

O'DONNELL PARK IMPROVEMENTS PROJECT

1170 GORHAM STREET, LOWELL, MA



SEALS	CERTIFYING PROFESSIONALS	DRAWINGS
	CHERI RUANE, FASLA WESTON & SAMPSON, INC. 85 DEVONSHIRE STREET, 3RD FLOOR BOSTON, MA 02109	SHEETS L001-L303
	JAMES I. PEARSON, P.E. WESTON & SAMPSON, INC. 55 WALKERS BROOK DRIVE, SUITE 100 READING, MA 01867	SHEETS C100-300



- FOR ILLUSTRATIVE PURPOSES ONLY -

OWNER:
CITY OF LOWELL
DEPARTMENT OF PLANNING AND
DEVELOPMENT
50 ARCAND DRIVE
LOWELL, MA 01852

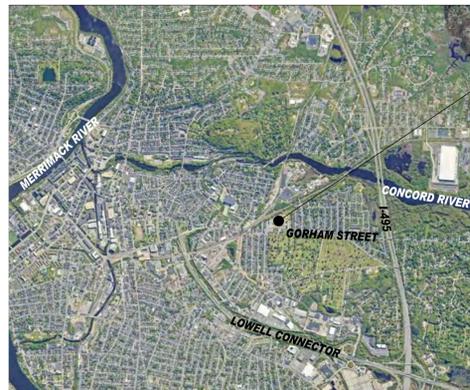
LANDSCAPE ARCHITECT/ENGINEER:
WESTON & SAMPSON ENGINEERS, INC
85 DEVONSHIRE STREET, 3RD FLOOR
BOSTON, MA 02109

SURVEYOR:
PRECISION LAND SURVEYING, INC.
32 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772

BID DOCUMENTS

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SITE
LOCATION

LOCATION MAP
NOT SCALE

SEPTEMBER 24, 2024

Prepared By



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GENERAL NOTES

- 1. SITE SURVEY AND TOPOGRAPHICAL INFORMATION BASED ON THE GROUND SURVEY PERFORMED BY PRECISION LAND SURVEYING, INC. APRIL 18, 2024.
2. PROPERTY LINES ARE APPROXIMATELY LOCATIONS AS PROVIDED FROM THE CITY OF LOWELL GIS DEPARTMENT ON 8/27/2024.
3. 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.
4. 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.
5. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION OF THE CONFLICT.
6. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY OWNER AT NO ADDITIONAL COST TO THE CITY OF PORTSMOUTH.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF EXCAVATION AND DEMOLITION REQUIRED TO RECEIVE SITE IMPROVEMENTS.
8. 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 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.
9. ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS-BUILT" DRAWINGS.
10. 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.
11. ALL WORK SHOWN ON THE PLANS AS BOLD SHALL REPRESENT PROPOSED WORK. THE TERM "PROPOSED (PROP)" INDICATES WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND SALVAGE (R&S)", OR REMOVE, RELOCATE, SALVAGE, (R&S).
12. ALL KNOWN EXISTING STATE, COUNTY AND CITY LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND ARE INDICATED ON THE PLANS.
13. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT HIS EMPLOYEES, AS WELL AS PUBLIC USERS FROM INJURY DURING THE ENTIRE CONSTRUCTION PERIOD USING ALL NECESSARY SAFEGUARDS, INCLUDING BUT NOT LIMITED TO, THE ERECTION OF TEMPORARY WALKS, STRUCTURES, PROTECTIVE BARRIERS, COVERING, OR FENCES AS NEEDED.
14. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.
15. FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE OWNER.
16. EXISTING TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. NO STOCKPILING OF MATERIAL, EQUIPMENT OR VEHICULAR TRAFFIC SHALL BE ALLOWED WITHIN THE DRIP LINE OF TREES TO REMAIN. NO GUYS SHALL BE ATTACHED TO ANY TREE TO REMAIN. WHEN NECESSARY OR AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL ERECT TEMPORARY BARRIERS FOR THE PROTECTION OF EXISTING TREES DURING CONSTRUCTION.
17. TREES AND SHRUBS WITHIN THE LIMITS OF WORK SHALL BE REMOVED ONLY UPON THE APPROVAL OF THE OWNER'S REPRESENTATIVE OR AS NOTED ON THE PLANS.
18. NO FILLING SHALL OCCUR AROUND EXISTING TREES TO REMAIN WITHOUT THE APPROVAL OF THE OWNER OR OWNERS REPRESENTATIVE.
19. THE CONTRACTOR SHALL REMOVE ALL SURFACE VEGETATION PRIOR TO GRADING THE SITE. TREES AND STUMPS SHALL BE REMOVED AND DISPOSED COMPLETE BY CONTRACTOR. TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS (INCLUDING SILT FENCE, STRAW WATTLES, OR SILT SOCKS) SHALL BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE PROJECT WHICH COST SHALL BE INCIDENTAL TO THE PROJECT.
20. ALL UNSUITABLE UNCONTAMINATED EXCESS SOIL FROM CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. REMOVAL ACTIVITIES SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS AT NO ADDITIONAL COST TO THE CITY. SUITABLE SOIL EXCAVATION AS PART OF THE PROJECT MUST MEET ONE OR MORE OF THE MATERIAL REQUIREMENTS SPECIFIED. ON-SITE FILL MATERIALS, WHICH DO NOT CONFORM TO THE SPECIFICATIONS, SHALL NOT BE USED BELOW ANY STRUCTURES. IF THE CONTRACTOR PROPOSES TO USE THE EXISTING FILL ON SITE BELOW PAVEMENT AREAS, HE MUST DEMONSTRATE THAT THE FILL MEETS THE REQUIREMENTS PER THE SPECIFICATIONS. ALL EXCAVATED FILL MATERIAL WHICH DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT NO ADDITIONAL COST.
21. CONTRACTOR IS RESPONSIBLE FOR STAKING CONSTRUCTION BASELINES IN FIELD WITH A MASSACHUSETTS REGISTERED PROFESSIONAL LAND SURVEYOR. NO CONSTRUCTION WILL BE PERFORMED WITHOUT THE PROPOSED BASELINES AND LAYOUTS APPROVED BY THE OWNER'S REPRESENTATIVE.
22. NO FILL SHALL CONTAIN HAZARDOUS MATERIALS.
23. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AROUND PERIMETER OF WORK AREA (LIMIT OF WORK). FENCE SHALL NOT IMPEDE TRAVEL WAYS.
24. ANY QUANTITIES SHOWN ON PLANS ARE FOR COMPARATIVE BIDDING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE PROJECT SITE TO VERIFY ALL QUANTITIES AND CONDITIONS PRIOR TO SUBMITTING BID.
25. 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, 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.
26. CONTRACTOR'S STAGING AREA MUST BE WITHIN THE CONTRACT LIMIT LINE AND IN AREAS APPROVED BY OWNER. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED WITH THE OWNER.
27. THE CONTRACTOR SHALL KEEP ALL STREETS, PARKING LOTS 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.
28. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
29. CONTRACTOR SHALL DEWATER AS NECESSARY TO PERFORM THE PROPOSED WORK. CONTRACTOR SHALL BE AWARE OF PERCHED GROUNDWATER.
30. THE LIMIT OF WORK SHALL BE DELINEATED IN THE FIELD PRIOR TO THE START OF SITE CLEARING OR CONSTRUCTION AND AGREED UPON WITH THE OWNER'S REPRESENTATIVE.
31. DEEP SUMP CATCH BASINS AND STORMWATER BASIN SHALL BE CLEANED FOLLOWING CONSTRUCTION AND SHALL FOLLOW THE OPERATION AND MAINTENANCE PLAN THEREAFTER.
32. HAULING OF EARTH MATERIALS TO AND FROM THE SITE SHALL BE RESTRICTED TO THE HOURS OF 7 AM TO 5 PM.
33. ANY BOULDERS 3 CY OR SMALLER SHALL BE CONSIDERED UNDOCUMENTED FILL AND SHALL BE DISPOSED OF AT NO ADDITIONAL COST TO THE CITY.
34. WORK ON SATURDAYS SHALL ONLY BE CONDUCTED IF PRIOR WRITTEN PERMISSION IS PROVIDED BY THE CITY.
35. NO TRUCKS LEFT IDLING ON CITY STREETS DURING CONSTRUCTION. CONSTRUCTION TRAFFIC AT NO TIME SHALL IMPEDE FLOW OF RESIDENT TRAFFIC.

