TOWN OF BOXFORD BOXFORD PUBLIC SCHOOLS SITE



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Weston (&) Sampson

JAMES PEARSON, PE, TECHNICAL SPECIALIST 55 WALKERS BROOK DRIVE READING, MA 01867 978-532-1900



Locus Map





SPOFFORD POND SCHOOL 31 SPOFFORD ROAD, BOXFORD, MA 01921



SOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT SPOFFORD POND SCHOOL



- RENDERING FOR ILLUSTRATIVE PURPOSES ONLY -

-PERMITTING ONLY-- NOT FOR CONSTRUCTION -

NOVEMBER 24, 2021

LANDSCAPE ARCHITECTURAL, CIVIL, ENVIRONMENTAL, ELECTRICAL AND UTILITY DESIGN: 55 Walkers Brook Drive, Suite 100 Reading, MA 018667 (978) 532 1900 www.westonandsampson.com



SCHOOL: SITE ADDRESS: PARCEL MAP/LOT ZONING DISTRICT OVERLY DISTRICT

SPOFFORD POND SCHOOL 31 SPOFFORD ROAD 15-1-4 O - OFFICIAL OR OPEN SPACE DISTRICT POND WATERSHED OVERLAY DISTRICT

Description	Required	Proposed			
Minimum Lot Dimensions					
Area (Acres)	N/A	N/A			
Frontage on street	N/A	N/A			
Minimum Required Yard Dimensions/Setbacks					
Front Yard (1)	50	N/A			
Side Yard	N/A	N/A			
Rear Yard	N/A	N/A			
Max. Bldg. Height					
Stories	3	N/A			
Feet	35	N/A			
Coverage (2)					
Building Coverage % of lot area	25%	N/A			
Accessory Buildings or Structures					
Min. Bldg. Separation	20	N/A			
Side/rear setbacks	20	N/A			

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GENERAL NOTES

- 1. TOPOGRAPHIC AND EXISTING CONDITIONS INFORMATION COMPILED BY WESTON & SAMPSON, OCTOBER 2020.
- 2. 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.
- 3. 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.
- 5. ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS-BUILT" DRAWINGS.
- 6. 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.
- 7. 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.
- 8. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.
- 9. FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE OWNER'S REPRESENTATIVE.
- 10. 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.
- 11. 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.
- 12. 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.
- 13. 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.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF ALL CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
- 3. 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.
- 4. 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.
- 5. EROSION CONTROL BARRIERS TO BE INSTALLED AT THE TOE OF SLOPES. SEE SITE PLAN, NOTES, DETAILS AND SPECIFICATIONS.

DEMOLITION & SITE PREPARATION NOTES

- OWNERSHIP OF SUCH MATERIALS.

- THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
- GRAVEL BORROW.

LAYOUT & MATERIALS NOTES

- REFERENCE STAKES AS NECESSARY OR AS REQUIRED BY THE OWNER'S REPRESENTATIVE.
- 2. THE LAYOUT OF SITE AMENITIES MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- SHALL BE UNDERTAKEN AS DIRECTED, AT NO ADDITIONAL COST TO THE OWNER.
- AS NOTED ON THE LAYOUT AND MATERIALS PLAN.
- DISCREPANCIES IMMEDIATELY TO THE OWNER.

- 8. REFER TO DETAIL DRAWINGS FOR CONSTRUCTION DETAILS.
- LAYOUT AND MATERIALS PLAN FOR INFORMATION ONLY.

1. 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.

2. THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN

3. 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.

5. 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

6. 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

1. 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

3. 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

4. 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

5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY

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.

9. 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.

10. 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

GRADING & DRAINAGE NOTES

- 1. 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.
- 2. THE CONTRACTOR SHALL VERIFY ALL GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
- 3. 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.
- 4. CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY PITCH TO DRAIN, WITH NO SURFACE WATER PONDING OR PUDDLING.
- 5. 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.
- 7. 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
- 8. 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.
- 9. 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.
- 10. WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED, BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
- 11. RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND SEED (L&S) UNLESS OTHERWISE NOTED.
- 12. SEE EARTHWORK SECTION OF SPECIFICATIONS FOR EXCAVATION AND FILLING PROCEDURES.

PLANTING NOTES

- 1. 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.
- 2. ALL REFERENCES TO LOAM AND SEED REFER TO HYDROMULCH SEEDED LAWN.
- 3. 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

GUTTER INLET W/ CURB INLET CATCH BASIN W/ CURB INLET
SEWER MANHOLE
LEACHING BASIN
CAST IRON
LIGHT POLE
STORM WATER TREATMENT UNIT
HANDHOLE

ALIGNMENT/GRADING

BW	BOTTOM OF WALL
BC	BOTTOM OF CURB
Pl	POINT OF INTERSECTION
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVC	POINT OF VERTICAL CURVATURE
PVT	POINT OF VERTICAL TANGENCY
ELEV	ELEVATION
CC	CENTER OF CURVE
H.P.	HIGH POINT
L.P.	LOW POINT
R	RADIUS OF CURVATURE
STA	STATION
S.S.D.	STOPPING SIGHT DISTANCE
ТС	TOP OF CURB
TW	TOP OF WALL
CL.	CENTER LINE





- 1. SURVEY PERFORMED BY WESTON & SAMPSON PE, LS, LA, PC. IN OCTOBER 2020. 2. CONTOURS AND ELEVATIONS SHOWN BASED ON GPS OBSERVATIONS ON
- NAVD88 VERTICAL DATUM. 3. 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).
- 4. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. THE EXISTENCE OF WHICH ARE UNKNOWN TO WESTON & SAMPSON. THE EXISTANCE, SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG.
- 5. WETLAND LOCATIONS BASED ON OBSERVATIONS (FLAGGING PLACED BY OTHERS) AT THE TIME OF THE FIELD SURVEY.

DEED REFERENCE:

< 3 3 8 " 8"

5 3 5 6"

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0.24P#2293____

Boulder

Boulder Boulder

5 35 12"

న**్రా**స్త్ర క్రైవే 18'

3

2°272'

(C)MLP

7.0.1

1. ORDER OF TAKING EMINENT DOMAIN TOWN OF BOXFORD, DATED JANUARY 11, 1962 AND RECORDED IN THE ESSEX COUNTY RECORDERS OFFICE IN BOOK 4869 PAGE 84.

