

# CITY OF NEWTON

# NEW SPORTS LIGHTING AT BRANDEIS ROAD FIELD, NEWTON SOUTH HIGH SCHOOL

140 BRANDEIS ROAD, NEWTON MA, 02459 PROJECT #22-21 / CONTRACT #L-6865

CITY OF NEWTON, MASSACHUSETTS Ruthanne Fuller, Mayor

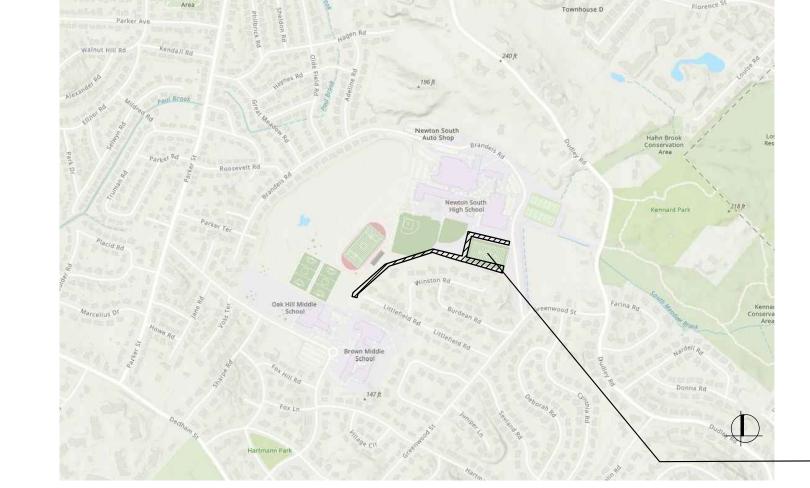
Nicole Banks, Commissioner Newton Parks, Recreation, and Culture Department 246 Dudley Road Newton, MA, 02459



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### **Locus Map**

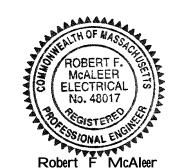


## BID DOCUMENTS

MAY 19, 2022

Prepared By
Weston & Sampson

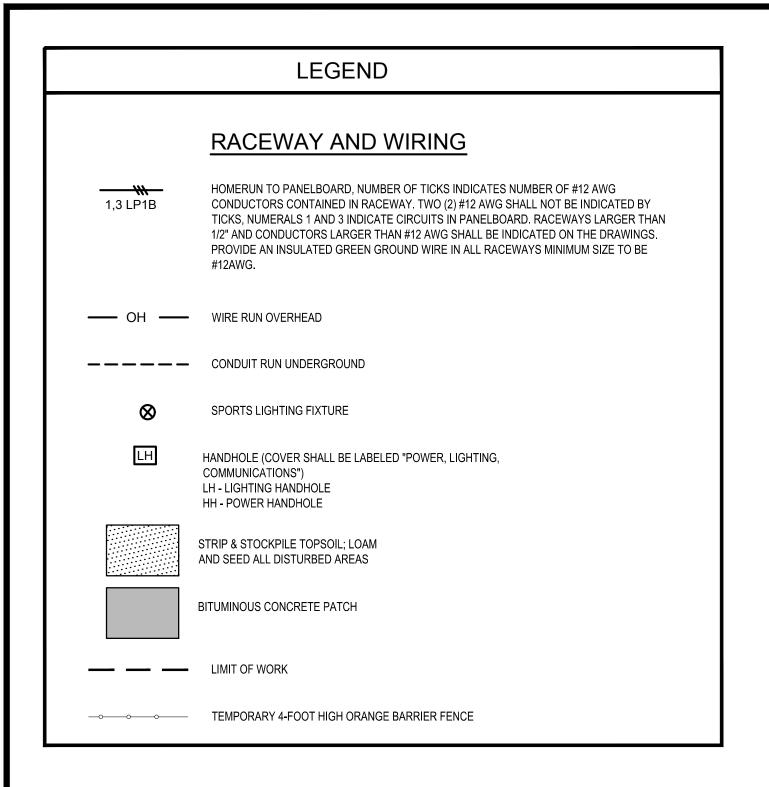
85 Devonshire St, 3rd Floor, Boston, MA 02109 (617) 412-4480 (800) Sampson www.westonandsampson.com
Contact: Cassie Bethoney

