

Gale Associates, Inc.

300 Ledgewood Place, Suite 300 | Rockland, MA 02370 P 781.335.6465 F 781.335.6467

www.galeassociates.com

January 22, 2024

Town of Hamilton Planning Board 650 Ashbury Street Hamilton, MA 01936

Attn: Mr. Patrick Reffett, Director of Planning and Inspectional Services

Re: Hamilton-Wenham Regional High School Athletic Campus Redevelopment

Site Plan Review Application and Stormwater Management Permit Application -

Response to Comments

Gale JN 718601

Dear Mr. Reffett,

On behalf of the Hamilton-Wenham Regional School District (HWRSD), Gale Associates, Inc. (Gale) is submitting this letter in response to the Town of Hamilton Planning Board and Peer Reviewer comments regarding the Site Plan Permit Application Package, which were received January 8, 2024, for the project referenced above. Below you will find the peer review comments in **bold** font and Gale's responses in plain text.

Site Plan Comments:

1. The plans should be signed and sealed by the Professional Engineer (PE) of record and the Professional Land Surveyor (PLS) of record prior to final approval of the Site Plan Review Application (ZBL §10.7.5 3).

Response: As discussed at the Planning Board hearing on January 9, 2024, the plans will be signed and sealed following final review by the Peer Reviewer once all changes have been incorporated into the plan.

2. The land surveyor shall certify the accuracy of the locations of the buildings, setbacks, and all other required dimensions to property lines (ZBL §10.7.5 3). It does not appear that an instrument survey was performed and consequently, relief is required. In lieu of seeking relief, it is likely that a property plan of the Hamilton-Wenham Regional High School facility was prepared at the time of property acquisition or at the time that the school was constructed and could be updated by the Professional Land Surveyor of Record and submitted to satisfy the requirement.

Response: A copy of the property survey for the Hamilton-Wenham Regional High School has been provided as part of the submittal, which was utilized to confirm setbacks. Refer to Existing Conditions Survey Sheets 1 and 2 prepared by Hancock Survey Associates, dated 2/10/1997.

Page 2

3. A Zoning Chart should be provided showing "required and provided" for "applicable criteria." We recommend that the Planning Board allow the Zoning Chart to be omitted (ZBL §10.7.5 4).

Response: A zoning chart has been provided on Plan Sheet G002.

4. Show bearings and distance for on-site lot lines and lot lines of abutting properties in a general way or seek relief (ZBL §10.7.5 7). It is likely that a property plan of the Hamilton-Wenham Regional High School campus was prepared when the property was acquired or developed, and this could be submitted to satisfy the requirement.

Response: Refer to Comment 2 above.

5. Show the approximate boundary of the Conservancy District (Wetland Overlay Zone) (ZBL §10.7.5 8).

Response: The Wetland Overlay Zone has been added to the plans. Refer to Plan Sheet C100.

6. Seek relief from requirements to show the entire property and in particular the total square footage of all buildings and the entirety of all wetland resource areas (ZBL §10.7.5 9, 10). As stated in Comment 2, it is likely that a property plan of the Hamilton-Wenham Regional High School facility was previously prepared and could be submitted to satisfy the requirement.

Response: Refer to Comment 2 above.

7. Show utilities (water, sewer, natural gas (if applicable), and electrical cables or seek relief (ZBL §10.7.5 12).

Response: Utilities associated with this project have been shown on Plan Sheets C301 and C302.

8. Show the proposed "front yard "setbacks to the sideline of Longmeadow Way for the Amenities Building and possibly the storage units or seek relief. Refer to Comment 2 (ZBL §10.7.5 14).

Response: The front yard setback for the proposed Amenities Building has been provided on Plan Sheets C102 and C102B.

9. Show any directional or way finding signage (ZBL §10.7.5 16).

Response: Signage will be provided, as requested. Refer to Plan Sheet C102 and C102B.



Page 3

10. Provide a parking calculation (ZBL §10.7.5 19). Refer to Comments 22-23.

Response: As noted in Comments 21-22, based on places of public assembly, one (1) parking space is required for every three (3) seats. The permanent grandstand will have 993 seats. Therefore, 331 parking spaces are required. Note that the high school has 357 spaces. Based on the fact that athletic events are not conducted when school is in session, adequate parking spaces should be provided. In addition, with the field project, we are adding two (2) accessible spaces and one (1) loading space at the Amenities Building.

Utilities Comments:

- 11. Show utilities for the Amenities Building, including pipe diameters, materials, class, slopes, structures, and inverts.
 - a. Show the building water service.
 - b. Show the building sanitary sewer service.
 - c. Show the cable utility services (electric, cable)
 - d. Show the building natural gas service if applicable.

Response: The utilities for the Amenities Building have been provided on the plans. Please refer to Plan Sheets C301 and C302. Note that no gas service will be provided at the site.

12. Provide a complete photometric of the Athletic Campus, not just the cutoff perimeter line.

Response: The updated photometric for the campus has been provided. Refer to updated Plan Sheets IS1 and IS2.

13. Provide detail on the lighting fixtures and in particular provide information on compliance with dark skies principals.

Response: The proposed lighting has been designed to meet the Dark Skies program.

14. Specify fixture mounting heights.

Response: Light fixture mounting heights for each field have been provided in the Athletic Lighting Exhibits attached.

15. Provide a light pole and pole foundation detail.

Response: A typical light pole and pole foundation detail has been provided. Refer to the Athletic Lighting Exhibits attached.

16. Provide any possible mitigation which minimizes the visibility of lighting fixtures and point sources of light from adjacent residences.





Response: Each of the proposed light fixtures is equipped with shields to minimize glare from adjacent residences. Refer to the Athletic Lighting Exhibits attached, including the standard light shield and Progression of Athletic Lighting.

17. Provide lighting controls that shut off field lights when the fields are not in active use.

Response: The proposed lighting systems are provided with an elaborate control system where lights can be turned off and on by school staff using their cell phones, as well as via a timing system that will turn the lights off at the required time specified.

Access and Parking Comments:

18. Confer with Town emergency services and determine which vehicles would respond to the fields in case of injury or other emergency. It is likely that an ambulance (AASHTO SU vehicle) and fire apparatus with defibrillator (AASHTO BUS 40 commonly used to emulate fire apparatus) must be accommodated.

Response: HWRSD/Gale are in the process of scheduling meetings with the Fire Department, EMTs, and Police to confirm vehicles that will respond to the fields and will provide adequate access, as required.

19. Revise the geometry of the pavement approach and/or adjust the location of the 12-ft. wide swing gates serving the multipurpose field and track and the two adjacent 12-ft. wide swing gates serving the west multipurpose field and the 165 X 300 soccer field such that each field can be accessed (enter and exit) by the emergency vehicles (per Comment 12) in a single continuous turning movement. Revise the geometry of the gravel access road approach and/or adjust the location of the 12-ft. wide swing gates serving the softball field such that the field can be accessed by the emergency vehicles in a continuous turning movement.

Non-vehicular access should be accommodated and encouraged.

Response: The plans have been updated to adjust 12-ft. access gates, as requested, as well as providing continuous turning movements at each field. Refer to Plan Sheets C101, C102, and C103.

20. Provide bicycle racks at each field.

Response: Bike racks will be provided at each field, as requested. Refer to Plan Sheets C101, C102, and C103.



21. For places of public assembly, one parking place is required for every three seats (ZBL §6.1). The Athletic Campus bleachers will provide 1,007 seats total (not including temporary bleachers) which results in a requirement for 336 parking spaces.

Response: Refer to Comment 10 above.

22. Determine through field observation, the peak parking demand for non-athletic based school use that occurs during the time when the athletic facilities are in use for competitive events. Determine if the parking supply can accommodate simultaneous nonathletic based school parking demand plus the 336 parking spaces required for the athletic facilities.

Response: HWRSD has confirmed that athletic events are not permitted to occur when school is in session. Therefore, with 357 spaces available at the school, adequate parking should be provided.

23. Expand the parking supply if required to accommodate the calculated parking demand (Comment) or provide a parking management plan. Provision should be made for dropping off athletes and spectators and for turnaround of vehicles unable to locate a parking space. Provide a hammerhead turnaround at the east end of the existing parking field to accommodate drop-offs and turnarounds.

Response: The plans have been updated to provide a hammerhead turnaround, as requested, along with three (3) additional parking spaces by the Amenities Building. Refer to Plan Sheets C102 and C102B.

24. The School District may not want private passenger vehicles circulating around the school building. Bus drop-offs may be appropriate in front of the Amenities Building. As no turnaround is provided, busses would exit by circulating behind the school building. Place a sign at the east end of the parking area stating, "Busses Only Beyond this Point."

Response: HWRSD has indicted that bus drop-offs are at the front of the school and the drive around the rear of the school is used for fire access only. An "Authorized Vehicles Only" sign (MUTCD R5-11) has been incorporated into the design, prefer to Plan Sheet C102B.

Grading Comments:

25. Clarify is the 4-ft. wide walk adjacent to the softball field curbed or is the walk to be delineated with a pavement edgeline.

Response: Based on emergency access peer review comments, access to the softball field has been revised and the 4-ft. walk has been removed.



Page 6

26. Segments of the unit masonry wall south of the Amenities Building has an exposed face of approximately 5.3-ft. and require fall protection.

Response: Based on updated plans, the masonry wall south of the amenities building is no longer required and has been removed.

27. Show top and bottom of wall elevations for the wall at the east end of the track and along the east and south edges of the Multi-Purpose Combination Synthetic Turf Field.

Response: Grading plans will be adjusted accordingly to reflect the updated Layout and Materials Plan and peer review stormwater review comments, once received. Should a retaining wall be required, top and bottom wall elevations will be provided.

Accessibility Comments:

28. Confirm that all bleachers have provisions to accommodate persons with limited mobility.

Response: The proposed bleacher system will provide required ramps and designated seating areas for person of limited mobility. Refer to the Grandstand Plan attached.

29. Ensure that all bleachers are provided with an accessible route. We note that the bleacher seating for the tennis courts is not accessible by pavement.

Response: All proposed walkways will meet ADA requirements for accessible routes.

30. The 4-ft. wide walk adjacent to the softball field is not an accessible route as it is obstructed by a light pole and does not provide continuity to reach the bleachers. If the walk is curbed, ramps must be provided at either end

Response: Refer to Comment 25 above.

Public Safety Comments:

31. Obtain written approval of the Athletic Campus from the Fire Department/ Emergency Services.

Response: Refer to Comment 18 above, HWRSD/Gale are in the process of scheduling a meeting with the Fire Department/Emergency Services to review the project. Any comments they may have will be addressed and their approval requested. Note their written approval will be provided to the Planning Board.



32. Obtain written approval of the Athletic Campus from the Police Department.

Response: Refer to Comment 18 above, HWRSD/Gale are in the process of scheduling a meeting with the Police Department to review the project. Any comments they may have will be addressed and their approval requested. Note their written approval will be provided to the Planning Board.

Construction Comments:

Add construction notes to the plans.

33. Work hours including deliveries and on-site engine warmup and idling shall comply with the School District's requirements and further shall be limited to 7:00 AM to 5:00 PM on weekdays with no work on Sunday or legal holidays.

Response: This note has been added to the plans, refer to Plan Sheet G002.

34. Mark the limit of work with high visibility temporary fencing.

Response: As noted at the hearing on January 9, 2024, the limit of work on the plans is depicted by the limit of the silt sock. Temporary construction fencing has been added to the plans. Refer to the Plan Sheet G002 for "Construction General Notes" addressing the limit of work and construction fencing.

35. Provide convenient sanitary facilities and trash collection containers. Remove any litter or waste two times per week or more frequently if required.

Response: This note has been added to the plans, refer to Plan Sheet G002. Also note that this is covered in Gale's standard clean-up and protection specification sections.

36. Due to proximity of wetlands, dust control should be limited to the application of mist using potable water.

Response: This note has been added to the plans; refer to Plan Sheet G002.

37. Designate an on-site refueling area with a paved surface and berm to contain a fuel spill.

Response: This note has been added to the plans; refer to Plan Sheet G002.

