

Town of Sudbury

Community Preservation Committee

cpc@sudbury.ma.us

Flynn Building 278 Old Sudbury Road Sudbury, MA 01776 978-639-3387 Fax: 978-639-3314

www.sudbury.ma.us/cpc

PROJECT SUBMISSION FORM

Applicant:			Submission Date:	
Group or C	Committee Affiliation	on (if any):		
Applicant A	Address:		Purpose (please select all that apply):	
Applicant Email & Phone Number:			Open Space & RecreationCommunity HousingHistoric Resource	
Project Ma	nager Email & Pho	one Number:		
Project Naı	me:			
Project Des	scription:			
Costs:				
Fiscal Year	Total Project Cost	CPC Funds Requested	Other Funding Sources (Amount and Source)	
2024	3		7	
2025				
2026				
2027				
2028				
Total				
	nis project meet the C n Committee projects		egory Specific Criteria for Community	
or Departme	ents? If so, please lis	t the boards, committees	of other Town Boards, Committees, Commissions, so, commissions, or departments, whether what input or recommendations have been given.	
For Commun	ity Preservation Comm	nittee Use:		
Form Receive	ed On:		Project Presented to CPC On:	
Reviewed By	:		Determination:	

TOWN OF SUDBURY COMMUNITY PRESERVATION COMMITTEE

Guidelines for Project Submission

- 1) Each project request must be submitted to the Community Preservation Committee using the Project Submission Form as a cover sheet. Applications should be submitted in five (5) multiple copies and as an electronic PDF file.
- 2) Requests must include a statement of need and be documented with appropriate supporting information. The use of maps, visual aids, and other supplemental information is encouraged.
- 3) Obtain written proposals, estimates, quotes, and such other evidence to document project scope and cost.
- 4) If the request is part of a multi-year project, include the total project cost and allocations.
- 5) Describe the endorsement, support, or other recommendations, if any, by other Town Boards, Committees, Commissions, and Departments.
- 6) Provide examples of similar project proposals in other communities, if any, including examples of project scope, project cost, and status of completion.
- 7) For Applicants that have multiple project requests, please prioritize projects.
- 8) Requests must be received by **12:30 PM**, **Friday**, **October 7**, **2022** to be considered for recommendation at the May 2023 Annual Town Meeting.
- 9) Applicants must be present at a Community Preservation Committee meeting to answer questions. <u>The Community Preservation Committee meeting schedule has</u> been announced and is posted on the Town's website.

Please keep in mind there are legal limitations on the use of Community Preservation Act funds. Additional information on the Community Preservation Act and the Community Preservation Committee can be found on the Town's website at www.sudbury.ma.us, under Committees. The Community Preservation Committee can be reached by email at cpc@sudbury.ma.us. If you are in doubt about your project's eligibility after consulting these resources, you are encouraged to submit an application so the Community Preservation Committee can determine eligibility.

Please submit the Project Submission Form and accompanying documentation to:

Ryan Poteat, Community Preservation Coordinator c/o Planning and Community Development Department Flynn Building
278 Old Sudbury Road
Sudbury, MA 01776
PoteatR@sudbury.ma.us

TOWN OF SUDBURY COMMUNITY PRESERVATION COMMITTEE

General Criteria

The Sudbury Community Preservation Committee will give preference to proposals that address as many of the following general criteria as possible:

- Are eligible for Community Preservation Act (CPA) funding according to the requirements described in the CPA legislation;
- Are consistent with the Town's Master Plan, Open Space and Recreation Plan, Land Use Priorities Committee Report, Town-wide Comprehensive Facility Study, Community Housing Plan, and other planning documents that have received wide scrutiny and input and have been adopted by the Town;
- Receive endorsement by other municipal boards, committees, commissions, or departments.
- Preserve the essential character of the town as described in the Master Plan;
- Save resources that would otherwise be threatened and/or serve a currently under-served population;
- Either serve more than one CPA purpose (especially in linking open space, recreation, and community housing) or demonstrate why serving multiple needs is not feasible;
- Demonstrate practicality, feasibility, urgency;
- Demonstrate that the project can be implemented expeditiously and within budget;
- Demonstrate that project alternatives, and alternative funding mechanisms, have been fully explored;
- Produce an advantageous cost/benefit value;
- Leverage additional public and/or private funds; and
- Preserve or utilize currently owned Town assets.

Category Specific Criteria

Open Space proposals that address as many of the following specific criteria as possible will receive preference:

- Permanently protect important wildlife habitat, including areas that:
 - are of local significance for biodiversity;
 - contain a variety of habitats, with a diversity of geologic features and types of vegetation;
 - contain a habitat type that is in danger of vanishing from Sudbury; or
 - preserve habitat for threatened or endangered species of plants or animals;
- Preserve Sudbury's rural and agricultural character;
- Provide opportunities for passive recreation and environmental education;
- Protect or enhance wildlife corridors, promote connectivity of habitat or prevent fragmentation of habitats;
- Provide connections with existing trails or potential trail linkages;
- Preserve scenic views:
- Border a scenic road:
- Protect drinking water quantity and quality;
- Provide flood control/storage;
- Preserve important surface water bodies, including wetlands, vernal pools or riparian zones; and
- Preserve a parcel identified in the 2009-2013 Open Space and Recreation Plan.

Recreation proposals that address as many of the following criteria as possible will receive preference:

- Support multiple recreation uses;
- Serve a significant number of residents;
- Expand the range of recreational opportunities available to Sudbury residents of all ages;
- Jointly benefit Conservation Commission and Park and Recreation Commission initiatives by promoting passive recreation, such as hiking, biking, and cross-country skiing, on town owned property;
- Maximize the utility of land already owned by Sudbury (e.g. school property); and
- Promote the creative use of railway and other corridors to create safe and healthful non-motorized transportation opportunities.

Community Housing proposals that address as many of the following criteria as possible will receive preference:

- Contribute to the goal of 10% affordability;
- Conform to the Town's Housing Production Plan;
- Promote a socioeconomic environment that encourages a diversity of income;
- Provide housing that is harmonious in design and scale with the surrounding community;
- Intermingle affordable and market rate housing at levels that exceed state requirements for percentage of affordable units;
- Ensure long-term affordability;
- Promote use of existing buildings or construction on previously-developed or Town-owned sites;
- Convert market rate to affordable units; and
- Give priority to local residents, Town employees, and participants in the Sudbury METCO program.

Historic Resource proposals that address as many of the following criteria as possible will receive preference:

- Protect, preserve, enhance, restore, and/or rehabilitate historic, cultural, architectural, or archaeological resources of significance, especially those that are threatened; and in the case of proposals on private property, the proposal and/or proponent meet certain economic criteria as may be required by the Community Preservation Committee;
- Protect, preserve, enhance, restore and/or rehabilitate Town-owned properties, features or resources of historical significance;
- Protect, preserve, enhance, restore, and/or rehabilitate the historical function of a property or site;
- Project is within a Sudbury Historic District, on a State or National Historic Register, or eligible for placement on such registers, or on the Sudbury Historic Properties Survey;
- Project demonstrates a public benefit; and
- Project demonstrates the ability to provide permanent protection for maintaining the historic
 resource; and in the case of proposals on private property, the proposal and/or proponent have
 demonstrated additional protective measures and have met additional criteria, as may be imposed
 by the Community Preservation Committee, to ensure the continued permanent protection of the
 historic resource.

Frank Feeley Field Park Improvements

Statement of Need:

The Frank Feeley Field is home to town tennis courts, as well as several softball fields and a baseball field. There is (1) 90 Ft lighted baseball diamond with a press box, bleachers, concession area and restrooms; (3) 60 Ft softball diamonds on two field levels and (6) tennis courts.

The softball diamonds have several safety issues regarding lack of protection from foul balls and the sun. Further, the swamp-like conditions on the two lower fields limit utilization during the key playing season. Due to encroaching steep slopes between fields and extensive water run-off from the parking lot and upper field, attempts to provide permanent benches fail due to shifting grounds.

Sudbury Girls Softball (SGS) is requesting funding for field improvements for the softball fields at Feeley Fields to provide a safe environment for the girls and adults softball to play. Our primary concern is safety for the children. The following request for funding focuses on immediate safety needs of the three softball fields at Feeley. Future funding requests also noted in this document, seek to address substantial usability issues at the lower two Feeley fields.

Phase I – Address Safety Issues Concerns (Bidding Phase I Late Winter/Spring) work to begin summer 2023

The girls' softball fields in Sudbury do not have protective dugouts which is common in all other ball fields in Sudbury, to shield the players from foul balls, overthrows and peak sun. SGS is requesting funds for the construction of dugouts for Upper Feeley and Feeley #1 softball diamonds.

Second, due to the close proximity of the tennis courts to the field at Upper Feeley, foul balls are frequently hit onto the tennis courts or the area where children, spectators and families are sitting or standing during games. The lack of protection from foul balls is creating a dangerous environment. SGS is requesting funding to construct a protective netting on the first base side of Upper Feeley softball diamond to provide spectator and tennis player protection. It should be noted that when the citizens of Sudbury are playing tennis, their backs are to the softball field, so there is little warning as a hard-hit foul ball flies into the court. We have been lucky to date that a spectator or a resident of Sudbury playing tennis while a softball game or practice takes place has not had a significant injury due to a stray flying softball.

Third, the SGS batting cage sits in the Feeley Field parking lot which has a steady flow of cars coming in and out of the area. SGS is requesting funding to build a

Timber guardrail to provide a barrier between the batting cage and the parking lot for the SGS players who practice frequently in the SGS batting cage.

This Phase I request will provide substantive safety improvements to (2) primary softball diamonds, Upper Feeley and Feeley #1, as well as the key practice area around the batting cage.

An additional component of the Phase 1 request is for CPC funds to contribute towards the design costs associated with all the field improvements. Design costs will include accounting for the significant water issues at Lower Feeley fields and how to level the slope to manage drainage utilizing retaining wall(s) and other methods to manage the water flow. The design will accommodate the current accessibility issues that exist.

Phases II Updated

SGS would like the Committee to consider future funding to complete the key repairs to bring all three of the Feeley softball diamonds up to the standards of other town fields.

In future phases, SGS feels it is critical to address the swamp-like conditions at the Feeley #1 and #2 softball diamonds. Due to Upper Feeley and parking lot run-off, combined with generally wet conditions in lower Feeley, large parts of the outfield, as well as, the third base line and bench area at Feeley #1 and the first base line and bench area at Feeley #2 are unusable for weeks at a time due to swamp conditions. There have been wet springs were SGS could not use all of their fields until the middle of June, when the season is almost over. The puddles create hazards for the players and coaches and are a breeding ground for insects and mosquitos due to the stagnant water. Stagnant water increases the threat of mosquitoes who may carry disease such as Eastern Equine Encephalitis (EEE), West Nile, etc. It is critical to minimize areas of stagnant water at these softball fields.

Due to the challenging location of Feeley #2 with little access for construction equipment, SGS believes construction of dugouts at Feeley #2 should be done at a later juncture (Phase II) because of the potential field disruption by the construction.

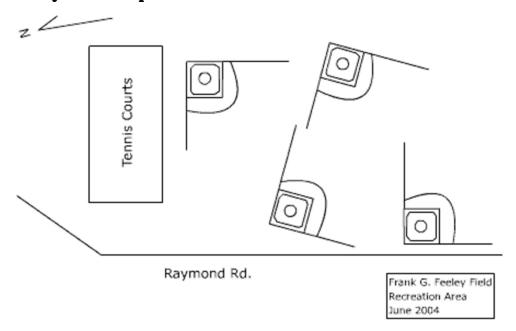
Phase II is extremely critical, but the most disruptive phase of SGS's request which would be the water remediation work that is needed on both lower Feeley diamonds #1 and #2. Installing interceptor drain to capture the Upper Feeley water run-off combined with a network of field drainage piping would enable SGS and other interested groups and families the ability to enjoy fully functioning softball fields all year round, including the wet season. Due to the disruption, SGS feels this project should be done in a separate phase and the critical safety projects serve as first priority.

SGS has seen a continued growth in girl/family participation. SGS has expanded its age groups and has programs throughout the year ranging from kindergarten through high school. In addition, the work over the past decade that SGS has done building interest and participation in town is showing results at the high-school level.

With the continued growth in participation, SGS needs all three Feeley softball diamonds available and fully operational during all three seasons Spring, Summer and Fall.

SGS respectfully requests consideration by the Committee to support the design and development of the Feeley softball field improvements funded by the Community Preservation Act funds.

Feeley Field Map



https://www.bing.com/maps?v=2&cp=42.35655%7E-71.42033&style=o&lvl=1&tilt=90&dir=0&alt=-1000&scene=2874195&rtp=null%7Enull&wa=wsignin1.0

Community Preservation Committee General Criteria

• Eligibility for Community Preservation Act (CPA) funding

This project is eligible for Community Preservation Act (CPA) funding according to the requirements described in the CPA legislation.

Improvement project meets the Recreation category of CPA eligibility since it is rehabilitating the surface of an outdoor recreational facility on property dedicated to outdoor activity. The Frank Feeley Field improvements would increase use of these recreational areas, serving the general public (available to all residents), and expands the use to allow all access to all area of the fields.