Spord Road

MAP REFERENCES:

- MAP ENTITLED: "PLAN OF LAND LOCATED IN BOXFORD, MA", SCALE: 1"=40' DATED: DECEMBER 20, 1989, PREPARED BY EASTERN LAND SURVEY ASSOCIATES, RECORDED FEBRUARY 15, 1990 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 259 PLAN 93.
- 2. MAP ENTITLED: "PLAN OF LAND IN BOXFORD, MA PROPERTY OF THE TOWN OF BOXFORD", SCALE: 1"=150', DATED: MAY 27, 2015, PREPARED BY DONOHOE SURVEY, INC., RECORDED JULY 8, 2015 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 448 PLAN 79.
- MAP ENTITLED: "LAND OF JOHN F. McGRATH BOXFORD, MASS", SCALE: 1"=50', DATED: MARCH 1957, PREPARED BY JULIUS H. KRITTER ENGINEER, RECORDED AUGUST 30, 1957 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 4398 PLAN 527.
- 4. MAP ENTITLED: "PLAN OF BATCHELDER LAND PROPERTY OF THE TOWN OF BOXFORD", SCALE: 1"=100', DATED: OCTOBER 1955, PREPARED BY ROBERT B. PARKHURST L.S., RECORDED JANUARY 9, 1973 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 125 PLAN 7.
- 5. MAP ENTITLED: "PLAN OF LAND IN BOXFORD, MA", SCALE: 1"=60' DATED: JULY 25, 2012, PREPARED BY DONOHOE AND PARKHURST, INC., RECORDED AUGUST 29, 2012 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 434 PLAN 77.



OVERALL SITE PLAN

$\frown \frown \frown \frown \frown$	EDGE OF WOODS
	DECIDUOUS TREE
2) M. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	CONIFEROUS TREE
<	SHRUB/BUSH
	SIGN
С)	UTILITY POLE
Å	LIGHT POLE
, Q	HYDRANT
*а	WATER SHUTOFF
сх	GAS VALVE
wv X	WATER VALVE
•	MONUMENT
Õ	IRON PIN / IRON ROD
Ġ.	HANDICAP SPACE
HH □	HAND HOLE
E	ELEC. METER
G	GAS METER
	PROPERTY LINE
	EASEMENT
10	MAJOR CONTOUR LINE
9	MINOR CONTOUR LINE
W/F	WOOD FRAMED
o	CHAIN LINK FENCE
0	WOOD FENCE
x	FENCE
⊖ co	CLEANOUT
Mon.Well 🍎	MONITORING WELL
-000000	STONEWALL



ST	STORM SEWER LINE
s	SANITARY SEWER LINE
w	WATER LINE
G	GAS LINE
SIG	SIGNAL WIRE LINE
c	CABLE LINE
F0	FIBER OPTIC LINE
LPS	LOW PRESSURE SEWER LINE
——— E ———	ELECTRIC LINE
OHU	OVERHEAD UTILITIES
T	TELEPHONE LINE
S	SANITARY MANHOLE (SMH)
D	DRAINAGE MANHOLE (DMH)
$\Box \Box O$	CATCHBASIN (CB)
0	METAL POST/BOLLARD (BOL)
Ē	ELECTRIC MANHOLE (MHE)
\bigcirc	UNKNOWN MANHOLE
\bigcirc	TELEPHONE MANHOLE (MHT)
v₽ ○	VENT PIPE
CNO	COULD NOT OPEN
	FLOW DIRECTION
MAG NAIL	MAGNETIC CONCRETE NAIL
WLF #TOB1	WETLAND FLAG (DELINEATED BY OTHERS)
WET-TR	WETLAND LINE
· · ·	EDGE OF WATER (BY AERIAL IMAGE)
Р	ELECTRIC PEDESTAL
←	GUY WIRE
F.F.=317.7'± ×	FINISHED FLOOR ELEVATION
× 318.5'	SPOT ELEVATION
MB	MAILBOX





michae	5	Wilmes	11/05/2
lichael G. Wilmes, L.S	534322	J	Date

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GRAPHIC SCALE 1"= 20 EXISTING CONDITIONS LEGEND Image: Constraint of the state of the s
GRAPHIC SCALE 1"= 20 EXISTING CONDITIONS LEGEND OPPOP EDGE OF WOODS ST ST STORM SEWER LINE DECIDUOUS TREE S SANITARY SEWER LINE ONIFEROUS TREE W WATER LINE SHRUB/BUSH SIG SIGNAL WIRE LINE SIGN C CONFERING SIGNAL WIRE LINE
GRAPHIC SCALE 1"= 20 EXISTING CONDITIONS LEGEND V EDGE OF WOODS ST STORM SEWER LINE EDCIDUOUS TREE S SANITARY SEWER LINE V CONIFEROUS TREE
GRAPHIC SCALE 1"= 20 EXISTING CONDITIONS LEGEND CONCOMEDGE OF WOODSSTST STORM SEWER LINE
GRAPHIC SCALE 1"= 20

UNKNOWN MANHOLE VENT PIPE COULD NOT OPEN FLOW DIRECTION ELECTRIC PEDESTAL GUY WIRE MAILBOX

- 1. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON UTILITY TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES.
- 3. CONTOURS AND ELEVATIONS SHOWN BASED ON GPS OBSERVATIONS ON NAVD88 VERTICAL DATUM.
- (MASSACHUSETTS MAINLAND).

- DANA F. PERKINS AND SONS, RECORDED ON APRIL 6, 1953 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 1953 PLAN 224.
- 2. MAP ENTITLED: "PLAN OF LAND FOR GORDON A. RUSSELL, BOXFORD, MASS.", SCALE ESSEX COUNTRY REGISTRY OF DEEDS IN BOOK 1953 PLAN 671.
- 3. MAP ENTITLED: "PLAN OF LAND IN BOXFORD, PREPARED FOR BESSIE M. CARR, JANUARY 21, 1965 IN ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 5240 PLAN 209.
- 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

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	0	20	50	100
\nearrow			SCALE: 1" = 20'	