38. Sweep Bay Road in proximity to the site during earth or materials transport whenever sediment deposits are visible.

Response: This note has been added to the plans; refer to Plan Sheet G002.



Construction Details Comments:

39. Pavement Jointing Detail - Specify joint to be sawcut.

Response: The Pavement Jointing Detail 5 on Plan Sheet C502 has been updated to specify joint to be sawcut.

40. Driveway Pavement Section – If the "Dense Graded Crushed Stone" layer specifies MassDOT M2.01.7, we recommend limiting the thickness to approximately 2-inches due to the fines content. The remainder of the granular base should be specified as Gravel Borrow MassDOT M1.03.0 Type c or crushed stone. We recommend a minimum thickness of 12-inches for the granular base in areas subject to regular vehicle traffic (which is the standard for subdivision streets) and a minimum thickness of 8-inches for the granular base elsewhere.

Response: Driveway Pavement Section Detail 3 on Plan Sheet C502 has been updated, as requested.

41. Sidewalk Pavement Section – We recommend limiting the thickness of the "Dense Graded Crushed Stone" layer to approximately 2-inches. Refer to Comment 40.

Response: Sidewalk Pavement Section Detail 2 on Plan Sheet C502 has been updated, as requested.

42. Handicapped Accessible Ramp – Show maximum slope. The specified length of 14-ft. would only apply to a specific elevation change.

Response: Handicap Accessible Ramp Detail 5 on Plan Sheet C503 has been updated to show maximum slope.

43. Backstop Detail – Shop drawing review by a Structural MA Professional Engineer is recommended. Require site specific soil testing as part of shop drawing review. Consider specifying black vinyl coated fabric to match fencing.

Response: The Backstop Detail 1 on Plan Sheet C505 has been updated to specify the use of site specific soil testing as part of the shop drawing review. Also note the backstop will be specified to be black vinyl fabric.

44. Segmental Block Retaining Wall – Require site specific soil testing as part of shop drawing review. Specify the free-draining backflow material.

Response: The Segmental Block Retaining Wall Detail 4 on Plan Sheet C514 has been updated to specify the use of site specific soil testing as part of the shop drawing review and the free draining backfill material specified.

Town of Hamilton Planning Board Re: HWRHS Athletic Campus Redevelopment – Response to Review Comments January 22, 2024 Page 9



We hope you find our responses to your comments acceptable. Please do not hesitate to contact the undersigned, at kdh@gainc.com or (508) 259-3534, if you require additional information or clarification.

Best regards,

GALE ASSOCIATES, INC.

Kathleen D. Hervol/cmh

Kathleen D. Hervol Director of Athletics

KDH/cmh

Enclosures:

- Updated Permitting Plans
 - G002 General Notes
 - C100 Layout and Material Key Plan
 - C101, C102, C102B, and C103 Layout and Materials Plans
 - C301 and C302 Utilities Plans
 - C502, C503, C505, and C514 Detail Sheets
 - IS1 and IS2 Illumination/Photometric Plans
- Athletic Lighting Exhibits
 - Typical Light Fixture and Poles
 - Light Pole Foundation Plan
 - Progression of Athletic Lighting
 - EXH-1 Athletic Lighting Pole Height Exhibit Plan
- Grandstand Plan
- Existing Conditions Survey (Existing School and Property)

CC:

- Mr. Thomas Houston, Peer Reviewer Professional Services Corp.
- Mr. Thomas Geary Hamilton-Wenham Regional School District

G:\718601\02 Design\letters\Peer Review Comments\Peer Review Comments 2024 0122.docx

DEMOLITION NOTES

- DEMOLITION TO COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE STARTING SELECTIVE DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- THE OWNER MAY OCCUPY PORTIONS OF THE BUILDING IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION
 AREAS. CONDUCT SELECTIVE DEMOLITION SO THAT OWNERS' OPERATIONS WILL NOT BE DISRUPTED. PROVIDE
 NOT LESS THAN 72 HOURS NOTICE TO OWNER OF ACTIVITIES (IF ANY) THAT MAY AFFECT THEIR OPERATIONS.
- SURVEY THE CONDITION OF THE SITE TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN UNDESIRABLE DAMAGE OF ANY PORTION OF ADJACENT FACILITIES DURING SELECTIVE DEMOLITION.
- MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
- CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, PARKING LOTS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
- . CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS, FACILITIES, AND SITE IMPROVEMENTS TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION APEA.
- USE WATER MIST AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS.
- 8. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND APEAS
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF SELECTIVE DEMOLITION.
- 10. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. CONTRACTOR TO BE RESPONSIBLE FOR ANY CUTTING AND PATCHING THAT IS REQUIRED.
- 11. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE
- 12. DO NOT BURN DEMOLISHED MATERIALS.
- TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM, IF NOT DESIGNATED TO BE SALVAGED BY THE OWNER OR REUSED.
- 14. IN AREAS WHERE BITUMINOUS CONCRETE IS TO BE REMOVED, THE EDGE OF ANY BITUMINOUS CONCRETE TO REMAIN MUST BE A CLEAN SAW-CUIT FORE.

EROSION CONTROL NOTES

- . THE CONTRACTOR SHALL FILE A NPDES CONSTRUCTION GENERAL PERMIT AS REQUIRED BY THE EPA AT LEAST 14 DAYS PRIOR TO GROUNDBREAKING. NPDES PERMIT AND PLANS SHALL BE KEPT ON SITE FOR REVIEW AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.
- 2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STATE REGULATIONS AND ALL TOWN REGULATIONS AND PERMIT CONDITIONS.
- 3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR EARTHWORK OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETERS WITH STAKED SILTATION FENCES TO PREVENT
 AND/OR CONTROL SILTATION AND EROSION. OTHERWISE SPOIL MATERIAL SHALL BE IMMEDIATELY REMOVED FROM
 THE SITE AND DISPOSED OF I FGALI IY AND IN CONFORMANCE TO ALL TOWN REGULI ATIONS.
- ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTION SHALL TAKE PLACE AFTER EACH RAINFALL EVENT AND BEFORE FORECASTED RAIN.
- ALL SEDIMENTS MUST BE REMOVED PRIOR TO REACHING THE EXISTING DRAINAGE SYSTEMS AND/OR ANY
 ENVIRONMENTAL RESOURCE AREAS.
- THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE OWNER TO MITIGATE ANY EMERGENCY CONDITION.
- 8. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OUTSIDE OF CONSTRUCTION AREA MUST BE REMOVED IMMEDIATELY.
- 9. EROSION CONTROL DEVICES MAY BE ADDED OR REDUCED IN THE FIELD AS DIRECTED BY THE OWNER/ENGINEER
- 10. THE CONTRACTOR IS RESPONSIBLE FOR REESTABLISHING ANY EROSION CONTROL DEVICE WHICH THEY DISTURB. THE CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES WHICH MAY LEAD TO UNAUTHORIZED DISCHARGE OR STORM WATER POLLUTION, SEDIMENTATION OR OTHER POLLUTIANTS. UNAUTHORIZED POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO, EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, POINTS, SOLVENTS, GREASES, FUEL AND LUBE OIL, PESTICIDES, AND SOLID WASTE MATERIALS.

GRADING NOTES

- 1. ALL GRADING SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND LOCAL BUILDING AND ACCESSIBILITY CODES. IN GENERAL, GRADING OF SIDEWALKS SHALL NOT EXCEED 2.0% CROSS SLOPE AND 5.0% RUNNING SLOPE, GRADING OF PADA PARKING STALLS AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ANY DIRECTION AND GRADING OF PLAZA AND GATHERING AREAS SHALL NOT EXCEED 2.0% IN ANY DIRECTION, GRADING ON SIDEWALK CURB RAMPS AND OTHER ACCESSIBLE RAMPS SHALL NOT EXCEED 8.0% ALL AREAS SHALL PROVIDE POSITIVE DRAINAGE AS TO NOT POOL WATER, MINIMUM SLOPES SHALL BE 1.0% UNLESS OTHERWISE NOTED.
- ALL PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
- 3. GRADING SHALL BE PERFORMED TO ALLOW WATER TO FLOW AWAY FROM BUILDING STRUCTURES, AND TO NOT ALLOW PUDDLING OF WATER ANYWHERE ON SITE.
- MINOR ADJUSTMENTS TO FINISH GRADE TO ACCOMPLISH DRAINAGE FLOW ARE ACCEPTABLE, IF NECESSARY, UPON PRIOR APPROVAL OF ENGINEER.
- NEW PAVEMENT SHALL BE FLUSH AT ANY JUNCTURE WITH EXISTING PAVEMENT.
- ALL EXCAVATIONS SHOULD BE STABILIZED BY CUTTING BACK SIDE SLOPES OR USING SHORING AND BRACING AS
 REQUIRED. ALL EXCAVATION AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA STANDARDS AND MGL
 CH. 149 SECT. 1794.
- ANY DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DISCHARGE OF SILTY OR OTHERWISE "DIRTY" WATER INTO DRAINAGE SYSTEM OR ANY BODY OF WATER, WETLAND OR RESOURCE AREA SHALL NOT BE DEPOMITTED.

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK. ALL EXISTING CONTROL POINTS AND BENCHMARKS HAVE BEEN PROVIDED ON THE EXISTING CONDITIONS PLANS. ANY ADDITIONAL CONTROL POINTS SHALL BE ESTABLISHED AND MAINTAINED BY THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, AND CITY STANDARDS. THE CONTRACTOR IS
 RESPONSIBLE FOR OBTAINING A COPY OF THE CITY STANDARDS AND REGULATIONS FOR USE ON THIS PROJECT.
- BARRICADING, TRAFFIC CONTROL, AND PROJECT SIGNS SHALL CONFORM TO ALL STATE, LOCAL REGULATIONS. AREA ADJACENT TO THE PROJECT SITE WILL BE IN USE DURING CONSTRUCTION AT VARIOUS TIMES. THE CONTRACTOR WILL PROVIDE ADEQUATE CONSTRUCTION FENCING DURING EACH PHASE OF THE PROJECT TO FULLY SECURE THE PROPOSED SITE SUBJECT TO OWNER APPROVAL. THE FENCING MAY NEED ADJUSTMENT AT VARIOUS TIMES WITHOUT CONTRACT MODIFICATION.
- THE GENERAL CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS AND/OR CONNECTION FEES PEOLIDED.
- GENERAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AS APPLICABLE INCLUDING BUT NOT LIMITED TO ELECTRICAL, LIGHTING, AND GAS. THE CONTRACTOR ACKNOWLEDGES THAT ANOTHER CONTRACTOR WILL BE UNDER A SEPARATE CONTRACT. THE CONTRACTOR WILL COORDINATE HIS EFFORTS IN GOOD FAITH, AND WORK IN HARMONY WITH THE OTHER CONTRACTOR. NO EXTRA WILL BE AWARDED DUE TO CONFLICTS BETWEEN CONTRACTORS.
- SUBSTITUTIONS AND APPROVAL OF "OR-EQUAL" PRODUCTS IN PLACE OF THOSE SPECIFIED WILL NOT BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER OR ENGINEER.

GENERAL UTILITY NOTES

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES
 AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORD PLANS AND WHERE POSSIBLE,
 MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR
 COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD
 BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF LITHITIES.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED
 CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE EXISTING UTILITIES
 WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
- 4. TRENCH EXCAVATIONS SHALL BE IN ACCORDANCE WITH ALL PROVISIONS OF OSHA PART 1926, SUBPART P "EXCAVATIONS, TRENCHES AND SHORING OF THE OCCUPATIONAL SAFETY AND HEALTH'S STANDARDS AND NECESSARY TRENCH SAFETY PLANS TO THE ENGINEER AND CITY FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION.
- ALL DRAIN, WATER AND SANITARY SEWER PIPES INSTALLED WITHIN 10 FEET OF THE BUILDING (BY OTHERS) MUST BE PERMITTED AND INSTALLED BY A MASSACHUSETTS LICENSED PLUMBER.
- CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND RIM ELEVATIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL ADJUST ALL UTILITY CASTINGS TO BE FLUSH WITH PROPOSED GRADE UNLESS OTHERWISE INDICATED ON PLAN.
- THE CONTRACTOR SHALL FIELD COORDINATE WITH THE ELECTRICAL ENGINEER TO DETERMINE EXACT POINT OF SERVICE CONNECTION. REFER TO THE SITE ELECTRICAL DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIFES, AND CIRCUITING
- CONTRACTOR SHALL PURGE LIFTING HOLES ON ALL CONCRETE STRUCTURES.