EROSION & SEDIMENT CONTROL NOTES

- 1. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PUT INTO PLACE PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION. REFER TO PLANS FOR APPROXIMATE LOCATION OF EROSION AND SEDIMENT CONTROL. REFER TO SPECS 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. AND THE CITY OF LOWELL WETLAND ORDINANCE REGULATIONS FOR SEDIMENT AND EROSION CONTROL.
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. ALL CATCH BASINS AND DRAIN GRATES WITHIN LIMIT OF CONTRACT SHALL BE PROTECTED WITH SILT SACKS DURING THE ENTIRE DURATION OF CONSTRUCTION.
6. EROSION CONTROL BARRIERS TO BE INSTALLED AT THE TOE OF SLOPES. SEE PER SHEET L200, DETAILS AND SPECIFICATIONS.
7. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY OWNER.
8. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC/PRIVATE ROADS.
9. CONSTRUCTION FENCE: CONTRACTOR IS RESPONSIBLE FOR SECURING THE SITE THROUGH INSTALLATION OF TEMPORARY CHAIN LINK FENCE AND RELOCATING AS REQUIRED. PARTICULAR ATTENTION SHALL BE PAID TO PROTECTING TRENCHES FROM THE PUBLIC.
10. REFER TO UTILITY/DRAINAGE PLANS, AND GRADING PLANS FOR SPECIFIC INFORMATION ON EACH PARTICULAR ASPECT OF WORK TO BE COMPLETED WITHIN THE PHASE OF WORK OUTLINED ON THIS DRAWING.
11. TEMPORARY STOCKPILES SHALL BE PROTECTED FROM EROSION BY SURROUNDING THEM WITH SEDIMENT BARRIERS.

DEMOLITION & SITE PREPARATION NOTES

- 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 OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE AT NO ADDITIONAL COST.
3. UNLESS SPECIFICALLY NOTED TO BE REMOVED / SALVAGED (R&S), ALL SITE FEATURES CALLED FOR REMOVAL (REM) 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.
4. 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.
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 THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
6. IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER, TO REUSE EXISTING GRAVEL IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS FOR GRAVEL BORROW.
7. REMOVE AND DISPOSE EXISTING LAWN SHALL INCLUDE STRIP AND STOCKPILE OF EXISTING TOPSOIL, REMOVAL OF GRASS, SHRUBS, AND UNDERBRUSH, REMOVAL OF ROOTS, ROUGH GRADING, INSTALLATION OF LOAM (IF APPLICABLE), FINE GRADING, SEEDING AND TURF ESTABLISHMENT BY THE CONTRACTOR.
8. TREES DESIGNATED FOR REMOVAL SHALL BE TAGGED BY CONTRACTOR AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
9. THE STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED AT LOCATIONS DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. PROTECTION OF STORED MATERIALS AND EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. LOAM / TOP SOIL SHALL NOT BE REUSED AS GENERAL FILL.
11. THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN. CONTRACTOR SHALL INSTALL TREE PROTECTION BARRIER AFTER CLEARING UNDERBRUSH AND TAKE DUE CARE TO PREVENT INJURY TO TREES DURING CLEARING OPERATIONS.

LAYOUT & MATERIALS NOTES

- 1. REFER TO SURVEY FOR SURVEY INFORMATION (SHEET L002-003).
2. 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.
3. ALL WORK SHALL BE PERFORMED BY CONTRACTOR UNLESS SPECIFICALLY INDICATED THAT THE WORK WILL BE PERFORMED "BY OTHERS" OR "UNDER SEPARATE CONTRACT".
4. 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. SOME ITEMS ARE "NOT IN CONTRACT" (NIC) AND SHOWN FOR REFERENCE ONLY.
5. THE LAYOUT OF SITE AMENITIES AND FENCES MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
6. THE LAYOUT OF ALL NEW PATHWAYS / WALKWAYS AND THE GRADING OF ALL SLOPES AND CROSS SLOPES SHALL CONFORM TO THE STATE OF MASSACHUSETTS RULES AND REGULATIONS, AND THE AMERICANS WITH DISABILITIES ACT (ADA), TITLE 3. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE REQUIRED.
7. ALL LAYOUT LINES, OFFSETS, OR REFERENCES TO LOCATING OBJECTS ARE EITHER PARALLEL OR PERPENDICULAR UNLESS OTHERWISE DESIGNATED WITH ANGLE OFFSETS NOTED.
8. 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 LAYOUT SHALL BE PERFORMED BY A MA REGISTERED PROFESSIONAL LAND SURVEYOR.
9. ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES. ALL BITUMINOUS CONCRETE 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.
10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENT OF ALL PROPOSED FENCES AND GATES.
12. THE DEPTH OF LOAM BORROW FOR ALL PROPOSED LAWN AREAS SHALL BE 6" MINIMUM. ALL DISTURBED AREAS SHALL BE RESTORED WITH LOAM AND SEED UNLESS OTHERWISE NOTED.
13. SURVEY CONTROL POINTS AND COORDINATES ARE INDICATED ON THE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT OR CREATE HIS OWN PROTECTED CONTROL POINTS FROM THIS INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL LAYOUT POINTS ARE CONSISTENT WITH CONTROL INFORMATION. RESETTNG OF DAMAGED OR MISSING LAYOUT MARKERS AS NECESSARY IS AT NO ADDITIONAL COST TO THE OWNER.

GRADING, DRAINAGE AND UTILITY NOTES

- 1. ALL WORK RELATING TO INSTALLATION, RENOVATION OR MODIFICATION OF WATER, DRAINAGE AND/OR SEWER SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE CITY OF PORTSMOUTH DPW.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
3. ALL GRADING IS TO BE SMOOTH AND CONTINUOUS WHERE PROPOSED SURFACES MEET EXISTING SURFACES. ELIMINATE ROUGH SPOTS AND ABRUPT GRADE CHANGES AND MEET LINE AND GRADE OF EXISTING CONDITIONS WITH NEW IMPROVEMENTS.
4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE (1.5% MINIMUM) AWAY FROM ALL BUILDING FOUNDATIONS AND STRUCTURES.
5. CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY PITCHED TO DRAIN, WITH NO SURFACE WATER PONDING OR PUDDLING.
6. MINIMUM CROSS SLOPE ON ALL WALKWAYS WILL BE 1% OR 1.5% TO PROVIDE POSITIVE DRAINAGE. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER PRIOR TO CONTINUING WORK.
7. 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. ALL UTILITY GRATES WITHIN PLAYING FIELDS OR INDICATED TO BE "BURIED" SHALL BE 4" BELOW FINISH GRADE AND COVERED WITH FINISH MATERIAL INDICATED ON PLANS.
8. THE CONTRACTOR SHALL 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 AS NEEDED AND AT THE END OF THE PROJECT.
9. 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 COST TO THE OWNER.
10. 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.
11. WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED, BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
12. RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND SEED (L&S) UNLESS OTHERWISE NOTED.
13. SEE EARTHWORK SECTION OF SPECIFICATIONS FOR SPECIFIC EXCAVATION AND FILLING PROCEDURES.
14. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS, STRUCTURE RIMS AND INVERTS, ALONG WITH PIPE SIZES AND CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MAKE THE ENGINEER AWARE OF ANY DISCREPANCIES OR POOR UTILITY PIPES/CONDUITS, APPARATUSSES OR STRUCTURE CONDITION PRIOR TO CONSTRUCTION

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes entries like A.A.A. ABANDON, ADJ. ADJUST, B.M. BENCH MARK, BIT. CONC. BITUMINOUS CONCRETE, BVCL BLACK VINYL CHAIN LINK, CEM. CONC. CEMENT CONCRETE, CLF CHAIN LINK FENCE, CTE CONNECT TO EXISTING, E.C. ELECTRICAL CONTRACTOR, EOP EDGE OF PAVEMENT, EQ EQUIPMENT, EXIST. (OR EX.) EXISTING, F.L. (OR F) FLOW LINE, FDN FOUNDATION, FINISHED FLOOR FINISHED FLOOR, G.C. GENERAL CONTRACTOR, GRAN.CURB GRANITE CURB, H.C. HANDICAP, HMA HOT MIX ASPHALT, L.O.W LIMIT OF WORK, MB MAIL BOX, NIC NOT IN CONTRACT, P PROPERTY LINE, P.C. PLUMBING CONTRACTOR, PROP. PROPOSED, PROT. PROTECT, P&P PROTECT AND PRESERVE, P&S PROTECT AND SALVAGE, PAVMT PAVEMENT, R&D REMOVE AND DISPOSE, R&S REMOVE AND SALVAGE, R&S REMOVE, RELOCATED AND SALVAGE, R.O.W. RIGHT-OF-WAY, REM REMOVE, RET RETAIN, S&S STRIP AND STOCKPILE, TEMP. TEMPORARY, TYP. TYPICAL, VIF VERIFY IN FIELD, WCR WHEELCHAIR RAMP