PIPE TABLE						
PIPE	PIPE LOCATION	LENGTH	SLOPE	SIZE & TYPE	START INV.	END INV.
P-1	CB-1 TO DMH-15	32 LF	0.005	12" HDPE	132.70	132.52
P-2	CB-13 TO DMH-15	16 LF	0.005	12" HDPE	132.62	132.52
P-4	CB-10 TO CB-13	36 LF	0.005	12" HDPE	132.92	132.72
P-5	CB-4 TO DMH-11	98 LF	0.005	12" HDPE	129.71	129.20
P-6	CB-3 TO DMH-6	16 LF	0.005	12" HDPE	132.00	131.89
P-8	DMH-4 TO DMH-5	56 LF	0.005	24" HDPE	128.93	128.63
P-9	ORF-2 TO DMH-12	57 LF	0.005	24" HDPE	128.80	128.50
P-10	CB-7 TO DMH-10	9 LF	0.005	12" HDPE	134.23	134.16
P-11	CB-5 TO DMH-9	10 LF	0.078	12" HDPE	133.74	132.62
P-12	CB-8 TO DMH-8	5 LF	0.007	12" HDPE	133.96	133.89
P-13	CB-2 TO DMH-4	5 LF	0.010	12" HDPE	133.00	132.90
P-14	DMH-11 TO ISOLATOR ROW	4 LF	0.000	24" HDPE	128.27	128.27
P-15	OCS-1 TO DMH-2	95 LF	0.005	24" HDPE	127.66	127.15
P-16	DMH-5 TO DMH-6	125 LF	0.001	24" HDPE	128.53	128.35
P-17	DMH-6 TO OCS-2	15 LF	0.000	24" HDPE	128.27	128.27
P-18	CHAMBER TO OCS-1	2 LF	0.000	24" HDPE	128.27	128.27
P-20	DMH-2 TO FE-1	18 LF	0.005	24" HDPE	127.10	127.00
P-21	DMH-6 TO ISOLATOR ROW	2 LF	0.000	24" HDPE	128.27	128.27
P-23	CB-9 TO DMH-16	33 LF	0.005	12" HDPE	133.07	132.90
P-24	CB-12 TO DMH-17	3 LF	0.006	12" HDPE	132.34	132.30
P-25	CB-14 TO CB-12	65 LF	0.005	12" HDPE	132.78	132.44
P-26	OCS-2 TO 18" MANIFOLD	90 LF	0.000	18" HDPE	128.27	128.27
P-27	OCS-2 TO ISOLATOR ROW 4	2 LF	0.000	24" HDPE	128.27	128.27
P-28	TO ORF-2	84 LF	0.000	6" HDPE	129.50	129.50
P-29	DMH-12 TO OCS-2	2 LF	0.005	24" HDPE	128.40	128.37
P-30	CB-15 TO DMH-14	6 LF	0.005	12" HDPE	134.40	134.35
P-31	TO EX. PIPE	3 LF	0.000	12" HDPE	131.05	131.05
P-32	± EX. PIPE TO DMH-5	1 LF	0.000	4" HDPE	128.70	128.70
P-34	DMH-14 TO DMH-8	164 LF	0.005	24" HDPE	130.38	129.55
P-35	DMH-10 TO DMH-14	83 LF	0.005	24" HDPE	130.91	130.48
P-36	DMH-8 TO DMH-4	81 LF	0.005	24" HDPE	129.45	129.03
P-37	DMH-9 TO DMH-10	122 LF	0.005	24" HDPE	131.64	131.01
P-38	DMH-15 TO DMH-9	131 LF	0.005	24" HDPE	132.42	131.74
P-39	DMH-16 TO DMH-17	97 LF	0.005	12" HDPE	132.80	132.30
P-40	DMH-20 TO DMH-18	151 LF	0.005	18" HDPE	132.04	131.26
P-41	DMH-18 TO DMH-19	149 LF	0.005	18" HDPE	131.16	130.40
P-42	DMH-19 TO DMH-3	86 LF	0.019	18" HDPE	130.30	128.56
P-43	DMH-3 TO DMH-6	15 LF	0.005	18" HDPE	128.46	128.36
P-44	DMH-17 TO DMH-20	6 LF	0.006	12" HDPE	132.20	132.14
P-45	CB-16 TO CB-17	55 LF	0.005	18" HDPE	133.00	132.70
P-46	CB-17 TO DMH-20	88 LF	0.005	18" HDPE	132.60	132.14

SCALE: 1" = 20'

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	/				
-8 TO DMH-8	5 LF	0.007	12" HDPE	133.96	133.89
-2 TO DMH-4	5 LF	0.010	12" HDPE	133.00	132.90
H-11 TO ISOLATOR ROW	4 LF	0.000	24" HDPE	128.27	128.27
S-1 TO DMH-2	95 LF	0.005	24" HDPE	127.66	127.15
H-5 TO DMH-6	125 LF	0.001	24" HDPE	128.53	128.35
H-6 TO OCS-2	15 LF	0.000	24" HDPE	128.27	128.27
AMBER TO OCS-1	2 LF	0.000	24" HDPE	128.27	128.27
H-2 TO FE-1	18 LF	0.005	24" HDPE	127.10	127.00
H-6 TO ISOLATOR ROW	2 LF	0.000	24" HDPE	128.27	128.27
-9 TO DMH-16	33 LF	0.005	12" HDPE	133.07	132.90
-12 TO DMH-17	3 LF	0.006	12" HDPE	132.34	132.30
-14 TO CB-12	65 LF	0.005	12" HDPE	132.78	132.44
S-2 TO 18" MANIFOLD	90 LF	0.000	18" HDPE	128.27	128.27
S-2 TO ISOLATOR ROW 4	2 LF	0.000	24" HDPE	128.27	128.27
ORF-2	84 LF	0.000	6" HDPE	129.50	129.50
H-12 TO OCS-2	2 LF	0.005	24" HDPE	128.40	128.37
-15 TO DMH-14	6 LF	0.005	12" HDPE	134.40	134.35
) EX. PIPE	3 LF	0.000	12" HDPE	131.05	131.05
EX. PIPE TO DMH-5	1 LF	0.000	4" HDPE	128.70	128.70
H-14 TO DMH-8	164 LF	0.005	24" HDPE	130.38	129.55
H-10 TO DMH-14	83 LF	0.005	24" HDPE	130.91	130.48
H-8 TO DMH-4	81 LF	0.005	24" HDPE	129.45	129.03
H-9 TO DMH-10	122 LF	0.005	24" HDPE	131.64	131.01
H-15 TO DMH-9	131 LF	0.005	24" HDPE	132.42	131.74
H-16 TO DMH-17	97 LF	0.005	12" HDPE	132.80	132.30
H-20 TO DMH-18	151 LF	0.005	18" HDPE	132.04	131.26
H-18 TO DMH-19	149 LF	0.005	18" HDPE	131.16	130.40
H-19 TO DMH-3	86 LF	0.019	18" HDPE	130.30	128.56
H-3 TO DMH-6	15 LF	0.005	18" HDPE	128.46	128.36
H-17 TO DMH-20	6 LF	0.006	12" HDPE	132.20	132.14
-16 TO CB-17	55 LF	0.005	18" HDPE	133.00	132.70
-17 TO DMH-20	88 LF	0.005	18" HDPE	132.60	132.14