LANDSCAPING NOTES

- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
- ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED.
- 3. ALL TREES MUST BE STRAIGHT-TRUNKED AND FULL-HEADED AND MEET ALL REQUIREMENTS SPECIFIED
- . ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE BEFORE, DURING, AND AFTER INSTALLATION.
- ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
- ${\it 6.} \qquad {\it ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.}$
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) OF THE PLANTING AREAS AND LAWN UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
- THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS REFORE OR AT THE FIND OF THE GUARANTEE PERIOD.
- 10. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- 11. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
- 12. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
- 13. ALL SHRUB, GROUND COVER AND SEASONAL COLOR ANNUAL PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH HARDWOOD MULCH TO A MINIMUM DEPTH OF FOUR INCHES.

LOCUS PROPERTY ZONING TABLE - R1-B, SINGLE RESIDENTIAL DISTRICT					
REQUIRED	PROVIDED				
40,000 SF	NOT APPLICABLE				
125 FT	NOT APPLICABLE				
100 FT AT BUILDING	± 1000 FT (EXISTING)				
35 FT	17 FT (PROPOSED)				
3 STORIES	1 STORY (PROPOSED)				
25%	± 8.3% (EXISTING) + .08% (PROPOSED)				
25' (50' TO CENTERLINE)	± 43.5'				
15'	NOT APPLICABLE				
	REQUIRED 40,000 SF 125 FT 100 FT AT BUILDING 35 FT 3 STORIES 25% 25' (50' TO CENTERLINE)				

GENERAL CONSTRUCTION NOTES

- WORK HOURS INCLUDING DELIVERIES AND ON-SITE ENGINE WARM-UP AND IDLING SHALL COMPLY WITH THE SCHOOL DISTRICT'S REQUIREMENTS AND FURTHER SHALL BE LIMITED TO 7:00 AM TO 5:00 PM ON WEEKDAYS WITH NO WORK ON SUNDAY OR LEGAL HOLIDAYS.
- MARK THE LIMIT OF WORK WITH HIGH VISIBILITY TEMPORARY FENCING.
- PROVIDE CONVENIENT SANITARY FACILITIES AND TRASH COLLECTION CONTAINERS. REMOVE ANY LITTER OR WASTE TWO TIMES PER WEEK OR MORE FREQUENTLY IF REQUIRED.
- DUE TO PROXIMITY OF WETLANDS, DUST CONTROL SHOULD BE LIMITED TO THE APPLICATION OF MIST USING POTABLE WATER.
- DESIGNATE AN ON-SITE REFUELING AREA WITH A PAVED SURFACE AND BERM TO CONTAIN A FUEL SPILL.
- SWEEP BAY ROAD IN PROXIMITY TO THE SITE DURING EARTH OR MATERIALS TRANSPORT WHENEVER SEDIMENT DEPOSITS ARE VISIBLE.

ABBREVIATIONS				
APPROX	APPROXIMATE	MAX	MAXIMUM	
BC	BOTTOM OF CURB	MIN	MINIMUM	
BCC	BITUMINOUS CONCRETE	NIC	NOT IN CONTRACT	
	CURB	NTS	NOT TO SCALE	
BIT	BITUMINOUS	PIV	POST INDICATOR VALVE	
BLDG	BUILDING	PVC	POLYVINYLCLORIDE PIPE	
BVW	BORDERING VEGETATED	RCP	REINFORCED CONCRETE	
	WETLAND		PIPE	
BW	BOTTOM OF WALL	SMH	SEWER MANHOLE	
CB	CATCH BASIN	TBR&D	TO BE REMOVED AND	
CCB	CAPE COD BERM		LEGALLY DISPOSED OF	
CLDI	CONCRETE LINED	TC	TOP OF CURB	
	DUCTILE IRON	TR&P	TO REMAIN AND BE	
CMP	CORRUGATED METAL		PROTECTED	
	PIPE	TR&S	TO REMOVE AND	
CONC	CONCRETE		SALVAGE	
COND	CONDUIT	TW	TOP OF WALL	
DIA	DIAMETER	TYP	TYPICAL	
DIM	DIMENSION	UP	UTILITY POLE	
DMH	DRAIN MANHOLE	VCC	VERTICAL CONCRETE	
E/T/C	ELECTRIC / TELEPHONE /		CURB	
	CABLE	VGC	VERTICAL GRANITE CURB	
EMH	ELECTRIC MANHOLE	WG	WATER GATE	
EOP	EDGE OF PAVEMENT	WSO	WATER SHUT OFF	
EXIST	EXISTING			
FND	FOUND			
GS0	GAS SHUT OFF			
HDPE	HIGH DENSITY			
	POLYETHYLENE			
HH	HANDHOLE			
HYD	HYDRANT			
INV	INVERT ELEVATION			



Gale Associates, Inc. Engineers and Planners

163 LIBBEY PARKWAY | WEYMOUTH, MA 02189P 781.335.6465 F 781.335.6467 www.gainc.com

Boston Baltimore Orlando Hartford Bedford

This drawling and the design and construction features disclosed are proprietary to Gale Associates, Inc. and shall not be altered or reused in whole or part without the express written permission of Gale Associates, Inc. Copyright@2021



ATHLETIC CAMPUS IMPROVEMENTS
HAMILTON-WENHAM REGIONAL HIGH SCHOOL
775 BAY ROAD
SOUTH HAMILTON, MA 01982

HAMILTON-WENHAM REGIONAL SCHOOL DISTRICT
5 SCHOOL STREET

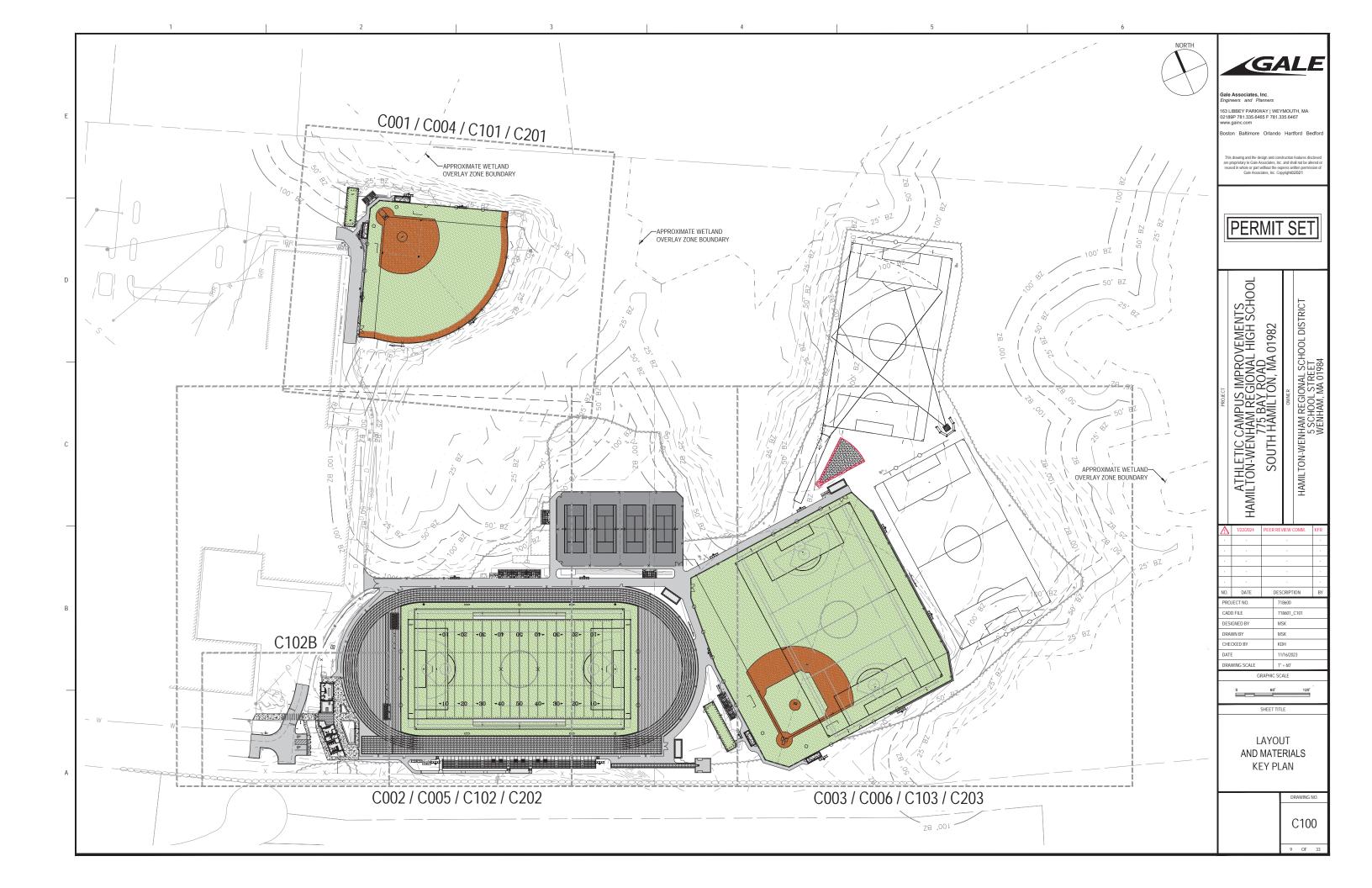
$\Delta 1$	1/22/2024	PEER REVIEW COMM. KFR				
NO.	DATE	DESCRIPTION		BY		
PRO.	JECT NO.		718600			
CAD	D FILE		718600_G001			
DESIGNED BY		MSK / KFR				
DRAWN BY		MSK / KFR				
CHECKED BY		KDH				
DATE	DATE		11/16/2023			
DRA	WING SCALE					
	CI	DADLII	CCALE			