• Endorsements by other municipal boards or departments

The Frank Feeley Field Park is endorsed by the following Municipal Boards, Committees, Departments, and community organizations:

- Parks & Recreation Commission
- o Parks & Recreation Department
- o Public Works Department
- o Parks and Grounds Department
- o Sudbury Youth Girls Softball
- Sudbury Adult Ladies Softball
- o Sudbury Men's Softball League
- Saves resources that would otherwise be threatened and/or serve a currently under-served population:
 - Our goal is to have a similar structure as the boys' baseball fields providing safety and shelter from stray balls. To date, we are not aware of any capital funds being slated for the improvement of the fields for softball. This request for funding is to keep this vibrant softball community strong with quality fields that may be equal or similar to the fields used by the baseball community.
- Either serve more than one CPA purpose (especially in linking open space, recreation, and community housing) or demonstrate why serving multiple needs is not feasible.
- Demonstrate practicality, feasibility, urgency

The safety of the players, bystanders and citizens of Sudbury who use the tennis courts continues to be a pressing concern. Sudbury Girls Softball is a thriving community. SGS provide a forum for girls in Sudbury to learn a great team sport, develop confidence and athleticism. The instruction provided for girls K-9 has led to successful seasons at Curtis Middle School and Lincoln Sudbury high school. SGS and Sudbury Women's Softball need Feeley Fields to continue to practice and play softball in a safe environment. Without much needed improvements, SGS will continue to underutilize Feeley fields due to the unsafe and wet conditions.

• Demonstrate that the project can be implemented expeditiously and within budget.

Funding at the May 2023 ATM will enable the project to be bid on during 2023-2024 season with an anticipated construction commencement early Spring 2024 or sooner.

Park & Recreation Dept. has been working with Warner Larson Landscape Architects to break down the project into sections based on scope of work. These costs reflect realistic costs also factoring in markups for contingency, general conditions, overhead, profit and 2 years escalation. We are basing our budget numbers on recent prevailing-wages projects that factor in more durable dugout construction and accessibility. The more sections that are done at one time may lead to design/mobilization savings.

Phase 2: Includes safety needs for Lower Feeley 2, ADA, drainage and irrigation for the lower Feeley fields \$899,668

Feeley Field Sudbury - Phase-2 -					
Renovation Cost Estimate					
9/30/2022					
Field area		sf	120,000		
Description	Quantity	Unit	Unit Cost	Estimated Cost	
SITE PREPARATION & DEMOLITION					
Site mobilization	1	ls	\$10,000.00	\$10,000.00	
Site construction fence	1,200	lf	\$12.00	\$14,400.00	
Site Construction gate & construction	1	loc	\$5,000.00	\$5,000.00	
entrance					
erosion control wattles	1,200	lf	\$6.00	\$7,200.00	
remove and dispose of benches	2	ea	\$500.00	\$1,000.00	
prep skinned infield for re-surfacing (2 fields)	17,000	sf	\$0.15	\$2,550.00	
deep core areate lawn, R&D of cores	100,000	sf	\$0.45	\$45,000.00	
				\$85,150.00	SITE PREP DEMO
					SUBTOTAL
EARTHWORK AND SOIL PROFILE					
sand top dressing	309	су	\$55.00	\$16,975.31	
50mm drainage system (@20' OC)	3,500	lf	\$18.00	\$63,000.00	
8" collector pipe	420	lf	\$65.00	\$27,300.00	

outlet structure	1	ea	\$4,500.00	\$4,500.00	
install sand slits (@ 12" OC)	100,000	sf	\$0.55	\$55,000.00	
skinned infield top	17,000	sf	\$1.25	\$21,250.00	
dressing/resurfacing					
				\$188,025.31	EARTHWORK SUBTOTAL
SITE IMPROVEMENTS			1	4	
Bit Conc, 4" Thick	2,000	sf	\$4.00	\$8,000.00	
Concrete team areas, 6" Thick	500	sf	\$12.00	\$6,000.00	
Concrete bleacher areas, 4" Thick	500	sf	\$12.00	\$6,000.00	
infiltration stone (infiltration trench)	100	су	\$52.00	\$5,200.00	
4" corrugated underdrain pipe	125	lf	\$40.00	\$5,000.00	
irrigation - spray heads and valves	100,000	sf	\$1.25	\$125,000.00	
irrigation - connection point/supply	350	lf	\$20.00	\$7,000.00	
line					
irrigation - controller	1	ls	\$5,000.00	\$5,000.00	
over seed field (slice seed install)	100,000	ls	\$0.35	\$35,000.00	
general lawn seed on disturbed areas	1	ls	\$2,500.00	\$2,500.00	
new CLF	50	lf	\$70.00	\$3,500.00	
retaining wall	120	lf	\$225.00	\$27,000.00	
Polyboard 2-tier bench (Sportsfield	4	ea	\$3,500.00	\$14,000.00	
Specialties)					
Gameshade Dugout (Sportsfield Specialties)	2	ea	\$19,500.00	\$39,000.00	
Structural Eng Stamp (Sportsfield Specialties)	1	ea	\$2,200.00	\$2,200.00	
Shipping (Sportsfield Specialties)	1	ea	\$2,500.00	\$2,500.00	
softball bases and plate	1	ls	\$7,500.00	\$7,500.00	
bleachers (for both field #1 and Field	2	ea	\$10,000.00	\$20,000.00	
#2)	-		7 = 5,555.55		
bleachers - shipping and	2	ea	\$2,500.00	\$5,000.00	
assembly/install					
				\$325,400.00	SITE IMPROVEMENT
					SUBTOTAL
			Table:	A-00 01	
			Total Site Development	\$598,575.31	
	1	ļ	Development	ļ	

<u>Feeley Field Sudbury - Phase-2 -Renovation Cost Estimate</u> 9/30/2022

	Field area		sf	120,000	
Description		Quantity	Unit	Unit Cost	Estimated Cost
SITE PREPARATION & DEMOLITION					
Site mobilization		1	ls	\$10,000.00	\$10,000.00
Site construction fence		1,200	lf	\$12.00	\$14,400.00
Site Construction gate & construction entrance		1	loc	\$5,000.00	\$5,000.00
erosion control wattles		1,200	lf	\$6.00	\$7,200.00
remove and dispose of benches		2	ea	\$500.00	\$1,000.00
prep skinned infield for re-surfacing (2 fields)		17,000	sf	\$0.15	\$2,550.00
deep core areate lawn, R&D of cores		100,000	sf	\$0.45	\$45,000.00
					\$85,150.00
EARTHWORK AND SOIL PROFILE					
sand top dressing		309	су	\$55.00	\$16,975.31
50mm drainage system (@20' OC)		3,500	Ly If	\$33.00 \$18.00	\$63,000.00
8" collector pipe		420	ı. If	\$65.00	\$27,300.00
outlet structure		1	ea	\$4,500.00	\$4,500.00
install sand slits (@ 12" OC)		100,000	sf	\$0.55	\$55,000.00
skinned infield top dressing/resurfacing		17,000	sf	\$1.25	\$21,250.00
skillied illied top dressing/resurfacing		17,000	31	71.25	\$188,025.31
SITE IMPROVEMENTS					
Bit Conc, 4" Thick		2,000	sf	\$4.00	\$8,000.00
Concrete team areas, 6" Thick		500	sf	\$12.00	\$6,000.00
Concrete bleacher areas, 4" Thick		500	sf	\$12.00	\$6,000.00
infiltration stone (infiltration trench)		100	су	\$52.00	\$5,200.00
4" corrugated underdrain pipe		125	lf	\$40.00	\$5,000.00
irrigation - spray heads and valves		100,000	sf	\$1.25	\$125,000.00
irrigation - connection point/supply line		350	lf	\$20.00	\$7,000.00
irrigation - controller		1	ls	\$5,000.00	\$5,000.00
over seed field (slice seed install)		100,000	ls	\$0.35	\$35,000.00
general lawn seed on disturbed areas		1	ls	\$2,500.00	\$2,500.00
new CLF		50	lf	\$70.00	\$3,500.00
retaining wall		120	If	\$225.00	\$27,000.00
Polyboard 2-tier bench (Sportsfield Specialties)		4	ea	\$3,500.00	\$14,000.00
Gameshade Dugout (Sportsfield Specialties)		2	ea	\$19,500.00	\$39,000.00
Structural Eng Stamp (Sportsfield Specialties)		1	ea	\$2,200.00	\$2,200.00
Shipping (Sportsfield Specialties)		1	ea	\$2,500.00	\$2,500.00
softball bases and plate		1	ls	\$7,500.00	\$7,500.00
bleachers (for both field #1 and Field #2)		2	ea	\$10,000.00	\$20,000.00
bleachers - shipping and assembly/install		2	ea	\$2,500.00	\$5,000.00
					\$325,400.00

SUMMARY		
TOTAL TRADE COST		\$ 598,575
PRICE ESCALATION CONTINGENCY TO START	7.5%	\$ 44,893
DESIGN CONTINGENCY	2.5%	\$ 14,964
SUB-TOTAL		\$ 658,433
GC OH&P	12.5%	\$ 82,304
CONSTRUCTION CONTINGENCY	10.0%	\$ 74,074
TOTAL OF ALL CONSTRUCTION		\$ 814,811

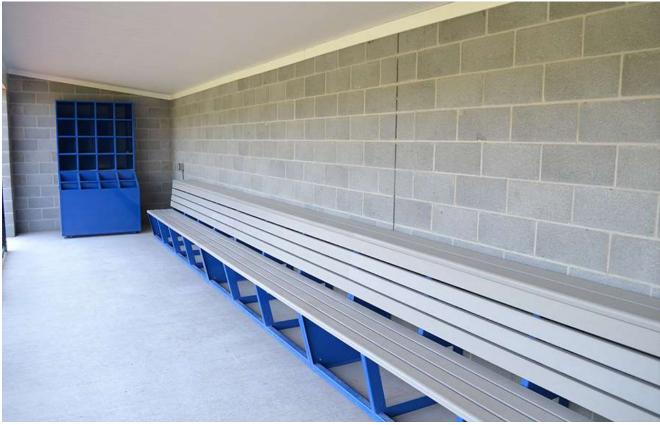
Design Fees (Thru project completion)			
Warner Larson Site Design	10%	\$ 59,858	
Warner Larson Permitting	budget	\$ 15,000	
Civil Engineer for Permitting			
(included above)			
Irrigation Design	budget	\$ 10,000	
TOTAL OF ALL DESIGNER FEES		\$ 84,858	

TOTAL			
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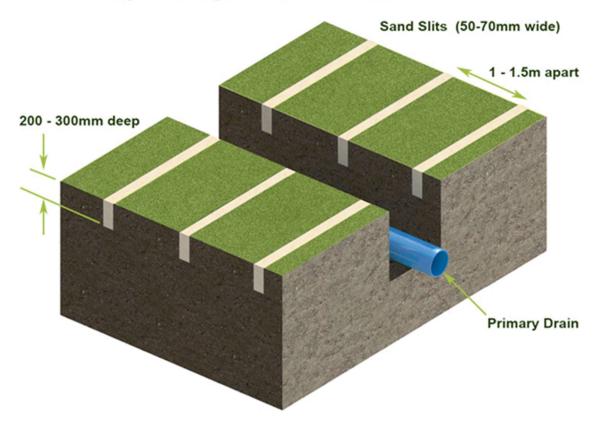
\$ 899,668







Secondary Drainage Network - Sand Slits







Demonstrate that project alternatives and alternative funding mechanisms have been fully explored.

SGS is starting a fundraising campaign and has committed to contributing at least \$10,000. Park & Rec Commission may be able to allocate some funding towards the design or the project itself from other sources such as the money available in the Meadow Walk fund.

Produce an advantageous cost/benefit value

This is a complex that is underused because of the drainage and safety concerns and with these improvements it would allow us to plan for the future needs of the SGS program vs looking for a new piece of land in town.

• Leverage additional public and/or private value

We will be using the resources of the DPW, Parks department as well as the Park & Recreation staff to help with this project.

• Preserve or utilize currently owned town assets

This is a Town owned asset in need of repair and upgrades based on safety and playability concerns.