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word MAIENC20-0865 Cole and Spofford Schools Site/04 Design Services/03 Civil/01 CADD/04 Plan Set Sheets/C500-C503 Spofford Pond Details.dt

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SCHOOLS SITE RENOVATION PROJECT OPENDING SCHOOLS STE OPENDING
Revisions:
No. Date Description 1 10/08/21 PER PEER REVIEW 2 14/04/01 PER PEER REVIEW
2 11/01/21 PER PEER REVIEW 3 11/24/21 PER REVIEW COMMENTS
Seal: JAMES I. PEARSON CIVIL No. 50675 PARTICIPATION INC. SOCOTO INC. SOCOTO
Issued For: PERMITTING ONLY NOT FOR CONSTRUCTION
Scale: AS SHOWN
Date:JULY 23, 2021Drawn By:CTKReviewed By:JIPApproved By:JIPW&S Project No.: ENG20-0865
W&S File No.:
Drawing Title:
Sheet Number: C503

Project:

SCALE: N.T.S.

IDENTIFI-				PANEL S	IZE			NUI	MERALS	& LETTE	RS		COLOR	NUMBER	TOTAL	POST SIZE AND
NUMBER	ТЕХТ	WIDTH	HEIGHT	CORNER RADII	BORDER WIDTH	MARGIN WIDTH	NUN	/I. IN.	JPPER CASE	LOWE CASE	R E SEI	RIES	COMB.	REQUIRED	AREA SQ. FT.	NUMBER REQUIRED
R1-1	STOP	30"	30"										WHITE ON RED	6	12.50	P5-1 1
R5-1	DO NOT ENTER	36"	36"										WHITE ON RED	8	18.00	P5-1 2
R6-1	ONE WAY	36"	12"		S	EE MUTCD, HIGHWAY S	INCLU IGNS, I	IDING S LATEST	TANDARI EDITION	D			BLACK ON WHITE	7	5.00	P5-1 2
R7-8	RESERVED PARKING	12"	18"										WHITE ON BLUE	5	4.50	P5-1 1
R7-8P		12"	18"						V	Ţ	V		WHITE ON BLUE	5	4.50	P5-1 2

PERMANENT TRAFFIC SIGN SUMMARY SCALE: N.T.S.

FLUSH GRANITE CURB 2 SCALE: N.T.S.

5

6

CONCRETE STEPS

SCALE: N.T.S.

word MAIENC20-0865 Cole and Spofford Schools Site\04 Design Services\03 Civil\01 CADD\04 Plan Set Sheets\C500-C503 Spofford Pond Detail

Α	B	С
10.9" (277 mm)	18.5" (470 mm)	
10.9 (217 mm)		0.5" (13 mm)
10.0" (210 mm)	16.5" (419 mm)	
12.2 (310 mm)		0.6" (15 mm)
13.4" (340 mm)	14.5" (368 mm)	
		0.7" (18 mm)
14.7" (373 mm)	12.5" (318 mm)	
		1.2" (30 mm)
19 /" (/67 mm)	9.0" (229 mm)	
10.4 (407 1111)		1.3" (33 mm)
10.7" (E00 mana)	5.0" (127 mm)	
19.7 (300 mm)		1.6" (41 mm)
18.5" (470 mm)		0.1" (3 mm)

	Project: BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT
	Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100 Reading, MA 01867 978.532.1900 800.SAMPSON www.westonandsampson.com
	Consultants:
	Revisions: No. Date Description
	1 10/08/21 PER PEER REVIEW 2 11/01/21 PER PEER REVIEW 3 11/24/21 PER REVIEW COMMENTS
1.23% 1.23% 1.23% 1.23% 1.23% 1.23% 2.503 GROUNDCOVER PLANTING, TYP. 2.503 SHRUB PLANTING, TYP. VDB 4	Seal: JAMES I. PEARSON CIVIL No. 50675 Had Higher Engineering Sional Engineering 11/30/2021
AMI 3 st st st	
ST D F	Issued For: PERMITTING ONLY NOT FOR CONSTRUCTION
	Scale:AS SHOWNDate:JULY 23, 2021Drawn By:ALMReviewed By:CBApproved By:JIPW&S Project No : ENG20-0865
Edge of Pavent	W&S File No.:
Double Yellow L	Drawing Title: PLANTING ENLARGEMENT PLANS
EMENT	Sheet Number:
0 10 20 30 40 SCALE: 1" = 10'	L101