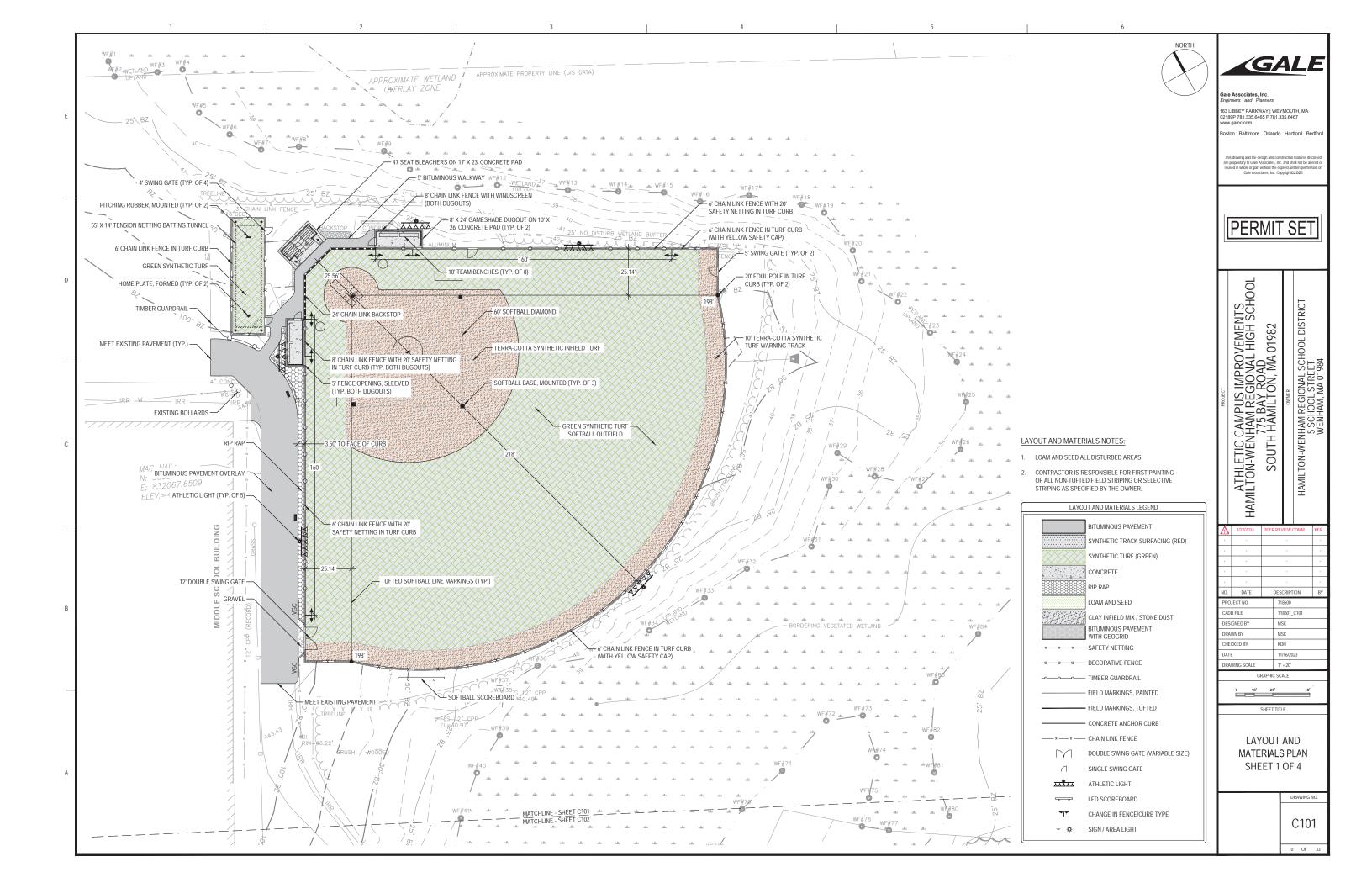
SHEET TITLE

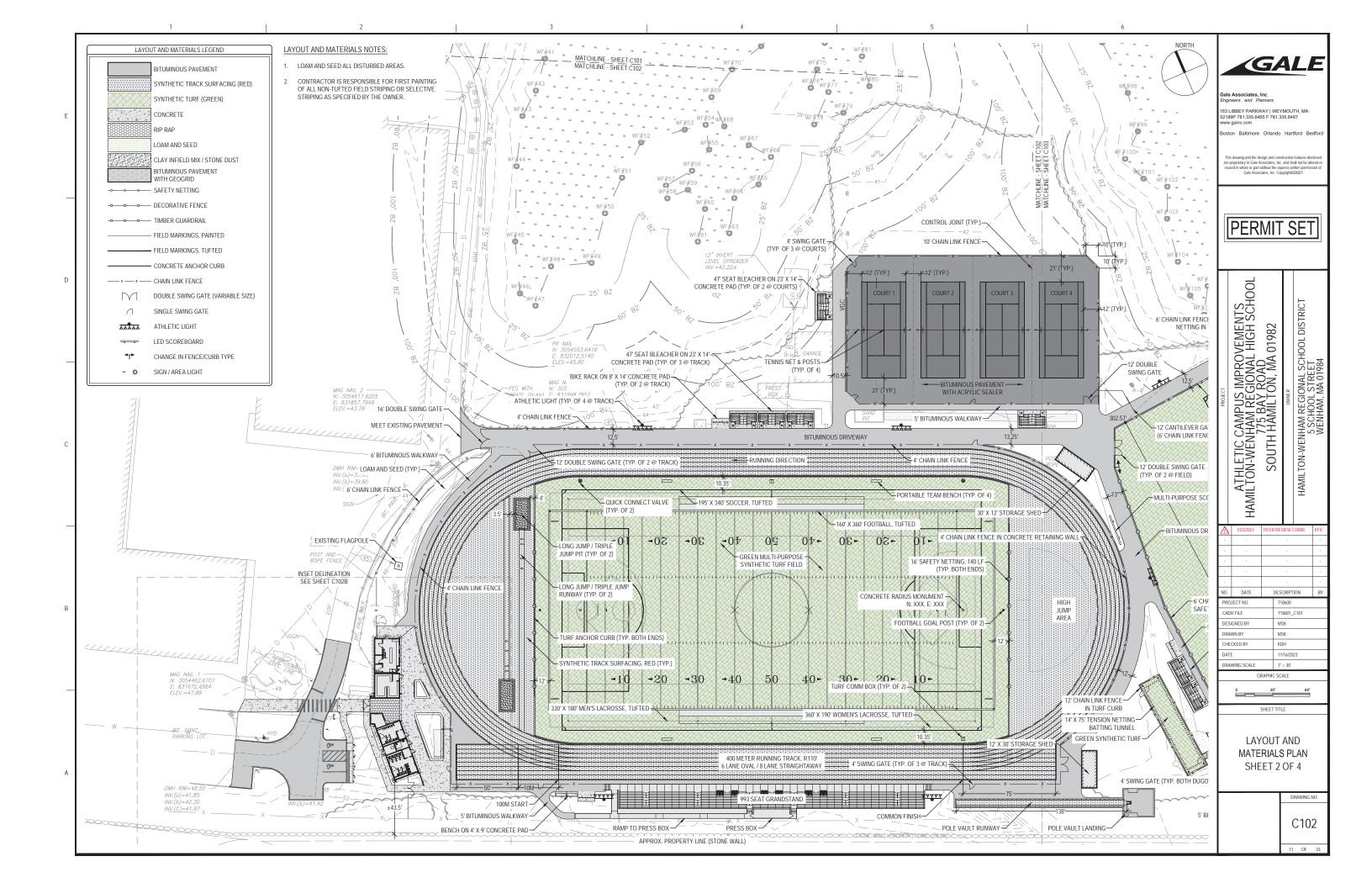
NOTES AND LEGEND

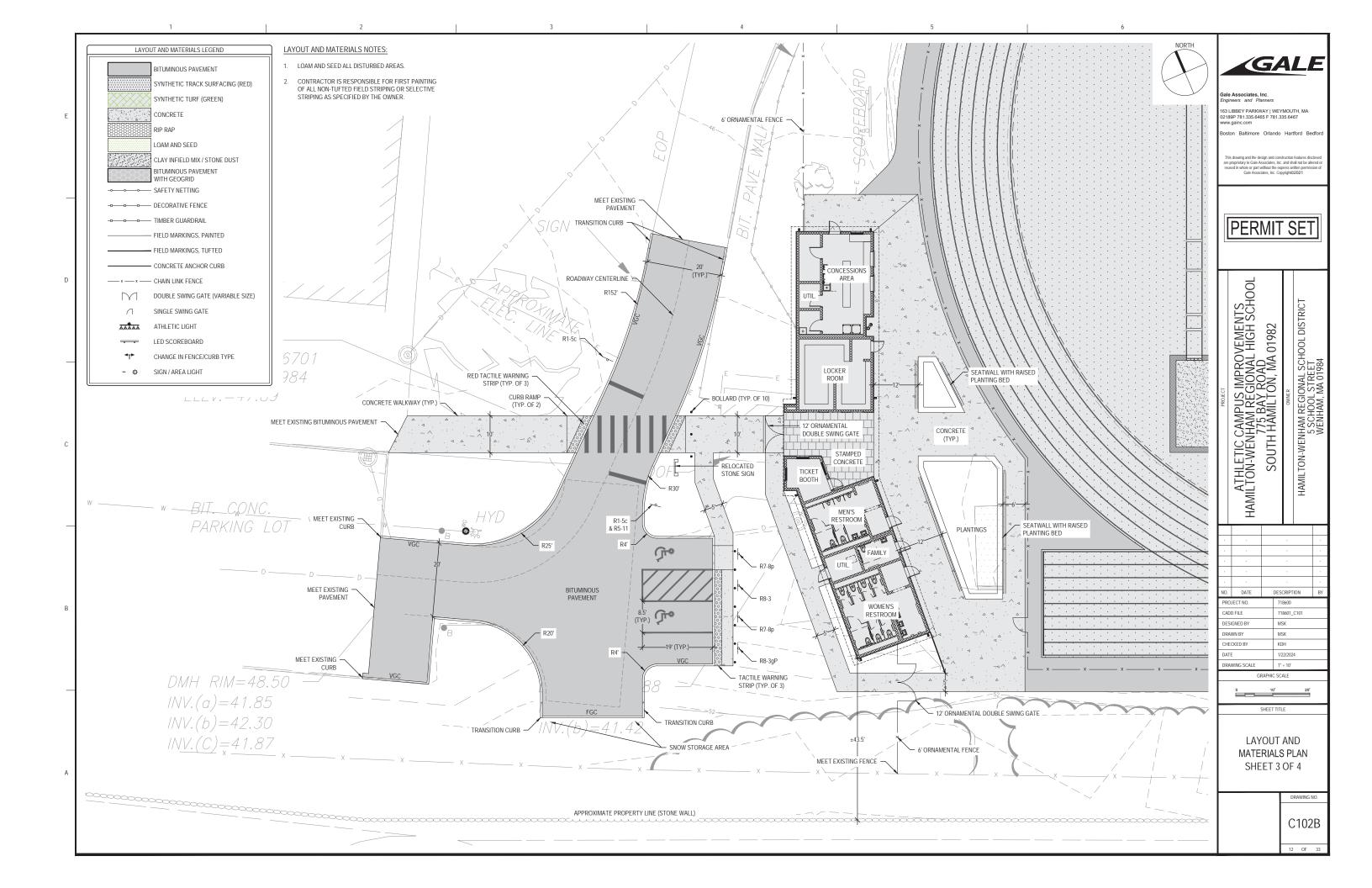
G002

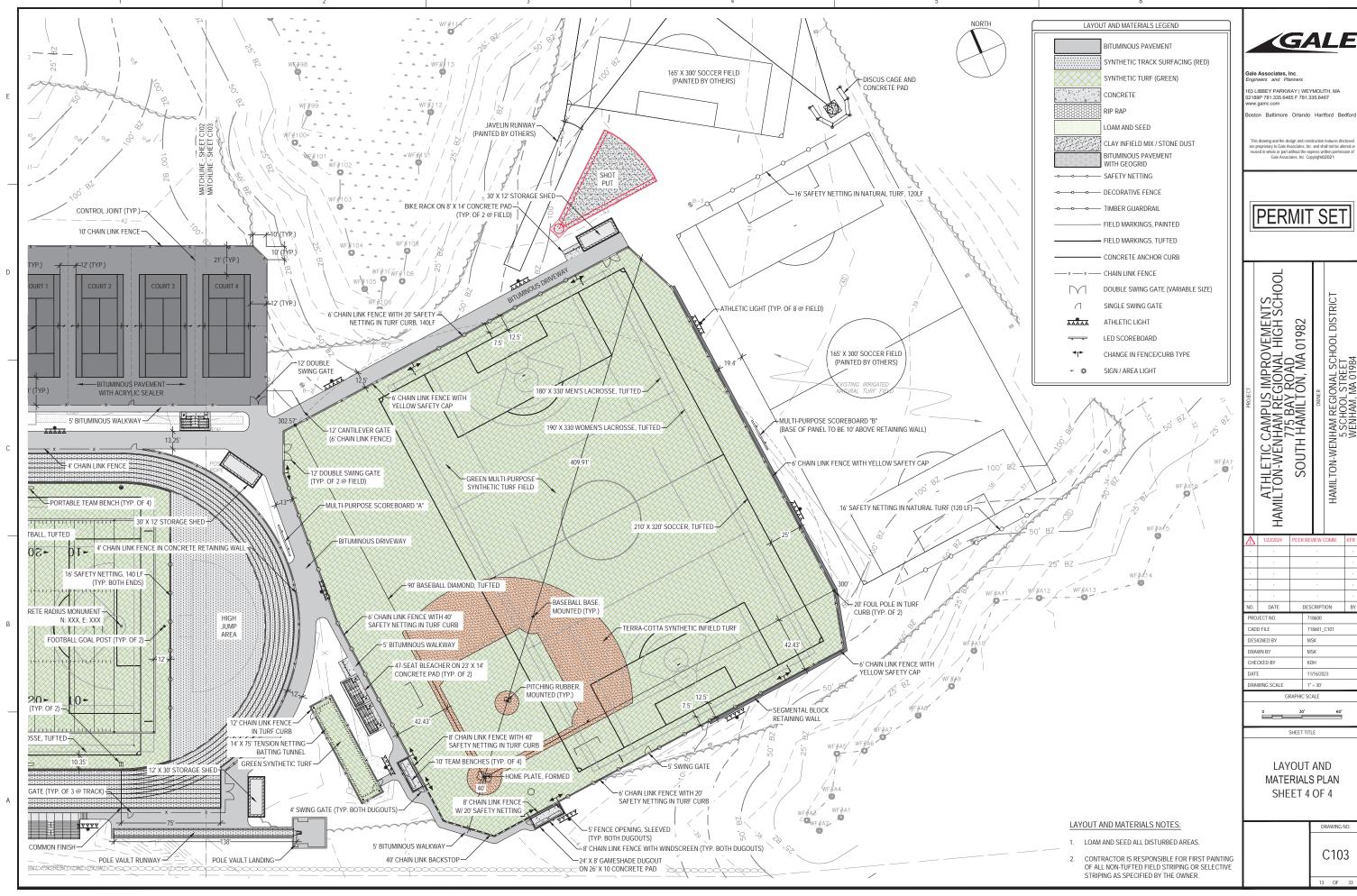
2 OF

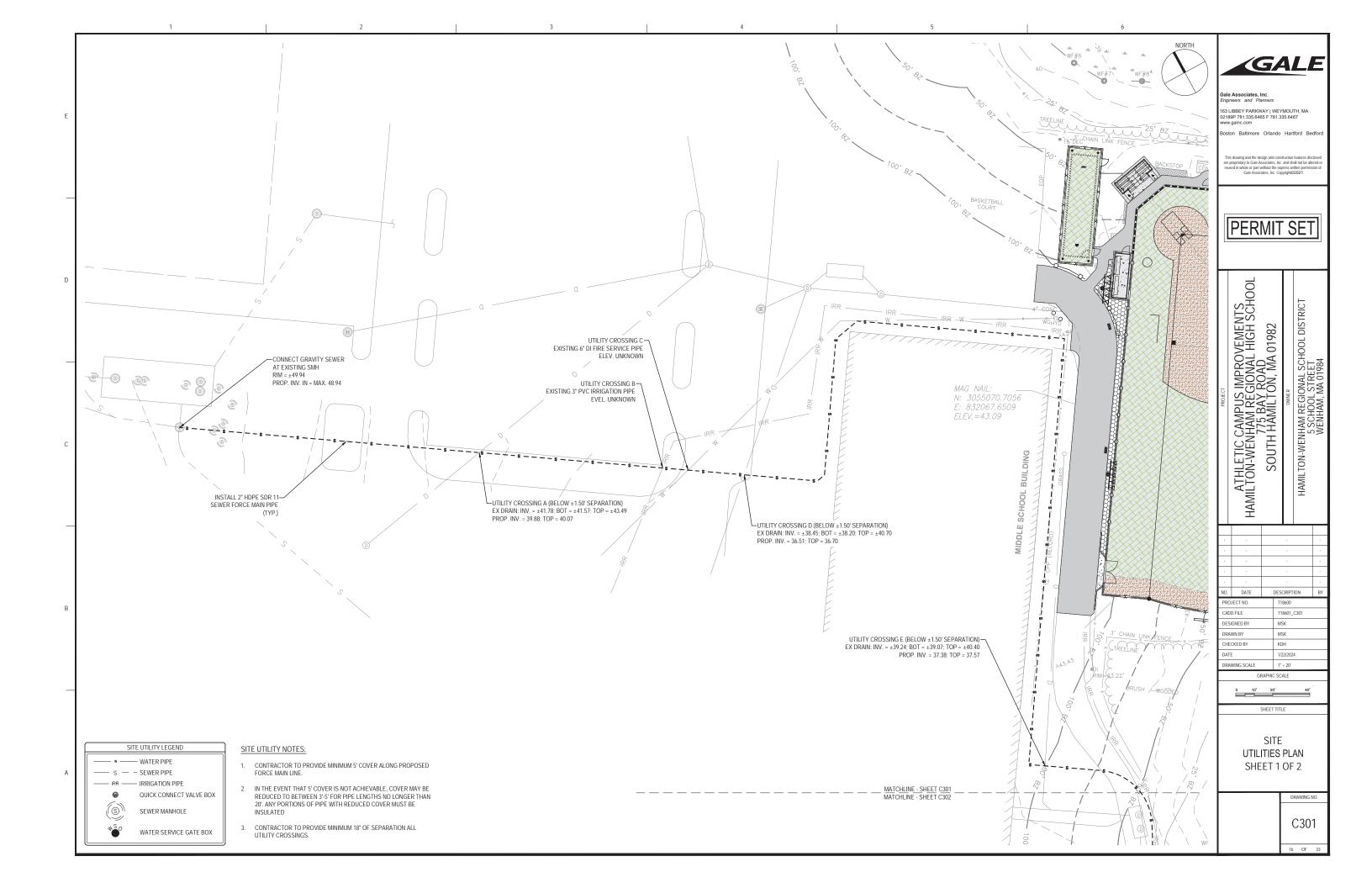