<u>Feeley Field Sudbury - Phase-2 -Renovation Cost Estimate</u> 9/30/2022

	Field area	sf		120,000		
Description	Qı	uantity	Unit	Unit Cost	Estimated Cost	
SITE PREPARATION & DEMOLITION						
Site mobilization		1	ls	\$10,000.00	\$10,000.00	
Site construction fence	1	L,200	lf	\$12.00	\$14,400.00	
Site Construction gate & construction entrance		1	loc	\$5,000.00	\$5,000.00	
erosion control wattles	1	1,200	If	\$6.00	\$7,200.00	
remove and dispose of benches		2	ea	\$500.00	\$1,000.00	
prep skinned infield for re-surfacing (2 fields)	1	7,000	sf	\$0.15	\$2,550.00	
deep core areate lawn, R&D of cores	10	00,000	sf	\$0.45	\$45,000.00	
					\$85,150.00	SITE PREP DEMO SUBTOTAL
EARTHWORK AND SOIL PROFILE						
sand top dressing		309	су	\$55.00	\$16,975.31	
50mm drainage system (@20' OC)		3,500	If	\$18.00	\$63,000.00	
8" collector pipe		420	if	\$65.00	\$27,300.00	
outlet structure		1	ea	\$4,500.00	\$4,500.00	
install sand slits (@ 12" OC)	10	00,000	sf	\$0.55	\$55,000.00	
skinned infield top dressing/resurfacing		7,000	sf	\$1.25	\$21,250.00	
skilling interactor diessing/resurracing	-	7,000	31	Ų1.23	\$188,025.31	EARTHWORK SUBTOTAL
					,,	
SITE IMPROVEMENTS						
Bit Conc, 4" Thick		2,000	sf	\$4.00	\$8,000.00	
Concrete team areas, 6" Thick		500	sf	\$12.00	\$6,000.00	
Concrete bleacher areas, 4" Thick		500	sf	\$12.00	\$6,000.00	
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4" corrugated underdrain pipe		125	lf	\$40.00	\$5,000.00	
irrigation - spray heads and valves	1	.00,000	sf	\$1.25	\$125,000.00	
irrigation - connection point/supply line		350	lf	\$20.00	\$7,000.00	
irrigation - controller		1	ls	\$5,000.00	\$5,000.00	
over seed field (slice seed install)	1	.00,000	ls	\$0.35	\$35,000.00	
general lawn seed on disturbed areas		1	ls	\$2,500.00	\$2,500.00	
new CLF		50	lf	\$70.00	\$3,500.00	
retaining wall		120	lf	\$225.00	\$27,000.00	
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Structural Eng Stamp (Sportsfield Specialties)		1	ea	\$2,200.00	\$2,200.00	
Shipping (Sportsfield Specialties)		1	ea	\$2,500.00	\$2,500.00	
softball bases and plate		1	ls	\$7,500.00	\$7,500.00	
bleachers (for both field #1 and Field #2)		2	ea	\$10,000.00	\$20,000.00	
bleachers - shipping and assembly/install		2	ea	\$2,500.00	\$5,000.00	_
					\$325,400.00	SITE IMPROVEMENT SUBTOTAL

Total Site Development \$598,575.31

SUMMARY		
TOTAL TRADE COST		\$ 598,575
PRICE ESCALATION CONTINGENCY TO START	7.5%	\$ 44,893
DESIGN CONTINGENCY	2.5%	\$ 14,964
SUB-TOTAL		\$ 658,433
GC OH&P	12.5%	\$ 82,304
CONSTRUCTION CONTINGENCY	10.0%	\$ 74,074
TOTAL OF ALL CONSTRUCTION		\$ 814,811

Design Fees (Thru project completion)			
Warner Larson Site Design	10%	\$	59,858
Warner Larson Permitting	budget	\$	15,000
Civil Engineer for Permitting (included above)			
Irrigation Design	budget	\$	10,000
TOTAL OF ALL DESIGNED FEES		<u> </u>	04.050
TOTAL OF ALL DESIGNER FEES		<u> </u>	84,858

TOTAL OF ALL COMPLETE PROJECT \$ 899,668

Memorandum



Date: July 7, 2022

Recipient: Town of Sudbury Park & Recreation

Attention: Mr. Dennis Mannone

Copy To: Warner Larson Landscape Architects - Mr. Josh Millonig, LEEP AP

Sender: Jonathan W. Patch, P.E.

Project: Frank Feeley Field Renovation; 200 Raymond Road; Sudbury, MA

Project No: 7435

Subject: Geotechnical Data Memorandum

Introduction

This memorandum presents the results of our subsurface exploration program for the above-referenced project site. Refer to the Project Location Plan, **Figure 1**, for the general site locus. This memorandum was prepared in accordance with our proposal for geotechnical engineering services dated January 13, 2022, and your subsequent authorization. These services are subject to the limitations contained herein.

Background

The project site fronts onto Raymond Road to the west and is bounded by residential property to the north, residential properties to the northeast, and Landham Brook and associated wetland areas to the south and southeast. Frank Feeley Field contains parking areas, six (6) tennis courts, three (3) softball fields, one (1) lighted baseball field, a press box, bleachers, concession area, and restrooms. A sloped grade change of approximately 12 feet separates the northern portion of the site (which is occupied by Upper Feeley Field, the tennis courts, and a paved parking area) from Feeley Softball Fields #1 & #2 in the central portion of the site.

It is understood that the project may include the addition of dugouts and spectator seating (concrete pad with surface mounted dugout canopy and free-standing bleachers) to Feeley Softball Field #1 while addressing water/runoff issues on the slope between the northern parking lot and Feeley Softball Fields #1 & #2. The project may also include the addition of dugouts to Upper Feeley Field and Feeley Softball Field #2 as well as drainage remediation of the outfields in Feeley Softball Fields #1 & #2.

Subsurface Explorations

A subsurface exploration program consisting of seven (7) test pit explorations was performed to obtain subsurface information to add in the design of the proposed

Memorandum



renovations. The test pits were performed with a mini-excavator on May 20, 2022, by the Sudbury Department of Public Works under contract to others and were observed by a McPhail field representative. Test pit logs are attached. Approximate locations of the explorations are indicated on the enclosed **Figure 2**, Subsurface Exploration Plan.

Soil and Groundwater Conditions

The soil classifications contained herein and on the subsurface exploration logs were determined using the modified MIT Soil Classification System which utilizes the following descriptive terms to describe the percentage of soil components:

<u>Descriptive Term</u>	Proportion of Total by Weight
"Trace"	0% to 10%
"Some"	10% to 20%
Adjective	20% to 35%
(e.g., Sandy, Silty, Gravelly, Clayey)	
"And"	35% to 50%
"Mixture"	Soils containing three components of which
	comprise at least 25% of the total are
	classified as "A well-graded mixture of"

Based on the subsurface explorations, our laboratory testing, and our general knowledge of the geology of the surrounding area, the following is a description of the generalized subsurface conditions across the site encountered from ground surface downward.

An approximate 0.5- to 2-foot thickness of topsoil was encountered at ground surface in each test pit, which consists of compact, dark brown to black, silty sand with trace gravel and roots. Grain size analyses of samples of the topsoil are presented in the enclosed **Figure 3**.

Underlying the topsoil, a natural alluvial deposit and/or a reworked alluvial fill was encountered in each test pit. In test pits TP-2, TP-6, and TP-7, the topsoil was underlain by a 2- to 3-foot thickness of reworked alluvial fill material which was observed to consist of compact, light brown to orange sand with some silt and trace gravel, varying to sandy silt with trace gravel. The natural alluvial deposit varies in consistency from a compact, light brown to tan to orange, fine to medium sand with some silt, to a sandy silt with trace gravel, and to a silt with trace clay, sand, and gravel. Grain size analyses of samples of the coarse, granular portion of the reworked alluvial fill and natural alluvial deposit are presented in the enclosed **Figure 4**, and grain size analyses of samples of the fine, cohesive portion of the natural alluvial deposit are presented in the enclosed **Figure 5**. The test pits were terminated in the alluvial deposit at depths varying from 4 to 7 feet below ground level.

Groundwater was not observed upon completion within test pits TP-1 through TP-5. Groundwater was observed in test pits TP-6 and TP-7 at depths of 5 and 3 feet, respectively, below the existing ground surface. Redoximorphic features including oxidation

Memorandum



and mottling, which may be indicative of the seasonal high groundwater level, were observed in test pits TP-3 through TP-7 at depths varying from about 2.3 to 4.5 feet below the existing grade. It is anticipated that groundwater levels across the project site may vary from those reported herein based on factors such as the level of water in Landham Brook, normal seasonal changes, runoff during or following periods of heavy precipitation, and alterations to existing drainage patterns.

Conclusions

Portions of the on-site soils contain a high percentage of fines (silt and clay size particles), making them relatively impervious. This likely results in surface water becoming trapped at shallow depths and causes standing water in the outfields of Feeley Softball Fields #1 and #2. It is understood that a perforated underdrainage piping system may be installed to improve the drainage of the fields.

Where needed, conventional soil-supported spread footing foundations are considered appropriate for the proposed site improvements.

Stockpiles of excavated soil intended for on-site reuse should be protected against increases in moisture content by securely covering the stockpiles at all times with 6 mil polyethylene for protection from precipitation and also as a dust mitigation measure. The placement and compaction of on-site soils should be completed during relatively dry and non-freezing conditions. If the earthwork operations are performed during a wet and/or cold period, it is anticipated that portions of the on-site soil will be unsuitable for re-use on site.

Final Comments

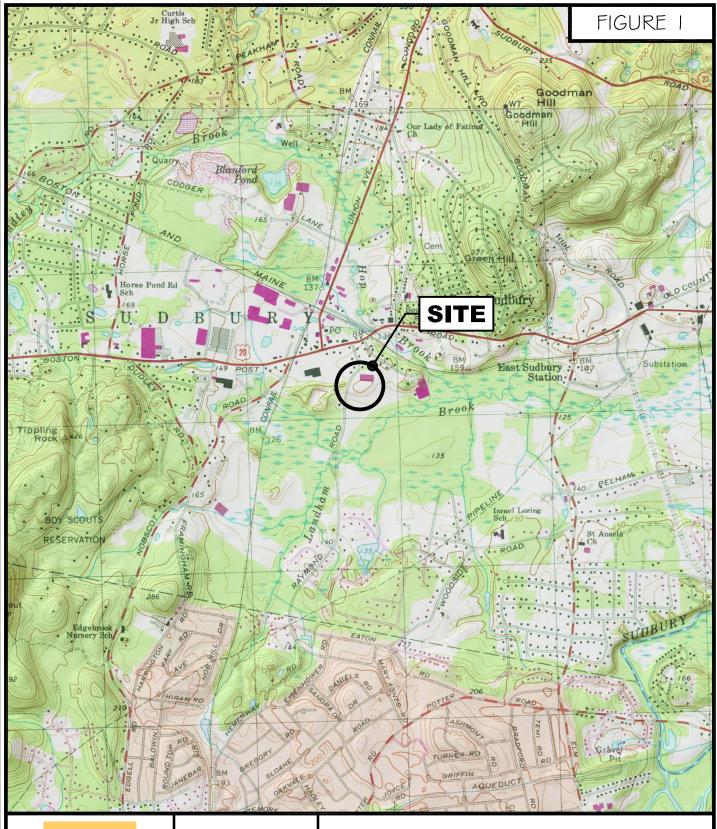
We trust that the above is sufficient for your present requirements. Should you have any questions concerning the geotechnical design recommendations presented herein, please do not hesitate to call us.

Attachments:

- Figure 1: Project Location Plan
- Figure 2: Subsurface Exploration Plan
- Figure 3: Grain Size Distributions Topsoil
- Figure 4: Grain Size Distributions Alluvial Deposit/Alluvial Fill
- Figure 5: Grain Size Distributions Alluvial Deposit
- Test Pit Logs

\\McPhail-fs2\McPhail\Working Documents\Reports\7435_FeeleyFieldSudbury_GeotechDataMemorandum_070722.docx

JWP/esh





Geotechnical and Geoenvironmental Engineers 2269 Massachusetts Avenue Cambridge, MA 02140 617/868-1420

