	--	JUNCUS EFFUSUS	SLENDER RUSH	--	PLUG, SPACE 12" O.C.
32	--	JUNCUS TENUIS	SOFT RUSH	--	PLUG, SPACE 12" O.C.
70	--	PANICUM VIRGATUM	SWITCHGRASS	--	PLUG, SPACE 24" O.C.
282	--	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	--	PLUG, SPACE 12" O.C.
282	--	SPOROBOLUS CRYPTANDRUS	SAND DROPSEED	--	PLUG, SPACE 12" O.C.

LEGEND



Project: BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT

HARRY LEE COLE SCHOOL
26 MIDDLETON ROAD
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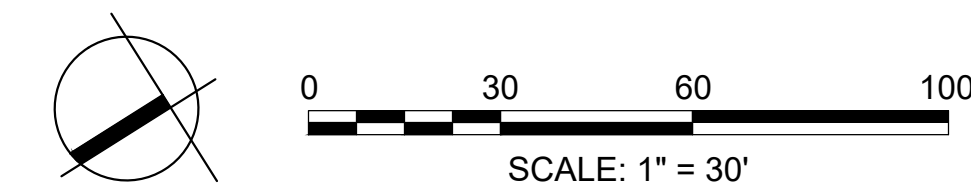
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Drawn By: EJA
Reviewed By: CB
Approved By: JIP
W&S Project No.: ENG20-0865
W&S File No.:

Drawing Title:

OVERALL PLANTING PLAN

Sheet Number:





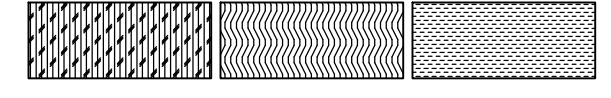


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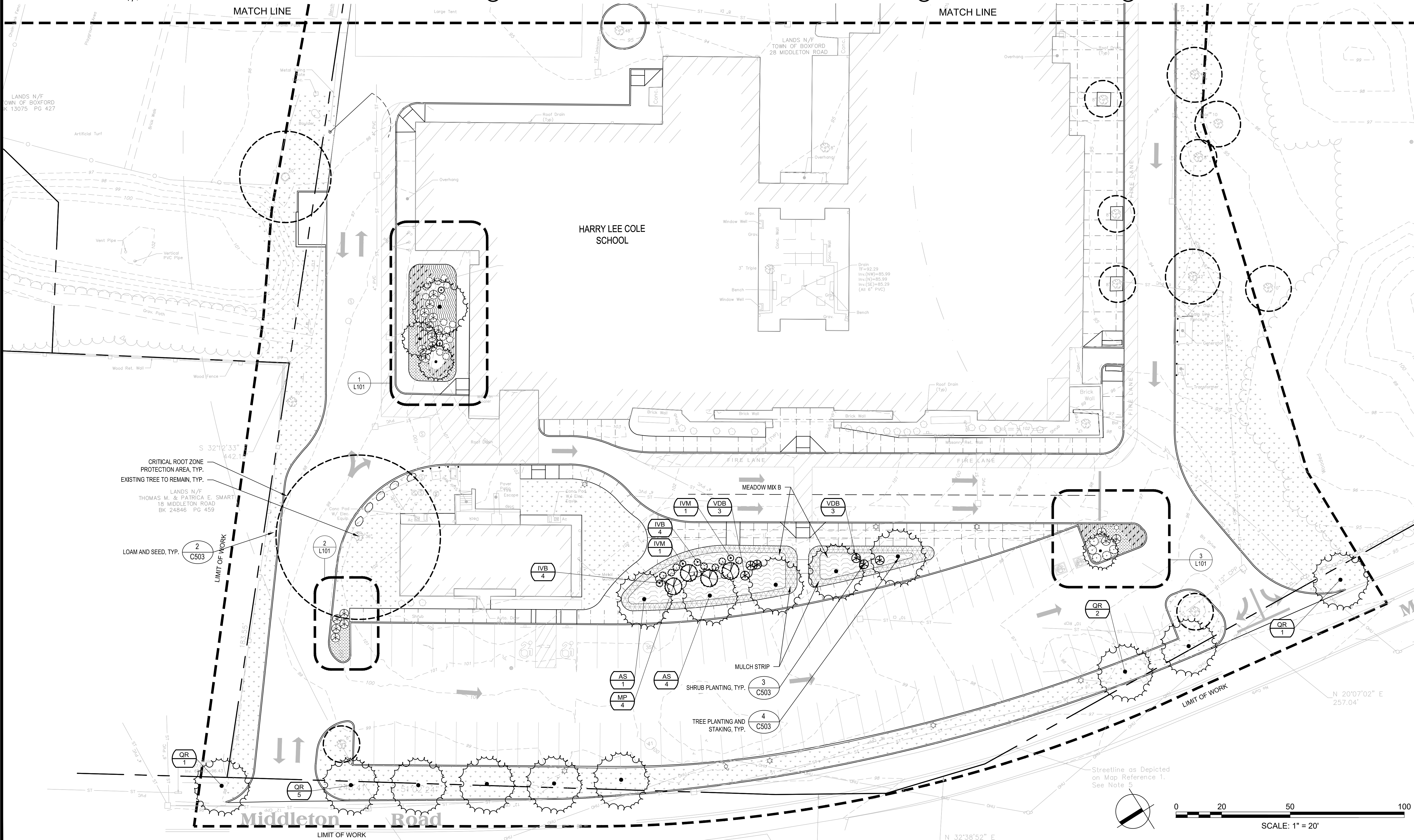
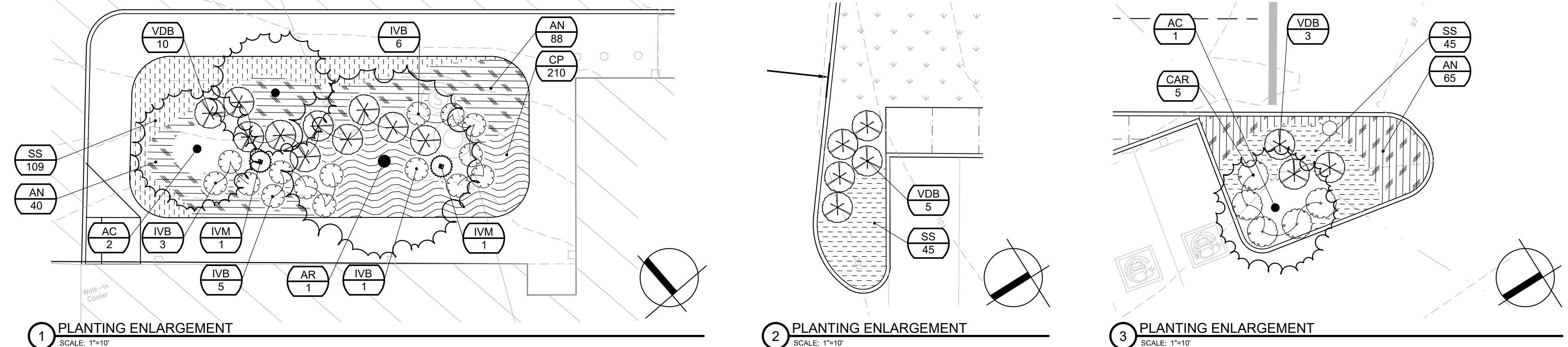


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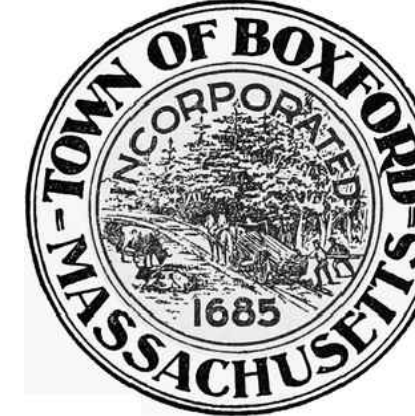
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LEGEND

-  PROPERTY LINE
-  LIMIT OF WORK
-  LOAM AND SEED
-  BIORETENTION MEADOW MIX
-  HERBACEOUS PERENNIAL PLANTING
-  PROPOSED SHRUB PLANTING
-  PROPOSED TREE PLANTING



Project:
BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT



TOWN OF BOXFORD
 INCORPORATED 1685
 MASSACHUSETTS

HARRY LEE COLE SCHOOL
 26 MIDDLETON ROAD
 BOXFORD, MA 01921

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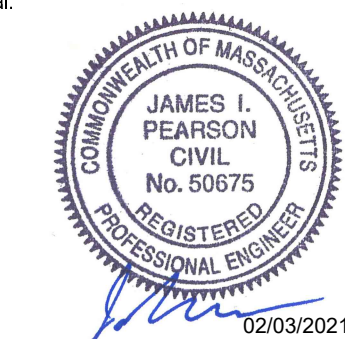
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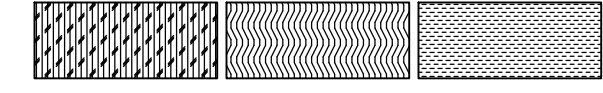
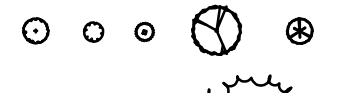
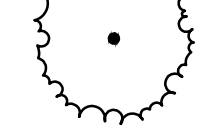
PLANTING ENLARGEMENT PLAN