UTILITIES

Table with 2 columns: Abbreviation and Full Name. Includes entries like ACCM PIPE ASPHALT COATED CORRUGATED METAL PIPE, C.I.T. CHANGE IN TYPE, CB CATCH BASIN, CBCI CATCH BASIN W/ CURB INLET, C.I. CURB INLET, CI CAST IRON, CMP CAST-IN-PLACE, CMP CORRUGATED METAL PIPE, CO CLEANOUT, CU CONNECTION UNKNOWN, DI DRAIN INLET, DMH DRAIN MANHOLE, DS DOWN SPOUT, F&C FRAME AND COVER, F&G FRAME AND GRATE, GI GUTTER INLET, GICI GUTTER INLET W/ CURB INLET, GV GATE VALVE, GW GARAGE WASTE, HDPE HIGH DENSITY POLYETHYLENE PIPE, HH HANDHOLE, HYD HYDRANT, INV.ELEV. INVERT ELEVATION, LB LEACHING BASIN, LC LEACHING CHAMBER, LG LEACHING GALLEY, LP LIGHT POLE, OCS OUTLET CONTROL STRUCTURE, OGT OIL AND GRIT TRAP, OHW OVERHEAD WIRE, PVC POLYVINYL CHLORIDE, RCP REINFORCED CONCRETE PIPE, SMH SEWER MANHOLE, SWTU STORM WATER TREATMENT UNIT, UP UTILITY POLE, UPLP UTILITY POLE WITH LIGHT, VC VITRIFIED CLAY PIPE, WG WATER GATE

ALIGNMENT/GRADING

Table with 2 columns: Abbreviation and Full Name. Includes entries like BC BOTTOM OF CURB, BW BOTTOM OF WALL, CC CENTER OF CURVE, ELEV ELEVATION, H.P. HIGH POINT, L.P. LOW POINT, TC TOP OF CURB, TW TOP OF WALL

CITY OF LOWELL logo and address: 1170 GORHAM STREET, LOWELL, MA

Weston & Sampson logo and contact information: 978.532.1900, 800.SAMPSON, www.westonandsampson.com

Table for Revisions with columns: No., Date, Description

Table for COA (Certificate of Approval) with columns: No., Date, Description

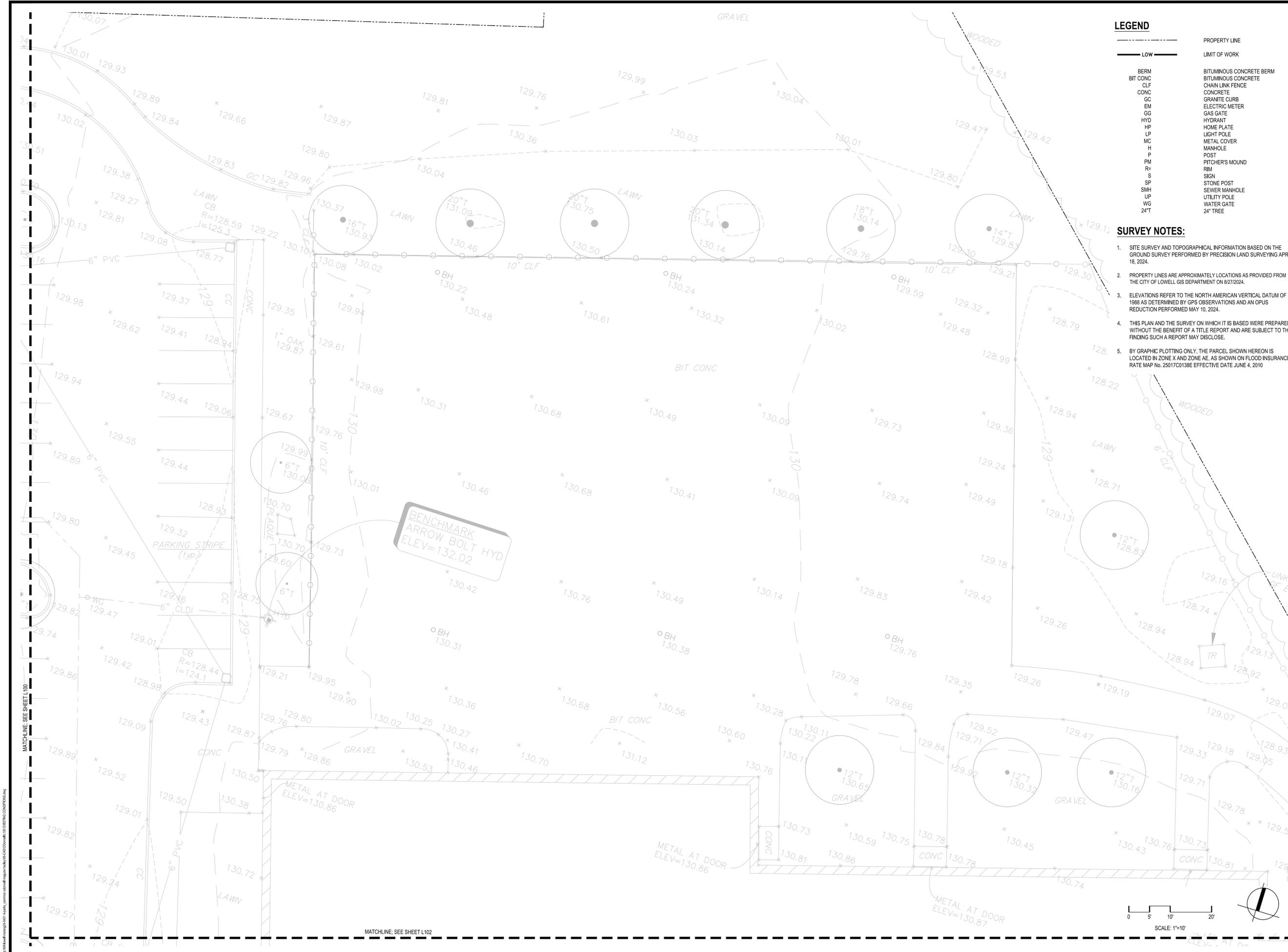
Seal of the State of Massachusetts, Professional Land Surveyor No. 1220

BID DOCUMENTS title block

Table with project details: Date (SEPTEMBER 24, 2024), Drawn By (JJB), Reviewed By (JL/CR), Approved By (CR), W&S Project No. (ENG24-0401), W&S File No. (---)

Drawing Title: GENERAL NOTES

Sheet Number: L001



LEGEND

-----	PROPERTY LINE
-----	LIMIT OF WORK
○	BERM
○	BIT CONC
○	CLF
○	CONC
○	GC
○	EM
○	GG
○	HYD
○	HP
○	LP
○	MC
○	H
○	P
○	PM
○	R
○	S
○	SP
○	SMH
○	UP
○	WG
○	24" T
○	BITUMINOUS CONCRETE
○	CHAIN LINK FENCE
○	CONCRETE
○	GRANITE CURB
○	ELECTRIC METER
○	GAS GATE
○	HYDRANT
○	HOME PLATE
○	LIGHT POLE
○	METAL COVER
○	MANHOLE
○	POST
○	PITCHER'S MOUND
○	RM
○	STONE POST
○	SEWER MANHOLE
○	UTILITY POLE
○	WATER GATE
○	24" TREE

SURVEY NOTES:

1. SITE SURVEY AND TOPOGRAPHICAL INFORMATION BASED ON THE GROUND SURVEY PERFORMED BY PRECISION LAND SURVEYING APRIL 18, 2024.
2. PROPERTY LINES ARE APPROXIMATELY LOCATIONS AS PROVIDED FROM THE CITY OF LOWELL GIS DEPARTMENT ON 8/27/2024.
3. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AS DETERMINED BY GPS OBSERVATIONS AND AN OPUS REDUCTION PERFORMED MAY 10, 2024.
4. THIS PLAN AND THE SURVEY ON WHICH IT IS BASED WERE PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND ARE SUBJECT TO THE FINDING SUCH A REPORT MAY DISCLOSE.
5. BY GRAPHIC PLOTTING ONLY, THE PARCEL SHOWN HEREON IS LOCATED IN ZONE X AND ZONE AE, AS SHOWN ON FLOOD INSURANCE RATE MAP No. 25017C0138E EFFECTIVE DATE JUNE 4, 2010