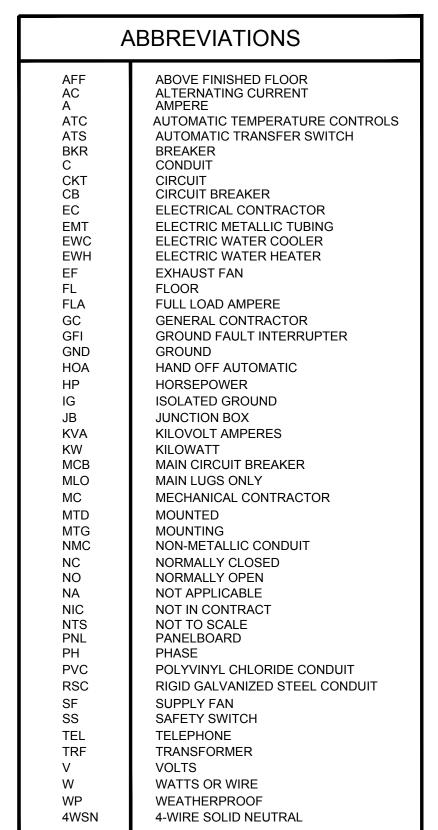




BRANDEIS ROAD FIELD

NEWTON SOUTH HIGH SCHOOL SPORTS FIELD
APPROXIMATE PROJECT AREA





RECEPTACLE ABBREVIATIONS

PERSONAL PROTECTION

GROUND FAULT CIRCUIT INTERUPTER,

WEATHERPROOF RECEPTACLE WITH

	WP	COVERPLATE LISTED FOR WET LOC AN ATTACHMENT PLUG INSERTED.		
EXISTING UTILITY PAD MOUNTED TRANSFORMER  EXISTING INCOMING SERVICE  EXISTING UTILITY METER/METER SOCKET  EXISTING EATON 225A PANEL LP2 WITH 150A MCB				
EXISTING 200A DISCONNECT  C1,C2  CABINET LIGHT EQUAL TO SIMKAR# VAPLEDC1150U1			- — —	
(7) 1"C EACH WITH 3#10 & 1#10G FROM (7) 30A-3P BREAKERS AND				
3/4"C., 2#12&1#12G 120V CONTROL POWER		MUSCO LIGHTING	C1	FIXTURE S1
		CONTROL CABINET #1	C2 C3	FIXTURE S2  FIXTURE S3
ELECTRICAL CABINET #1		(LCC1)	C4	FIXTURE S4
			C5	FIXTURE S5
PANEL PPH1			C6	FIXTURE S6
TVSS	1	<u></u>	C7	FIXTURE S1,S3,S4,S6
GFI <sub>C</sub>	3/4"C - 2#12	& 1#12 GND	 	
3/4"0	C - 2#12 & 1#12 GND	1500W HEATER WITH INTEGRAL THERMOSTAT		
ONE LINE DIAGRAM NOTES:				

1. TYPICAL FOR ALL CONTACTORS, CONTRACTOR SHALL RUN CONDUIT AND WIRING AS INDICATED

2. REPLACE EXISTING 150A MCB WITH NEW 200A MCB. NEW BREAKER SHALL MATCH EXISTING IN

4. REFER TO E100 FOR PANELBOARD, CONDUIT AND WIRE SCHEDULES.

5. REFER TO SITE PLAN ON DRAWING E100 FOR CONDUIT ROUTING.

3. PROVIDE A NEW 100A-3P CIRCUIT BREAKER IN EXISTING PANEL LP2 TO FEED NEW FIELD. UTILIZE

AN EXISTING SPACE FOR NEW BREAKER. NEW BREAKER SHALL MATCH EXISTING IN STYLE AND

STYLE AND AIC RATING

SOUTH HIGH SCHOOL ONE-LINE DIAGRAM

SCALE: NTS

IN SCHEDULE FROM EACH CONTACTOR TO DESIGNATED LIGHTING POLE. CONTRACTOR SHALL RUN CONDUIT TO 10'-0" AFG FOR CONNECTION TO POLE MOUNTED LIGHTING CONNECTION BOX.

#### **ELECTICAL GENERAL NOTES**

- 1. DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT LOCATION, MOUNTING HEIGHTS, SIZE OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
- 2. ALL STRAIGHT FEEDERS, BRANCH CIRCUITS AND AUXILIARY SYSTEM CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT HANDHOLES/PULL BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 200 FEET OR NO MORE THAN (3) 90 DEGREE BENDS. EXACT SIZES OF HANDHOLES/PULL BOXES AND LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ELECTRICAL CONTRACTOR.
- 3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL 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 SHALL BE COORDINATED WITH THE RESPECTIVE CONTRACTORS BEFORE THE START OF CONSTRUCTION IN THE FIELD.
- 4. WORK SHALL CONFORM TO THE MASSACHUSETTS ELECTRICAL CODE, MASSACHUSETTS BUILDING CODE, NFPA AND REQUIREMENTS OF LOCAL AUTHORITIES HAVING
- 5. THE WORD "CONTRACTOR" AS USED IN THE "ELECTRICAL WORK" SHALL MEAN THE ELECTRICAL SUBCONTRACTOR.
- 6. CONTRACTOR SHALL PAY FOR ALL PERMITS, INSURANCE AND TESTS, AND SHALL PROVIDE LABOR AND MATERIAL TO COMPLETE THE ELECTRICAL WORK SHOWN.
- 7. CONTRACTOR SHALL PAY ELECTRIC UTILITY COMPANY BACK CHARGES
- 8. CONTRACTOR SHALL PROVIDE ALL REQUIRED COORDINATION WITH EVERSOURCE AND OTHER UTILITIES AS REQUIRED.
- 9. ELECTRIC UTILITY WORK ORDER NUMBER FOR THIS PROJECT IS #2383830.