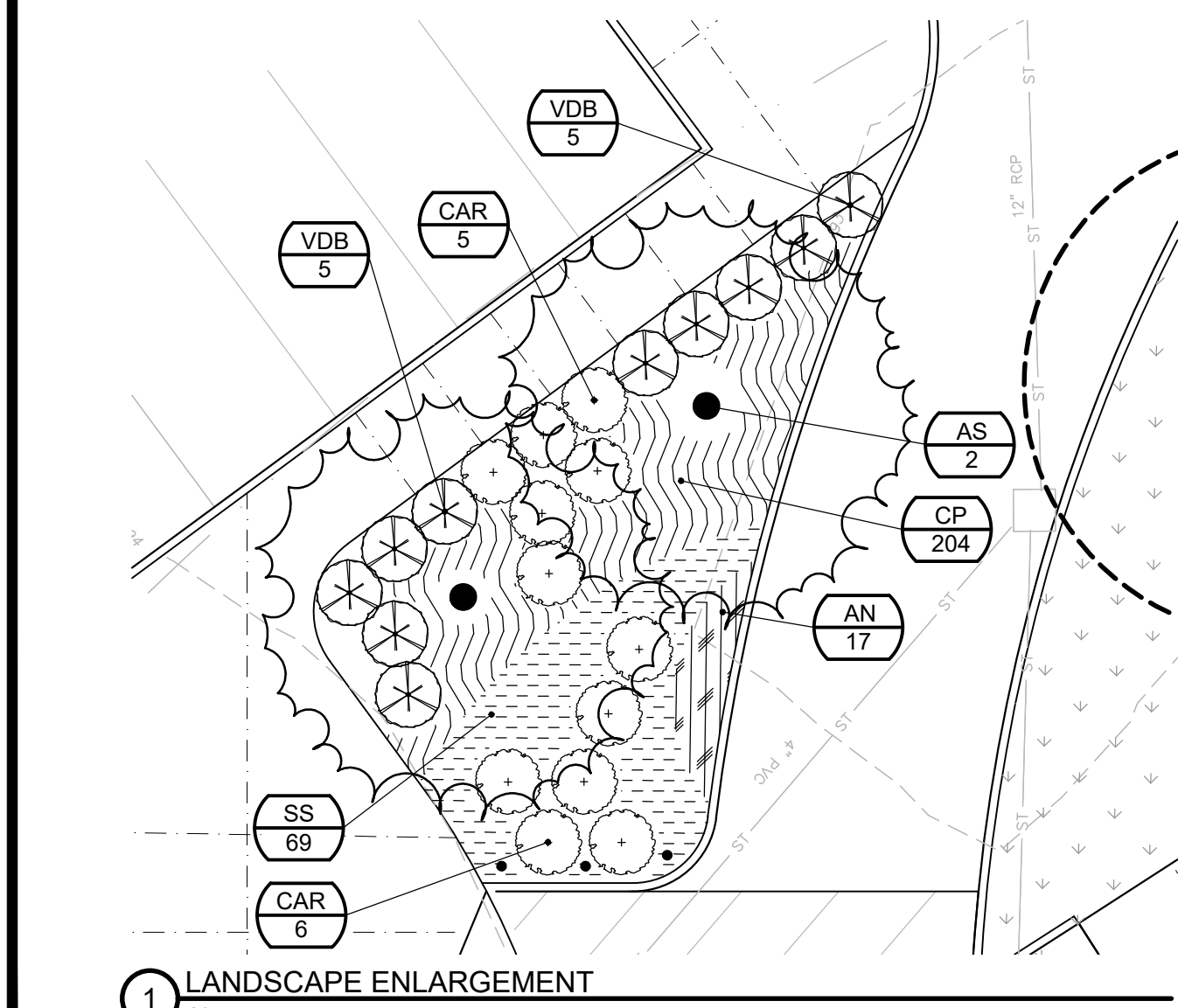
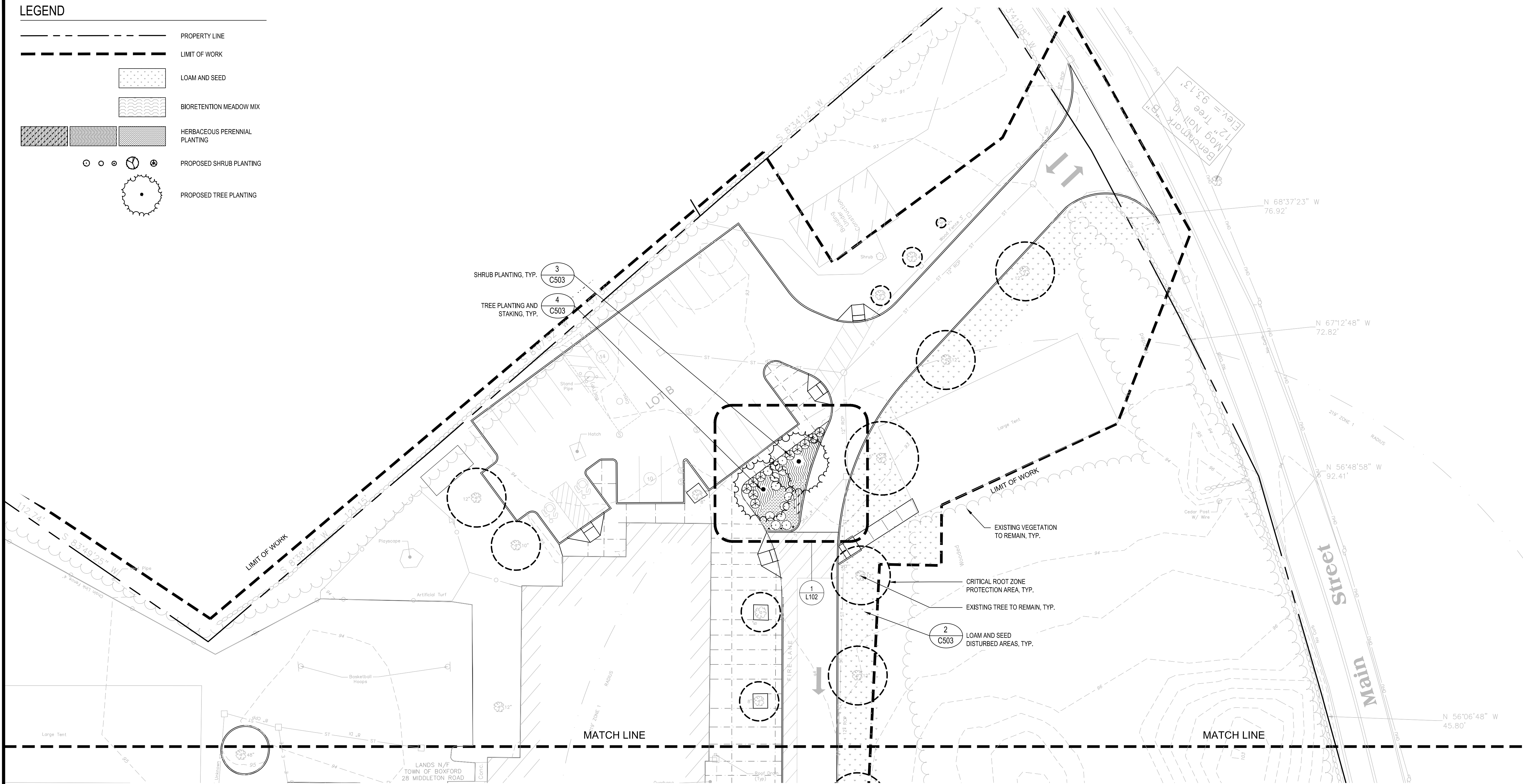
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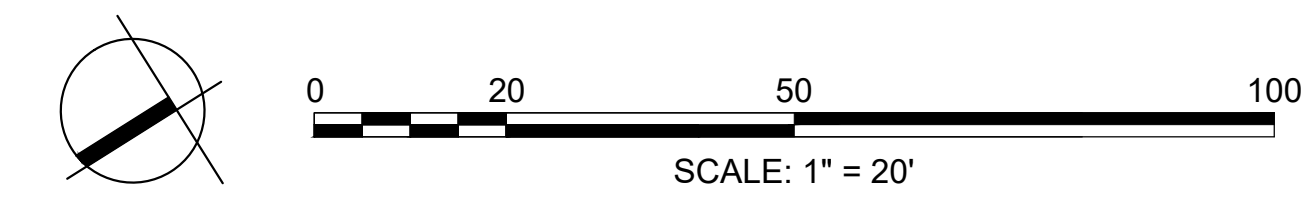
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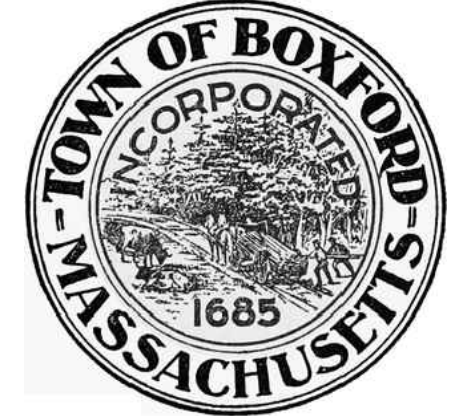
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-  LIMIT OF WORK
-  LOAM AND SEED
-  BIORETENTION MEADOW MIX
-  HERBACEOUS PERENNIAL PLANTING
-  PROPOSED SHRUB PLANTING
-  PROPOSED TREE PLANTING



1 LANDSCAPE ENLARGEMENT
SCALE: 1"=10'



Project:
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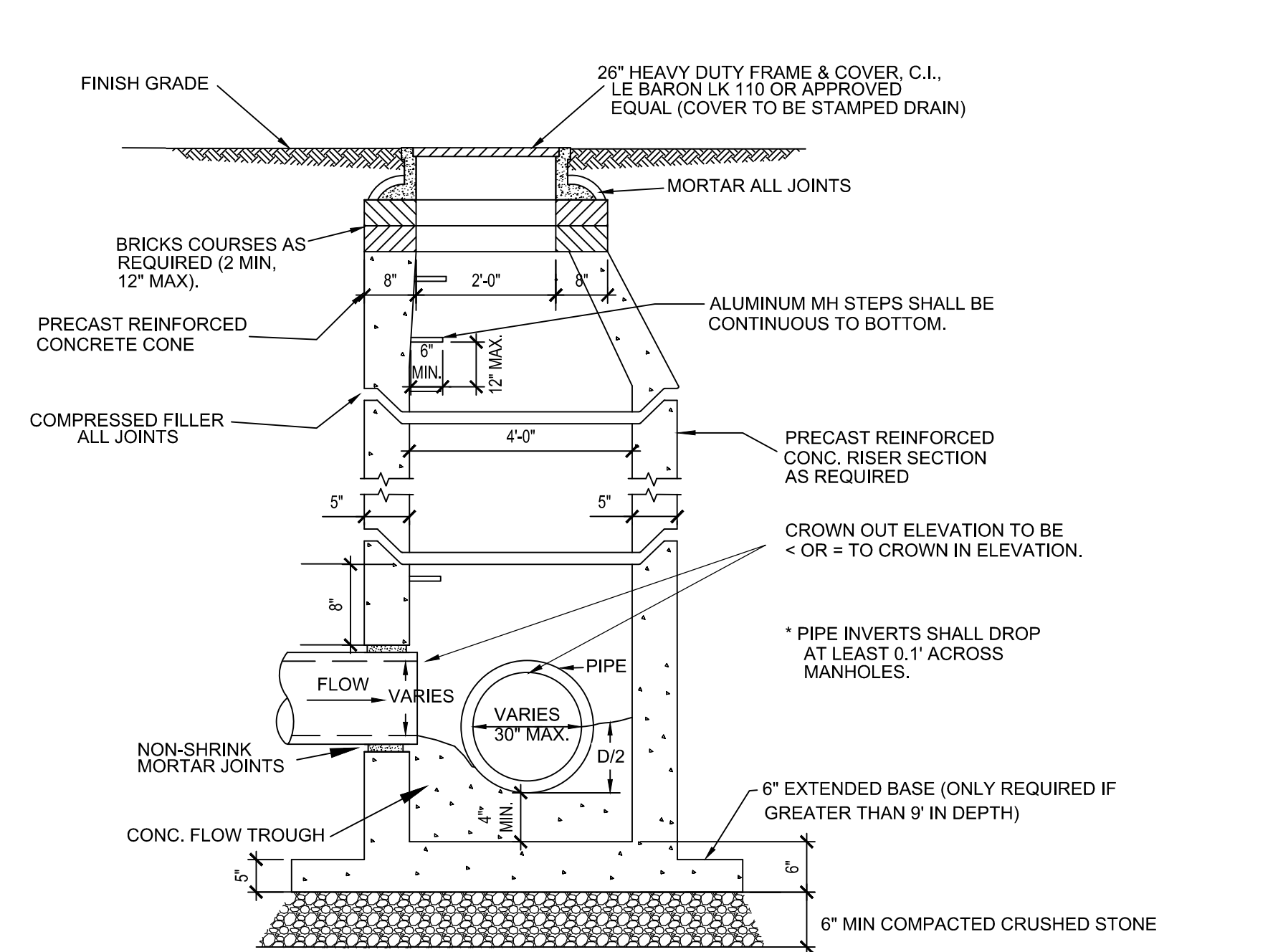
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PLANTING ENLARGEMENT PLAN