Project: CITY OF LOWELL

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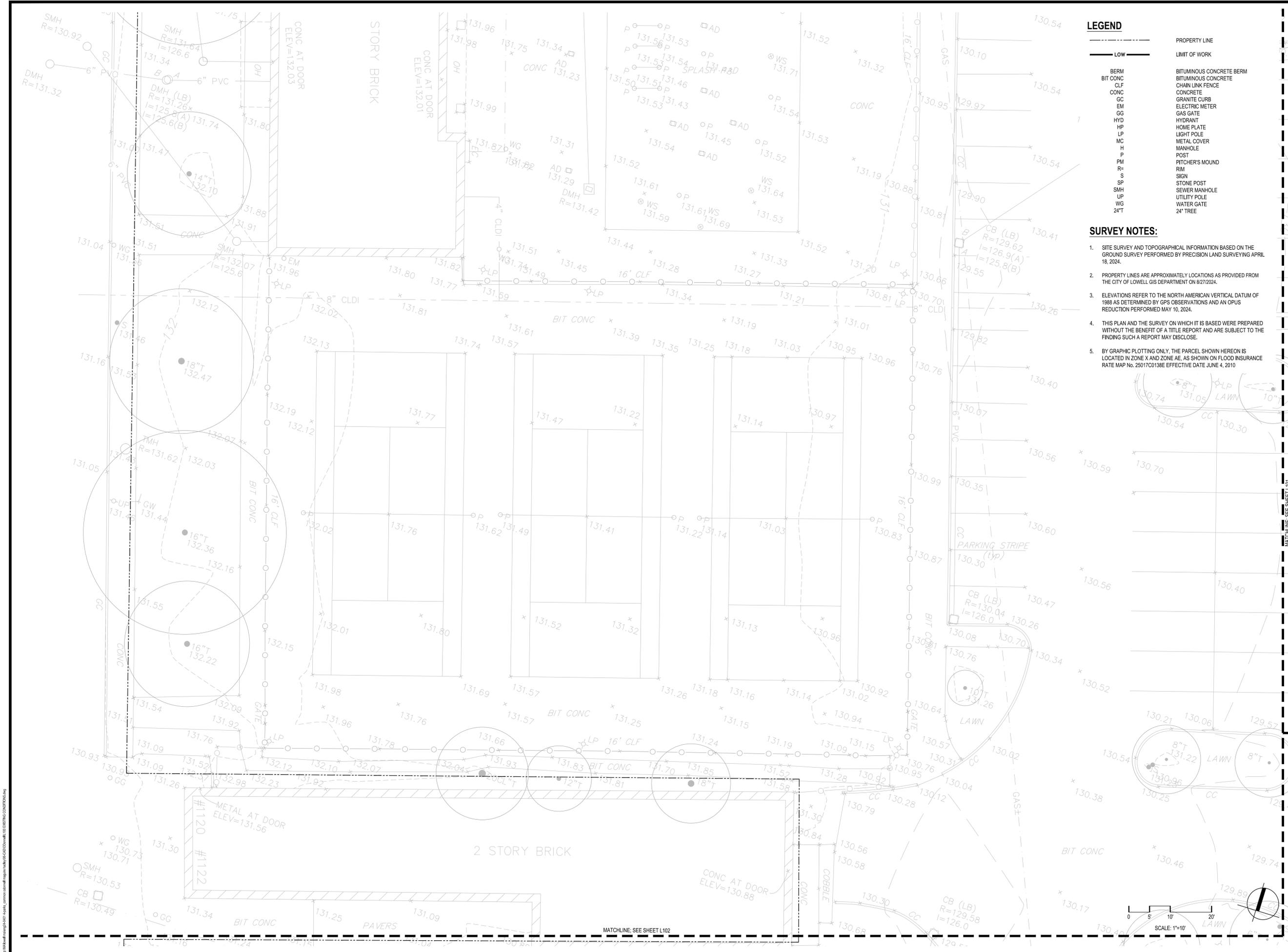
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 W&S File No.: ---

Drawing Title: **EXISTING CONDITIONS PLAN**

Sheet Number: **L100**



LEGEND

---	PROPERTY LINE
---	LIMIT OF WORK
BERM	BITUMINOUS CONCRETE BERM
BIT CONC	BITUMINOUS CONCRETE
CLF	CHAIN LINK FENCE
CONC	CONCRETE
GC	GRANITE CURB
EM	ELECTRIC METER
GG	GAS GATE
HYD	HYDRANT
HP	HOME PLATE
LP	LIGHT POLE
MC	METAL COVER
H	MANHOLE
P	POST
PM	PITCHER'S MOUND
R	RIM
S	STONE POST
SP	SEWER MANHOLE
SMH	UTILITY POLE
UP	WATER GATE
WG	24' TREE

SURVEY NOTES:

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 W&S File No.: ---

Drawing Title: **EXISTING CONDITIONS PLAN**

Sheet Number: **L101**

Consultants:

- Revisions:**
- | No. | Date | Description |
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Drawing Title: **EXISTING CONDITIONS PLAN**

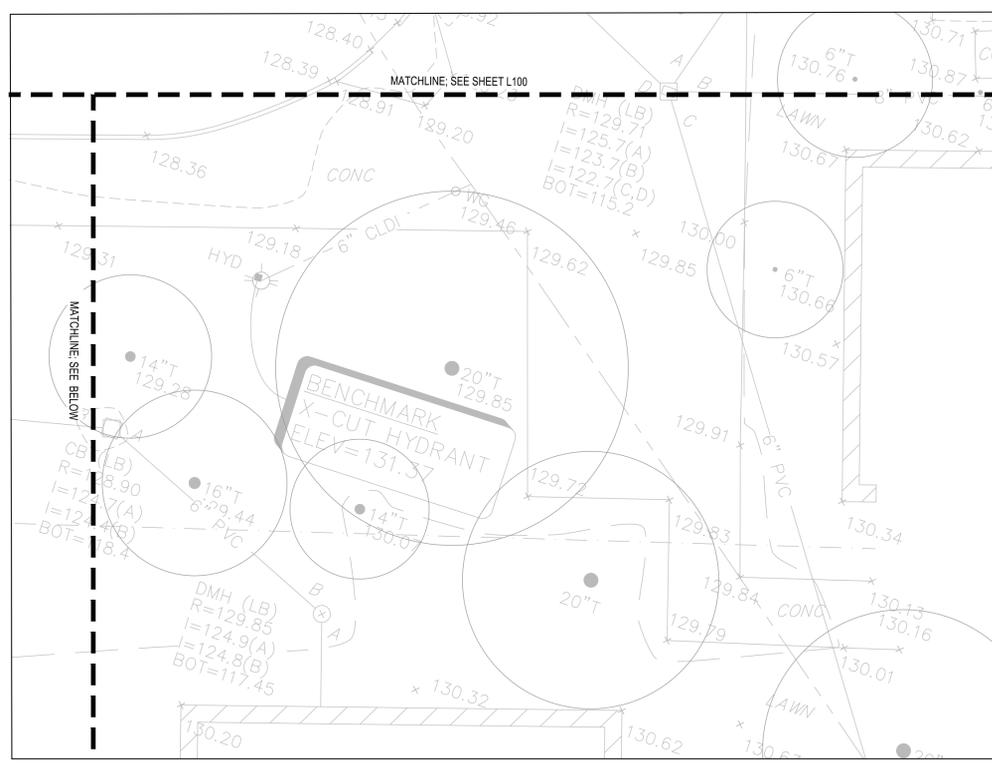
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LEGEND