16. MATERIALS SHALL BE SPECIFICATION GRADE AND UL LISTED.

- 10. EXCEPT AS OTHERWISE NOTED, THE ELECTRICAL WORK SHALL INCLUDE PANELBOARDS, CIRCUIT BREAKERS, FEEDERS, WIRING, RACEWAYS, LIGHTING FIXTURES, OUTLETS AND
- 11. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY LIGHTING AND POWER AND THE GENERAL CONTRACTOR SHALL PAY ALL ENERGY CHARGES FOR TEMPORARY POWER AND LIGHTING.
- 12. DURING CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL KEEP HIS PORTION OF THE WORK NEAT, CLEAN AND ORDERLY.
- 13. ALL SYSTEMS SHALL BE TESTED FOR SHORT CIRCUIT AND GROUNDS PRIOR TO ENERGIZING AND ANY DEFECTS SHALL BE CORRECTED.
- 14. ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL WORK SHALL BE INCLUDED AS PART OF THIS SECTION.

ACCEPTANCE OR REJECTIONS OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.

- 15. 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.
- 17. WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER, TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY.
- 18. WORK SHALL BE COORDINATED WITH THAT OF OTHER TRADES TO ELIMINATE INTERFERENCES.
- to. Work of the best of the branch of the br
- 19. ELECTRICAL CONTRACTOR SHALL OBTAIN SHOP DRAWINGS/SPECIFICATIONS OF ALL EQUIPMENT FROM THE GENERAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLING ELECTRICAL EQUIPMENT FOR SAME. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL EQUIPMENT INSTALLED AND CONTRACT DOCUMENTS.
- 20. ELECTRICAL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL COMPLETION UNLESS A LONGER WARRANTY IS SPECIFIED ELSEWHERE.
- 21. WORK SHALL BE GROUNDED IN ACCORDANCE WITH CODE REQUIREMENTS. COMPLETE EQUIPMENT (INSULATED GREEN WIRE) GROUNDING SYSTEM SHALL BE INSTALLED.
- 22. WIRE SHALL BE TYPE "XLP" INSULATED FOR 600 VOLTS, MINIMUM SIZE #12 AWG COPPER UNLESS SPECIFICALLY NOTED OTHERWISE.

- \_\_\_\_\_
- 23. WIRING METHODS:

  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 CABINET FEEDERS SHALL BE RGS CONDUIT.
- 24. CONNECTORS FOR RIGID CONDUIT SHALL BE MADE WITH THREADED COUPLINGS.
- 25. BOXES SHALL BE GALVANIZED STEEL AND SHALL BE SIZED TO ACCOMMODATE THE EQUIPMENT OR APPARATUS TO BE INSTALLED. WHERE BOXES OF A STANDARD MAKE ARE NOT AVAILABLE, SPECIAL BOXES SHALL BE MANUFACTURED. FIXTURES SUPPORTED ON THE CEILING OR ON THE WALL SHALL HAVE SUITABLE FIXTURE SUPPORT FOR THE SPECIFIC FIXTURE.
- 26. 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 COVER INDICATING LOAD SERVED. PANELS SHALL INCLUDE SEPARATE EQUIPMENT GROUND BUS.
- 27. PANELBOARDS, DISCONNECT SWITCHES, AND CONTROLLERS SHALL HAVE NAMEPLATES OF BLACK LAMINATED PLASTIC WITH ENGRAVED WHITE LETTERS, SECURED WITH SELF-TAPPING SCREWS.
- 28. CONTRACTOR SHALL PHASE BALANCE PANELBOARDS IN THE FIELD. LOAD ON EACH PHASE SHALL BE BALANCED WITHIN 10% OF EACH OTHER.
- 29. WALL PLATES SHALL BE PROVIDED FOR EACH SWITCH AND RECEPTACLE OUTLET. PROVIDE CAST IRON OR ALLOY OF SUITABLE TYPE TO MATCH OUTLET BOXES SPECIFIED.
- 30. 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.
- 31. DUPLEX RECEPTACLES SHALL BE 2 POLE, 3 WIRE, GROUNDING TYPE 20 AMPERE, 125 VOLT WITH METAL PLASTER EARS. RECEPTACLES SHALL BE NEMA STANDARD
- 32. 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 EXTERIOR TO THE BUILDING OR IN DAMP/WET LOCATIONS SHALL BE IN A NEMA 3R ENCLOSURE.
- 33. FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE, AS MANUFACURED BY BUSSMAN, RELIANCE OR APPROVED EQUAL.
- 34. FEEDER TAPS WILL NOT BE ALLOWED IN PANELBOARD GUTTERS.
- 35. CONTRACTOR SHALL CHECK EXISTING CONDITIONS TO DETERMINE EXACT EXTENT OF WORK TO BE PERFORMED PRIOR TO BIDDING. DIMENSIONS RELEVANT TO EXISTING WORK SHALL BE VERIFIED IN THE FIELD.
- 36. ELECTRICAL SHUTDOWN SHALL BE AT A TIME AND DATE APPROVED BY THE OWNER.
- 37. PROVIDE AS-BUILT "CADD" DRAWINGS AT THE COMPLETION OF THE PROJECT.
- 38. ELECTRICAL CONTRACTOR SHALL LABEL ALL ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO RECEPTACLES, TEL/DATA OUTLETS, DISCONNECT SWITCHES, PANELBOARDS,
  - THERMAL MOTOR SWITCHES, CONTROL PANELS, JUNCTION BOXES, ETC.
    a. RECEPTACLES PANEL NAME AND CIRCUIT DESIGNATION
- b. MUSCO PANEL PANEL NAME, VOLTAGE, AMPERAGE, PHASE AS WELL AS PANEL AND CIRCUIT IT IS FED FROM.
- c. CONTROL PANEL PANEL NAME AND CIRCUIT DESIGNATION
  d. JUNCTION BOXES PANEL NAME AND CIRCUIT DESIGNATION
- 39. ADDRESS QUESTIONS TO THE ENGINEER IN WRITING BEFORE AWARD OF CONTRACT, OTHERWISE ENGINEERS INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.