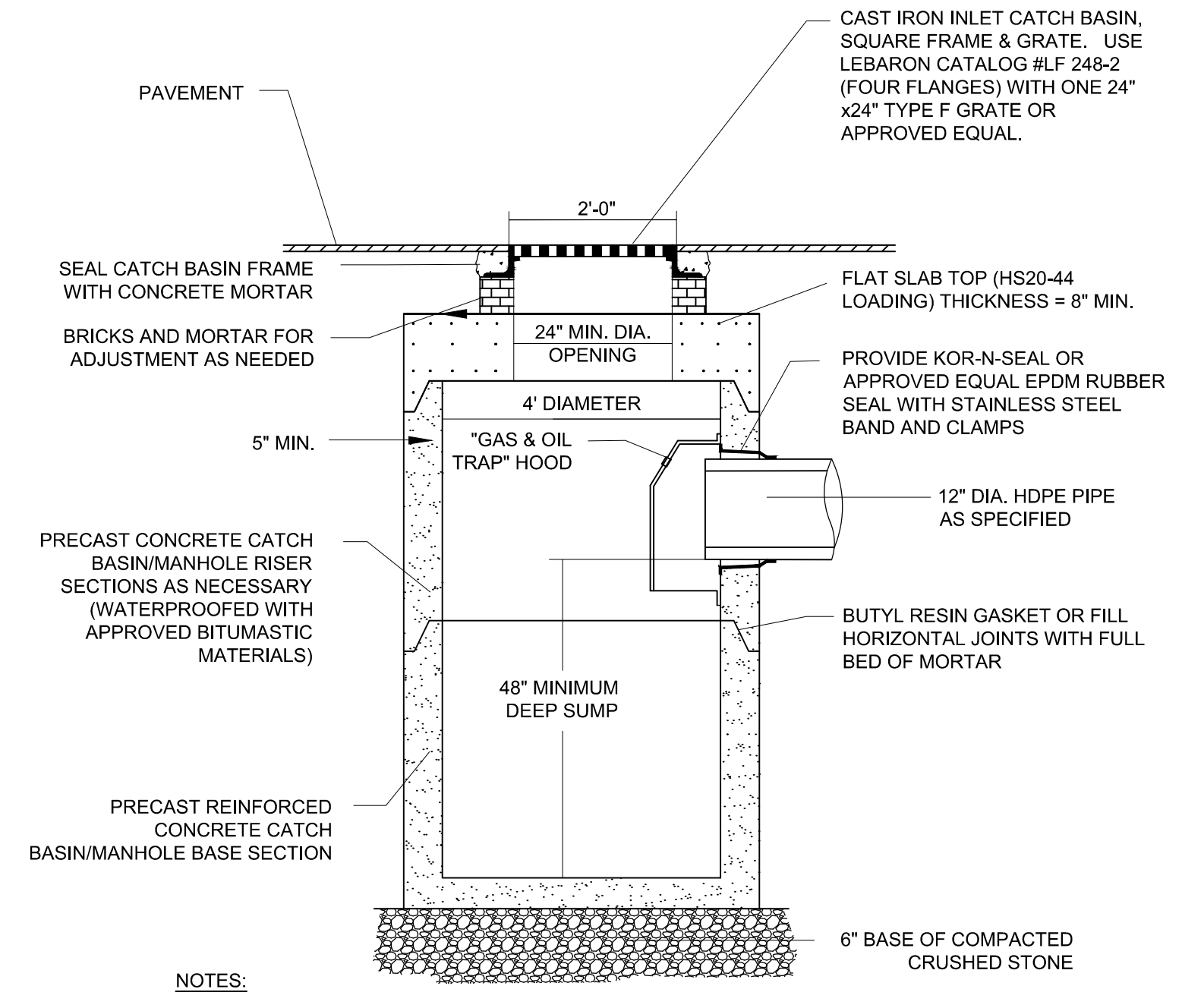
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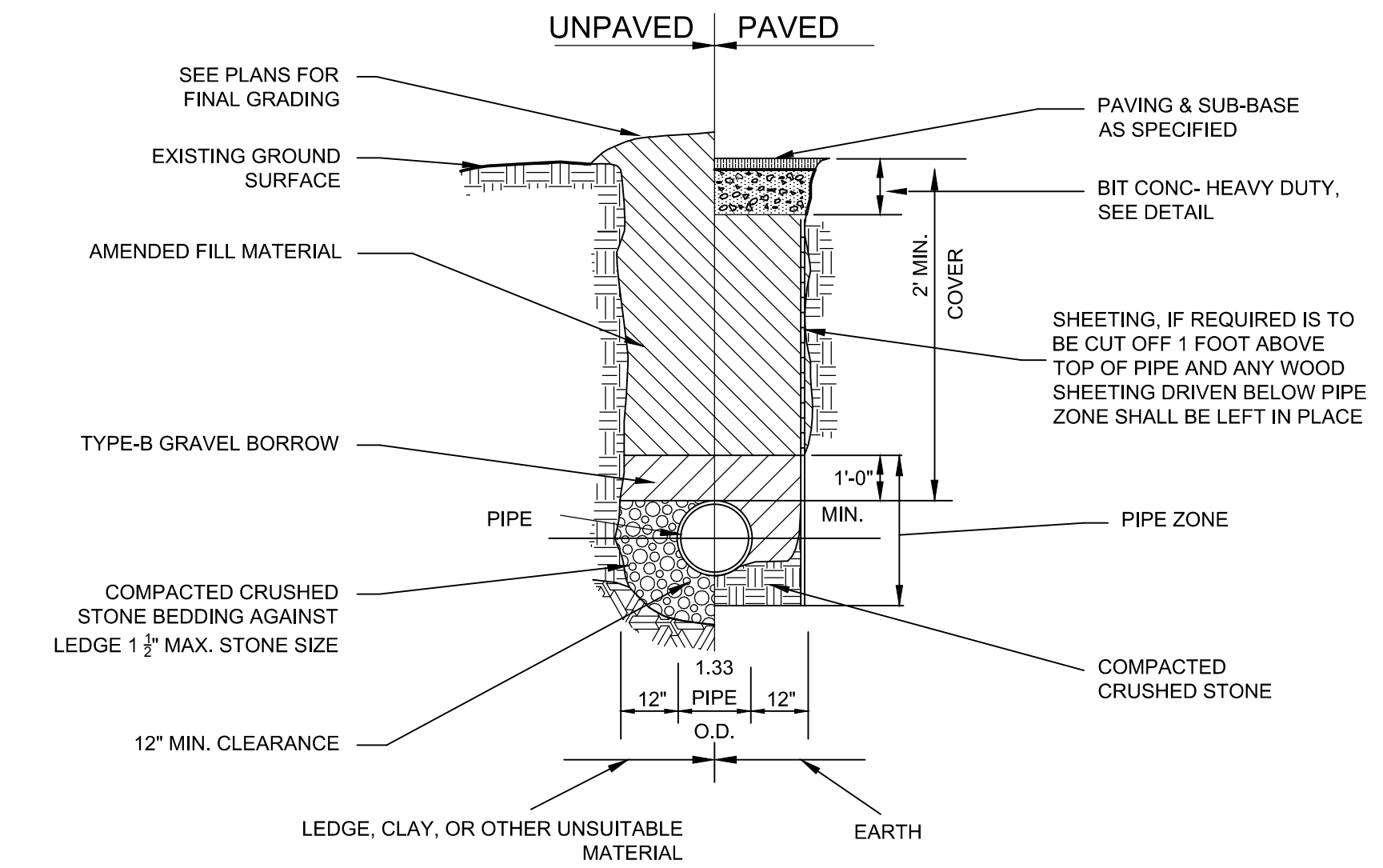
NOTE:
 1. THE DRAIN MANHOLE SHALL BE DESIGNED TO RESIST BUOYANCY. ASSUMING GROUNDWATER IS AT GRADE, MANUFACTURER SHALL PROVIDE BUOYANCY CALCULATIONS, STAMPED BY A MASSACHUSETTS P.E.
 2. MANHOLE FRAME AND COVER SHALL BE H-20 WHEEL LOAD RATED.

1 TYPICAL PRECAST CONCRETE MANHOLE
 SCALE: N.T.S.

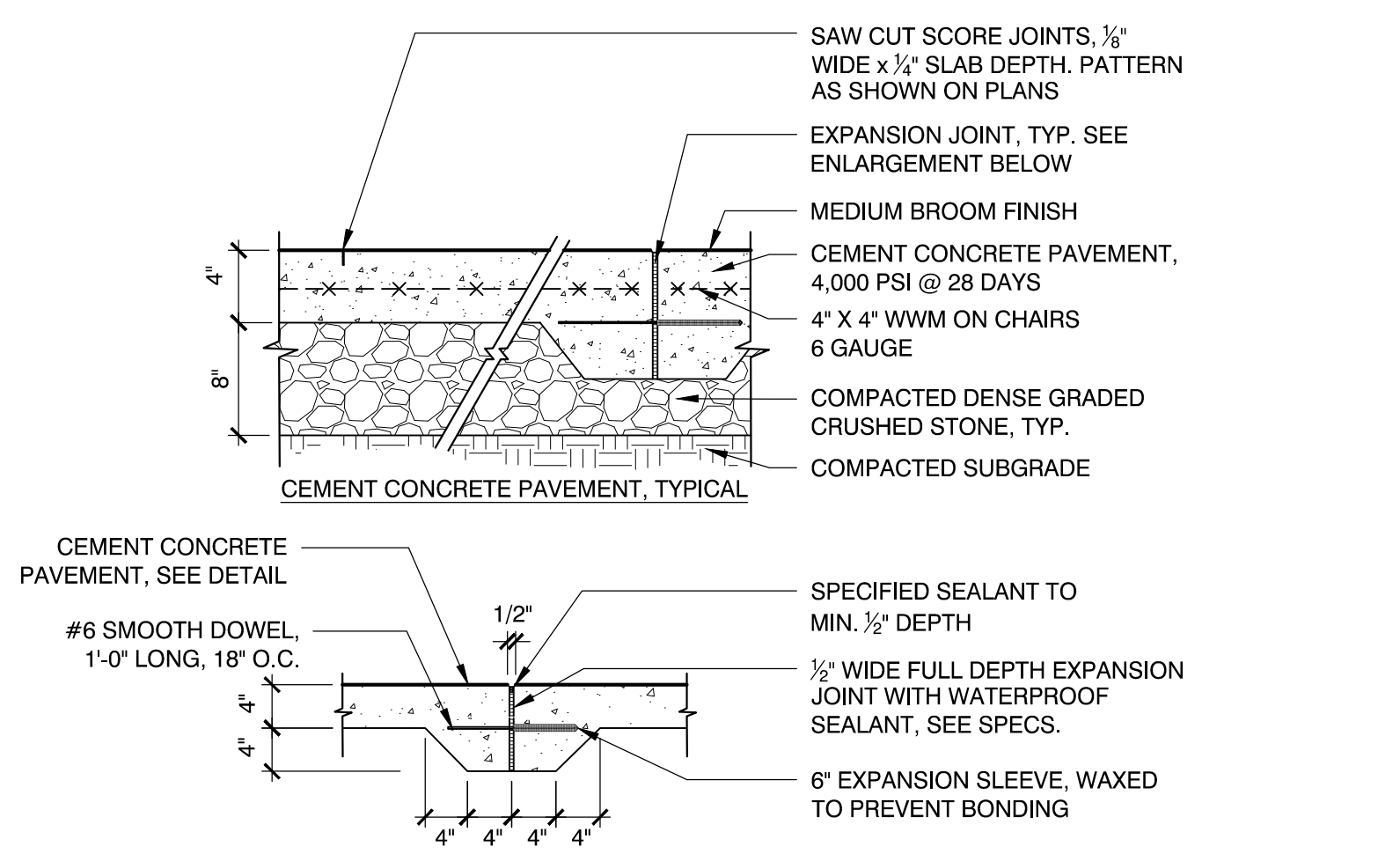


NOTES:
 1. FOR DOUBLE CATCH BASINS, STRUCTURE SHALL BE 6' IN DIAMETER.
 2. THE CATCH BASIN SHALL BE DESIGNED TO RESIST BUOYANCY. ASSUMING GROUNDWATER IS AT GRADE, MANUFACTURER SHALL PROVIDE BUOYANCY CALCULATIONS, STAMPED BY A MASSACHUSETTS P.E.
 3. MANHOLE FRAME AND COVER SHALL BE H-20 WHEEL LOAD RATED.