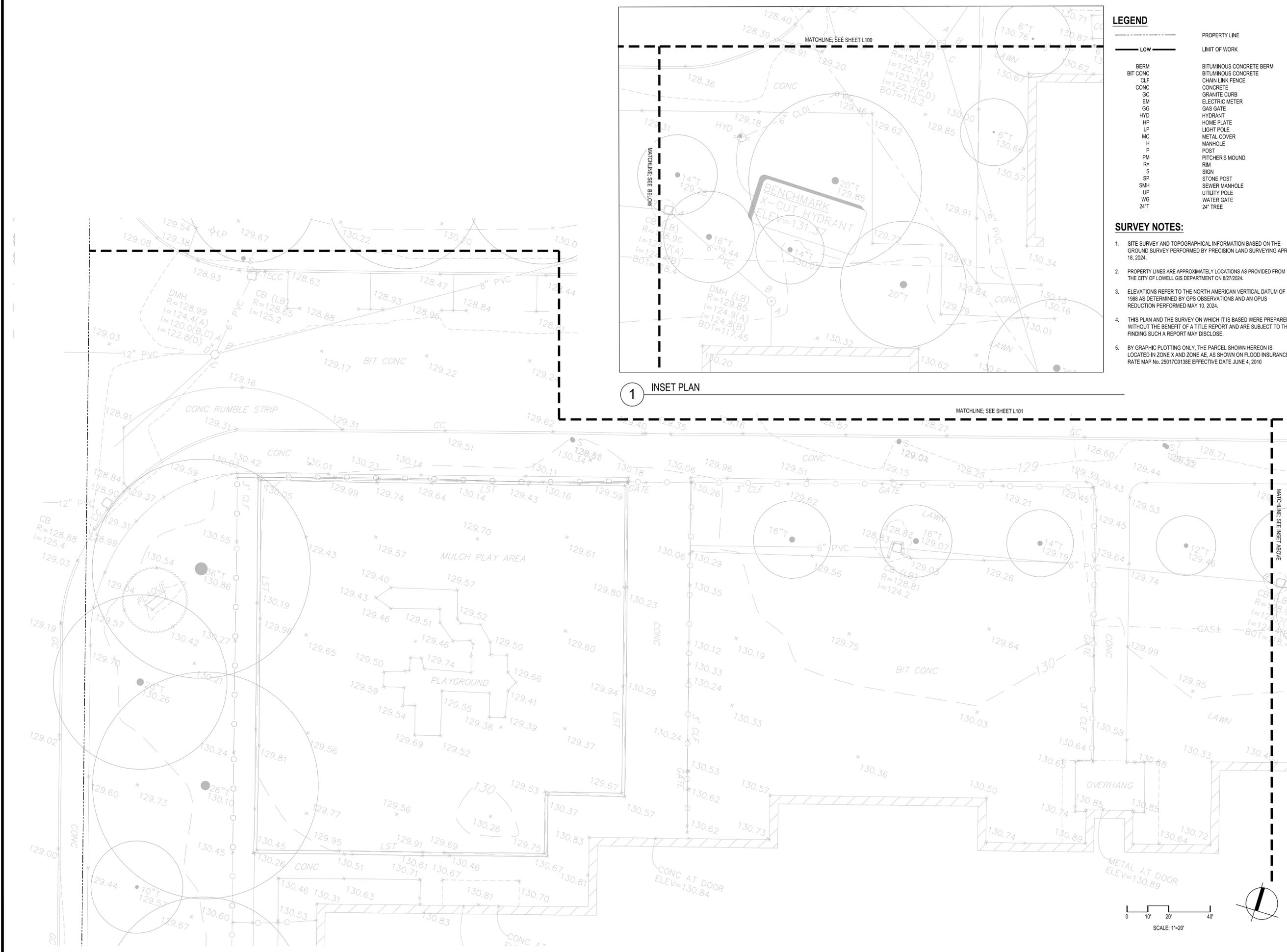
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|----------|--------------------------|
| --- | PROPERTY LINE |
| --- | LIMIT OF WORK |
| BERM | BITUMINOUS CONCRETE BERM |
| BIT CONC | BITUMINOUS CONCRETE |
| CLF | CHAIN LINK FENCE |
| CONC | CONCRETE |
| GC | GRANITE CURB |
| EM | ELECTRIC METER |
| GG | GAS GATE |
| HYD | HYDRANT |
| HP | HOME PLATE |
| LP | LIGHT POLE |
| MC | METAL COVER |
| H | MANHOLE |
| PM | POST |
| R= | PITCHER'S MOUND |
| S | RM |
| SP | STONE POST |
| SMH | SEWER MANHOLE |
| UP | UTILITY POLE |
| WG | WATER GATE |
| 24T | 24" TREE |

SURVEY NOTES:

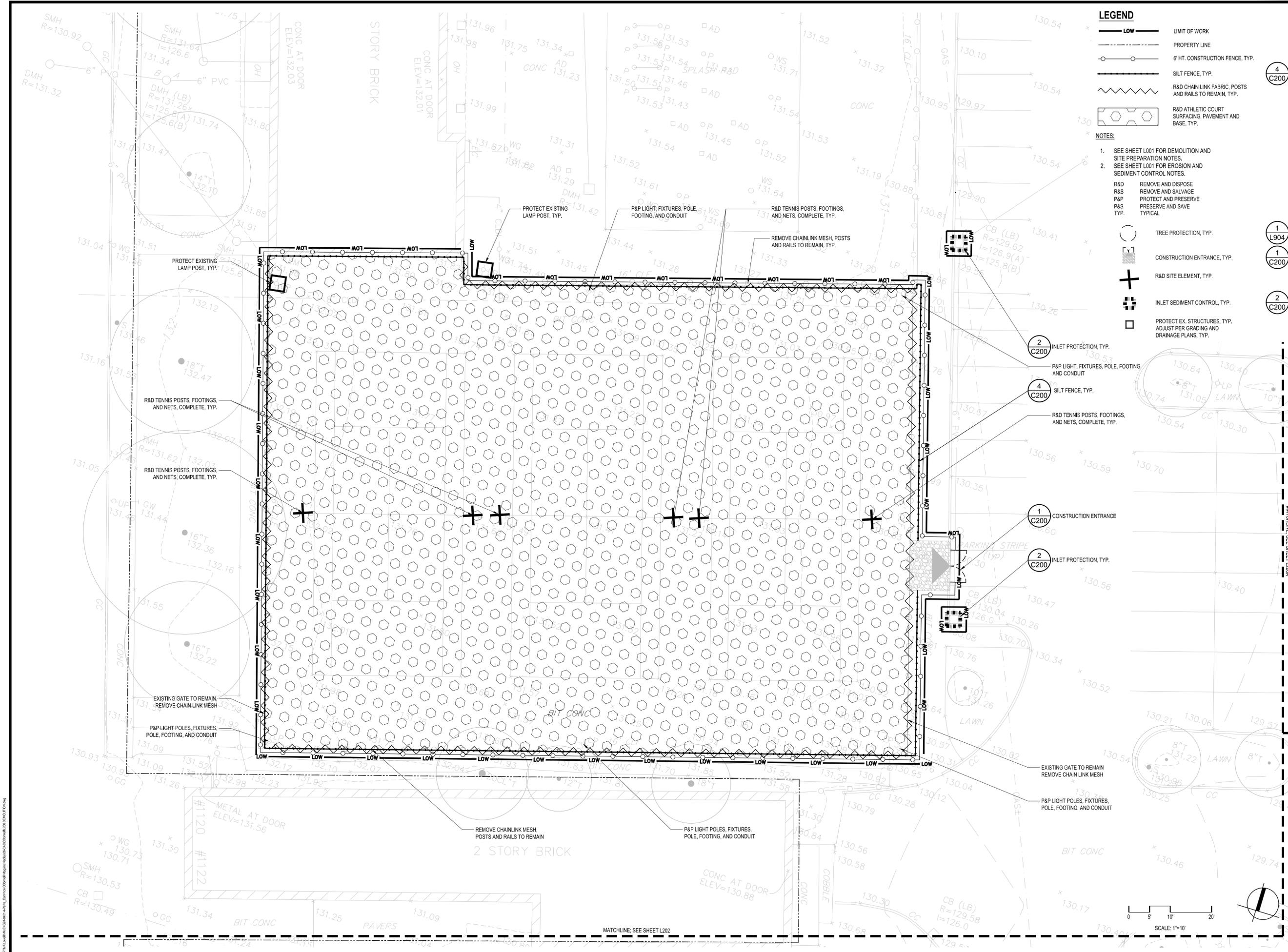
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1 INSET PLAN



P:\New England\2024\Lowell\0401\0401.dwg
 10/10/2024 10:00:00 AM
 JJB
 10/10/2024 10:00:00 AM
 JUCR
 10/10/2024 10:00:00 AM
 CR



LEGEND

- LOW** LIMIT OF WORK
- PROPERTY LINE
- 6' HT. CONSTRUCTION FENCE, TYP.
- SILT FENCE, TYP.
- R&D CHAIN LINK FABRIC, POSTS AND RAILS TO REMAIN, TYP.
- R&D ATHLETIC COURT SURFACING, PAVEMENT AND BASE, TYP.

NOTES:

1. SEE SHEET L001 FOR DEMOLITION AND SITE PREPARATION NOTES.
2. SEE SHEET L001 FOR EROSION AND SEDIMENT CONTROL NOTES.

- R&D REMOVE AND DISPOSE
- R&S REMOVE AND SALVAGE
- P&P PROTECT AND PRESERVE
- P&S PRESERVE AND SAVE
- TYP. TYPICAL

- TREE PROTECTION, TYP.
- CONSTRUCTION ENTRANCE, TYP.
- R&D SITE ELEMENT, TYP.
- INLET SEDIMENT CONTROL, TYP.
- PROTECT EX. STRUCTURES, TYP. ADJUST PER GRADING AND DRAINAGE PLANS, TYP.

4
C200

1
L904

1
C200

2
C200

2
C200 INLET PROTECTION, TYP.

P&P LIGHT, FIXTURES, POLE, FOOTING, AND CONDUIT

4
C200 SILT FENCE, TYP.

R&D TENNIS POSTS, FOOTINGS, AND NETS, COMPLETE, TYP.