617/868-1423 (Fax) www.mcphailgeo.com

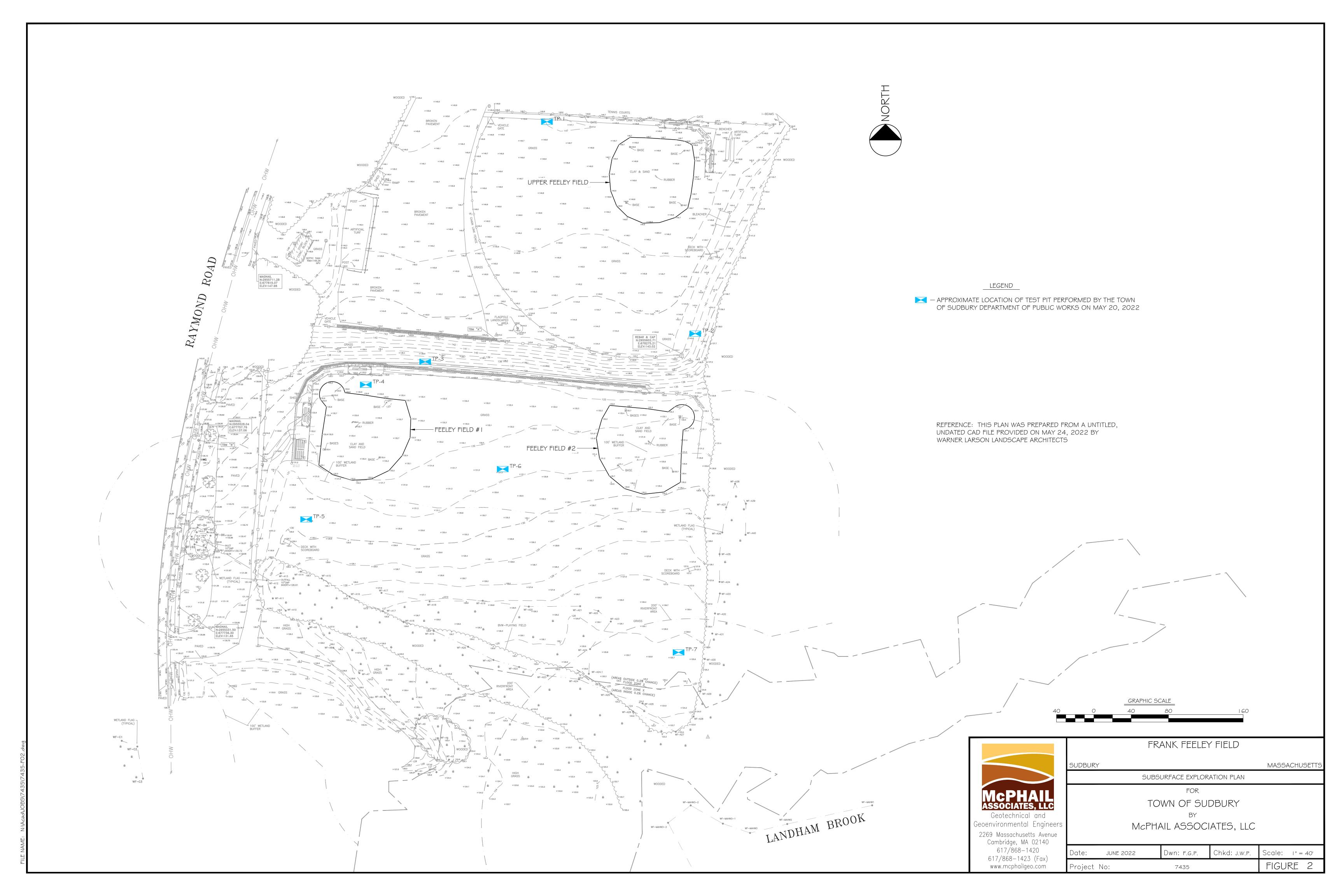


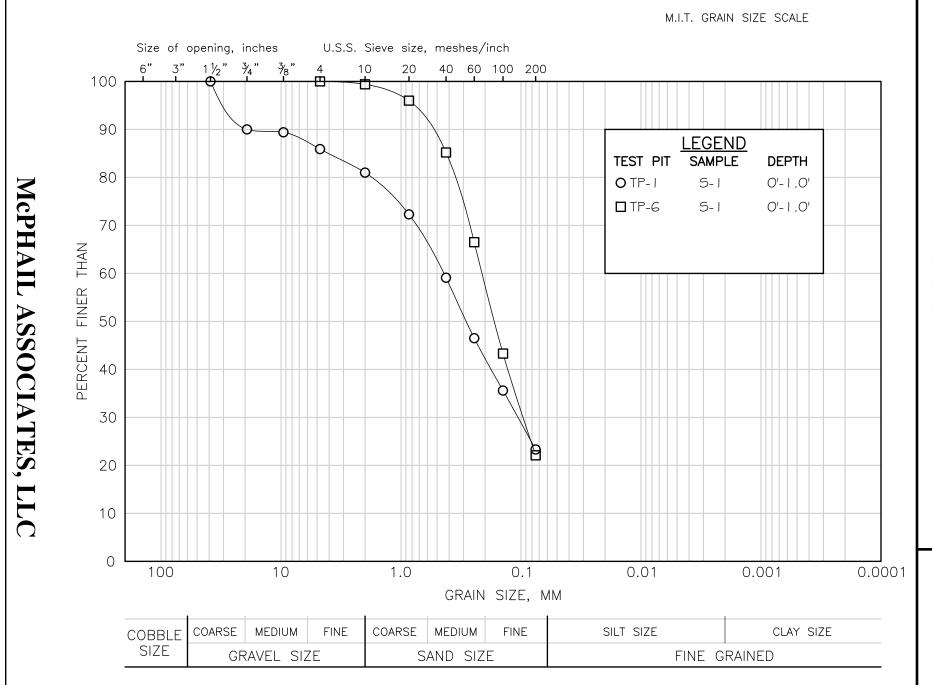
PROJECT LOCATION PLAN

FRANK FEELEY FIELD

SUDBURY

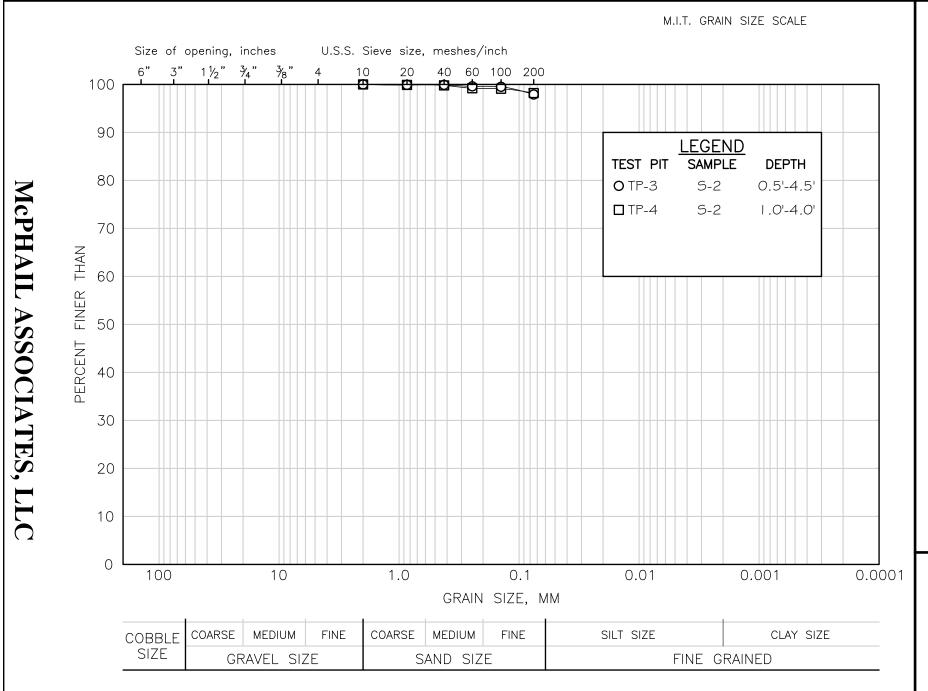
MASSACHUSETTS

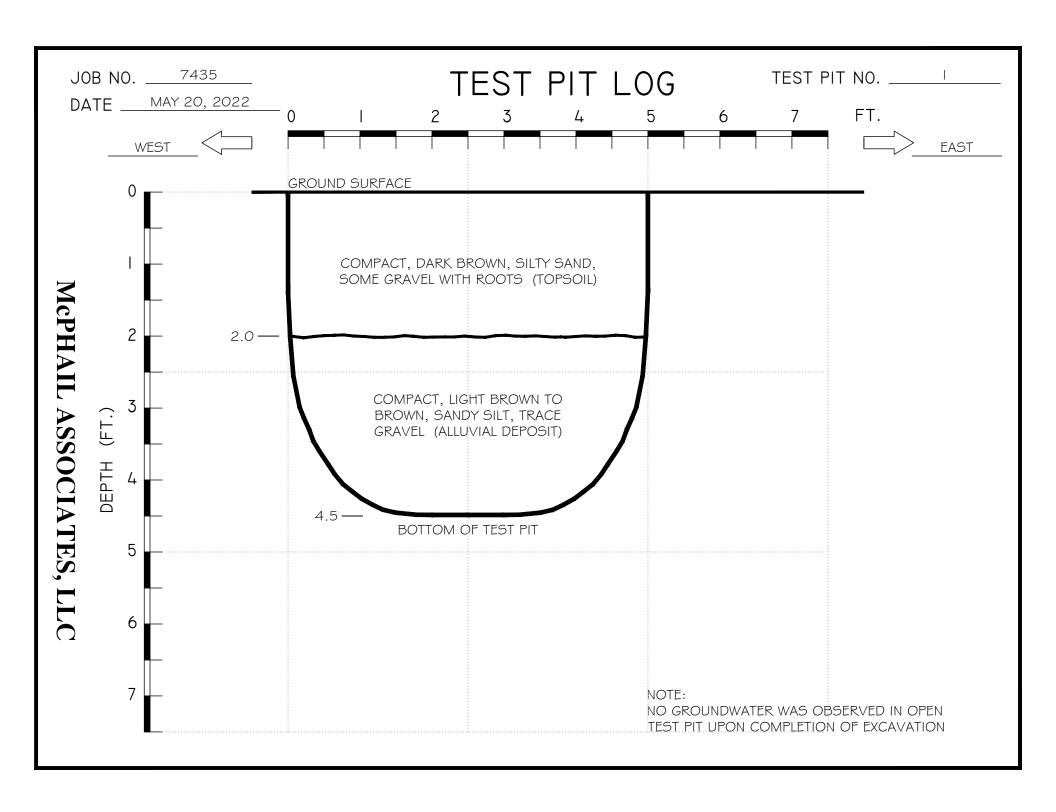


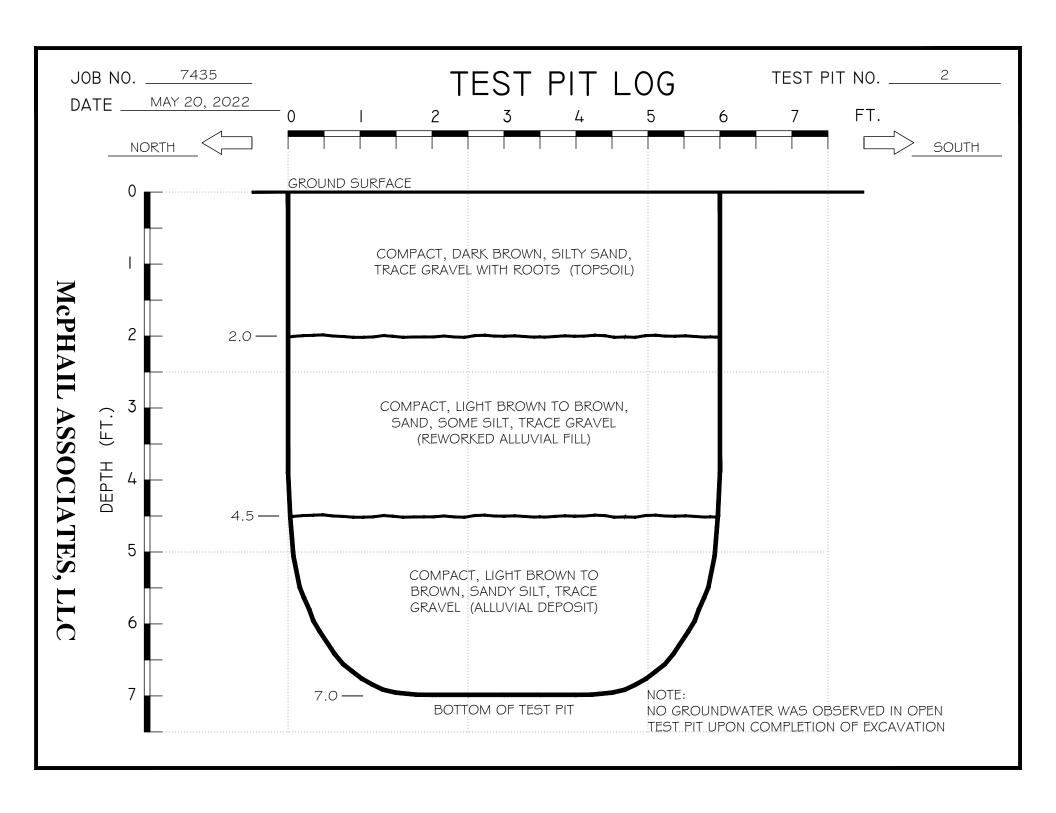


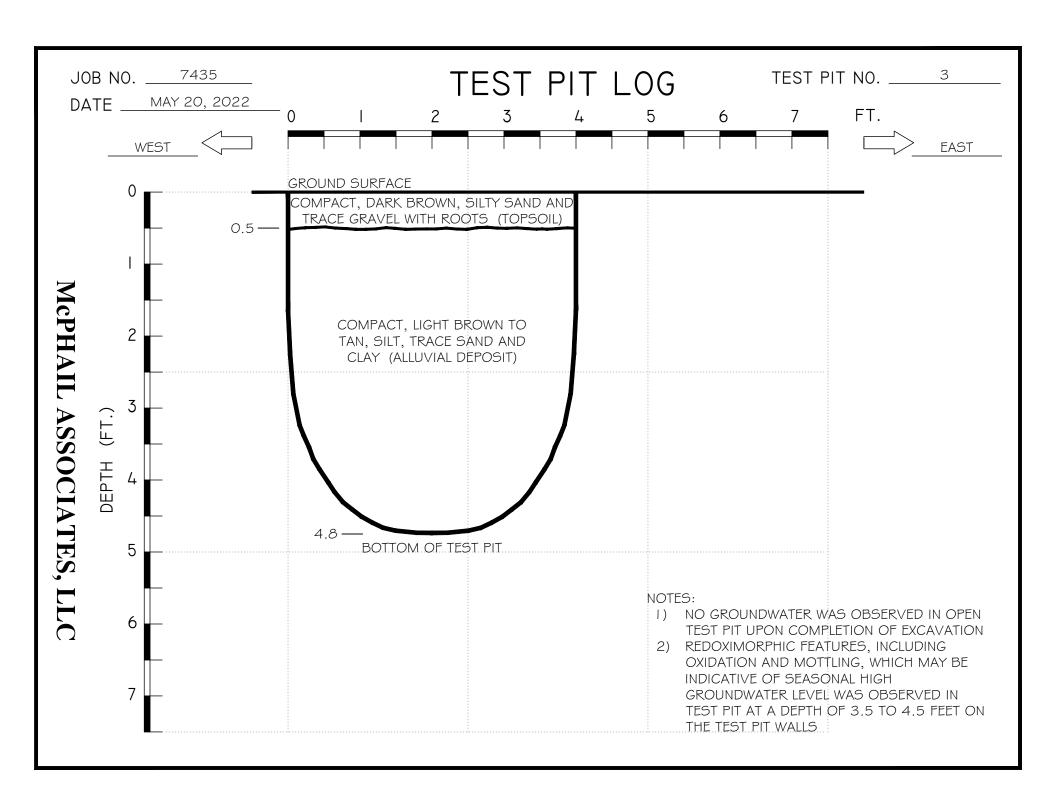
4

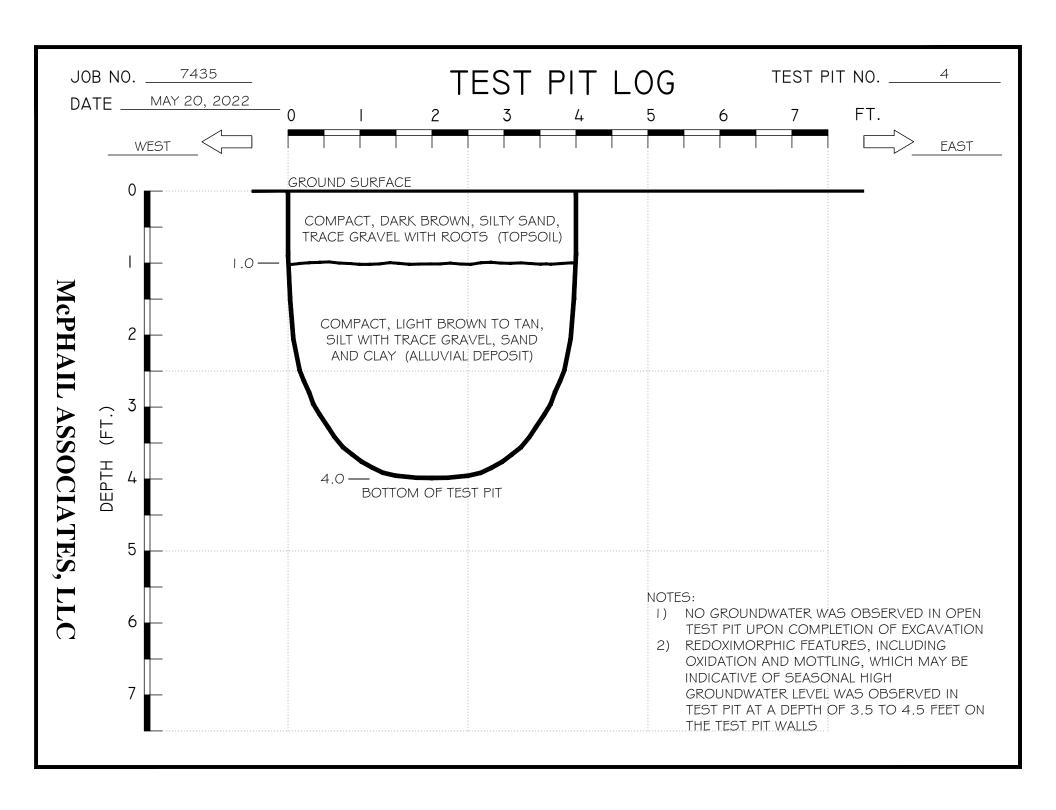
M.I.T. GRAIN SIZE SCALE Size of opening, inches U.S.S. Sieve size, meshes/inch 40 60 100 200 100 90 **LEGEND SAMPLE** TEST PIT **DEPTH** 80 S-2 2.0'-3.5' OTP-I McPHAIL ASSOCIATES, LLC S-2 □ TP-5 1.0'-3.0' **△** TP-6 S-3 4.0'-7.0' 70 5-2 1.0'-3.0 • TP-7 THAN ■ TP-7 5-3 3.0'-6.0' 60 PERCENT FINER 50 30 20 10 0 100 10 1.0 0.1 0.01 0.001 0.0001 GRAIN SIZE, MM COARSE MEDIUM FINE COARSE MEDIUM FINE SILT SIZE CLAY SIZE COBBLE SIZE GRAVEL SIZE FINE GRAINED SAND SIZE