2 STANDARD CATCH BASIN
 SCALE: N.T.S.

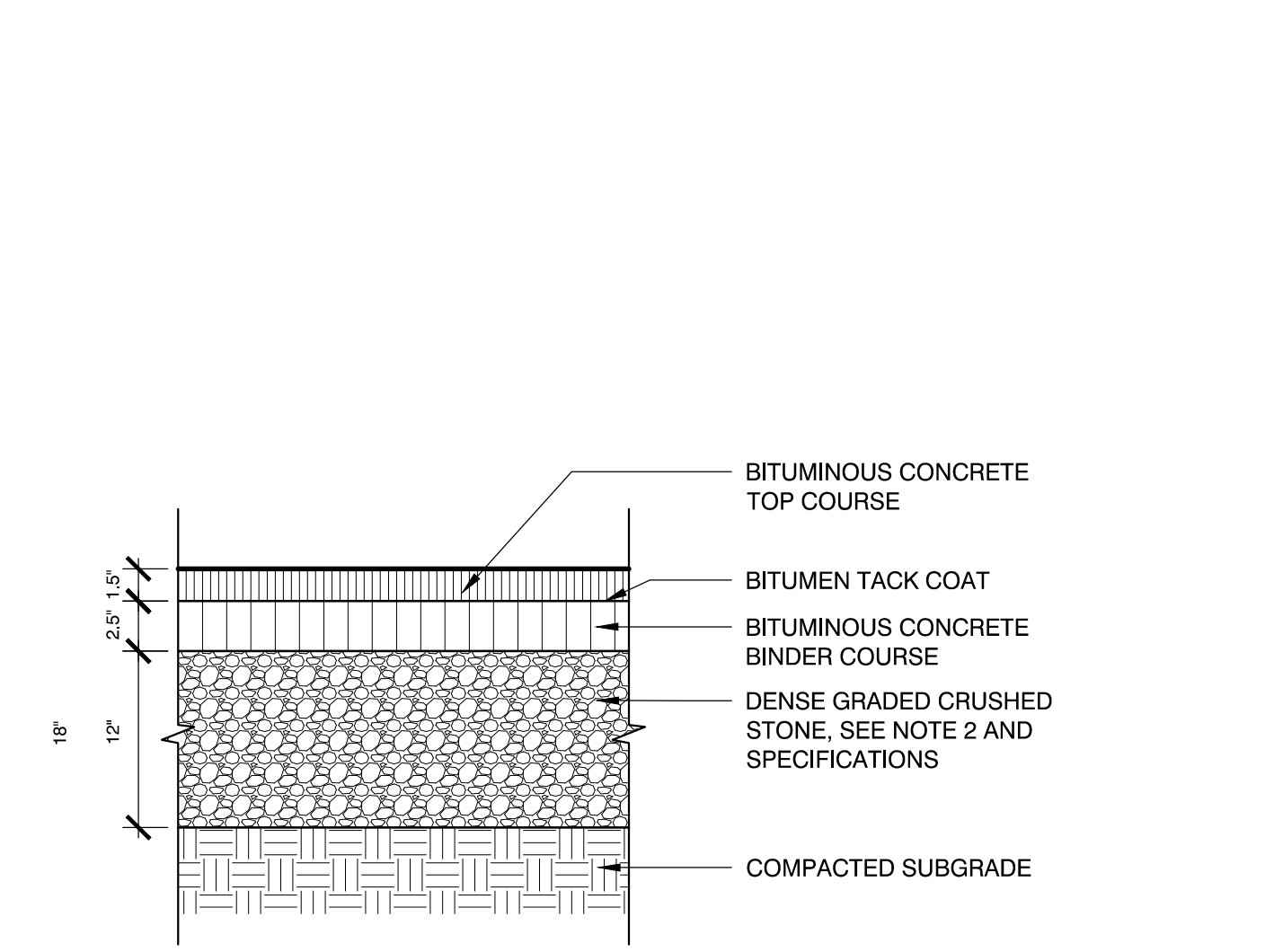


3 TYPICAL STORM DRAIN TRENCH DETAIL
 SCALE: N.T.S.



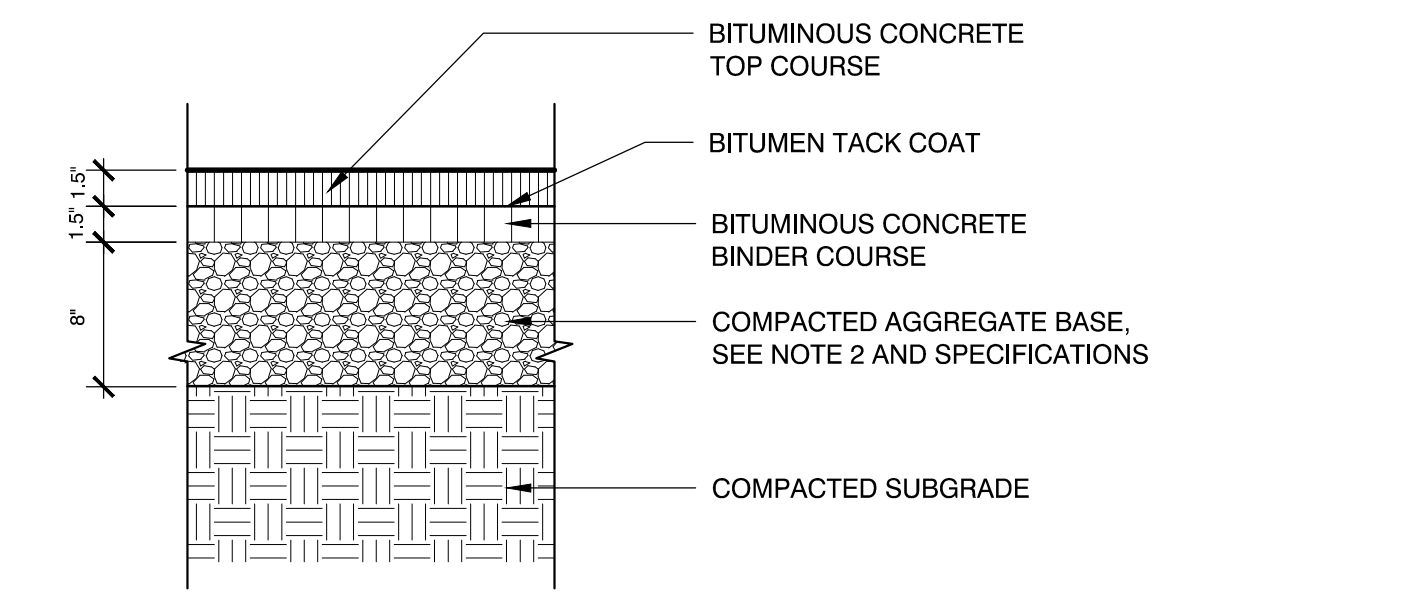
EXPANSION JOINT INSTALLATION NOTES:
 1. DOWEL IS TYPICAL AT ALL EXPANSION JOINTS (18\"/>

4 CEMENT CONCRETE PAVEMENT
 SCALE: N.T.S.



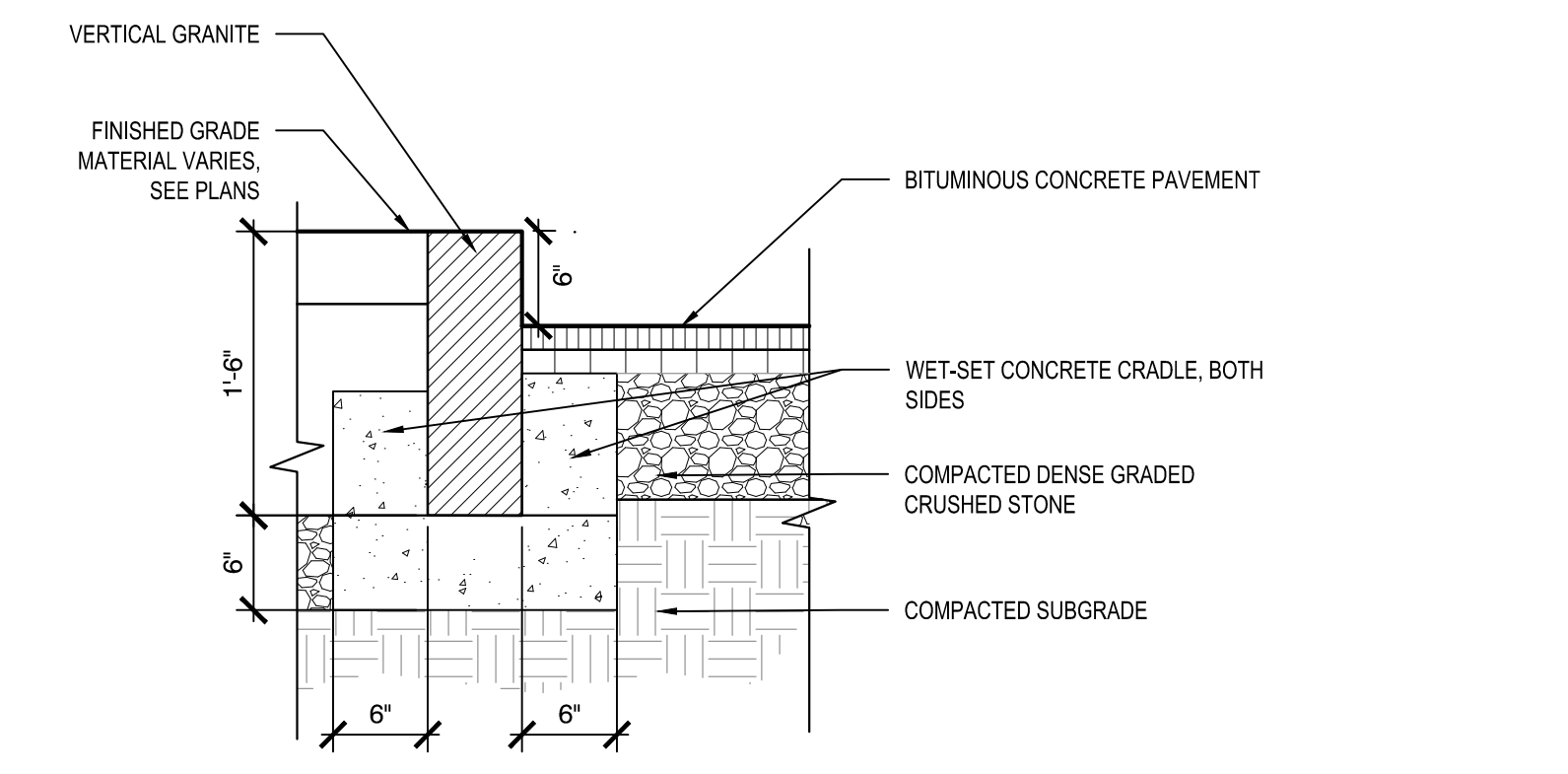
NOTES:
 1. CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT, TYP.
 2. DENSE GRADED CRUSHED STONE TO COMPRISE OF 12\"/>

5 BIT CONC PAVEMENT- HEAVY DUTY
 SCALE: N.T.S.

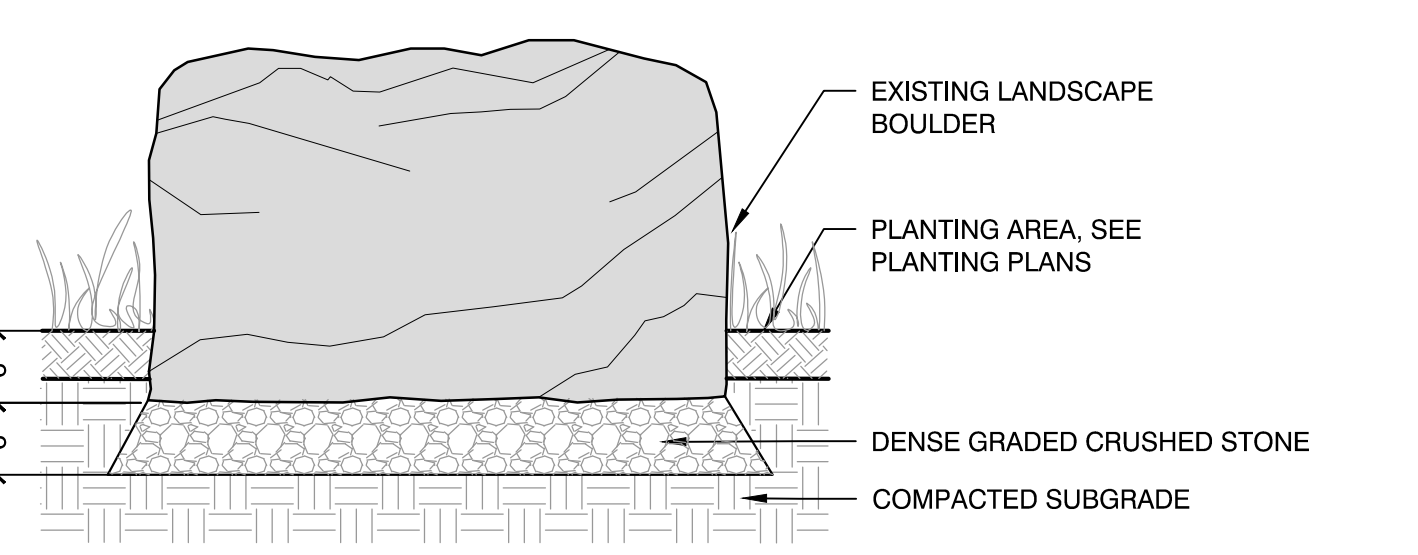


NOTES:
 1. CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT, TYP.
 2. COMPACTED AGGREGATE BASE TO COMPRISE OF 12\"/>