1
C200 CONSTRUCTION ENTRANCE

2
C200 INLET PROTECTION, TYP.

EXISTING GATE TO REMAIN REMOVE CHAIN LINK MESH

P&P LIGHT POLES, FIXTURES, POLE, FOOTING, AND CONDUIT



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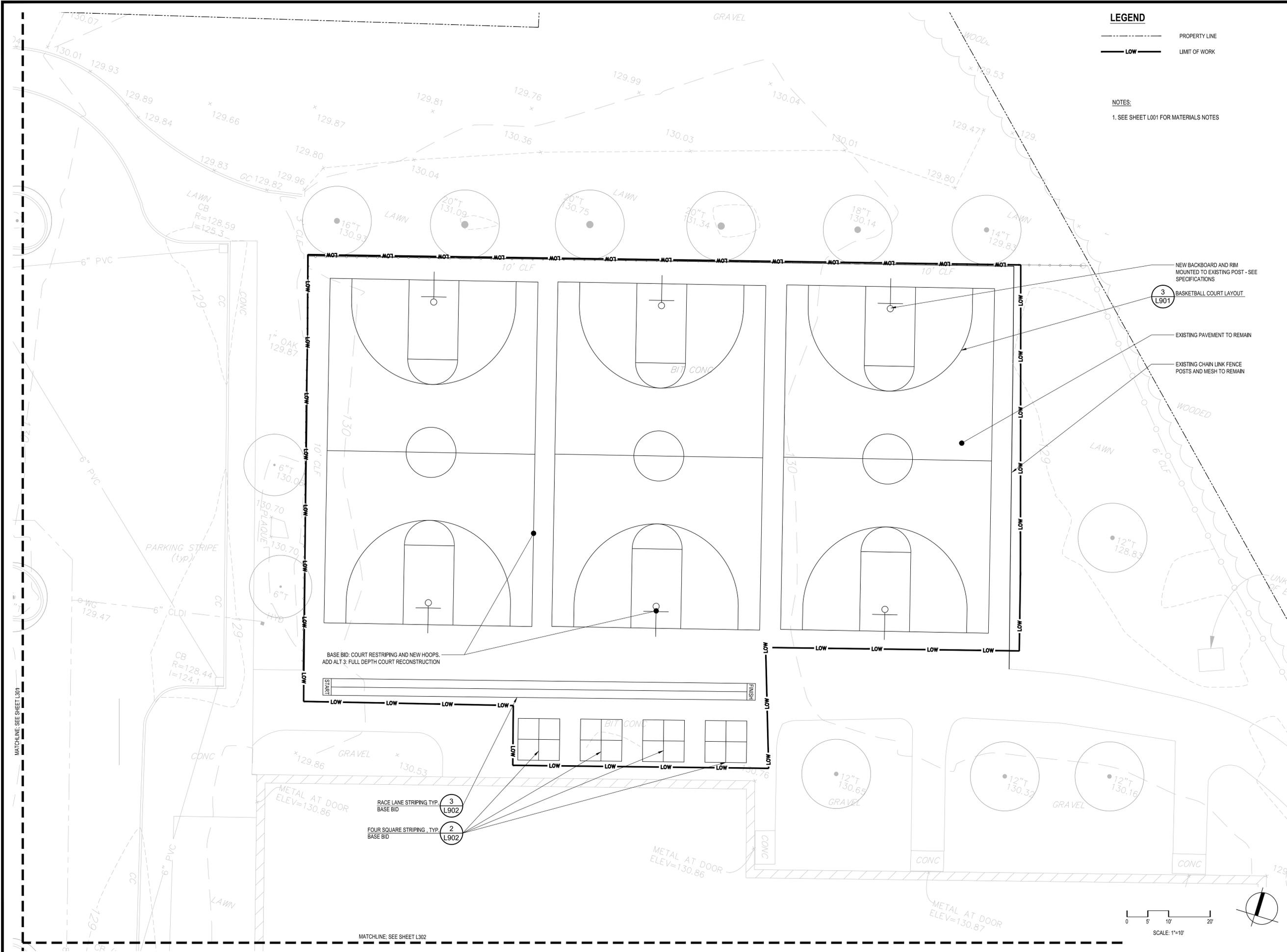
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 Approved By: CR
 W&S Project No.: ENC24-0401
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Drawing Title: **SITE PREPARATION DEMOLITION EROSION & SEDIMENT PLAN**

Sheet Number: **L201**



LEGEND

- PROPERTY LINE
- LOW — LIMIT OF WORK

NOTES:

1. SEE SHEET L001 FOR MATERIALS NOTES

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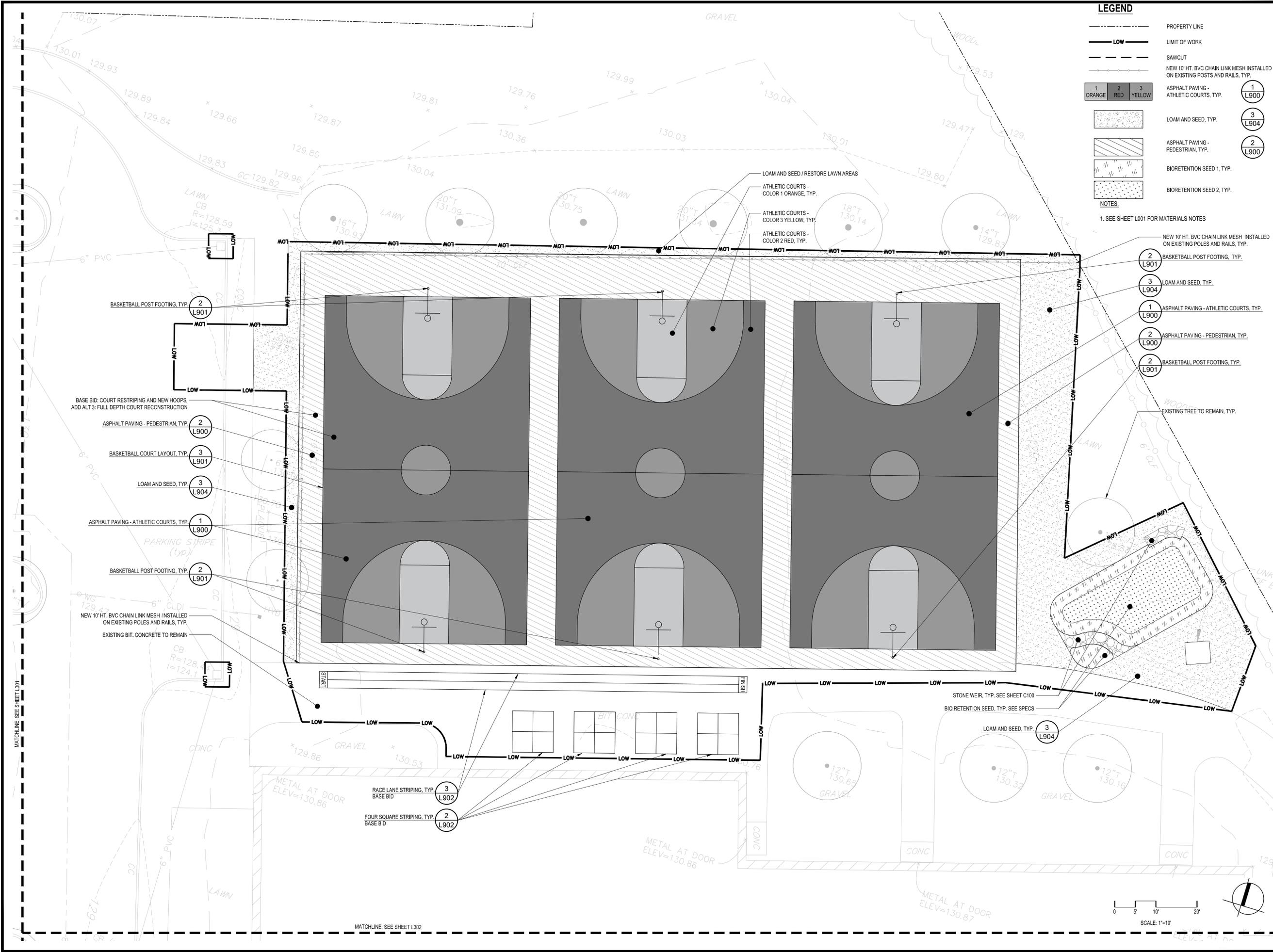
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Reviewed By: JUCR
Approved By: CR

W&S Project No.: ENG24-0401
W&S File No.: ---

Drawing Title:
**MATERIALS AND DEMOLITION PLAN
BASE BID**

Sheet Number:
L300



LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- SAWCUT
- NEW 10' HT. BVC CHAIN LINK MESH INSTALLED ON EXISTING POSTS AND RAILS, TYP.
- ASPHALT PAVING - ATHLETIC COURTS, TYP. 1 L900
- ASPHALT PAVING - PEDESTRIAN, TYP. 3 L904
- LOAM AND SEED, TYP. 2 L900
- BIORETENTION SEED 1, TYP.
- BIORETENTION SEED 2, TYP.