	ABBREVIATIONS		ELECTRICAL LEGEND
AFF AC	ABOVE FINISHED FLOOR ALTERNATING CURRENT		RACEWAY AND WIRING
A ATC ATS BKR C CKT CB	AMPERE AUTOMATIC TEMPERATURE CONTROLS AUTOMATIC TRANSFER SWITCH BREAKER CONDUIT CIRCUIT CIRCUIT BREAKER	1,3 LP1B	HOMERUN TO PANELBOARD, NUMBER OF TICKS INDICATES N CONTAINED IN RACEWAY. TWO (2) #12 AWG SHALL NOT BE IN INDICATE CIRCUITS IN PANELBOARD. RACEWAYS LARGER TH THAN #12 AWG SHALL BE INDICATED ON THE DRAWINGS. PRO WIRE IN ALL RACEWAYS MINIMUM SIZE TO BE #12AWG.
EC	ELECTRICAL CONTRACTOR		RACEWAY RUN BELOW GRADE
FL FLA GC	FLOOR FULL LOAD AMPERE GENERAL CONTRACTOR	—OH—	CONDUIT/WIRE RUN OVERHEAD
GND HP	GROUND	_	LIGHTING FIXTURES
JB KVA	JUNCTION BOX KILOVOLT AMPERES	ဝို	PARKING LOT LIGHTING FIXTURE
KW MCB MLO	KILOWATT MAIN CIRCUIT BREAKER MAIN LUGS ONLY	۲O	WALL MOUNTED FIXTURE
MTD MTG	MOUNTED MOUNTING		MISCELLANEOUS POWER
NTS PNL	NOT TO SCALE PANELBOARD		FUSIBLE SAFETY SWITCH - RATING AND TYPE AS NOTED ON T (30 AMP, 20 AMP FUSE, 3 POLE)
PH PVC	PHASE POLYVINYL CHLORIDE CONDUIT		PANELBOARD-SURFACE MOUNTED
RSC	RIGID GALVANIZED STEEL CONDUIT	^S MS	THERMAL MOTOR SWITCH
XFMR V	TRANSFORMER VOLTS	S	SINGLE POLE TOGGLE SWITCH
WD		Ń	MOTOR, NUMBER INDICATES HORSE POWER
RECEF	PTACLE ABBREVIATIONS	ዋ	DUPLEX CONVENIENCE OUTLET RATED 20A, 125V, U-SLOT GR FINISHED FLOOR TO CENTER LINE WITHIN CONCRETE CHAME SHALL BE AS NOTED ADJACENT TO THE SYMBOL. REFER TO F SPECIAL PURPOSE RECEPTACLES.
	GROUND FAULT CIRCUIT INTERUPTER. PERSONAL	J	JUNCTION BOX WITH BLANK COVERPLATE, SIZE AS REQUIRED
GFI	PROTECTION	LH	LIGHTING POWER HANDHOLE (COVER SHALL BE LABELED "LIC
WP	WEATHERPROOF RECEPTACLE WITH COVERPLATE LISTED	PH	POWER HANDHOLE (COVER SHALL BE LABELED "POWER")

DEMOLITION NOTES

- 1. THE ELECTRICAL CONTRACTOR WILL WORK IN CONJUNCTION WITH THE GENERAL CONTRACTOR TO DEMOLISH THE EXISTING ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR IS TO DEACTIVATE, DISCONNECT AND REMOVE THOSE SYSTEMS WHICH WILL BE DEMOLISHED. THE ELECTRICAL CONTRACTOR WILL REMOVE AND DISPOSE OF ALL ELECTRICAL SYSTEM MATERIALS INCLUDING DEVICES, FIXTURES, RACEWAYS, CABLE, MOTOR CONTROLS AND APPURTENANCES. SYSTEMS REQUIRING TOTAL AND/OR PARTIAL DEMOLITION SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING:
- A. NORMAL AND EMERGENCY POWER BRANCH CIRCUIT SYSTEM
- B. NORMAL LIGHTING SYSTEM
- C. EMERGENCY AND EXIT LIGHTING SYSTEM
- D. COMMUNICATIONS SYSTEM
- E. FIRE ALARM SYSTEM
- F. SECURITY SYSTEM
- 2. EXISTING SYSTEMS THAT ARE TO REMAIN AND BE PROTECTED DURING DEMOLITION/CONSTRUCTION INCLUDE:
- A. POWER DISTRIBUTION SYSTEM
- B. EXTERIOR LIGHTING SYSTEM
- C. HVAC SYSTEM AND POWER WIRING
- 3. SYSTEMS WHICH PASS THROUGH THE AREA BEING DEMOLISHED BUT CONTINUE TO AREAS NOT WITHIN THE DEMOLITION SCOPE ARE TO REMAIN. THE ELECTRICAL CONTRACTOR IS TO IDENTIFY (SPRAY PAINT OR EQUIVALENT) AND PROTECT THOSE SYSTEMS WHICH ARE ACTIVE AND ARE TO REMAIN.
- 4. ALL EXISTING CAST IN PLACE RECEPTACLE, PULL, JUNCTION AND OTHER DEVICE BOXES WHICH CANNOT BE REMOVED OR EFFECTIVELY COVERED ARE TO BE PROVIDED WITH FINISHED PLATES AS APPROVED BY THE ARCHITECT.
- 5. ALL CONDUIT AND WIRE WHICH IS NO LONGER IN USE IS TO BE REMOVED. CONDUIT AND WIRE IS TO BE REMOVED BACK TO ITS SOURCE OR NEAREST DEVICE WHICH IS SCHEDULED TO REMAIN. COORDINATE THE REMOVAL OF ALL COMMUNICATIONS CONDUIT AND WIRE WITH THE COMMUNICATIONS CONTRACTOR. FIRE ALARM CABLING IS TO BE RETURNED TO THE NEAREST DEVICE SCHEDULED TO REMAIN, CONTROL PANEL, TERMINAL CABINET, ETC. UNDER NO CIRCUMSTANCES ARE ABANDONED CONDUIT AND WIRE OR SYSTEM COMPONENTS TO REMAIN.
- 6. MAKE ANY NECESSARY RE-CIRCUITING, EXTENSIONS OF EXISTING CIRCUITS AND RELOCATIONS REQUIRED TO PROPERLY RE-ENERGIZE REMAINING EXISTING SERVICES OR EQUIPMENT THAT MAY BE INTERFERED WITH BY NEW CONSTRUCTION, REMOVALS OR RELOCATIONS. ALL SHUTDOWNS TO RELOCATE ACTIVE FEEDERS OR BRANCH CIRCUITS WILL BE PERFORMED ON OFF HOURS AS MUTUALLY AGREED TO WITH THE OWNER.
- 7. PRIOR TO REMOVAL OF EQUIPMENT, CONFIRM THAT FEEDER AND BRANCH CIRCUITS ARE NO LONGER ACTIVE. SHOULD IT BE DISCOVERED THE FEEDER OR BRANCH CIRCUITS ARE ACTIVE, NOTIFY THE ARCHITECT IMMEDIATELY FOR DIRECTION.
- 8. ELECTRICAL CONTRACTOR IS TO REMOVE ALL LAMPS, BALLASTS AND OTHER ELECTRICAL COMPONENTS CLASSIFIED AS HAZARDOUS MATERIALS. ELECTRICAL CONTRACTOR IS TO OBTAIN THE SERVICES OF A LICENSED HAZARDOUS MATERIALS CONTRACTOR TO DISPOSE OF THE MATERIALS. PROVIDE WRITTEN DOCUMENTATION TO THE OWNER'S REPRESENTATIVE FROM THE HAZARDOUS MATERIALS CONTRACTOR.
- 9. ELECTRICAL DEMOLITION ABBREVIATIONS:
- "EX" DENOTES EXISTING EQUIPMENT TO REMAIN

"RL" DENOTES EXISTING EQUIPMENT TO BE DISCONNECTED AND RELOCATED. ALL EXISTING CONDUIT AND WIRE SHALL BE REMOVED BACK TO ITS SOURCE AND ALL DEVICES ASSOCIATED WITH THE EQUIPMENT SHALL BE REMOVED OR ALL CONDUIT AND WIRE SHALL BE INTERCEPTED AND EXTENDED AS REQUIRED. ALL NEW CONDUIT AND WIRE SHALL MATCH EXISTING IN STYLE AND SIZE. ALL EXISTING ELECTRICAL DEVICES ASSOCIATED WITH THE EXISTING EQUIPMENT SHALL BE REMOVED AND NEW DEVICES AS SHOWN SHALL BE PROVIDED.