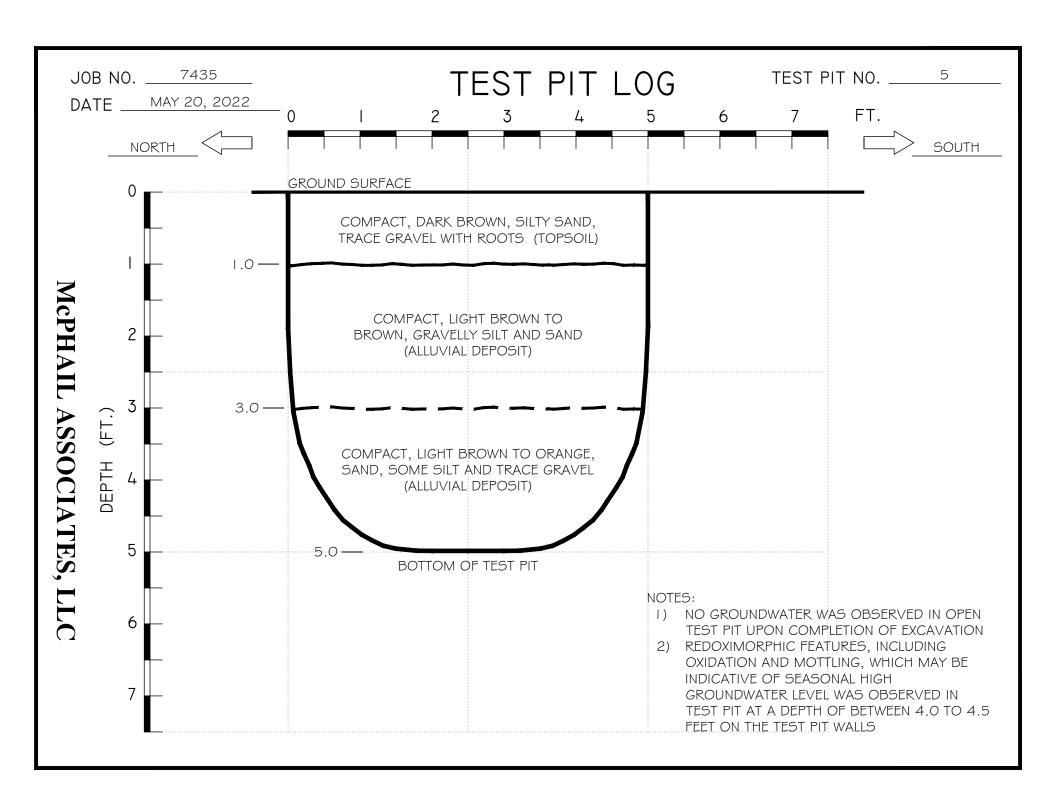


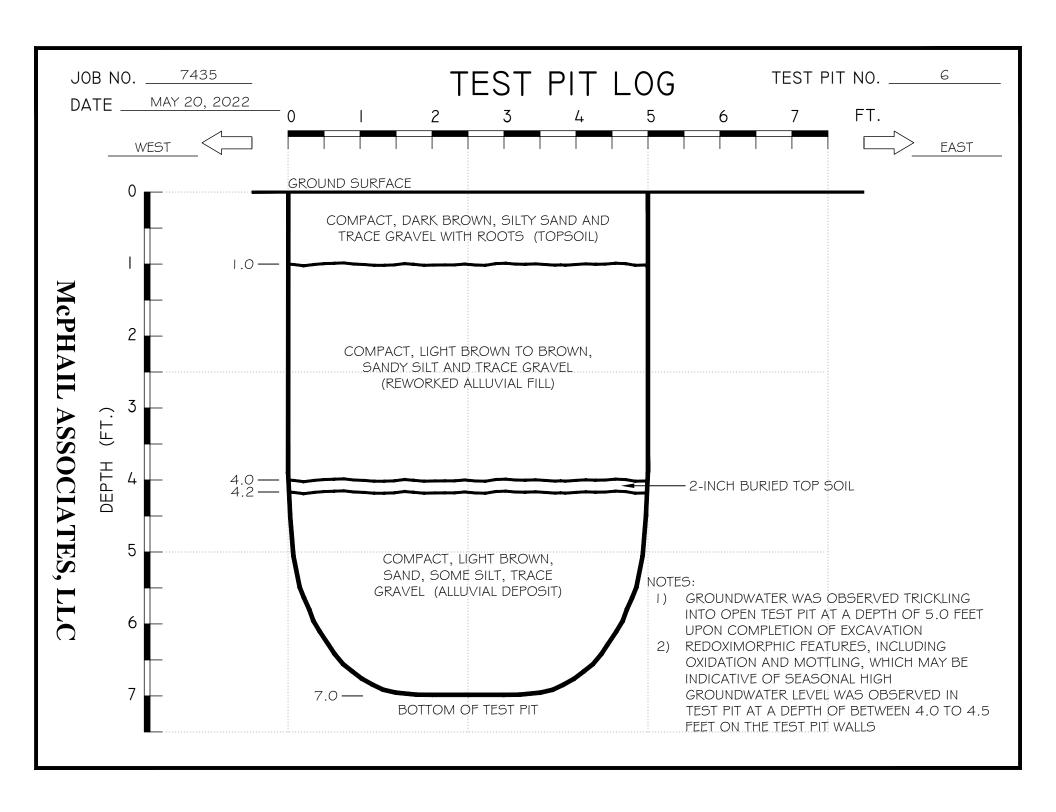


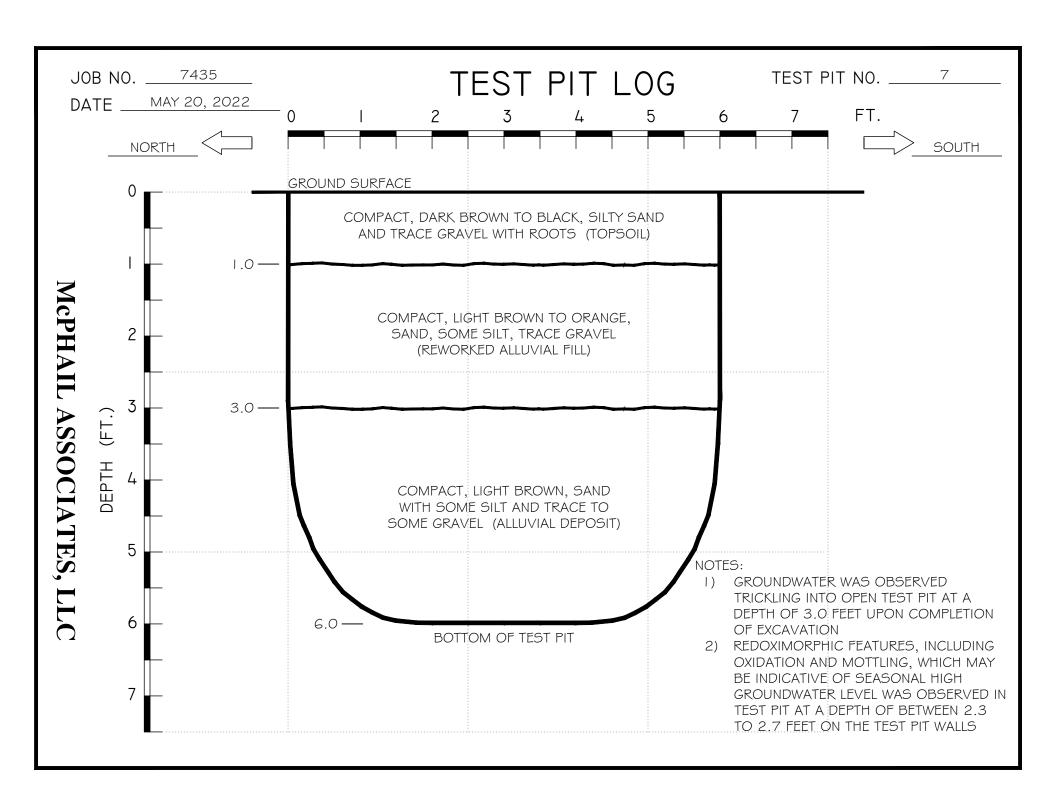


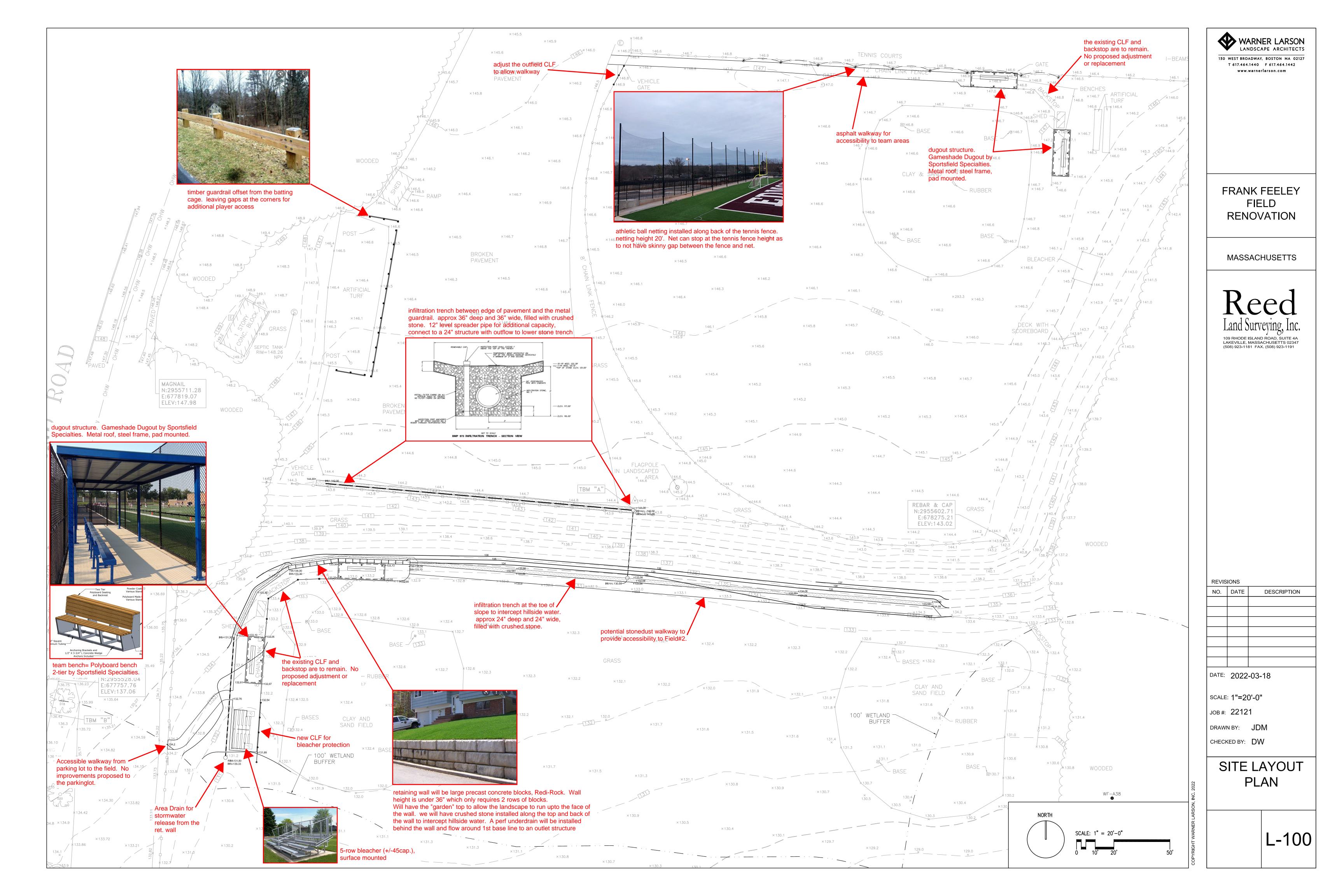












FRANK FEELEY FIELDS IMPROVEMENT

Prepared For:

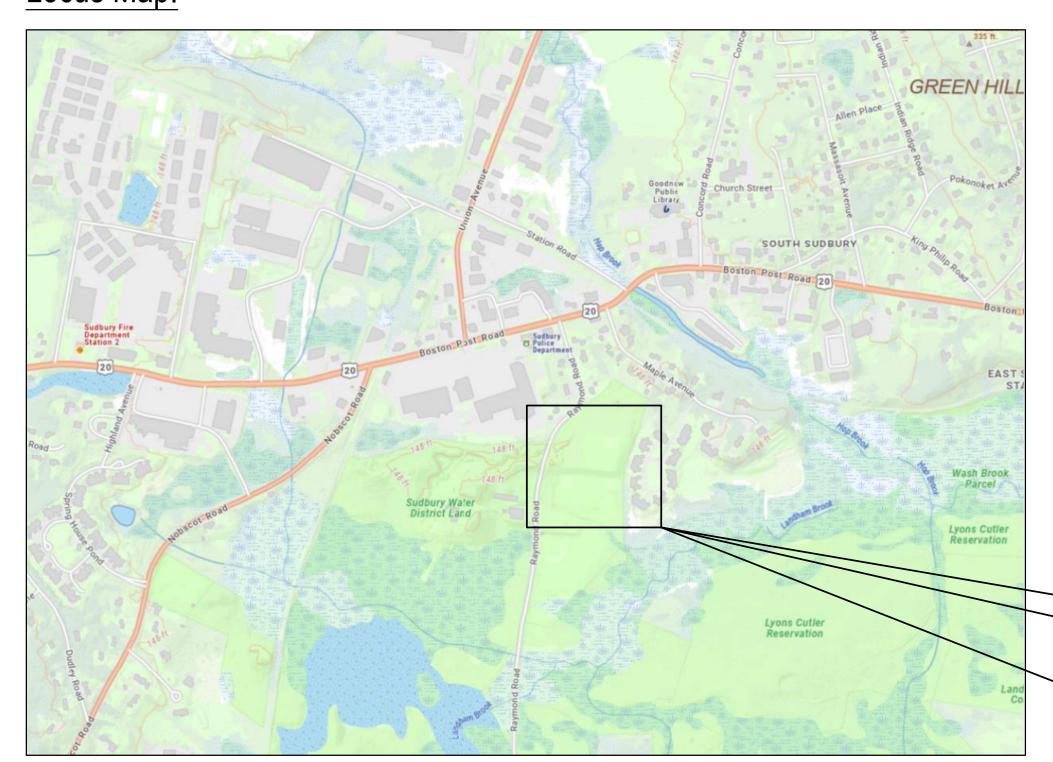
Town of Sudbury, Massachusetts Dennis Mannone, Park & Recreation Atkinson Pool Director

Prepared By:





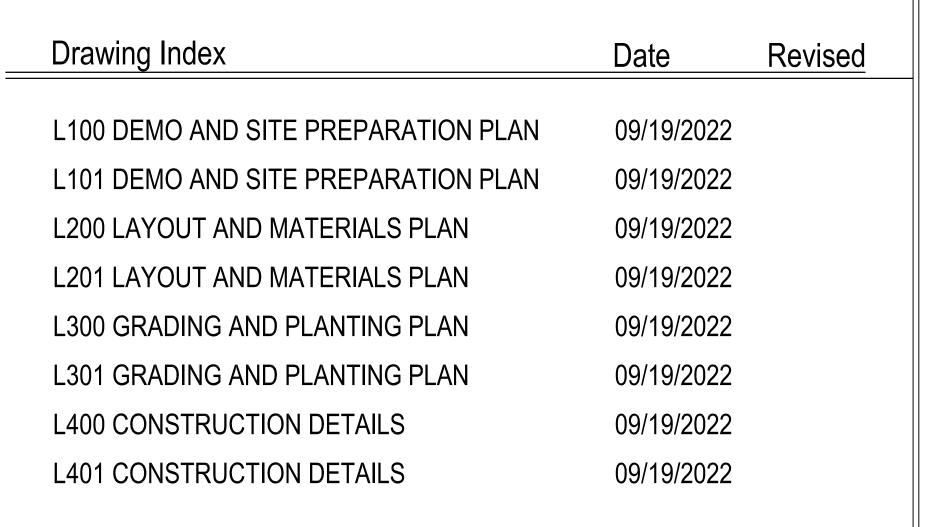
Locus Map:





BID SET SEPTEMBER 19, 2022

Frank Feeley Fields
200 Raymond Road
Sudbury, Massachusetts



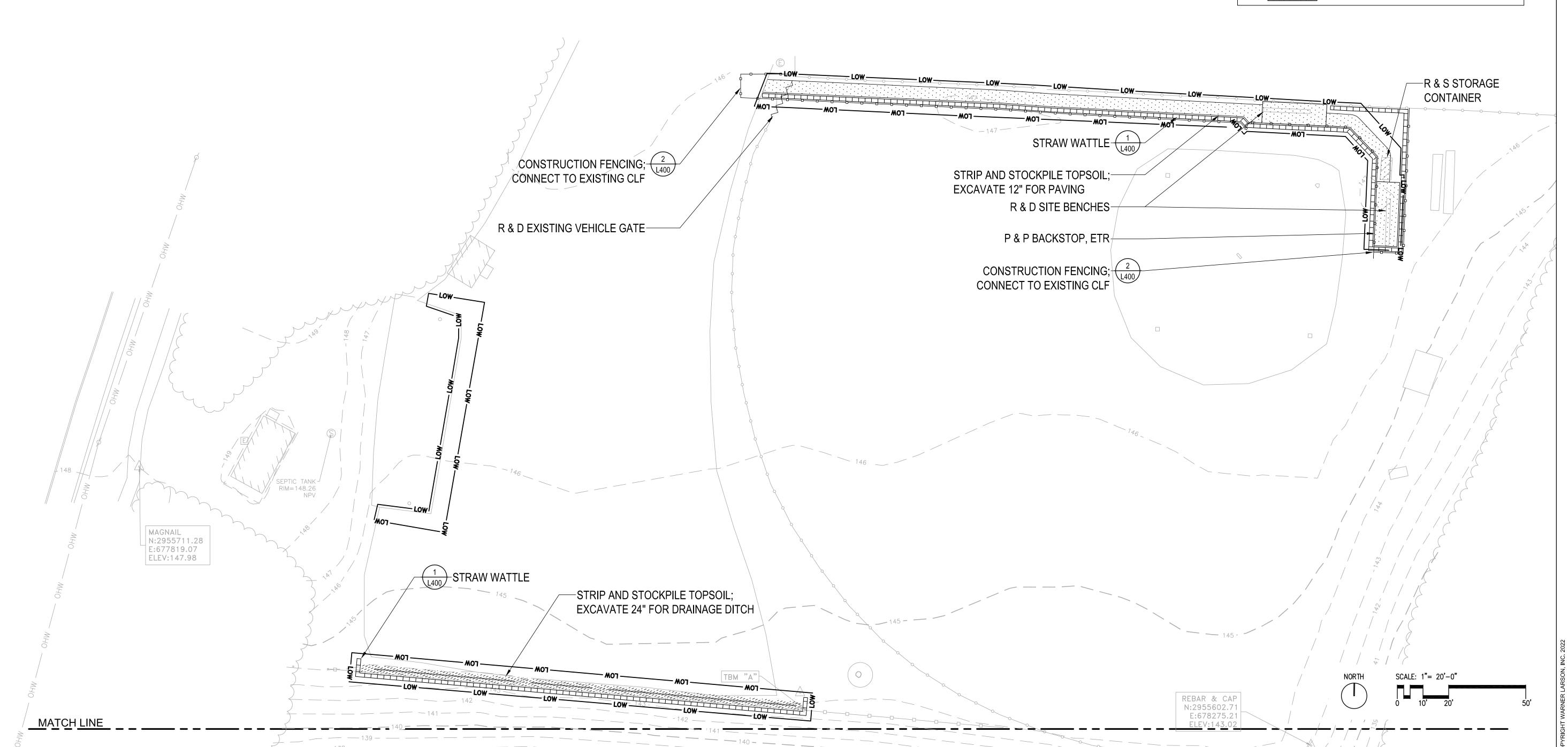


SITE

SITE PREPARATION NOTES:

- 1. EXISTING CONDITIONS INFORMATION IS FROM A SURVEY PERFORMED BY REED LAND SURVEYING ON MARCH 14, 2022.
- 2. CONTRACTOR SHALL REMOVE ALL EXISTING STRUCTURES, FOOTINGS, PAVEMENT, WALKS, WALLS, STAIRS, TREES, SHRUBS, ETC. NECESSARY TO COMPLETE THE WORK UNDER THIS CONTRACT. ALL ITEMS, INCLUDING BUT NOT LIMITED TO; STRUCTURES AND RELATED FOOTINGS, SITE AMENITIES, FENCES AND FENCE FOOTINGS LOCATED WITHIN THE LIMIT OF WORK LINE SHALL BE REMOVED AND LEGALLY DISPOSED OF UNLESS NOTED OTHERWISE.