NOTES:

- SEE SHEET L001 FOR MATERIALS NOTES

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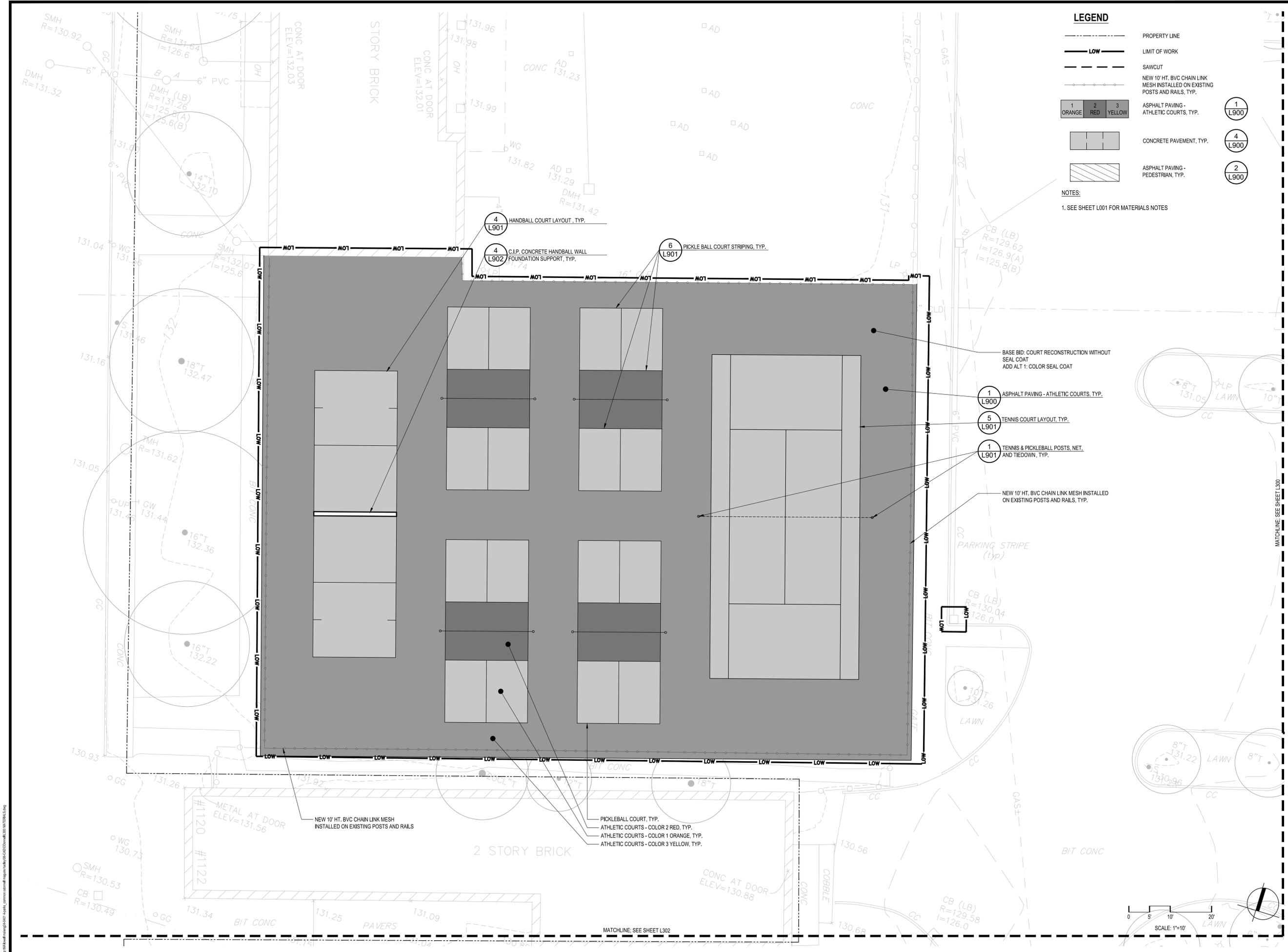
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Drawing Title:

**MATERIALS PLAN
ADD ALTERNATE #3**

Sheet Number:

L300A



LEGEND

- PROPERTY LINE
- LOW — LIMIT OF WORK
- - - SAWCUT
- NEW 10' HT. BVC CHAIN LINK MESH INSTALLED ON EXISTING POSTS AND RAILS, TYP.

1	2	3
ORANGE	RED	YELLOW

- ASPHALT PAVING - ATHLETIC COURTS, TYP.
- CONCRETE PAVEMENT, TYP.
- ASPHALT PAVING - PEDESTRIAN, TYP.

NOTES:
1. SEE SHEET L001 FOR MATERIALS NOTES

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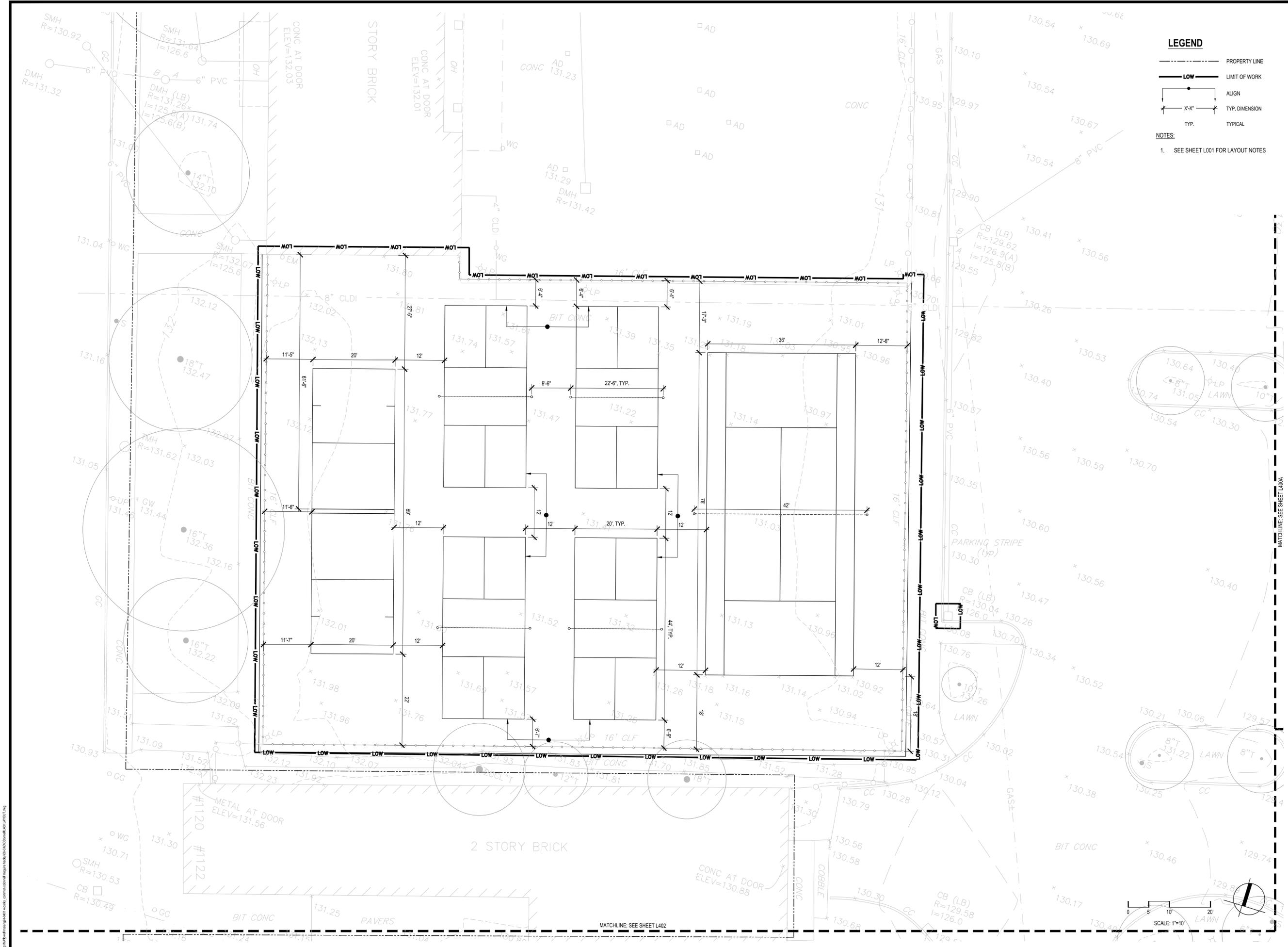
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Reviewed By:	JL/CR
Approved By:	CR
W&S Project No.:	ENG24-0401
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Drawing Title: **MATERIALS PLAN**