"NL" DENOTES NEW LOCATION OF RELOCATED EXISTING EQUIPMENT.

"RE" DENOTES EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED ALL EXISTING CONDUIT AND WIRE SHALL BE REMOVED BACK TO ITS SOURCE AND ALL DEVICES ASSOCIATED WITH THE EQUIPMENT SHALL BE REMOVED.

MBER OF #12 AWG CONDUCTORS
ICATED BY TICKS, NUMERALS 1 AND 3
N 1/2" AND CONDUCTORS LARGER
/IDE AN INSULATED GREEN GROUND

THE DRAWING.

ROUNDED TYPE MOUNTED 48" ABOVE BER. ALL OTHER MOUNTING HEIGHTS RECEPTACLE ABBREVIATIONS FOR

D BY N.E.C.

GHTING")

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT LOCATION, MOUNTING HEIGHTS, SIZE OF EQUIPMENT AND ROUTING OF RACEWAYS 30.CONDUIT AND TUBING SHALL BE SUPPORTED ON GALVA SHALL BE COORDINATED AND DETERMINED IN THE FIELD. 2. ALL STRAIGHT FEEDER, BRANCH CIRCUIT AND AUXILIARY SYSTEM CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 150 FEET. EXACT SIZES OF PULL BOXES AND LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ELECTRICAL CONTRACTOR.

- 3. FURNISH ALL REQUIRED ACCESS PANELS AS REQUIRED TO SUIT FIELD CONDITIONS FOR THE PROPER OPERATION AND MAINTENANCE OF THE ELECTRICAL SYSTEM. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL BE TO SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ALL ACCESS PANELS PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL MATCH EXACTLY THE ACCESS PANELS FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR. THE ACCESS PANELS WILL BE INSTALLED BY THE TRADE CONTRACTOR UNDER THE APPROPRIATE SECTION OF THE SPECIFICATIONS FOR THE SURFACE IN WHICH THE PANELS ARE LOCATED.
- 4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR AS APPLICABLE AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT; THE POWER WIRING, CONTROL WIRING AND ALL ELECTRICAL CONNECTIONS AND CONDUIT TURN-UPS 33. PANELBOARDS, DISCONNECT SWITCHES, AND CONTROLLERS SHALL HAVE NAMEPLATES OF BLACK LAMINATED PLASTIC WITH ENGRAVED SHALL BE COORDINATED WITH THE RESPECTIVE CONTRACTORS BEFORE THE START OF CONSTRUCTION IN THE FIELD.
- 5. SLEEVES ARE TO BE UTILIZED FOR PASSAGE OF CONDUITS THROUGH FLOORS OR WALLS. CONDUITS AND BOXES ARE TO BE SUPPORTED BY THE USE OF PRESET FASTENERS INSTALLED IN FLOORS, WALLS OR COLUMNS. CONDUITS AND BOXES ARE TO BE INSTALLED CONCEALED IN MASONRY WALLS AND ABOVE HUNG CEILINGS. ALL SLEEVES ARE TO BE SEALED WITH APPROVED FIRE STOPPING SEALANT.
- 6. COMBINED HOMERUNS OF TWO (2) OR THREE (3) CIRCUITS MAY BE UTILIZED. HOWEVER, THE NEUTRAL CONDUCTOR IS TO BE INCREASED TO #10AWG. COMBINED HOMERUNS ARE TO BE LIMITED TO 20A, LIGHTING AND POWER CIRCUITS.
- 7. INSTALLATION OF BACK TO BACK DEVICES ARE TO BE AVOIDED. ALLOW ONE WALL FRAMING MEMBER BETWEEN EACH BACK TO BACK DEVICE AS A MINIMUM. 8. WORK SHALL CONFORM TO THE MASSACHUSETTS ELECTRICAL CODE, MASSACHUSETTS BUILDING CODE, NFPA AND REQUIREMENTS OF
- 9. THE WORD "CONTRACTOR" AS USED IN THE "ELECTRICAL WORK" SHALL MEAN THE ELECTRICAL SUBCONTRACTOR.
- 10. CONTRACTOR SHALL PAY FOR ALL PERMITS, INSURANCE AND TESTS, AND SHALL PROVIDE LABOR AND MATERIAL TO COMPLETE THE ELECTRICAL WORK SHOWN.
- 11.EXCEPT AS OTHERWISE NOTED, THE ELECTRICAL WORK SHALL INCLUDE DEMOLITION, PANELBOARDS, CIRCUIT BREAKERS, FEEDERS, WIRING, RACEWAYS, LIGHTING FIXTURES, DEVICES, SAFETY SWITCHES, TRANSFORMERS AND CONNECTION NECESSARY TO OPERATE MOTORS AND OTHER EQUIPMENT.
- 12. AUTOMATIC TEMPERATURE CONTROLS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL SUBCONTRACTOR. STARTERS, VFD'S AND OTHER CONTROL DEVICES FOR EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL SUBCONTRACTOR FOR INSTALLATION AND CONNECTION BY THIS CONTRACTOR.
- 13. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY LIGHTING AND POWER AND THE GENERAL CONTRACTOR SHALL PAY ALL ENERGY CHARGES FOR TEMPORARY POWER AND LIGHTING.
- 14.DURING CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL KEEP HIS PORTION OF THE WORK NEAT, CLEAN AND ORDERLY.
- 15. ALL SYSTEMS SHALL BE TESTED FOR SHORT CIRCUIT AND GROUNDS PRIOR TO ENERGIZING AND ANY DEFECTS SHALL BE CORRECTED.
- 16. ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL WORK SHALL BE INCLUDED AS PART OF THIS SECTION.
- 17. COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ELECTRICAL EQUIPMENT. WHERE SPECIFIED ELECTRICAL EQUIPMENT IS SUBSTITUTED, THE ELECTRICAL CONTRACTOR SHALL SUBMIT COMPLETE SPECIFICATIONS ON THE SUBSTITUTE AS WELL AS THE ITEM ORIGINALLY SPECIFIED.
- 18 MATERIALS SHALL BE SPECIFICATION GRADE AND UL LISTED.