- 3. ITEMS TO BE <u>SALVAGED</u> SHALL BE STORED ON-SITE WITHIN CONSTRUCTION FENCING AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- 4. SALVAGE ALL SITE SIGNAGE REQUIRED TO BE REMOVED BY THE WORK OF THIS PROJECT, AND PROVIDE TO OWNER'S REPRESENTATIVE. DISPOSE OF FOOTINGS AND DAMAGED POSTS. REINSTALL SALVAGED SIGNS WHERE DIRECTED BY THE LANDSCAPE ARCHITECT IN THE FIELD USING NEW APPROVED FENCE-MOUNTING HARDWARE, AND POSTS WHERE REQUIRED.
- 5. CONTRACTOR SHALL NOTIFY DIGSAFE (1-888-DIG-SAFE) AND VERIFY UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- 6. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED TO ROADS, WALKS, UTILITIES, SITE IMPROVEMENTS, EXISTING OR PROPOSED, DAMAGED BY THIS PROJECT.
- 7. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK.
- 8. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE REGULATORY AGENCIES' REQUIREMENTS.
- 9. CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN WITHIN THE LIMIT OF WORK.
- 10. STRIP AND STOCKPILE ALL TOPSOIL ON SITE FOR AMENDMENT AND REUSE. ASSUME 6" OF TOPSOIL IS AVAILABLE FOR HARVESTING AT MAINTAINED LANDSCAPE AREAS.
- 11. FURNISH AND INSTALL TEMPORARY CONSTRUCTION FENCING TO SECURE LIMIT OF WORK AREAS AND STORED MATERIALS AND EQUIPMENT FROM UNAUTHORIZED ACCESS. SEE CIVIL DWGS
- 12. ALL EXPOSED AREAS TO HAVE EROSION CONTROL PROTECTION.