#### SITE / LANDSCAPE GENERAL NOTES

- 1. ANY AREA OUTSIDE THE PROJECT LIMIT THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
- 2. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- 3. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC/PRIVATE ROADS, SEE SPECIFICATIONS.
- 4. ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES WHERE PROPOSED PAVEMENT MEETS
- EXISTING PAVEMENT. ALL PAVEMENT WIDTHS ARE NOTED ON THE LAYOUT PLAN.
- COORDINATE ALL LAYOUT ACTIVITIES WITH THE SCOPE OF WORK CALLED FOR BY DEMOLITION, GRADING AND UTILITIES OPERATIONS ENCOMPASSED BY THIS CONTRACT. SET, PROTECT AND REPLACE REFERENCE STAKES AS NECESSARY OR AS REQUIRED BY THE OWNER'S REPRESENTATIVE.
- 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.
- 7. 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.
- 8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
- 9. REFER TO DETAIL DRAWINGS FOR SITE CONSTRUCTION DETAILS.
- 10. ALL NEW PAVEMENT MUST CONFORM TO CURRENT AMERICANS WITH DISABILITIES ACT (ADA) 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) OF 4.5%. MINIMUM SLOPE ON ALL WALKWAYS WILL BE 1:100 OR 1% TO PROVIDE POSITIVE DRAINAGE. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER PRIOR TO CONTINUING WORK.
- 11. 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.
- 12. 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. BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
- 13. RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND SEED UNLESS OTHERWISE NOTED.
- 14. WHERE NEW IMPROVEMENTS MEET EXISTING CONDITIONS, MEET LINE AND GRADE OF EXISTING ADJACENT PAVEMENTS, TYPICAL.

DRY TYPE TRANSFORMER SCHEDULE 480-120/208V PRIMARY SECONDARY 480 VOLT 208 VOLT 480V FEEDER 120/208V GROUND KVA AMPS AMPS OVERCURRENT OVERCURRENT FEEDER CODE SIZE 15 50A, 3P 4#6 & 1#8G - 1"C. 30A, 3P 3#10 & 1#10G - 3/4"C. #8-3/4"C

Project:

IMPROVEMENTS TO

NEWTON HIGH SCHOOLS

LIGHTING



Veston & Sampson

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Consultants:

Revisions:

No. Date Description

ROBERT F.
MCALEER
ELECTRICAL
No. 48017

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Reviewed By: RFM

Approved By: RFM

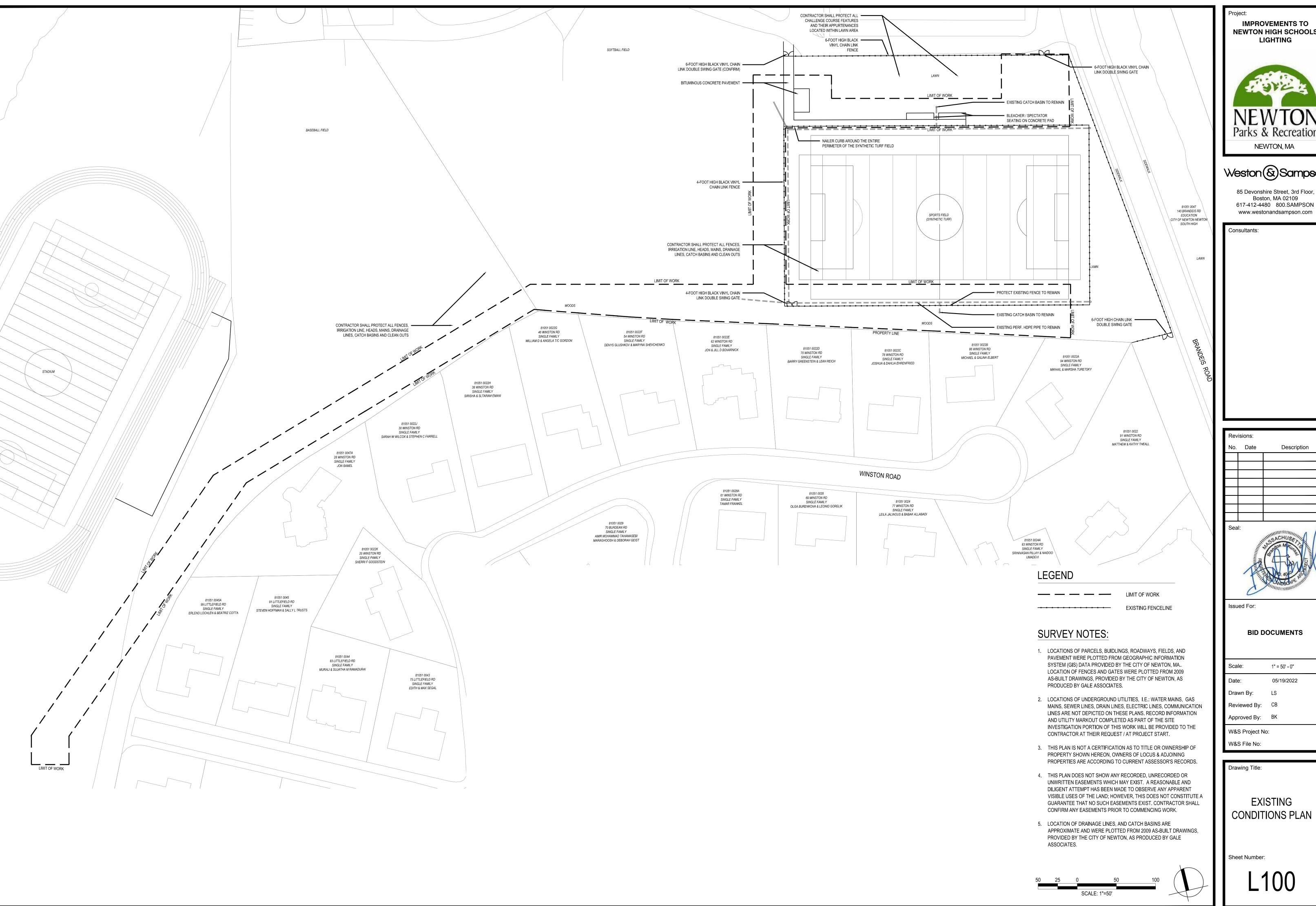
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LEGEND,
ABBREVIATIONS,
GENERAL NOTES
AND ONE LINE

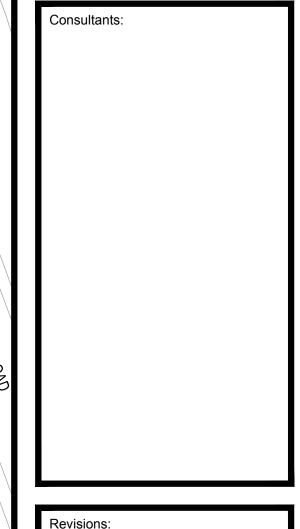
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**IMPROVEMENTS TO NEWTON HIGH SCHOOLS** LIGHTING NEWTON, MA