LOCAL AUTHORITIES HAVING JURISDICTION.

- 19. WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER, TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTIONS OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.
- 20. WORK SHALL BE COORDINATED WITH THAT OF OTHER TRADES TO ELIMINATE INTERFERENCES.
- 21.ELECTRICAL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL COMPLETION.
- 22.WORK SHALL BE GROUNDED IN ACCORDANCE WITH CODE REQUIREMENTS. COMPLETE EQUIPMENT (INSULATED GREEN WIRE) GROUNDING SYSTEM SHALL BE INSTALLED.
- 23.WIRE SHALL BE TYPE "THHN-THWN" INSULATED FOR 600 VOLTS, MINIMUM SIZE #12 AWG COPPER UNLESS SPECIFICALLY NOTED

24. WIRING METHODS:

UTTERWISE

- a. EXTERIOR UNDERGROUND FEEDERS SHALL BE PVC SCHEDULE 80 FOR DIRECT BURIED AND PVC SCHEDULE 40 FOR CONCRETE ENCASED.
- b. EXTERIOR ABOVE GRADE FEEDERS SHALL BE RGS CONDUIT.
- c. INTERIOR FEEDERS EXPOSED OR BURIED IN CONCRETE WALLS/SLABS SHALL BE RGS CONDUIT.
- d. INTERIOR BRANCH CIRCUITS FOR HVAC AND PLUMBING EQUIPMENT SHALL BE RGS. e. LIGHTING FIXTURE CONNECTIONS SHALL BE MC CABLE.
- f. EMERGENCY, CRITICAL AND LIFE/SAFETY BRANCH LIGHTING CIRCUITRY SHALL BE EMT CONDUIT.
- g. EQUIPMENT CONNECTIONS SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT
- 27.NO CONDUIT OR WIRE SHALL BE RUN IN OR BELOW SLAB WITHOUT ENGINEER APPROVAL OR NOTED OTHERWISE ON THE PLANS.

28. CONNECTORS FOR RIGID CONDUIT SHALL BE MADE WITH THREADED COUPLINGS.

29.CONNECTORS FOR FLEXIBLE LIQUID TIGHT CONDUIT SHALL BE STEEL COMPRESSION TYPE WITH INSULATED THROATS OR STEEL SET SCREW TYPE.

				LIGHTING FIXTURE SC	CHEDULE					
Γ	IVDE	TVDE				LAMP				DEMARKS
		HIFE	MANORACTORER		NO.	TYPE	MOONTING	VOLTAGE	LOAD	NEWIARKS
	S1	LED SINGLE FIXTURE POLE MOUNTED SITE LIGHTING	CREE LIGHTING	ARE-EDG-3ME-DA-08-E-UL-BZ-525	-	LED 9994 LUMENS 4000K 70CRI	POLE	208	90W	NOTE 1
	S2	LED DUAL FIXTURE POLE MOUNTED SITE LIGHTING	CREE LIGHTING	ARE-EDG-3ME-DA-08-E-UL-BZ-525	-	LED 9994 LUMENS 4000K 70CRI	POLE	208	180W	NOTE 1

NOTE:

1. PROVIDE 20' POLE ALUMINUM TAPPERED POLE

- MEANS OF TOGGLE BOLTS OR INSERTS IN WOOD CONST
- CEILING OR ON THE WALL SHALL HAVE SUITABLE FIXTURE SUPPORT FOR THE SPECIFIC FIXTURE.
- COVER INDICATING LOAD SERVED. PANELS SHALL INCLUDE SEPARATE EQUIPMENT GROUND BUS.
- WHITE LETTERS, SECURED WITH SELF-TAPPING SCREWS.
- 34. CONNECTIONS AT MOTORS SHALL BE MADE WITH 18" LENGTH OF 1/2 INCH FLEXIBLE LIQUID TIGHT CONDUIT.

OUTLET BOXES SPECIFIED.

- EXTERIOR TO THE BUILDING OR IN DAMP/WET LOCATIONS SHALL BE IN A NEMA 3R ENCLOSURE.
- 41.FURNISH AND INSTALL SLEEVES IN FLOORS, BEAMS, WALLS, ETC. REQUIRED FOR INSTALLING THIS WORK.
- 42.CONDUIT PASSING THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH ALL NECESSARY MATERIALS TO ENSURE THAT THE FIRE RATED INTEGRITY IS MAINTAINED.
- 43. FEEDER TAPS WILL NOT BE ALLOWED IN PANELBOARD GUTTERS.
- DETERMINED IN THE FIELD.
- DIMENSIONS RELEVANT TO EXISTING WORK SHALL BE VERIFIED IN THE FIELD.
- AS EXISTING PANEL AND CIRCUIT BREAKERS.
- OPERATIONAL SYSTEM.
- 49.ELECTRICAL SHUTDOWN SHALL BE AT A TIME AND DATE APPROVED BY THE OWNER. 50, PROVIDE AS-BUILT "CADD" DRAWINGS AT THE COMPLETION OF THE PROJECT.
- SWITCHES, PANELBOARDS, THERMAL MOTOR SWITCHES, CONTROL PANELS, JUNCTION BOXES, ETC. a. RECEPTACLES - PANEL NAME AND CIRCUIT DESIGNATION
- b. DISCONNECTS PANEL NAME, CIRCUIT DESIGNATION AND EQUIPMENT SERVING.
- d. ENCLOSED CIRCUIT BREAKERS PANEL NAME, CIRCUIT DESIGNATION AND EQUIPMENT SERVING.
- e. PANELBOARDS PANEL NAME, VOLTAGE, AMPERAGE, PHASE AS WELL AS PANEL AND CIRCUIT IT IS FED FROM.
- f. CONTROL PANEL PANEL NAME AND CIRCUIT DESIGNATION

52. ADDRESS QUESTIONS TO THE ENGINEER IN WRITING BEFORE AWARD OF CONTRACT, OTHERWISE ENGINEER INTERPERTATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.