LEGEND:	
Low	LIMIT OF WORK LINE
R & D	REMOVE AND DISPOSE
P&P	PRESERVE AND PROTECT
R&S	REMOVE AND SALVAGE (OWNER TO PROVIDE LOCATION FOR SALVAGED ITEMS)
ETR	EXISTING TO REMAIN PRESERVE AND PROTECT
	R & D FENCING
	CONSTRUCTION FENCING, APPROXIMATE LOC.
	1 L400 STRAW WATTLE
	STRIP AND STOCKPILE TOPSOIL; EXCAVATE TO 12"
	STRIP AND STOCKPILE TOPSOIL; EXCAVATE TO SPECIFIED DEPTH
	STRIP AND STOCKPILE TOPSOIL





FRANK FEELEY
FIELD
RENOVATION

SUDBURY, MASSACHUSETTS

Reed
Land Surveying, Inc.

109 RHODE ISLAND ROAD, SUITE 4A
LAKEVILLE, MASSACHUSETTS 02347
(508) 923-1181 FAX. (508) 923-1191

REVISIONS

NO. DATE

DESCRIPTION

DATE: 2022-09-19

SCALE: 1"=20'-0"

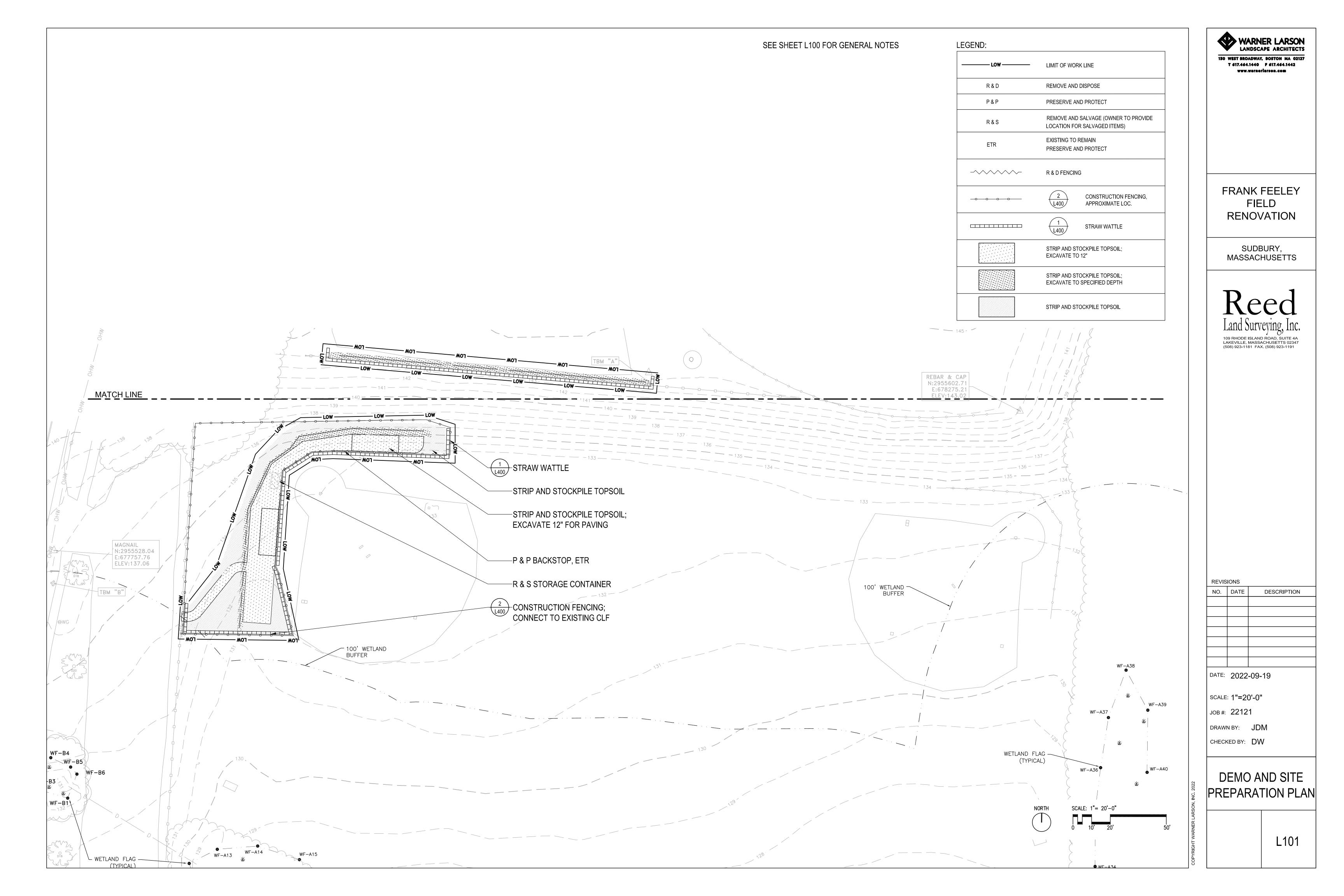
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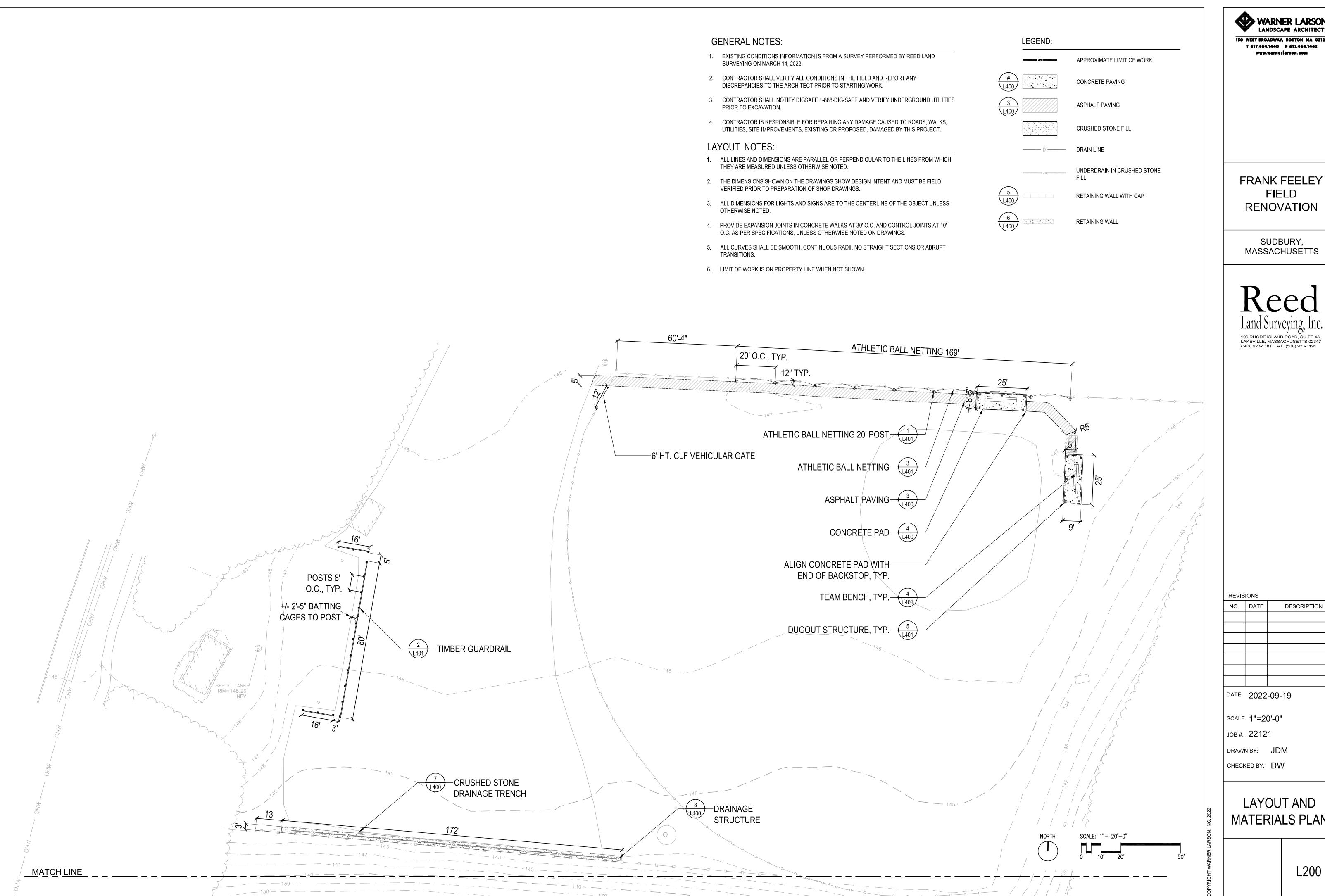
DRAWN BY: JDM

CHECKED BY: DW

DEMO AND SITE PREPARATION PLAN

L100





WARNER LARSO LANDSCAPE ARCHITECT
130 WEST BROADWAY, BOSTON MA 021 T 617.464.1440 F 617.464.1442 www.wernerlerson.com