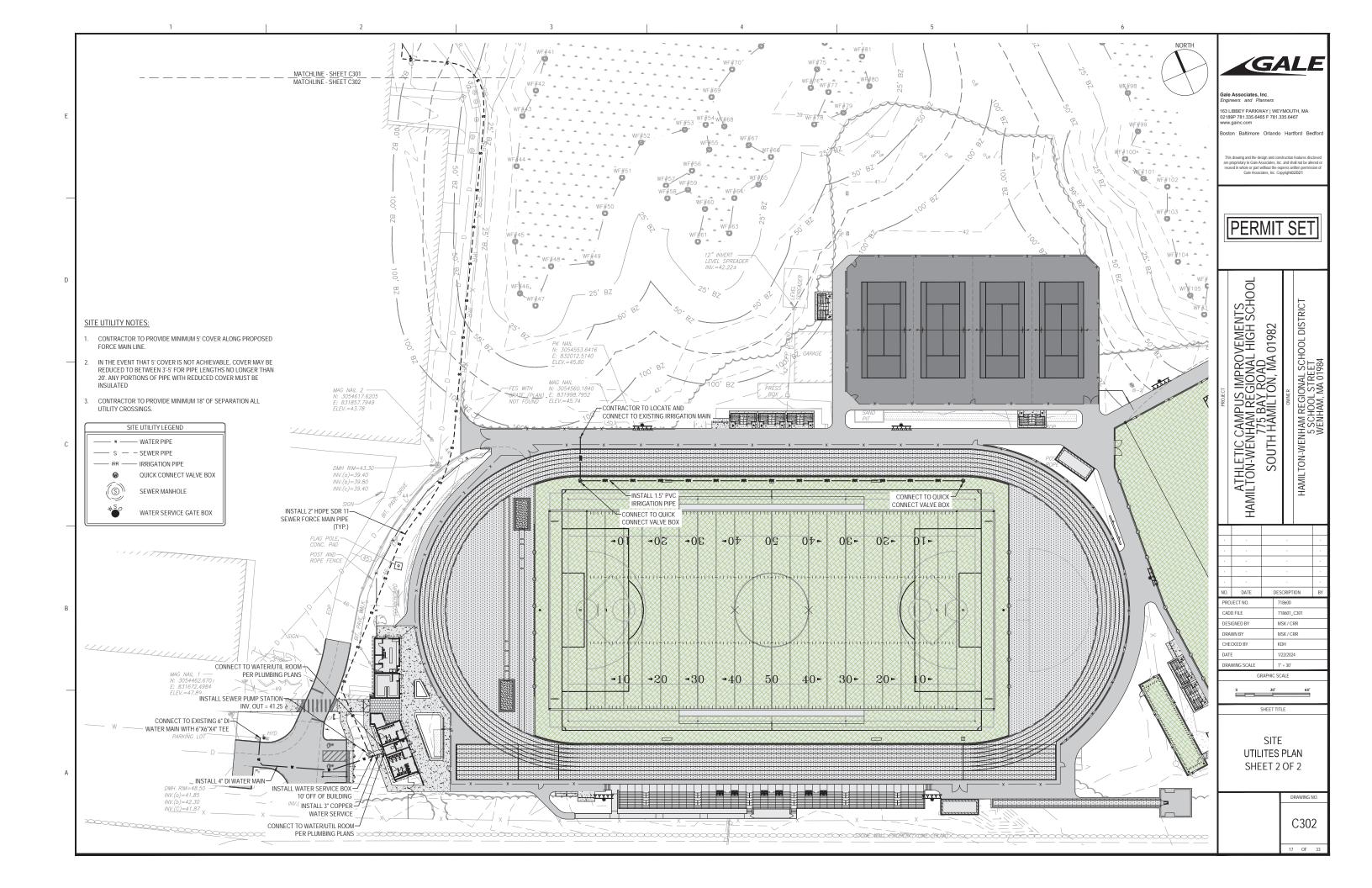


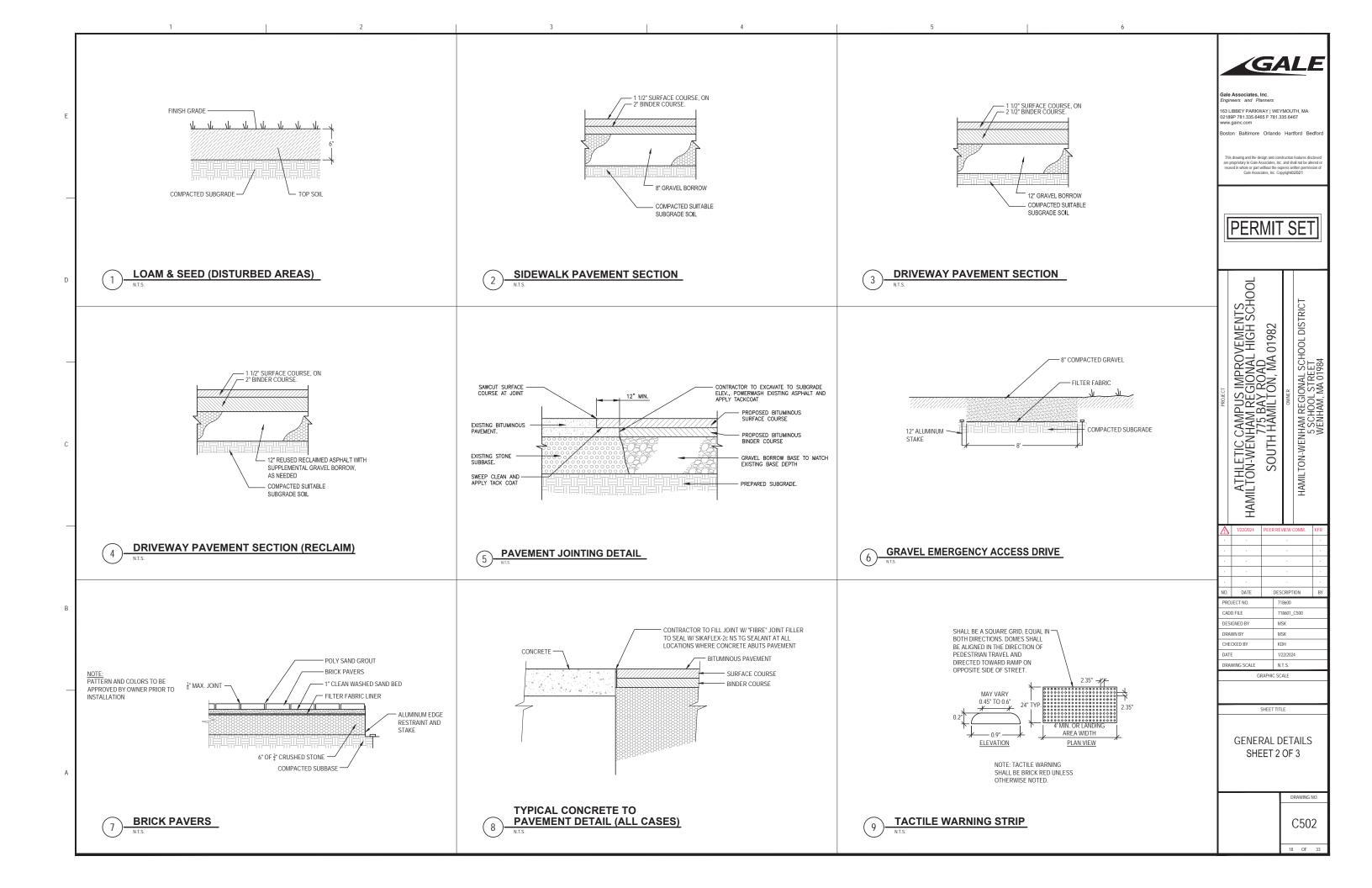


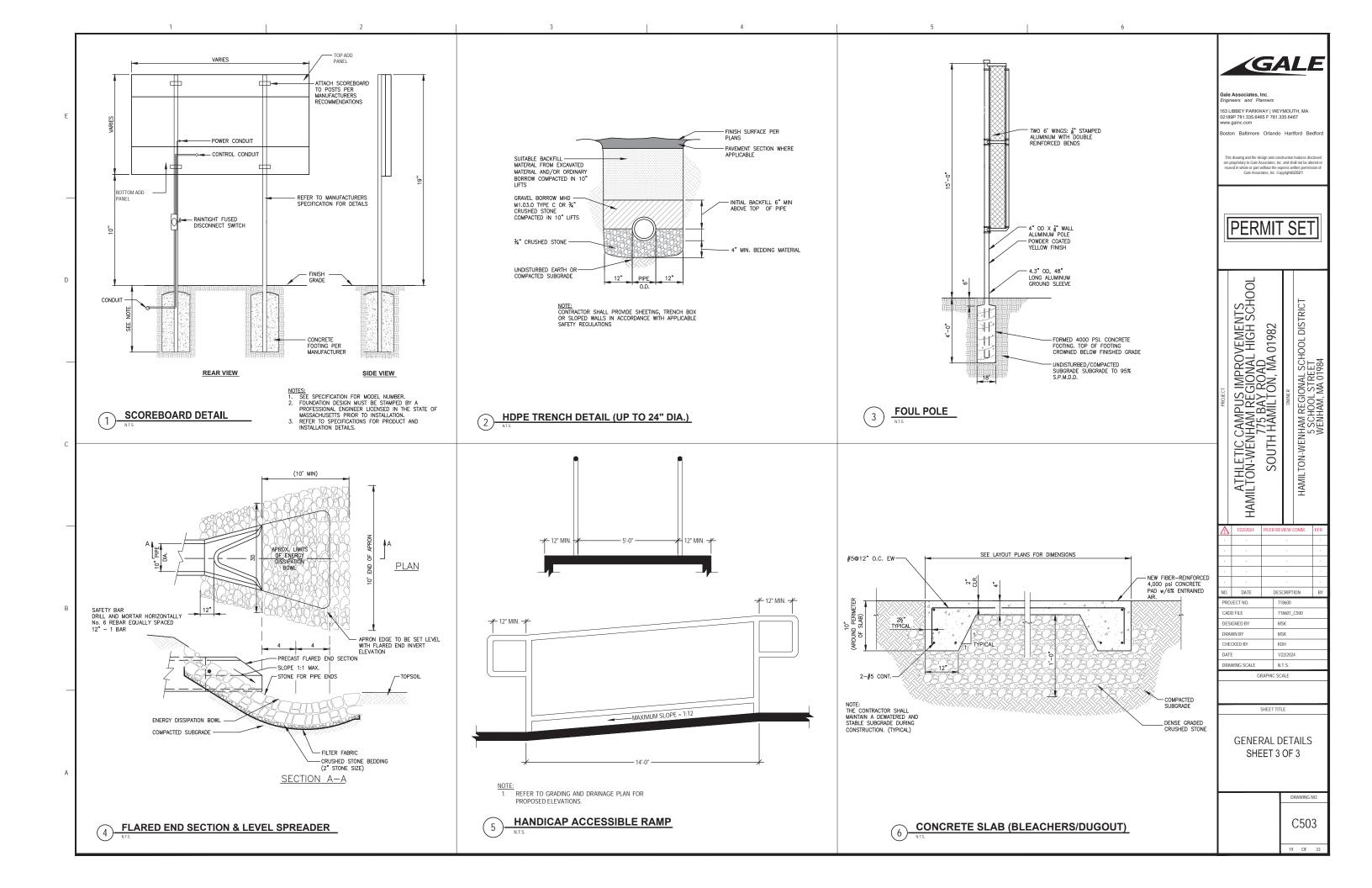


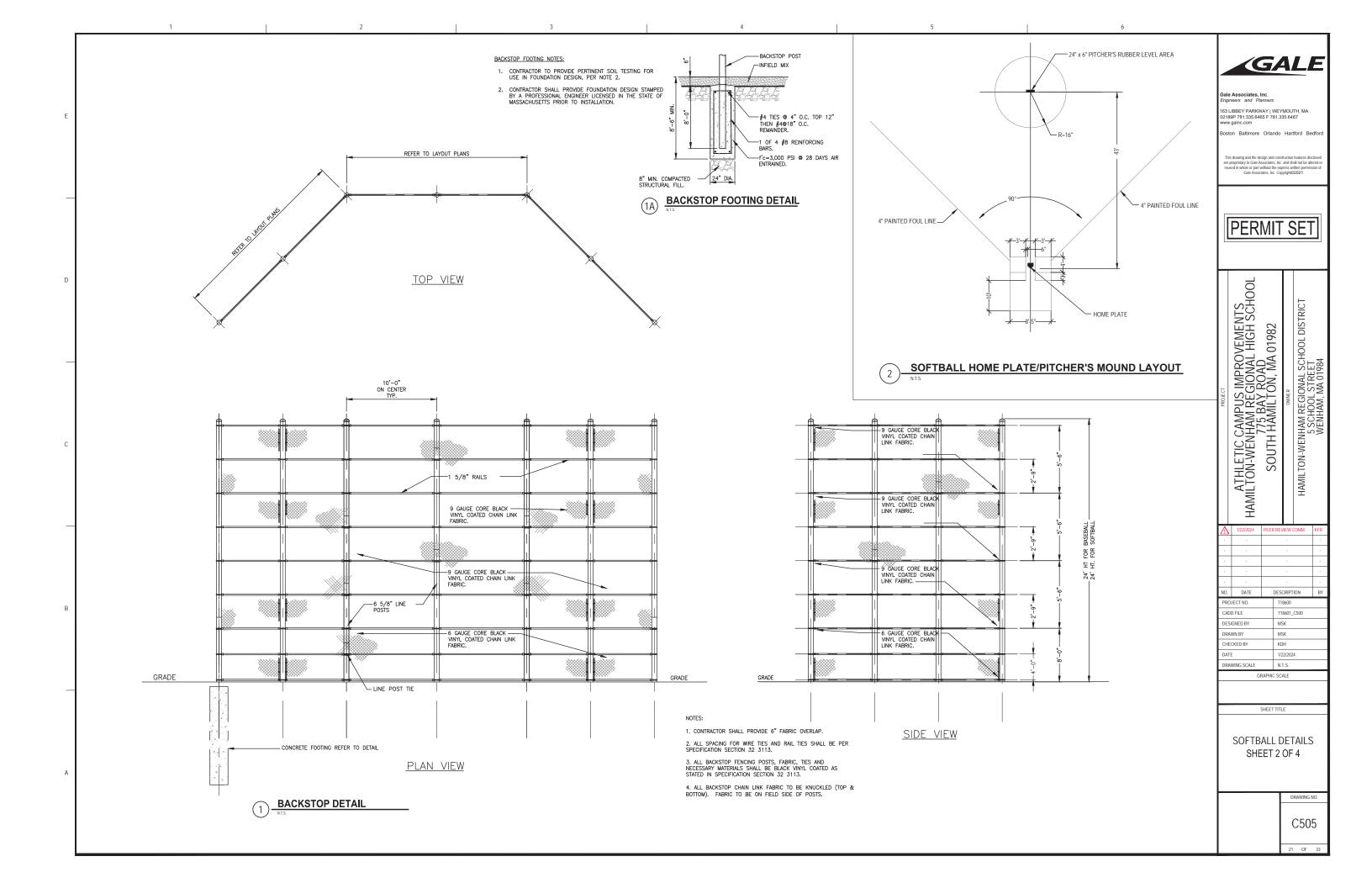


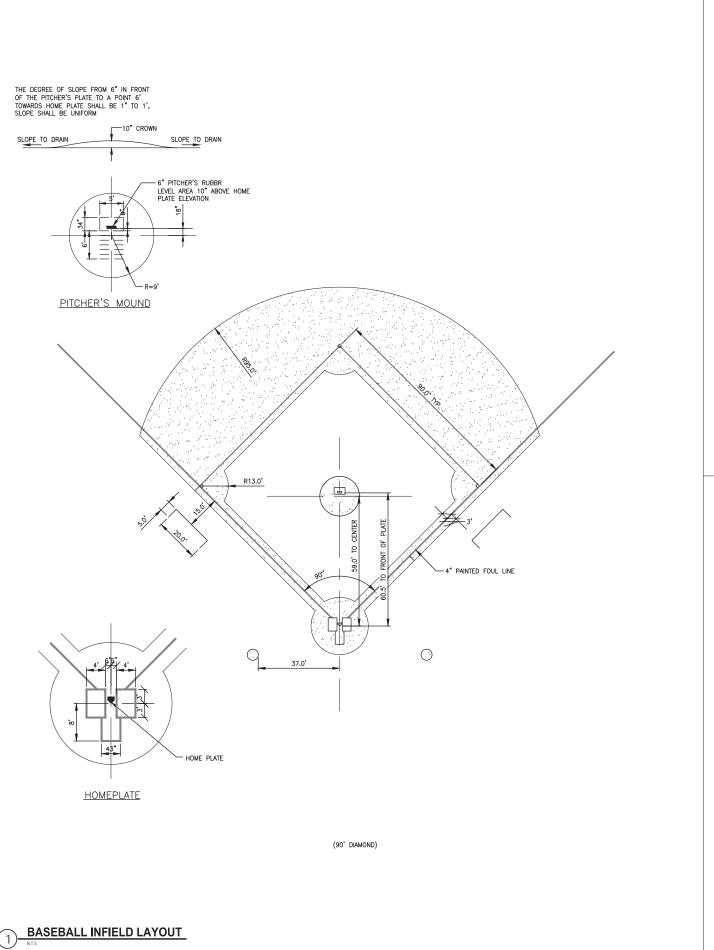




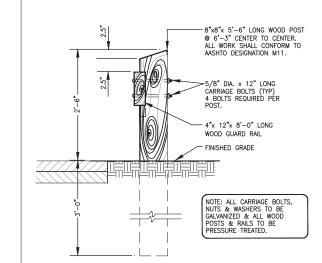








-6" SCHEDULE 40 GALVANIZED
SIEEL PIPE FILLED WITH
CONCRETE WITH BLACK VINYL SLEEVE.

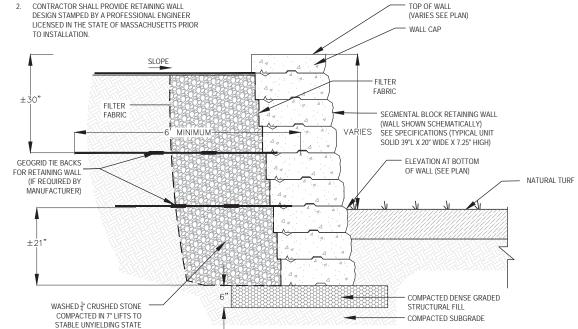


TYP. WOODEN GUARD RAIL DETAIL

BACKSTOP FOOTING NOTES:

 CONTRACTOR TO PROVIDE PERTINENT SOIL TESTING FOR USE IN RETAINING WALL DESIGN, PER NOTE 2.