ANIZED WALL BRACKETS.	TRAPEZE HANGERS OR PIPE STRAPS SECURED BY	
TRUCTION.		

WHERE BOXES OF A STANDARD MAKE ARE NOT AVAILABLE, SPECIAL BOXES SHALL BE MANUFACTURED. FIXTURES SUPPORTED ON THE

32.PANELBOARDS SHALL BE DEAD FRONT, THERMAL MAGNETIC BOLT-ON CIRCUIT BREAKER TYPE, DESIGNED FOR SURFACE OR FLUSH MOUNTING AS INDICATED ON PLAN, AND HAVING CONNECTIONS TO 120/208 OR 277/480 VOLT, 3 PHASE, 4 WIRE SERVICE. ALL BUS BARS SHALL BE COPPER. CABINETS SHALL BE MADE OF CODE GAUGE GALVANIZED SHEET STEEL, WITH A MINIMUM OF 4 INCH GUTTERS, DOOR IN DOOR CONSTRUCTION, LOCKED DOOR, AND FLUSH HINGES. TYPEWRITTEN INDEX SHALL BE MOUNTED ON DOOR INSIDE TRANSPARENT

35.CONTRACTOR SHALL PHASE BALANCE PANELBOARDS IN THE FIELD. LOAD ON EACH PHASE SHALL BE BALANCED WITHIN 10% OF EACH

36. WALL PLATES SHALL BE PROVIDED FOR EACH SWITCH AND RECEPTACLE. PROVIDE WALL PLATES WITH STAINLESS STEEL FINISH FOR ALL DEVICES IN FINISHED AREAS. FOR DEVICES IN UNFINISHED AREAS, PROVIDE CAST IRON OR ALLOY OF SUITABLE TYPE TO MATCH

37. TOGGLE SWITCHES SHALL BE OF THE SINGLE POLE A.C. QUIET TOGGLE TYPE FOR MOUNTING IN A SINGLE-GANG SPACING. TOGGLE SWITCHES SHALL BE FULLY RATED 20 AMPERES AT 120/277 VOLT.

38.DUPLEX WALL RECEPTACLES SHALL BE 2 POLE, 3 WIRE, GROUNDING TYPE 20 AMPERE, 125 VOLT WITH METAL PLASTER EARS. RECEPTACLES SHALL BE NEMA STANDARD CONFIGURATION 5-20R.

39.FUSED OR UNFUSED SAFETY SWITCHES SHALL BE TOTALLY ENCLOSED, HEAVY DUTY TYPE. SWITCHES SHALL HAVE VOLTAGE, HORSEPOWER AND AMPERE RATING SUITABLE FOR THE APPLICATION. PROVIDE NUMBER OF POLES AS REQUIRED. SWITCHES LOCATED

40.FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE, AS MANUFACURED BY BUSSMAN, RELIANCE OR APPROVED EQUAL.

44.CONDUIT RUNS AS SHOWN ON THE PLANS ARE DIAGRAMMATIC ONLY; EXACT LOCATION AND METHOD OF SUPPORT SHALL BE

45. CONTRACTOR SHALL CHECK EXISTING CONDITIONS TO DETERMINE EXACT EXTENT OF WORK TO BE PERFORMED PRIOR TO BIDDING.

46.IN AREAS NOT AFFECTED BY THIS RENOVATION, THIS SUBCONTRACTOR SHALL MAINTAIN CONTINUITY OF ELECTRIC SERVICE.

47. WHERE CONNECTIONS ARE MADE IN EXISTING PANELS, THE PANEL INDEX SHALL BE REVISED TO INDICATE THE NEW LOADS SERVED. NEW CIRCUIT BREAKERS ADDED TO EXISTING PANELS SHALL BE THE SAME FRAME SIZE, VOLTAGE RATING AND INTERRUPTING CAPACITY

48. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED POWER SUPPLIES, APPURTENANCES, FINAL CONNECTIONS, TESTING AND WORK REQUIRED FOR ADDITIONS TO THE EXISTING FIRE ALARM SYSTEM. PAY ALL COSTS ARISING THERE FROM, FOR A COMPLETE AND

51.ELECTRICAL CONTRACTOR SHALL LABEL ALL ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO RECEPTACLES, DISCONNECT

c. THERMAL MOTOR SWITCHES - PANEL NAME, CIRCUIT DESIGNATION AND EQUIPMENT SERVING.

g. JUNCTION BOXES - PANEL NAME AND CIRCUIT DESIGNATION

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Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100 Reading, MA 01867 978.532.1900 800.SAMPSON www.westonandsampson.com
Consultants:
Revisions:
No. Date Description
1 10/08/21 PER PEER REVIEW
2 11/01/21 PER PEER REVIEW 3 11/24/21 PER REVIEW COMMENTS
Issued For:
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Scale: AS SHOWN
Date: JULY 23, 2021
Drawn By: MK
Reviewed By: DNM
Approved By: RFM
W&S Project No · ENG20-0865
W&S File No.:
Drawing Title:
ELECTRICAL LEGEND, GENERAL NOTES & ABBREVIATIONS
Sheet Number:

3/4" X 8' COPPERWELD GROUND

NTS

TYPICAL DIRECT BURIED CONDUIT DETAIL

10/08/21	PER PEER REVIEW
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11/24/21	PER REVIEW COMMENTS
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BOXFORD PUBLIC

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Description

NOTES: 1. CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING SRPK1200 TRIP PLUG IN EXISTING SKHA36AT1200 AMP BREAKER WITH A NEW TRIP PLUG # SRPK1200A60.

HARRY LEE SCHOOL ONE-LINE

NTS

PANELBC DESIGNATION: PPL2 S.C. RATING: LOCATION: EXISTING ELECTRICAL CLOSET SERVICE: RATING: 200 AMPS MOUNTING: MAIN: 150 AMP MCB BREAKE CKT. LOAD DESIGNATION TRIP NO. 40 1 EV CHARGING STATION 3 -5 GENERATOR JACKET WATER HEATER 30 7 BATTERY CHARGER 20 9 SITE LIGHTS 20 11 --13 -15 SITE LIGHTS 20 17 --19 --21 SITE LIGHTS 20 23 --25 --27 SPARE 29 SPARE 20 20 31 SPARE 20 33 SPARE 20 35 SPARE 20 37SPARE39SPARE 20 20 41 SPARE 20

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E601