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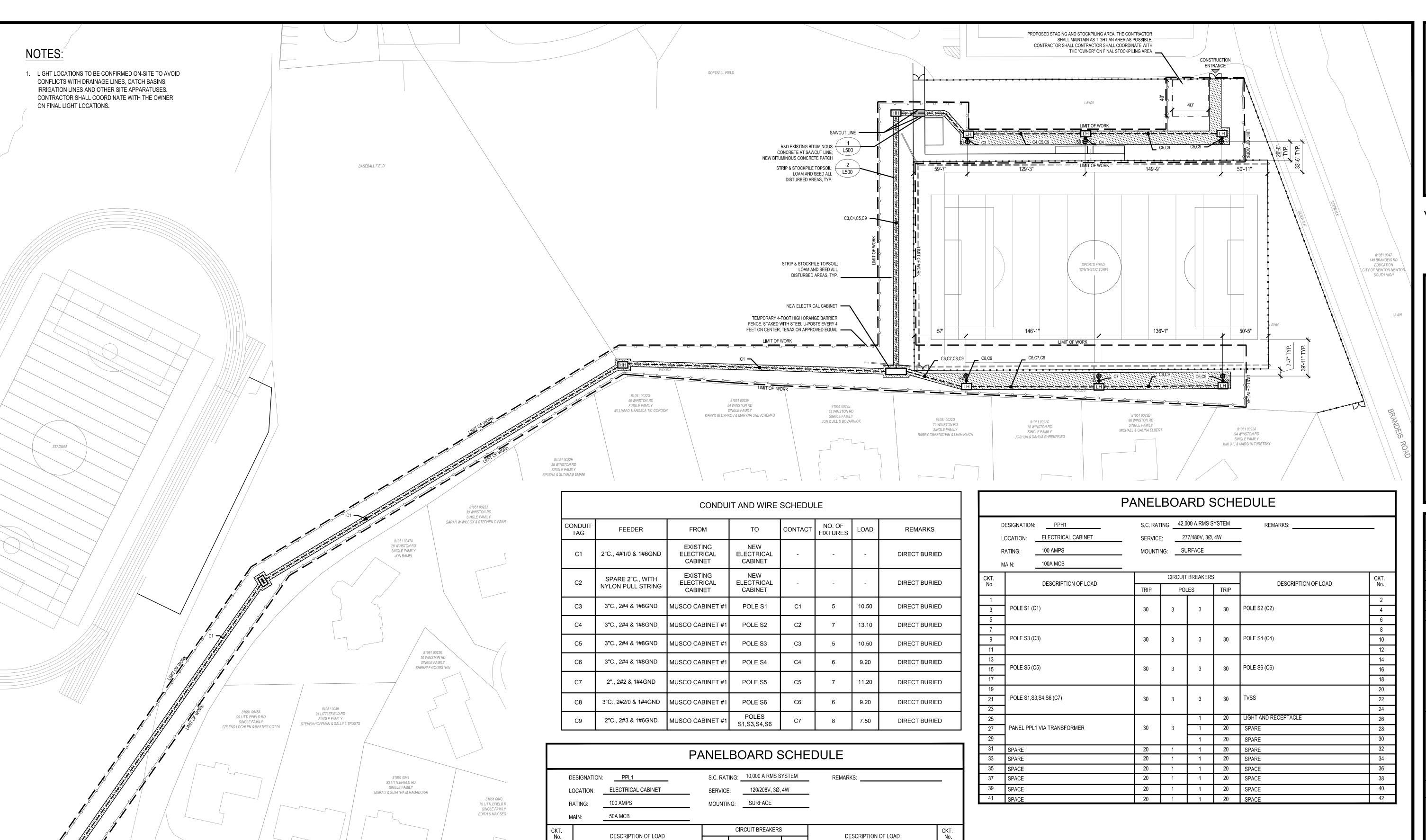


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1" = 50' - 0" 05/19/2022

**EXISTING CONDITIONS PLAN** 



DESCRIPTION OF LOAD

CABINET HEATER

11 SPARE

EXISTING FLECTRICAL CABINET

EXISTING PAD MOUNTED TRANSFORMER

MUSCO CONTROL CABINET

DESCRIPTION OF LOAD

2

4

8

10

TRIP

1 1 20 SPARE

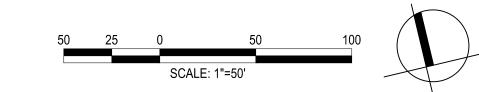
1 1 20 SPARE

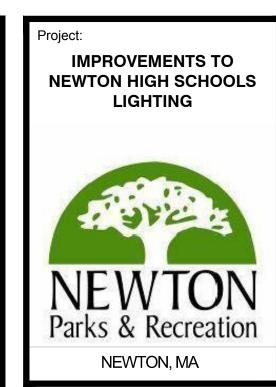
20 1 1 20 SPARE

1 20 LIGHT AND RECEPTACLE

POLES





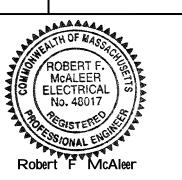


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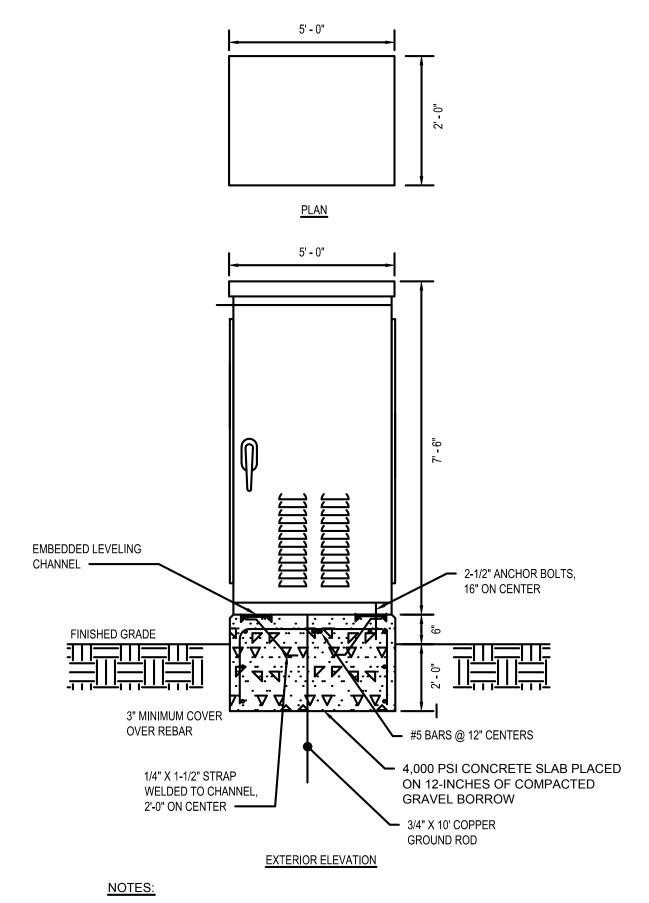
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SITE PLAN