6 BIT CONC PAVEMENT- PEDESTRIAN
 SCALE: N.T.S.



7 VERTICAL GRANITE CURB
 SCALE: N.T.S.



8 RESET EX. LANDSCAPE BOULDER
 SCALE: N.T.S.

Consultants:

Revisions:

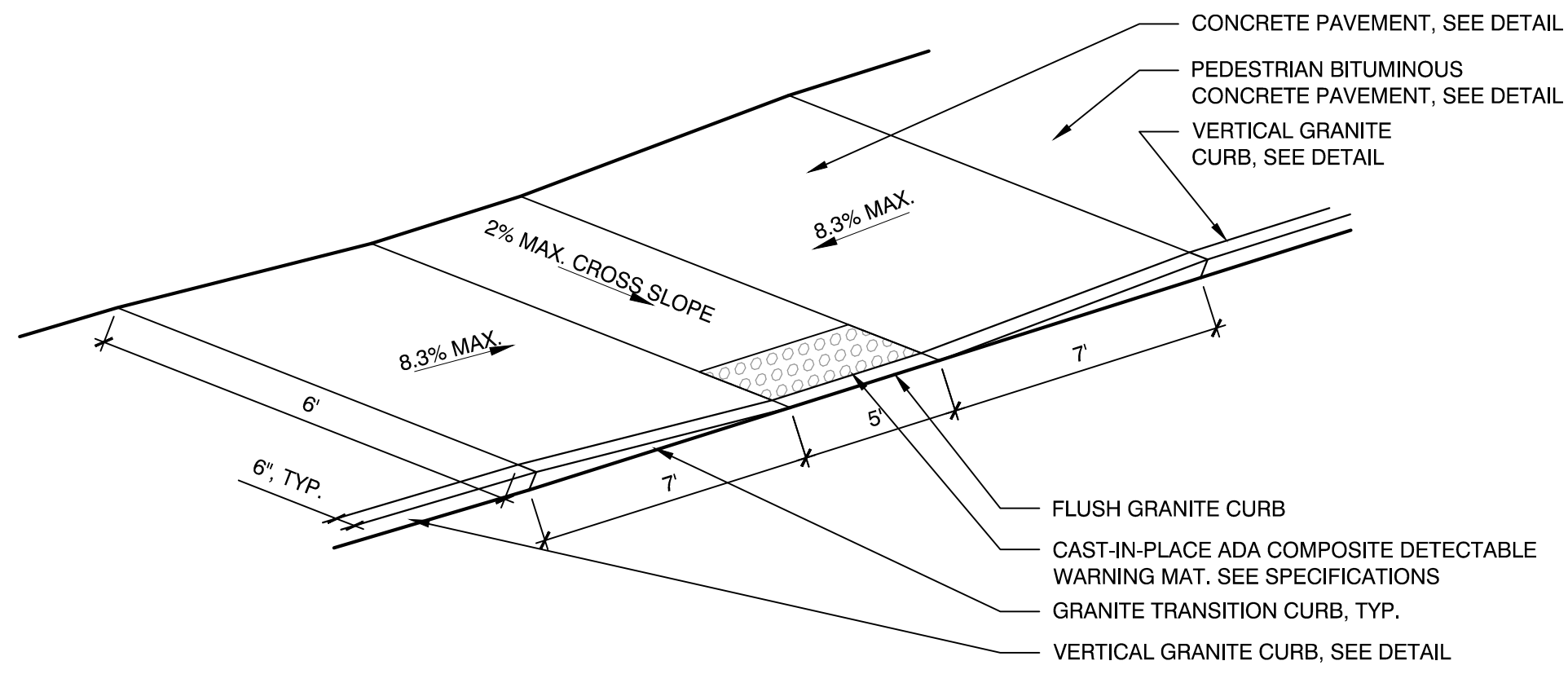
No.	Date	Description

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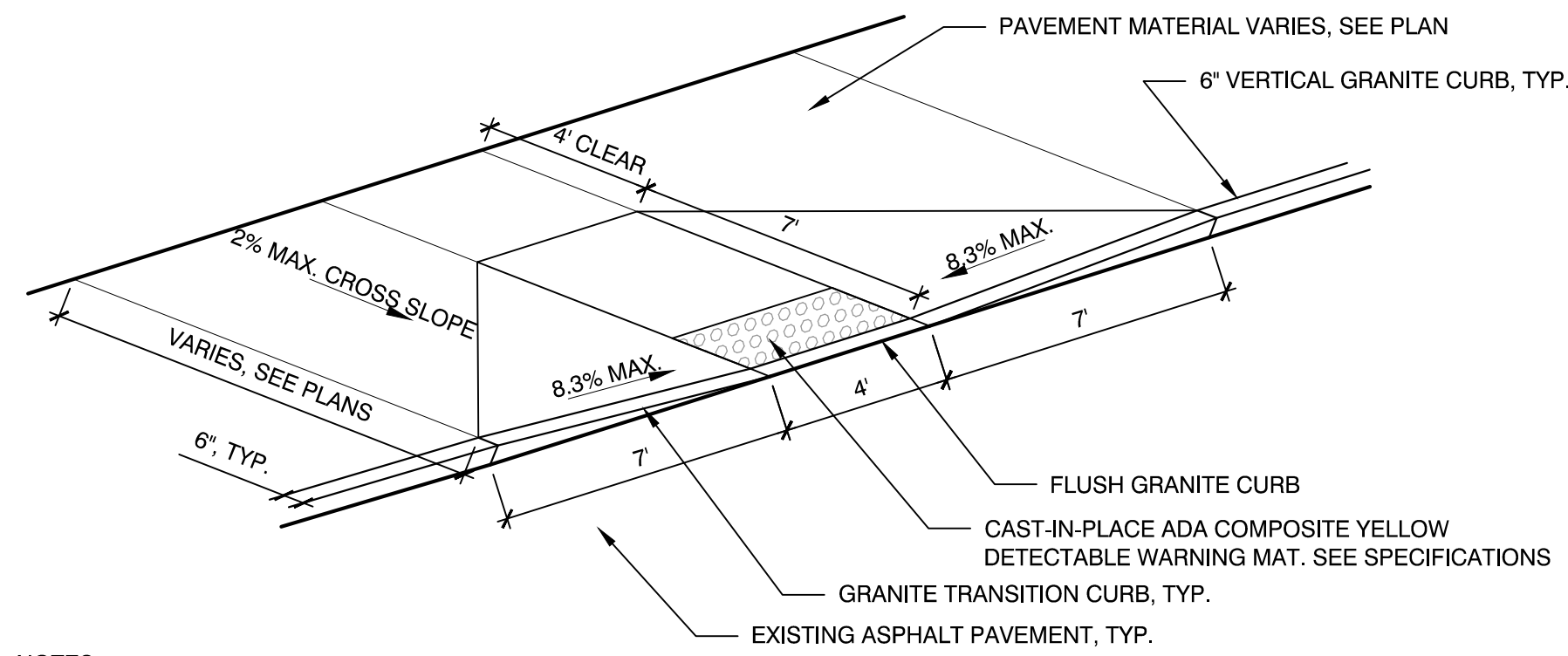
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Scale: AS SHOWN
 Date: FEBRUARY 3, 2021
 Drawn By: EJA
 Reviewed By: CB
 Approved By: JIP
 W&S Project No.: ENG20-0865
 W&S File No.:

Drawing Title:
 DETAILS II
 Sheet Number:
 C501

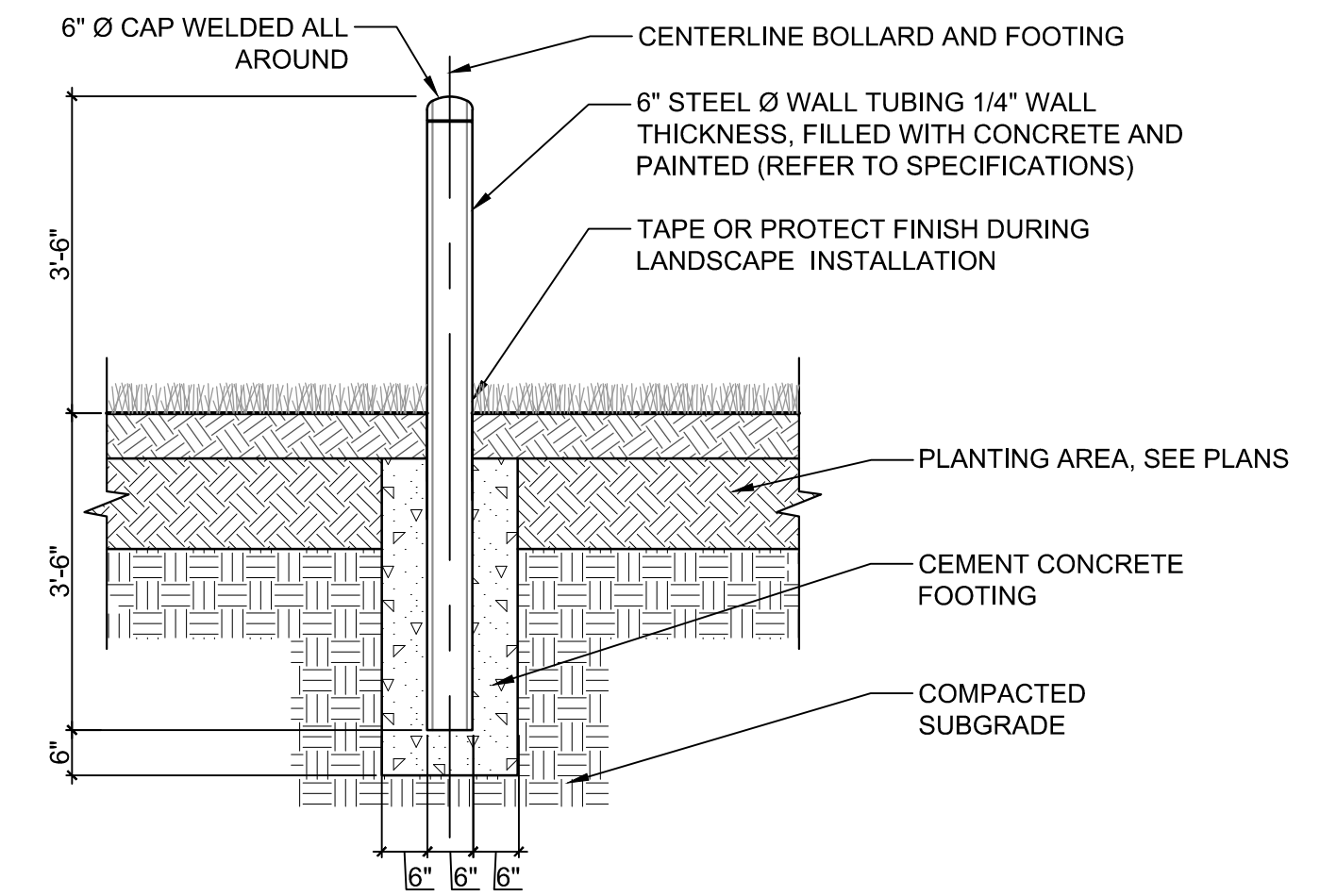


1 ADA CURB CUT - TYPE A
SCALE: N.T.S.



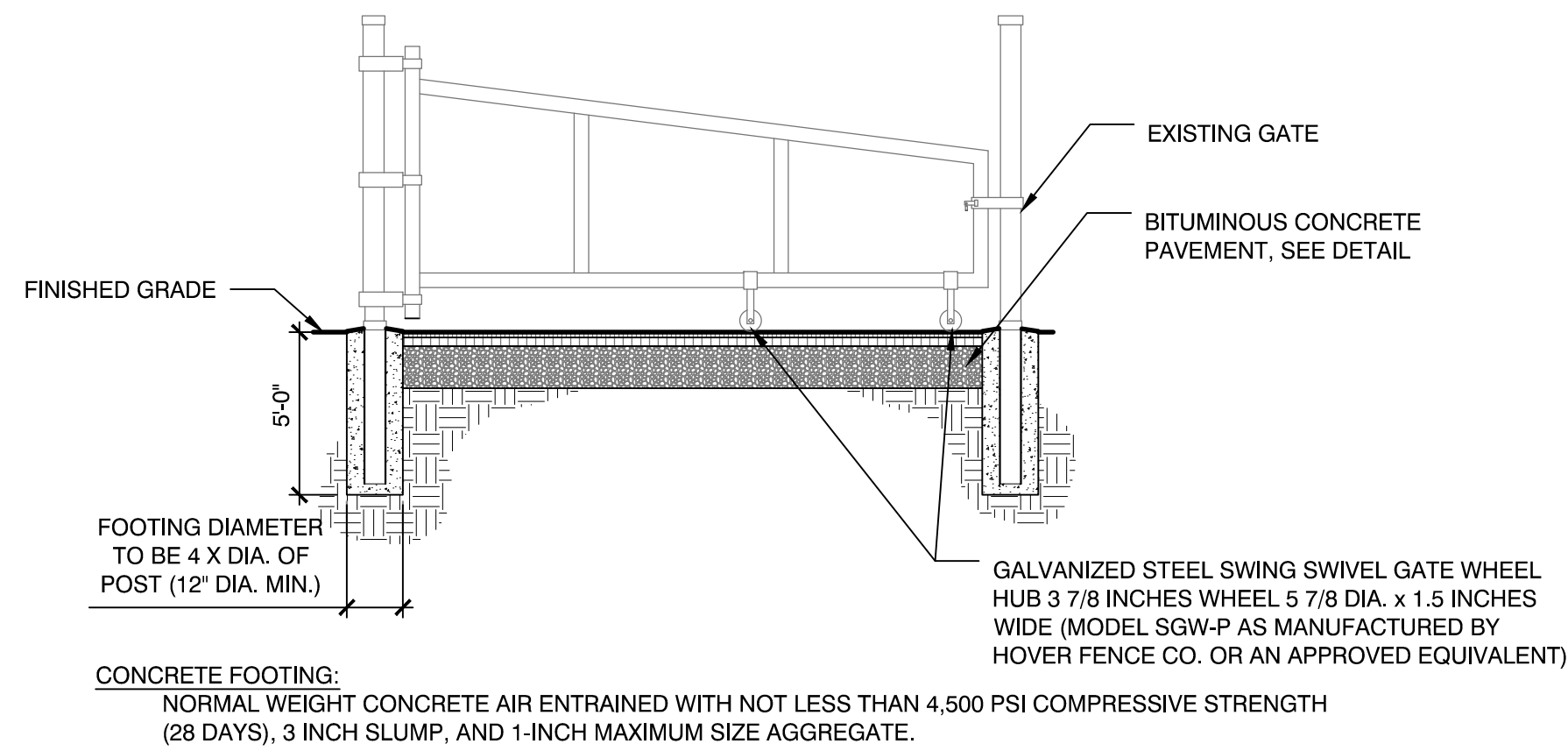
- NOTES:
- CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
 - CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.

2 ADA CURB CUT - TYPE B
SCALE: N.T.S.

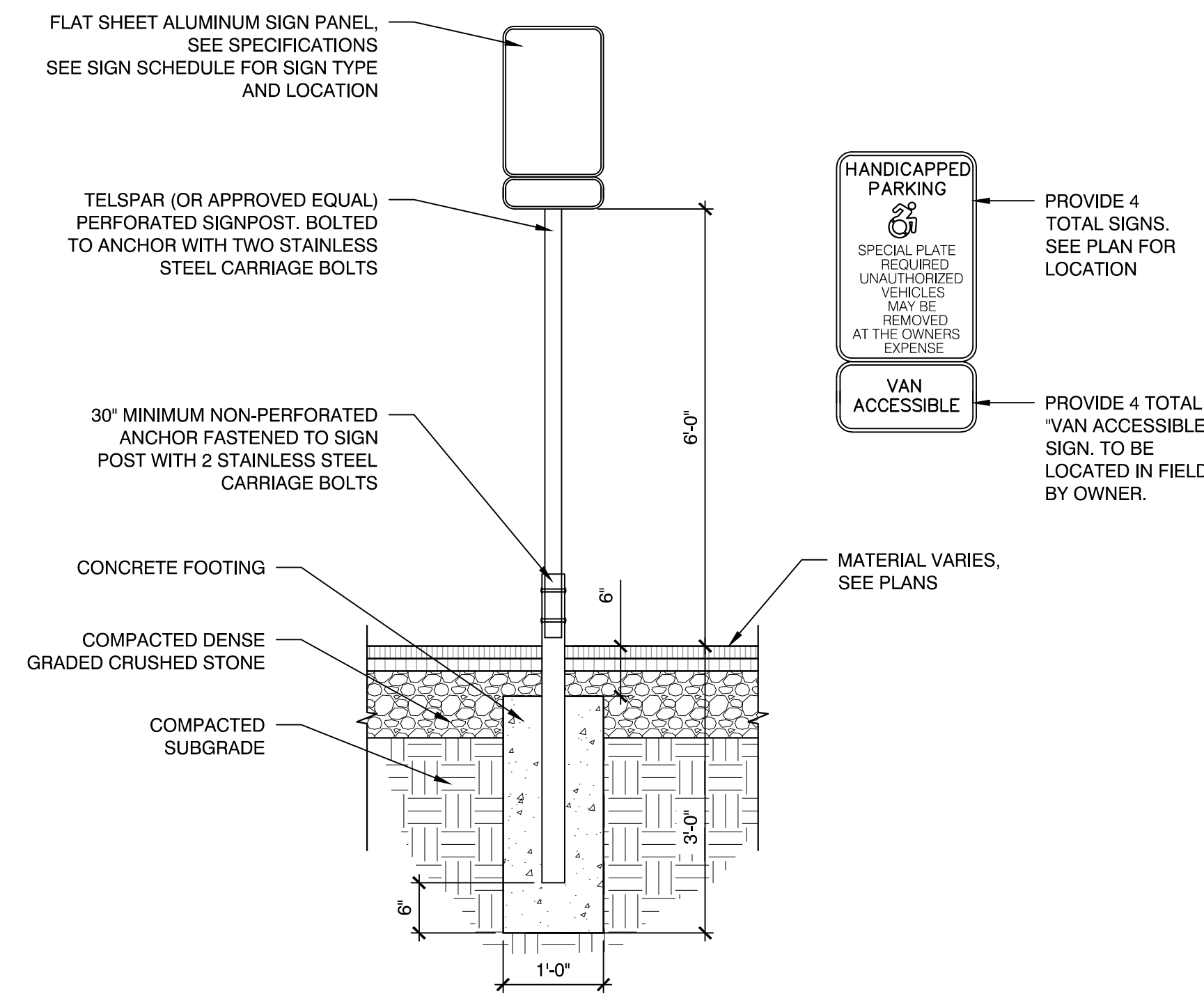


- NOTES:
- SEE C103 SERIES FOR BOLLARD LOCATIONS.
 - BOLLARD FOUNDATION CONCRETE TO BE 4000 PSI MIN.
 - EXACT LOCATION TO BE DETERMINED IN THE FIELD AND APPROVED BY TOWN BEFORE INSTALLATION.
 - 6" GALVANIZED PIPE PROVIDED BY MISC. METALS CONTRACTOR. INSTALLATION AND CONCRETE BY GENERAL CONTRACTOR.

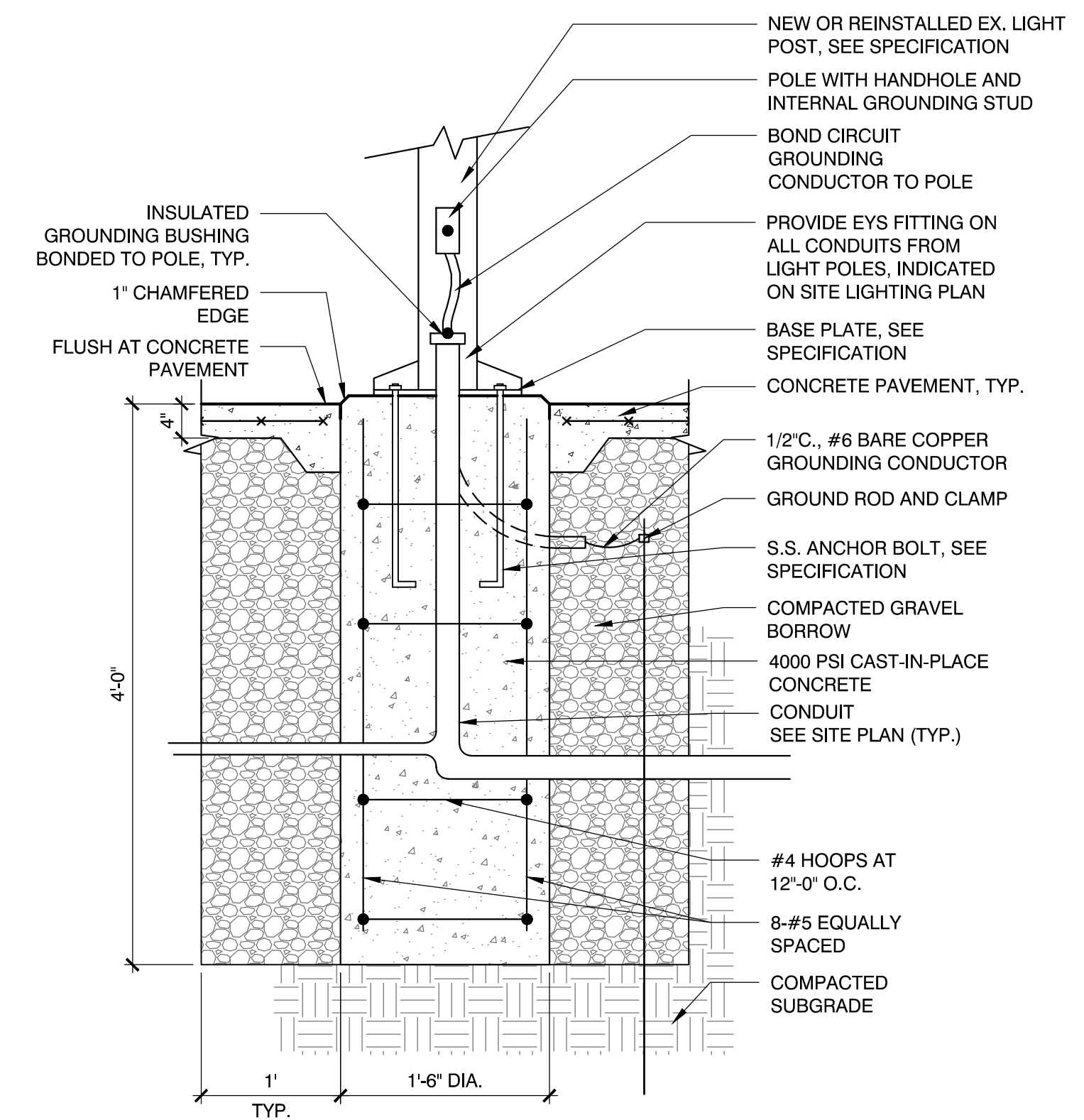
3 EXTERIOR STEEL BOLLARD
SCALE: N.T.S.