BOLLARD DETAIL



4 SEGMENTAL BLOCK RETAINING WALL



Gale Associates, Inc.

Engineers and Planners

163 LIBBEY PARKWAY | WEYMOUTH, M. 02189P 781.335.6465 F 781.335.6467

Boston Baltimore Orlando Hartford Bedfor

This drawing and the design and construction features discloses are proprietary to Gale Associates, Inc. and shall not be altered reused in whole or part without the express written permission or Gale Associates, Inc. Copyright@2021

PERMIT SET

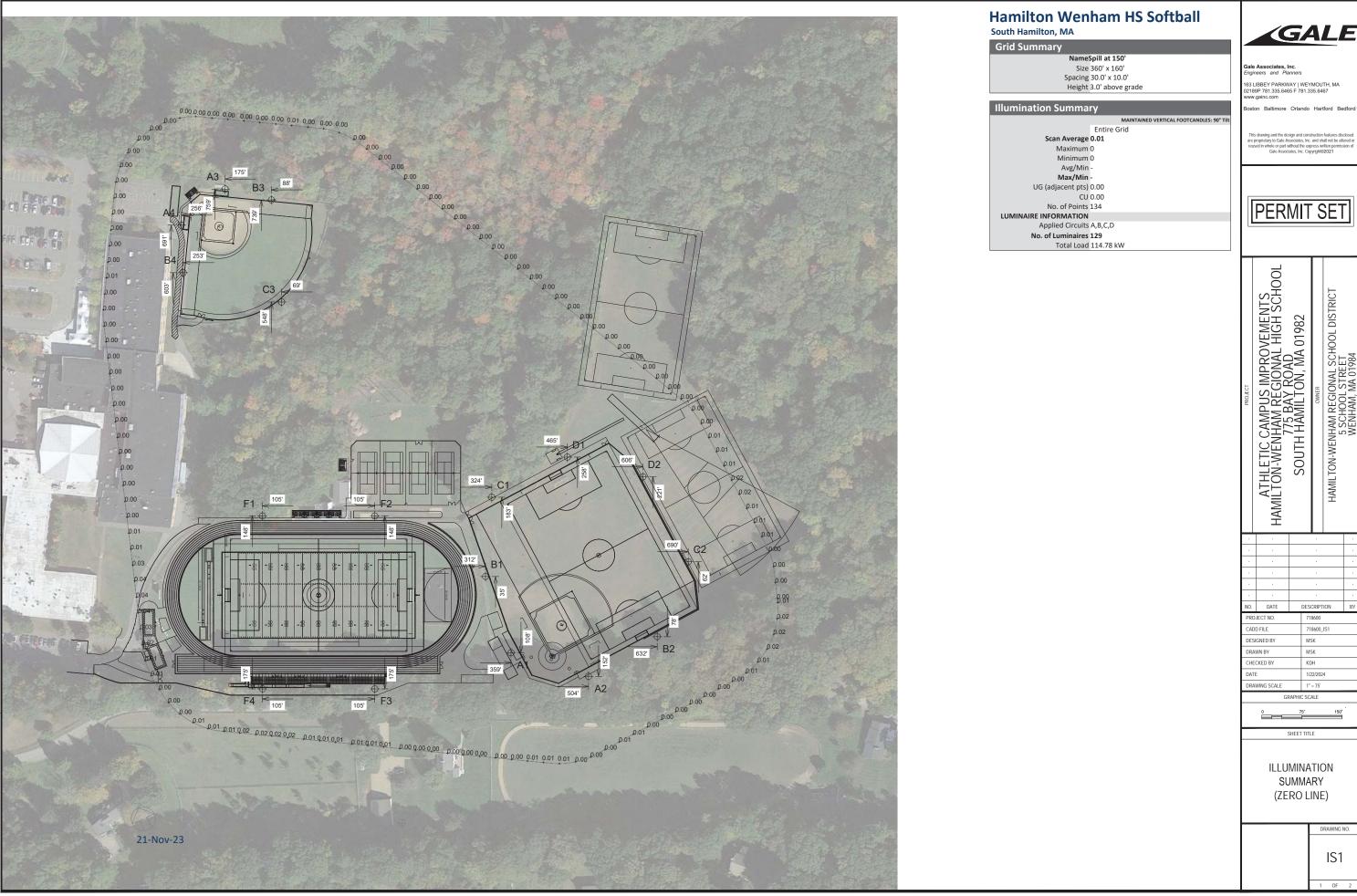
ATHLETIC CAMPUS IMPROVEMENTS
HAMILTON-WENHAM REGIONAL HIGH SCHOOL
775 BAY ROAD
SOUTH HAMILTON, MA 01982