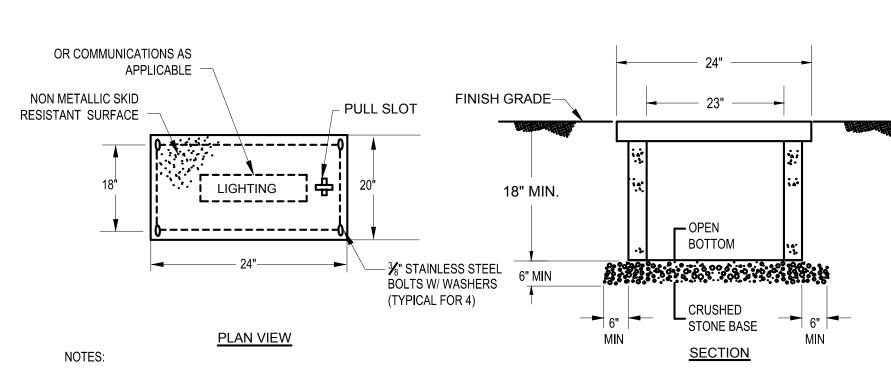
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1. CONTRACTOR SHALL COORDINATE WITH THE EXACT CABINET SIZE WITH ALL MANUFACTURER EQUIPMENT SIZES PRIOR TO SUBMITTING THE CABINET FOR APPROVAL. PROVIDE A SCALED DRAWING SHOWING ALL EQUIPMENT.

PAD MOUNTED NEMA 4X ELECTRICAL CABINET DETAIL

SCALE: NTS

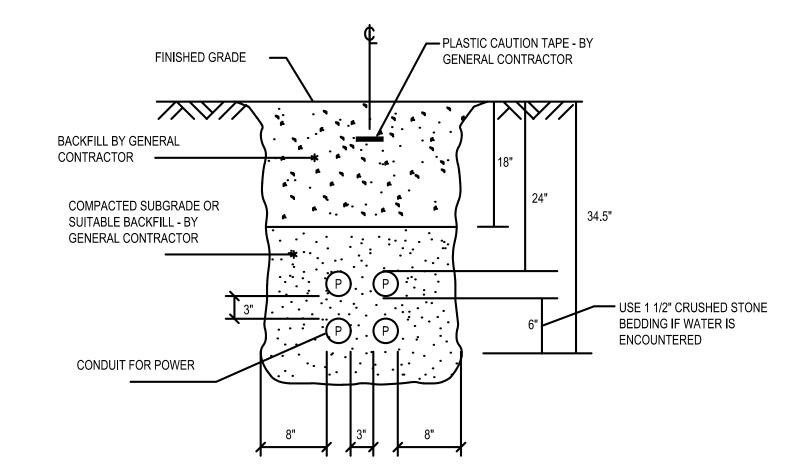


- 1. THIS HANDHOLE IS INTENDED FOR NON-DELIBERATE VEHICULAR TRAFFIC ONLY.
- 2. HANDHOLE SHALL BE PREFABRICATED POLYMER CONCRETE AGGREGATE EQUAL TO QUAZITE OR EQUAL PRE CAST CONCRETE
- 3. HANDHOLE DIMENSION ARE SHOWN FOR REFERENCE ONLY AND SIZE INDICATED IS MINIMUM.EXACT HADNHOLE SIZES SHALL BE BY THE CONTRACTOR.