4 RESET EX. METAL SWING GATE
SCALE: N.T.S.



5 ACCESSIBLE PARKING SPACE
SCALE: N.T.S.



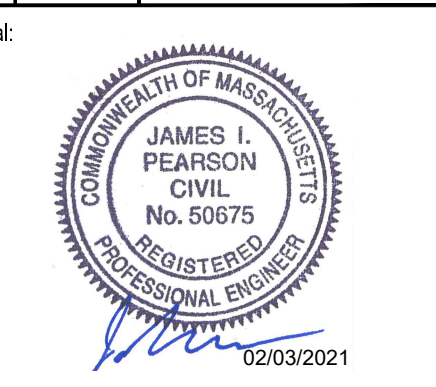
- NOTE:
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR. ALL EXCAVATION, BACKFILL, & CONCRETE SHALL BE BY GENERAL CONTRACTOR.
 - REFER TO SPECIFICATIONS FOR MATERIALS.

6 RESET EX. PEDESTRIAN LIGHT
SCALE: N.T.S.

Consultants:

Revisions:

No.	Date	Description



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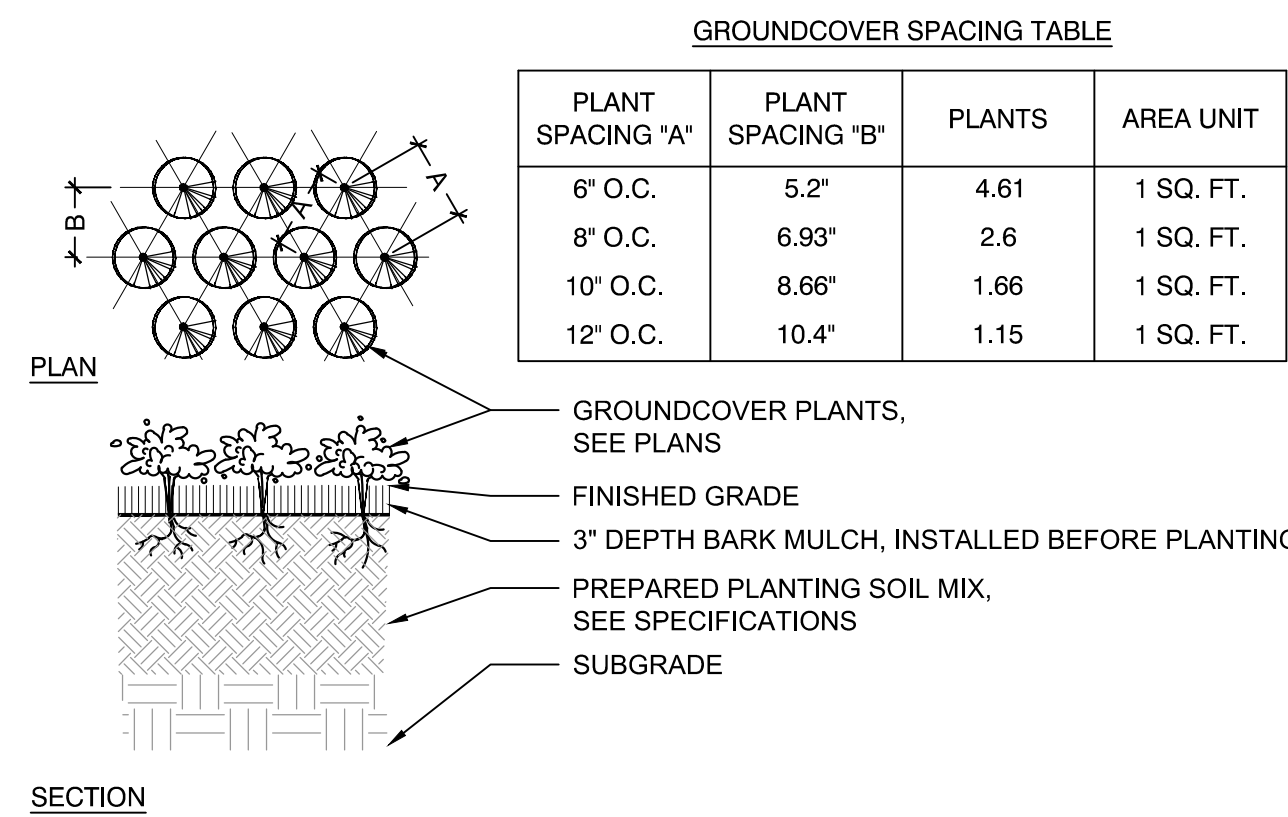
W&S Project No.: ENG20-0865
W&S File No.:

Drawing Title:

DETAILS III

Sheet Number:

C502

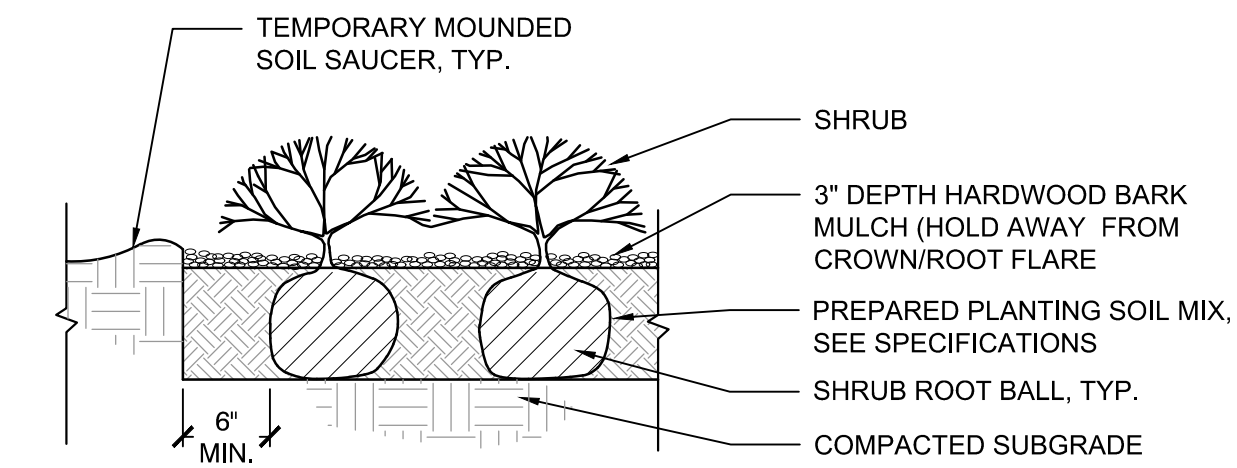
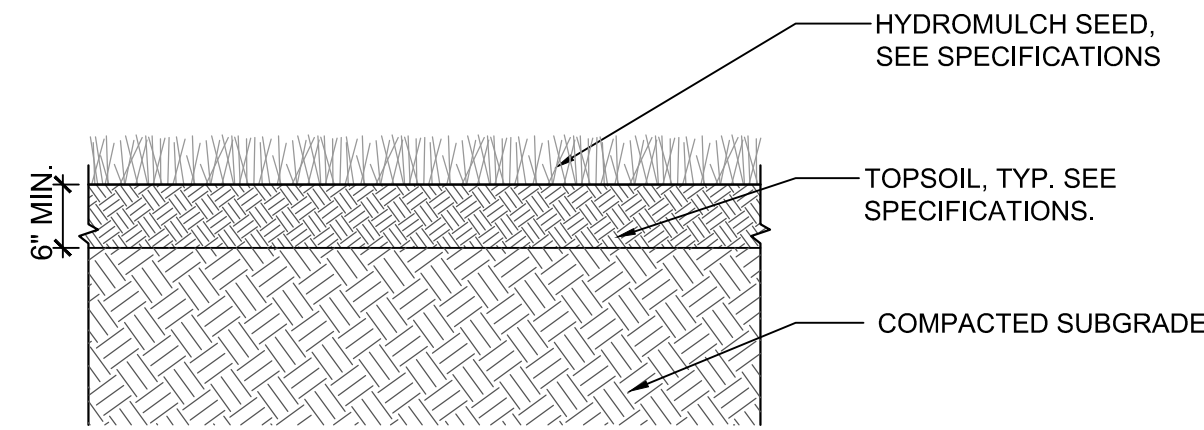


- NOTES:**
- ALL GROUNDCOVERS TO BE PLANTED IN TRIANGULAR PATTERN. SEE PLANTING SCHEDULE FOR SPACING.
 - JUTE EROSION CONTROL MAT TO BE USED ON ALL SLOPES 3:1 OR GREATER. SEE SPECIFICATIONS

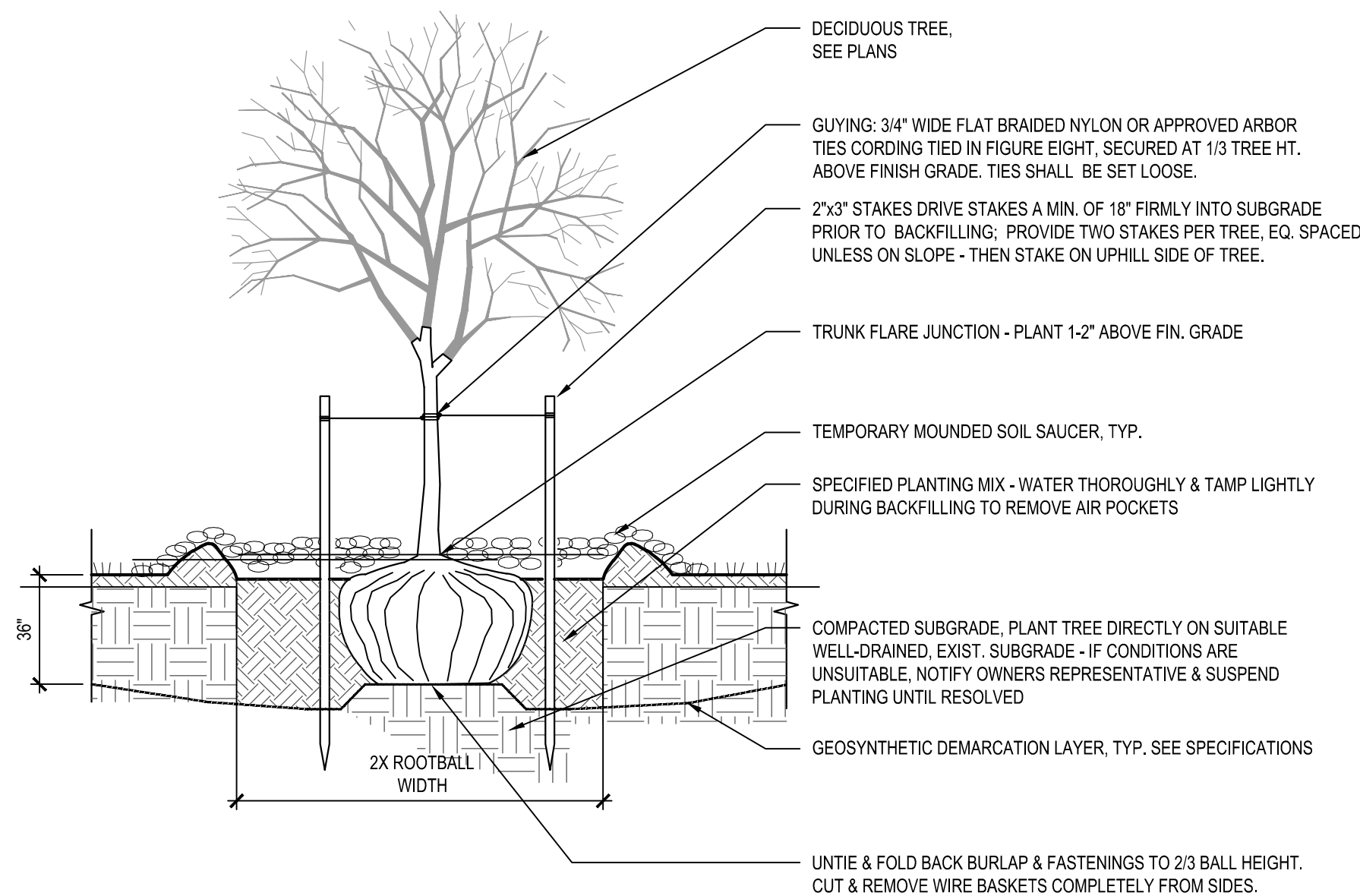
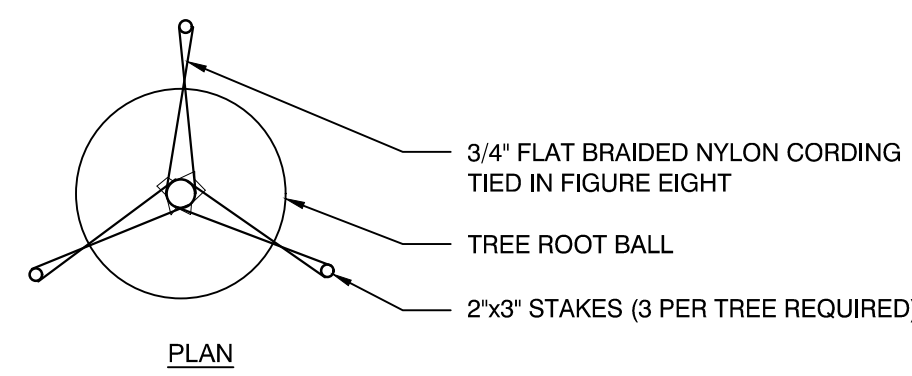
1 GROUND COVER PLANTING
SCALE: N.T.S.