Sheet Number: **L301**

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LEGEND

- PROPERTY LINE
- LOW — LIMIT OF WORK
- ALIGN
- X-X' TYP. DIMENSION
- TYP. TYPICAL

NOTES:
 1. SEE SHEET L001 FOR LAYOUT NOTES

Project: CITY OF LOWELL



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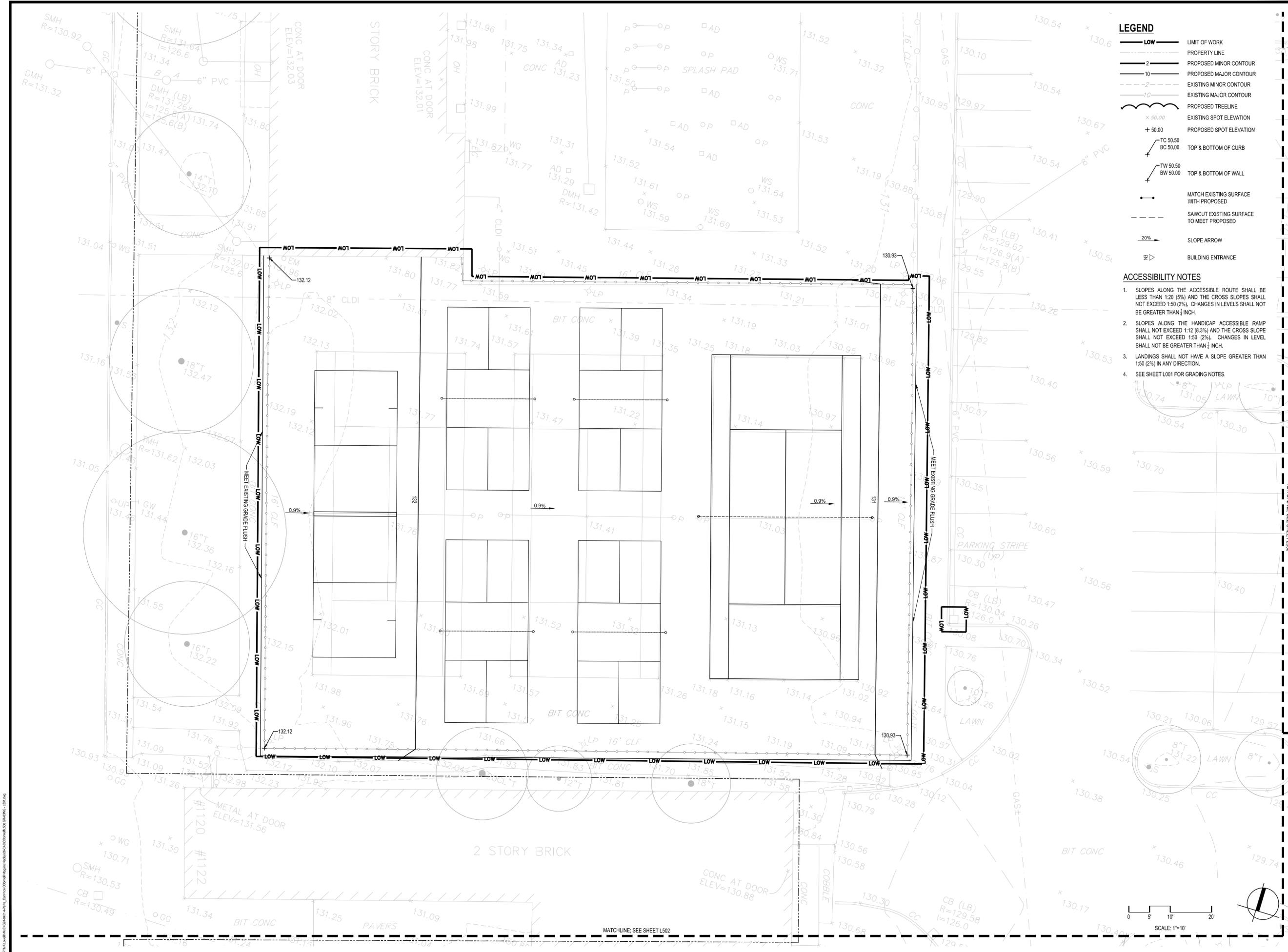
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Drawing Title: **LAYOUT PLAN**

Sheet Number: **L401**



- LEGEND**
- LIMIT OF WORK
 - PROPERTY LINE
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED TREELINE
 - EXISTING SPOT ELEVATION
 - PROPOSED SPOT ELEVATION
 - TOP & BOTTOM OF CURB
 - TOP & BOTTOM OF WALL
 - MATCH EXISTING SURFACE WITH PROPOSED
 - SAWCUT EXISTING SURFACE TO MEET PROPOSED
 - SLOPE ARROW
 - BUILDING ENTRANCE

- ACCESSIBILITY NOTES**
1. SLOPES ALONG THE ACCESSIBLE ROUTE SHALL BE LESS THAN 1:20 (5%) AND THE CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/4" INCH.
 2. SLOPES ALONG THE HANDICAP ACCESSIBLE RAMP SHALL NOT EXCEED 1:12 (8.3%) AND THE CROSS SLOPE SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVEL SHALL NOT BE GREATER THAN 1/4" INCH.
 3. LANDINGS SHALL NOT HAVE A SLOPE GREATER THAN 1:50 (2%) IN ANY DIRECTION.
 4. SEE SHEET L001 FOR GRADING NOTES.

Project: CITY OF LOWELL

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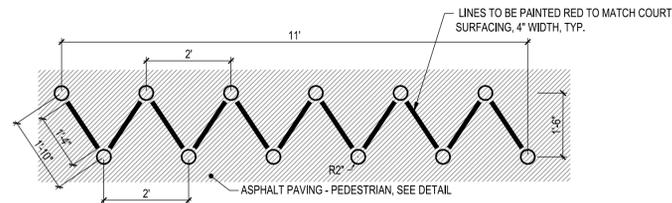
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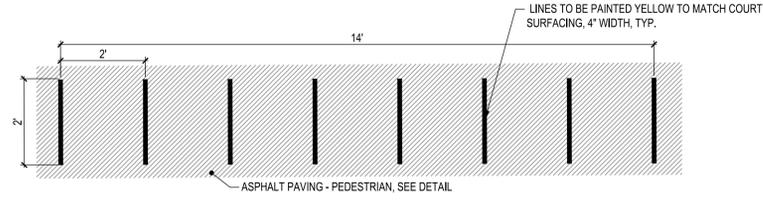
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Drawing Title: **GRADING PLAN**

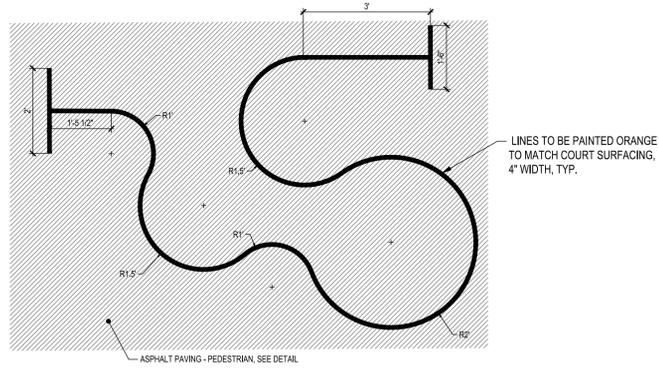
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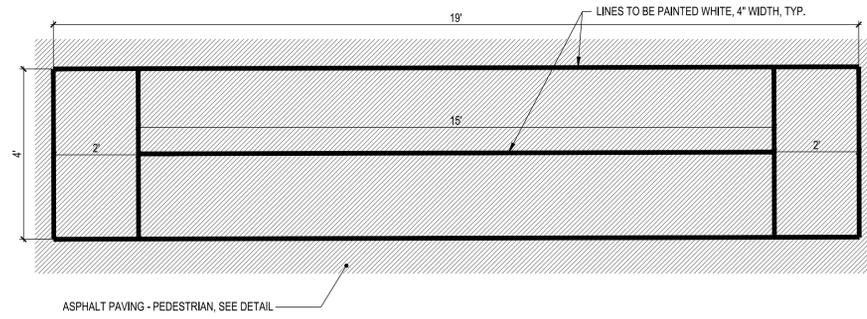
1 SIDE JUMP - OBSTACLE COURSE
NOT TO SCALE



2 JUMP BARS - OBSTACLE COURSE
NOT TO SCALE



3 TIGHTROPE WALK - OBSTACLE COURSE
NOT TO SCALE



4 RACE LANE STRIPING - OBSTACLE COURSE
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Drawing Title:
SITE DETAILS

Sheet Number:
L903