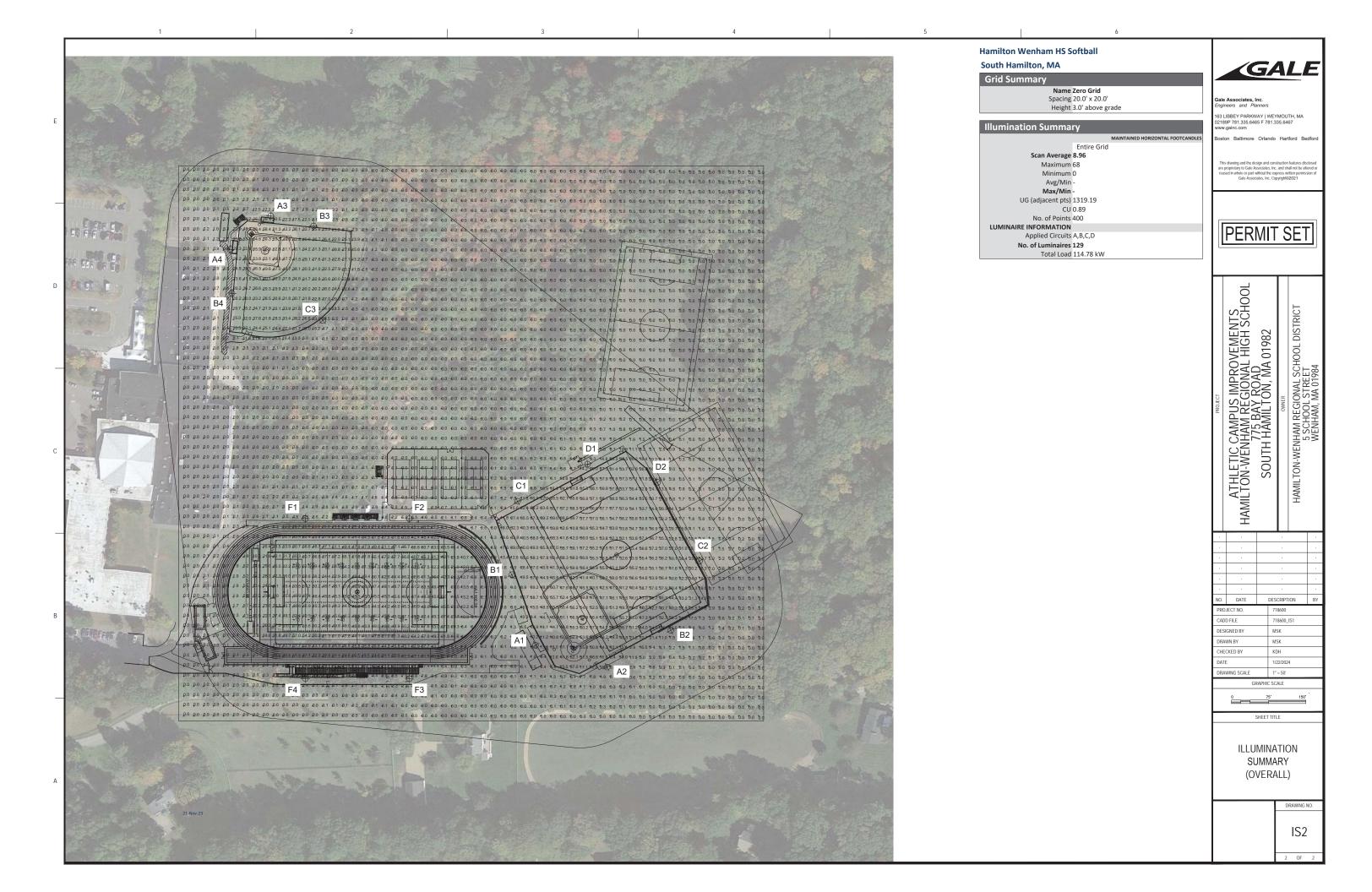
HAMILTON-WENHAM REGIONAL SCHOOL DISTRICT
5 SCHOOL STREET
WENHAM, MA 01984

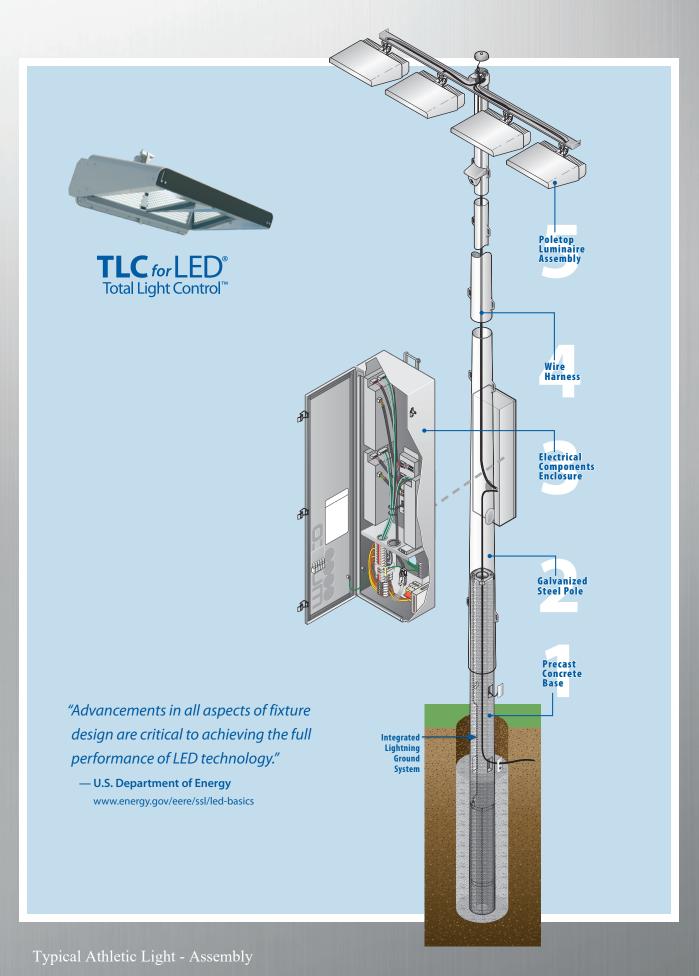
SHEET TITLE

MAIN ATHLETIC CAMPUS DETAILS SHEET 7 OF 11

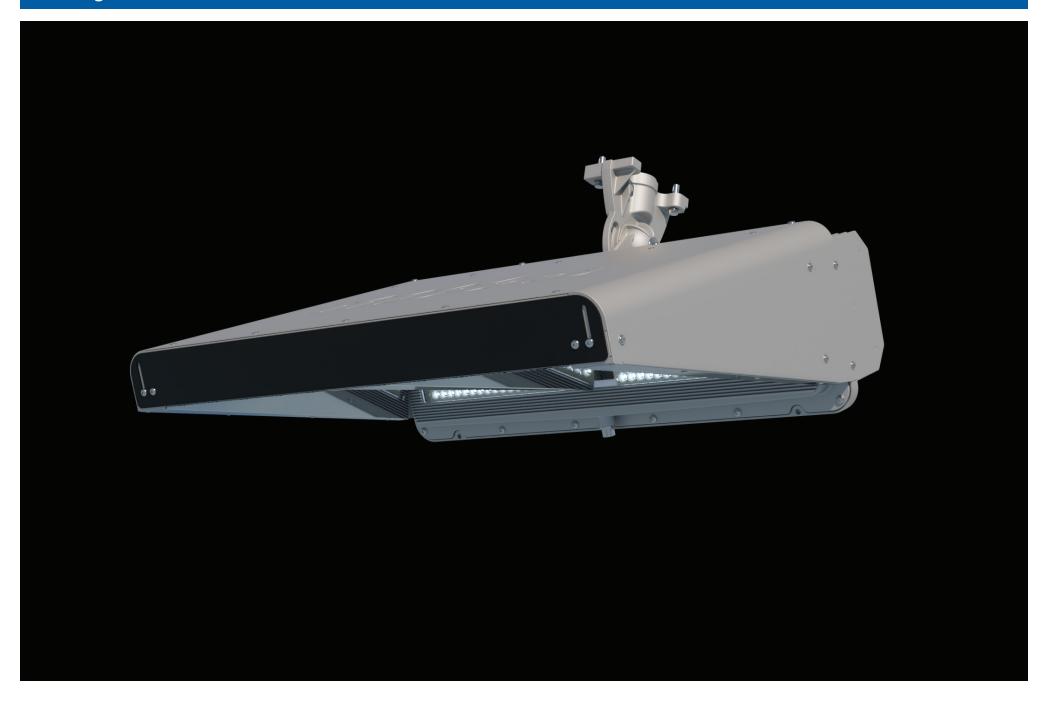
C514

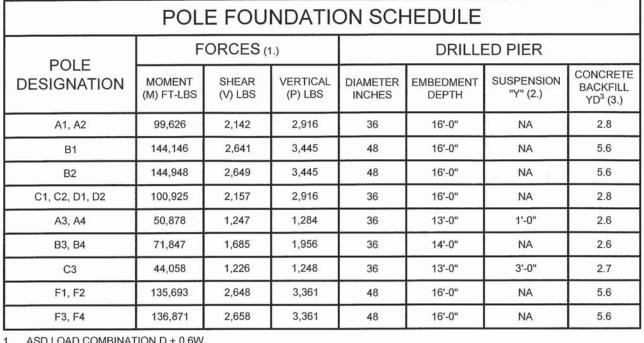






Total Light Control™-TLC-LED-1200 Luminaire





- ASD LOAD COMBINATION D + 0.6W.
- VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT)
- SUSPEND PRECAST BASE "Y" OFF THE BOTTOM OF THE EXCAVATION DURING MONOLITHIC CONCRETE BACKFILL PLACEMENT AND CURING. NA = NOT APPLICABLE, SUSPENSION NOT REQUIRED.
- MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL

PRECAST BASE IDENTIFICATION **PRECAST PROJECTION** STANDARD OUTSIDE **PRECAST PRECAST** ABOVE GRADE **EMBEDMENT BASE TYPE** BASE WEIGHT BASE LENGT DIAMETER 12.00" 1,690 LBS 7'-3" 10'-0" 2B 17'-3" 3B 2,470 LBS 20'-0" 8'-0" 12'-0" 13.38" 4B 3,490 LBS 22'-0" 8'-0" 14'-0" 15.75" 5B 4,580 LBS 23'-11" 7'-11" 16'-0" 18.25"

POLE IDENTIFICATION					
POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT²)	
A1, A2	LSS80B	5B	6 (5)	13.5	
B1	LSS90A	5B	10 (7)	22.8	
B2	LSS90A	5B	10 (7)	22.8	
C1, C2, D1, D2	LSS80B	5B	6 (5)	14.0	
A3, A4	LSS70A	3B	3 (3)	7.2	
B3, B4	LSS70C	4B	6 (5)	13.0	
C3	LSS60A	2B	7 (4)	15.7	
F1, F2	LSS80B	5B	12 (5+5)	27.3	
F3, F4	LSS80B	5B	12 (5+5)	27.3	

- POLES B3 & B4 HAVE (1) MUSCO LED FIXTURE AT 30'-0" AGL INCLUDED ABOVE.
- POLES F3 & F4 HAVE (2) MUSCO LED FIXTURES AT 25'-0" AGL INCLUDED ABOVE.
- POLE B2 HAS (3) MUSCO LED FIXTURES AT 20'-0" AGL INCLUDED ABOVE.
- POLES A1, A2, C1, C2, D1, & D2 HAVE (1) MUSCO LED FIXTURE AT 15'-6" AGL INCL. ABOVE.
- POLES B1 & C3 HAVE (3) MUSCO LED FIXTURES AT 15'-6" AGL INCLUDED ABOVE.
- POLES F1 & F2 HAVE (2) MUSCO LED FIXTURES AT 15'-6" AGL INCLUDED ABOVE.

DESIGN NOTES

DESIGN PARAMETERS:

 $\overline{\text{WIND: V}_{\text{ult}}}$ = 127 MPH, $\overline{\text{V}}_{\text{asd}}$ = 98 MPH (EXPOSURE C, RISK CATEGORY II) PER MASSACHUSETTS STATE BUILDING CODE - 780 CMR, 9TH EDITION (IBC 2015 / ASCE 7-10).

GEOTECHNICAL PARAMETERS:

ALLOWABLE END BEARING SOIL PRESSURE: 3,000 PSF ALLOWABLE LATERAL SOIL BEARING PRESSURE:

0 PSF/FT (GRADE TO -2'-0"); 240 PSF/FT (-2'-0" TO -5'-0"); 115 PSF/FT (BELOW -5'-0") IN ACCORDANCE WITH MASSACHUSETTS STATE BUILDING CODE - 780 CMR, 9TH EDITION CHAPTER 18.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE GEOTECHNICAL ENGINEERING REPORT, FILE NO. 91770.00. PREPARED BY NOBIS ENGINEERING, INC.; CONCORD, NH.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

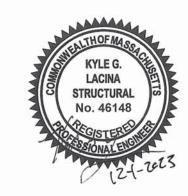
ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION.

CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM (IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OR BRACING DURING PRECAST BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3.000 PSI. 3.000 PSI CONCRETE SPECIFIED FOR EARLY POLE ERECTION, ACTUAL REQUIRED MINIMUM ALLOWABLE CONCRETE STRENGTH IS 1,000 PSI. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL

GENERAL NOTES:

FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H: 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION LIGHTING.



TON-WENHAM ΔA LIGHTING SCHOO HAMILTON, FIEL E H H HAMIL. ō S

O Δ. STRUCTURAL ENGINEERS, F

SCAN

PROJECT NUMBER

108724

DATE

01 DECEMBER 2023

DRAWING NUMBER

C1

OF ONE

SOIL BACKFILL SEE NOTE BELOW DRILLED PIER EMBEDMENT DEP SEE POLE FOUNDATION SCHEDU LIGHT STRUCTURE PRECAST BASE BY (SEE POLE ID) CONCRETE BACKFILL -UNDISTURBED, IN-SITU SOIL ~ SUSPEND PRECAST BASE "Y" OFF BOTTOM OF EXCAVATION DURING MONOLITHIC CONC. BACKFILL PLACEMENT AND CURING - A3, A4, C3 ONLY DRILLED PIER DIAMETER (SEE POLE FNDTN. SCH.)

POLE FOUNDATION ELEV.

PROCTOR TESTING (ASTM D698).

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

SCALE: NOT TO SCALE

SOIL BACKFILL NOTE:

LIGHT STRUCTURE-

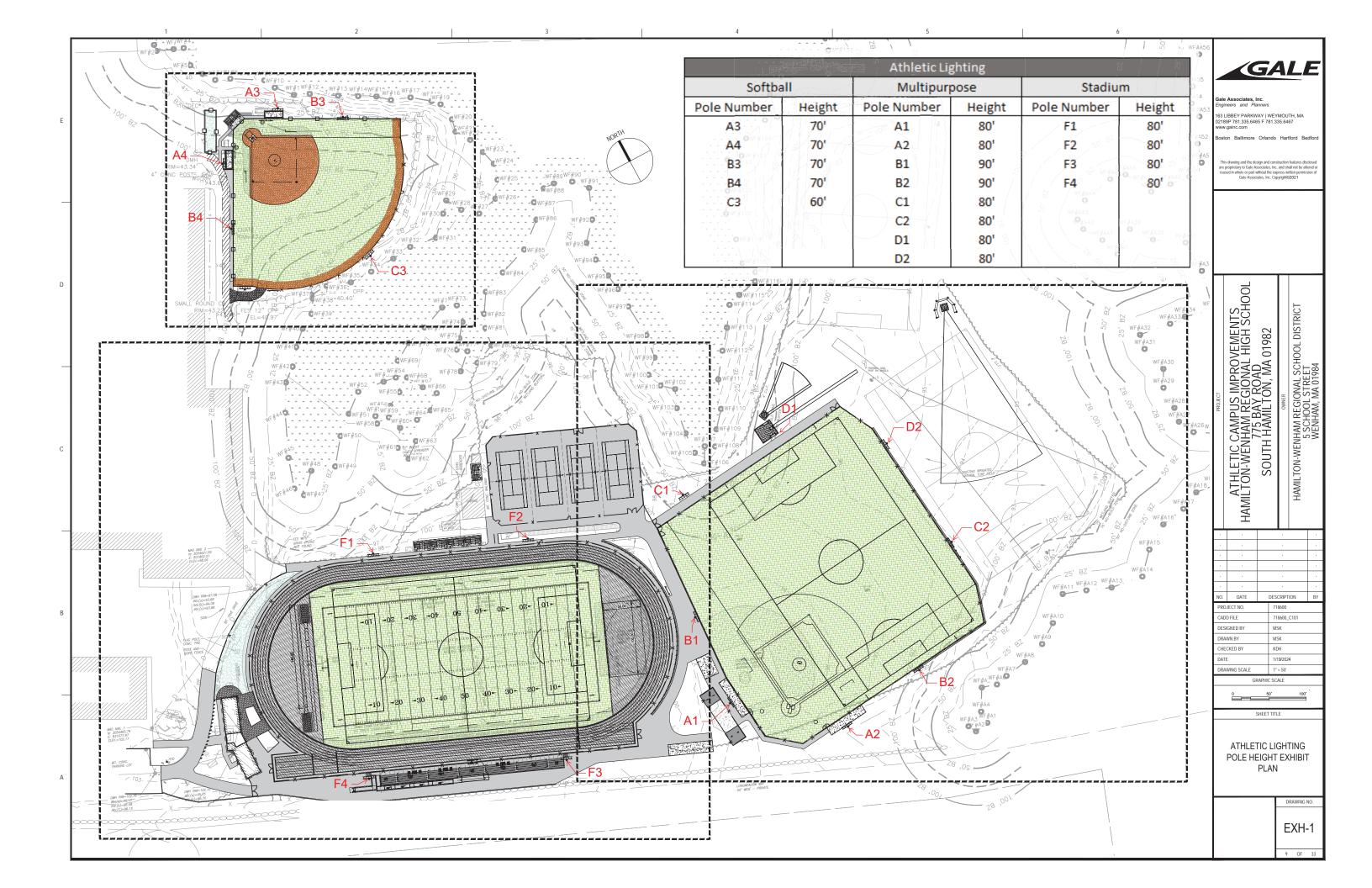
STEEL POLE BY

(SEE POLE ID)

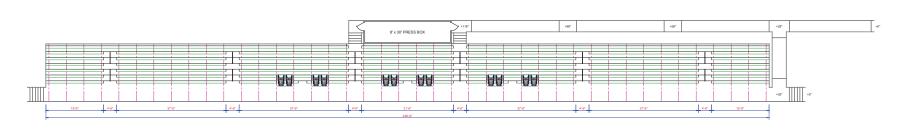
PRECAST BASE PROJECTION (SEE PRECAST BASE ID)



Progression of Athletic Lighting







SEATING MANIFEST

Bench Seating: 969
Wheelchair Seating: 12
Companion Seating: 12
Total: 993

SEATING PLAN

3/32"=1'-0"