2 LOAM AND SEED
SCALE: N.T.S.

3 SHRUB PLANTING
SCALE: N.T.S.



- NOTE:**
- ALL MULCH MUST BE DARK IN COLOR. PROVIDE SAMPLE PRIOR TO INSTALLATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.



4 TREE PLANTING AND STAKING
SCALE: N.T.S.

Revisions:

No.	Date	Description

Revisions:

No.	Date	Description

Seal:

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W&S File No.:

Drawing Title:

DETAILS IV

Sheet Number:

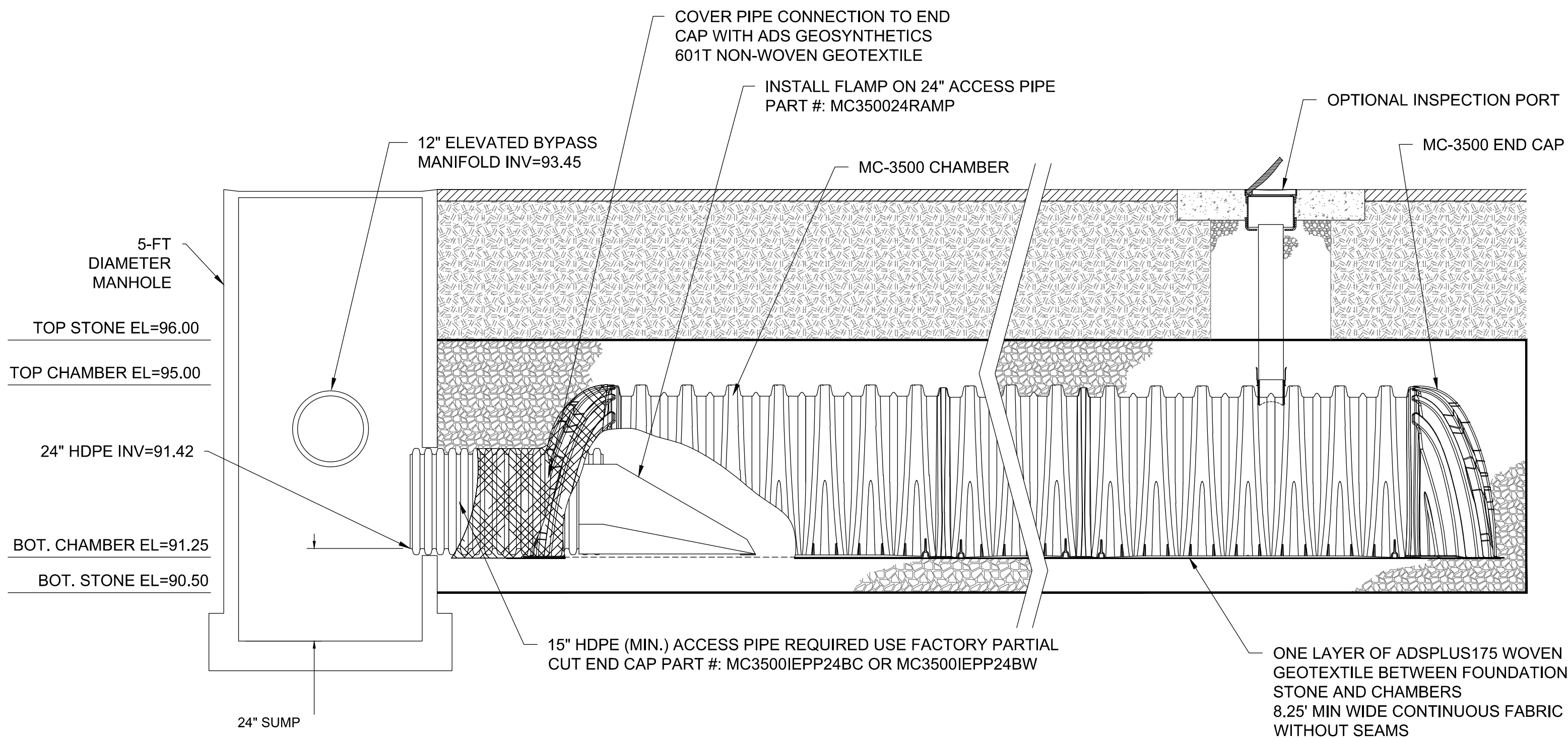
C503

INSPECTION & MAINTENANCE

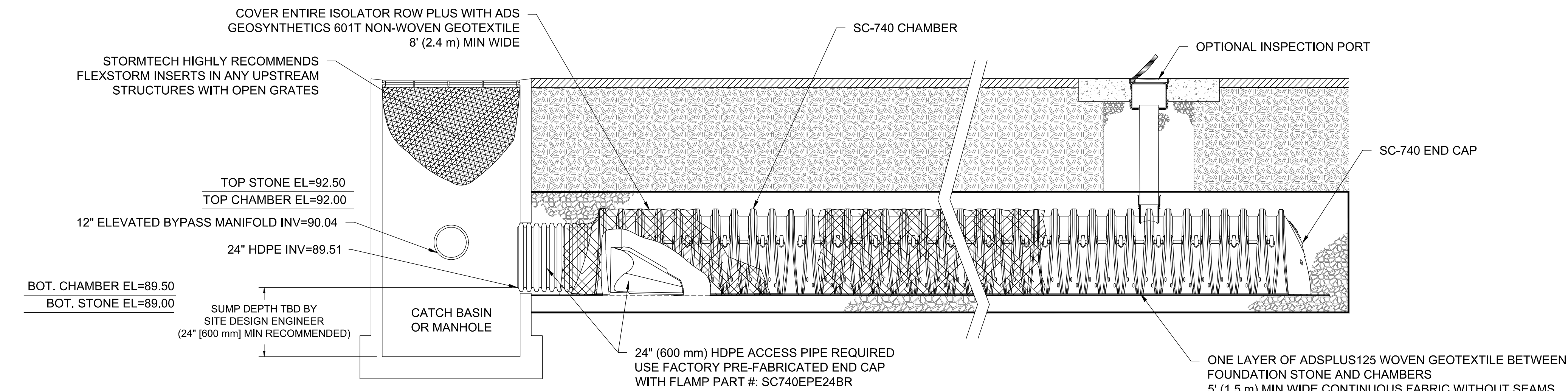
- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

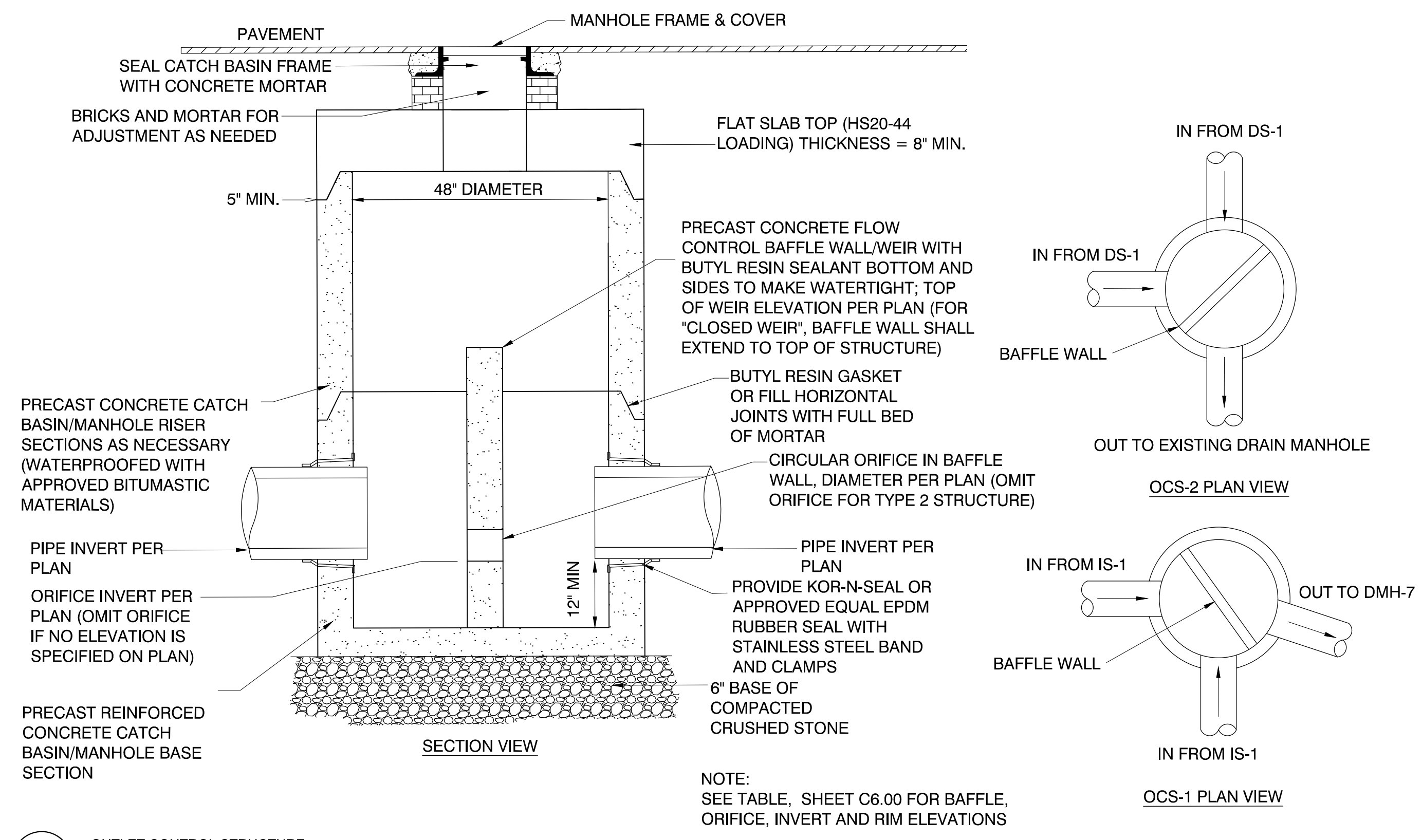
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



1 MC-3500 ISOLATOR ROW PLUS DETAIL (INFILTRATION SYSTEM IS-1)
SCALE: NTS



3 SC-740 ISOLATOR ROW PLUS DETAIL (DETENTION SYSTEM DS-1)
SCALE: NTS



2 OUTLET CONTROL STRUCTURE
SCALE: NTS

Project: BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT

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BOXFORD, MA 01921

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Revisions:

No.	Date	Description

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No. 50675
REGISTERED PROFESSIONAL ENGINEER
02/03/2021

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DETAILS VII

Sheet Number:

C506