PREFABRICATED HANDHOLE "LH" & "CH" DETAIL

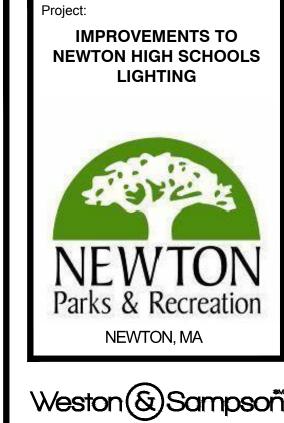
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LIGHT STRUCTURE — STEEL POLE SOIL BACKFILL NOTE:
THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH SOIL, WITH A CLASSIFICATION OF CLASS 5 (TABLE 1806.2) OR BETTER. COMPACTION, 95% FOR COHESIVE SOIL AND 98% FOR A COHESIONLESS SOIL BASED UPON STANDARD PROCTOR TESTING (ASTM D698). SOIL BACKFILL, SEE NOTE BELOW \_\_\_ LIGHT STRUCTURE PRECAST BASE CONCRETE BACKFILL L UNDISTURBED, 7 IN-SITU SOIL SUSPEND PRECAST BASE "Y" OFF BOTTOM OF EXCAVATION DURING MONOLITHIC CONC. BACKFILL PLACEMENT AND CURING. DRILLED PIER DIAMETER APPROXIMATE 30-36" DETERMINED BY MANUFACTURER.



TYPICAL DIRECT BURIED MULTIPLE CONDUIT DETAIL

SCALE: NTS



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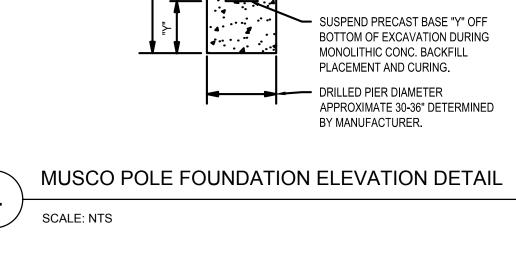
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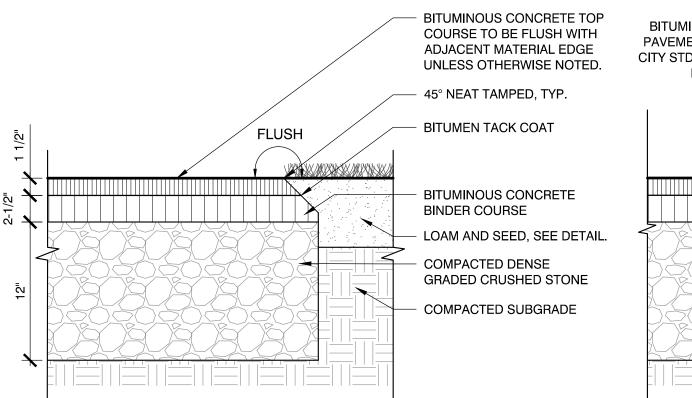
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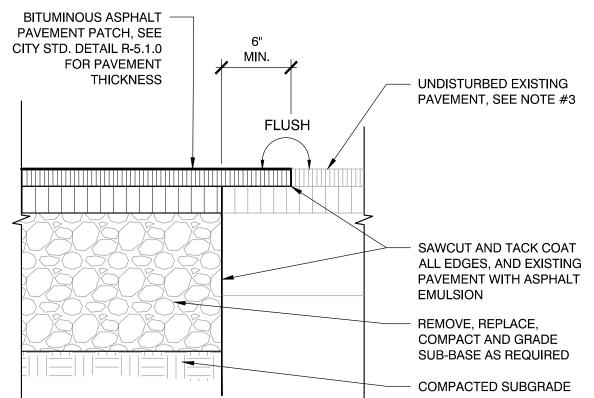
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**ELECTRICAL DETAILS** 

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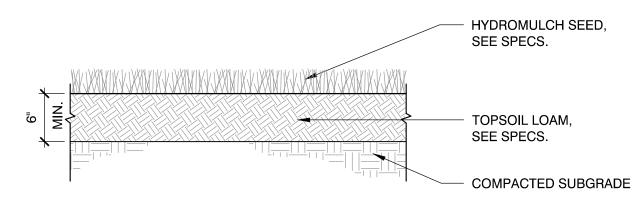




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- 1. ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES (E.G. EXISTING BITUMINOUS CONCRETE PAVEMENT AND NAILER CURB). AT EXISTING PAVEMENT SURFACES, SURFACE SHALL BE TREATED WITH AN RS-1 TACK COAT AT POINT OF CONNECTION. PROVIDE INFRARED TREATMENT AT ALL EDGES BETWEEN NEW AND EXISTING PAVEMENT.
- 2. ANY WORK REQUIRED BUT NOT SHOWN ON THE PLANS OR IN THE SPECS, SHALL CONFORM TO THE LATEST MASSDOT SPECIFICATIONS; SUBSECTION 460 HOT MIX ASPHALT FOR LOCAL STREETS.

NEW BITUMINOUS CONCRETE PATCH - TWO CONDITIONS



2

SCALE: N.T.S.

IMPROVEMENTS TO NEWTON HIGH SCHOOLS LIGHTING

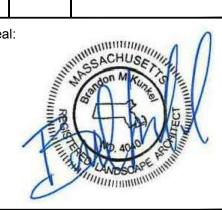
NEWTON Recreation
NEWTON, MA

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Approved By:	ВК	
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SITE CONSTRUCTION DETAILS

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