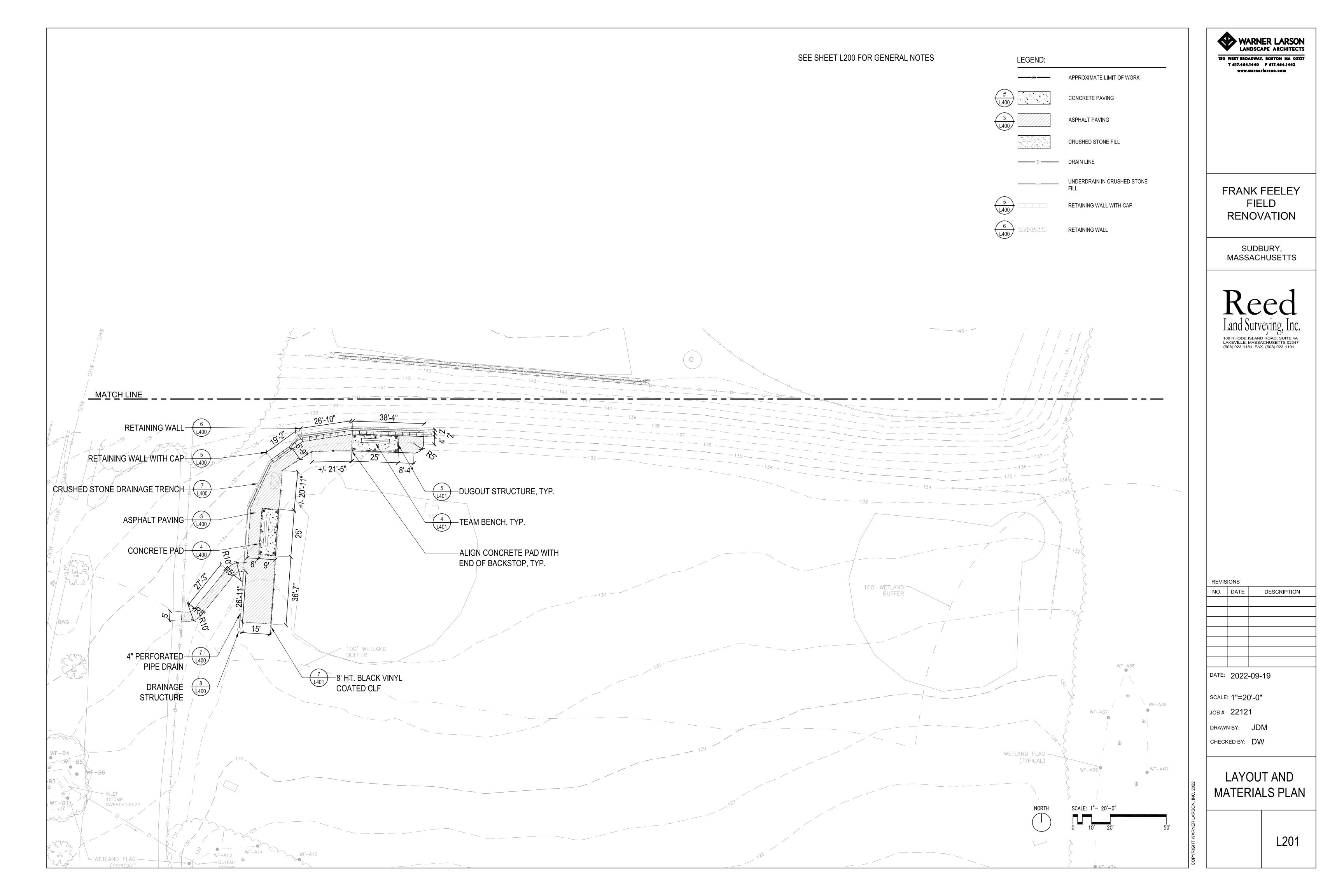
FRANK FEELEY **FIELD** RENOVATION

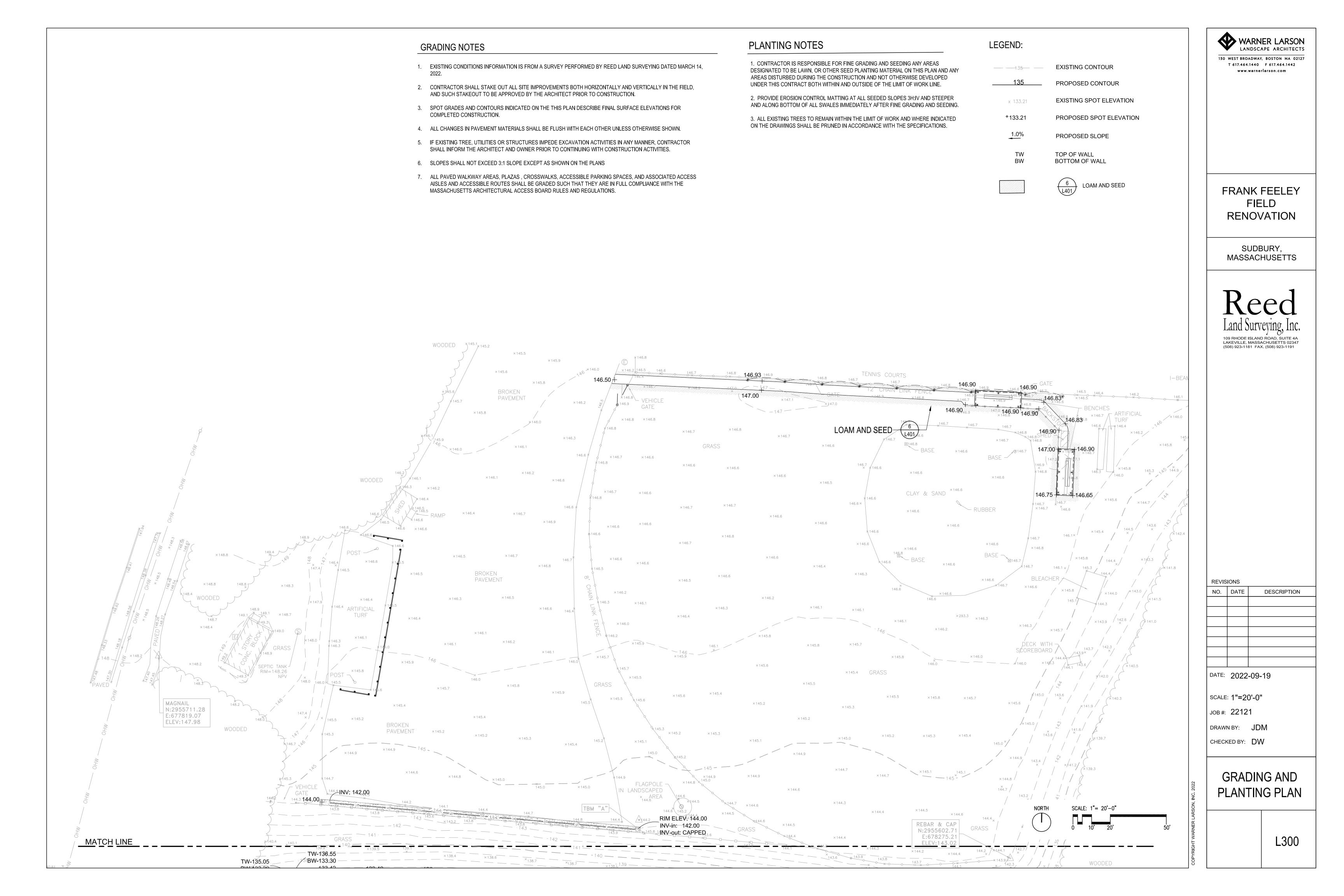
SUDBURY, MASSACHUSETTS

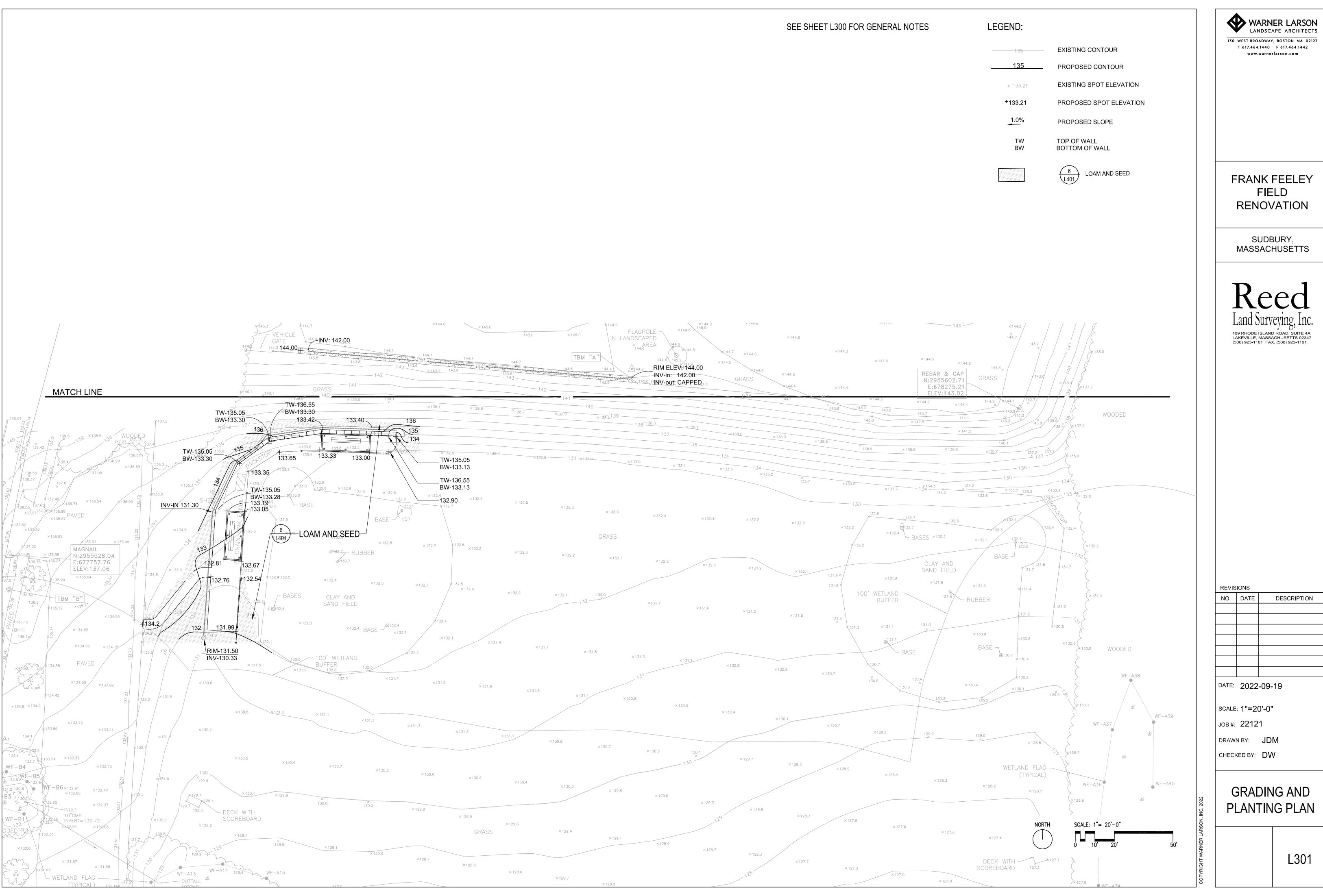
109 RHODE ISLAND ROAD, SUITE 4A LAKEVILLE, MASSACHUSETTS 02347 (508) 923-1181 FAX. (508) 923-1191

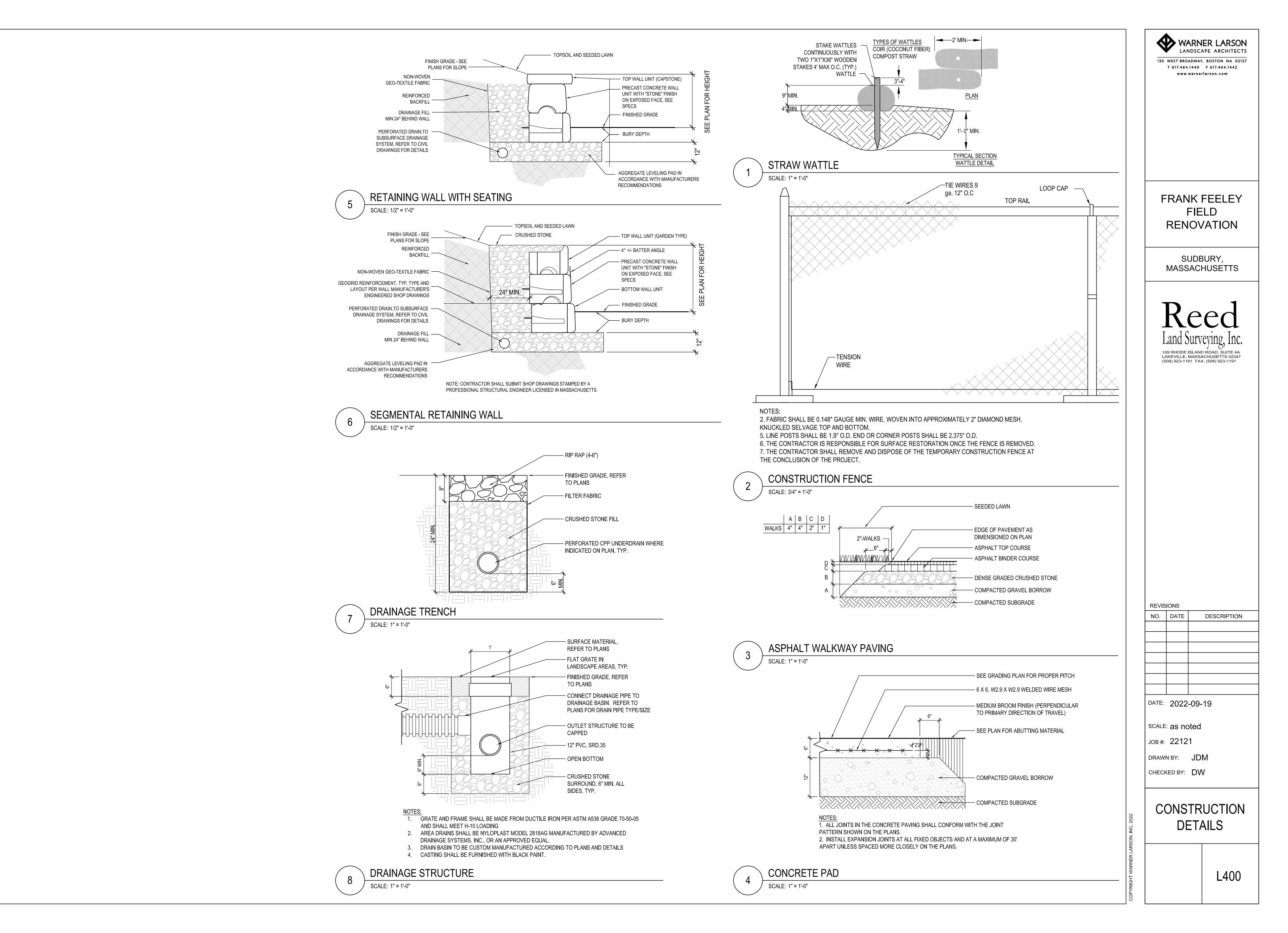
MATERIALS PLAN

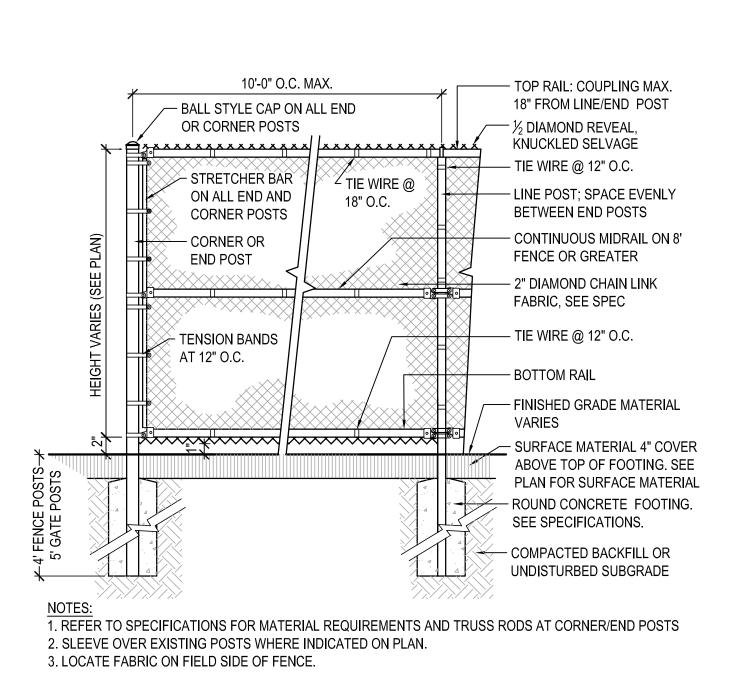
L200









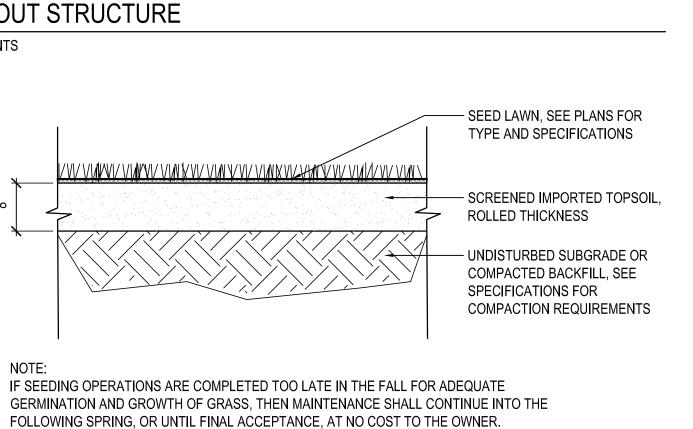


CHAIN LINK FENCE

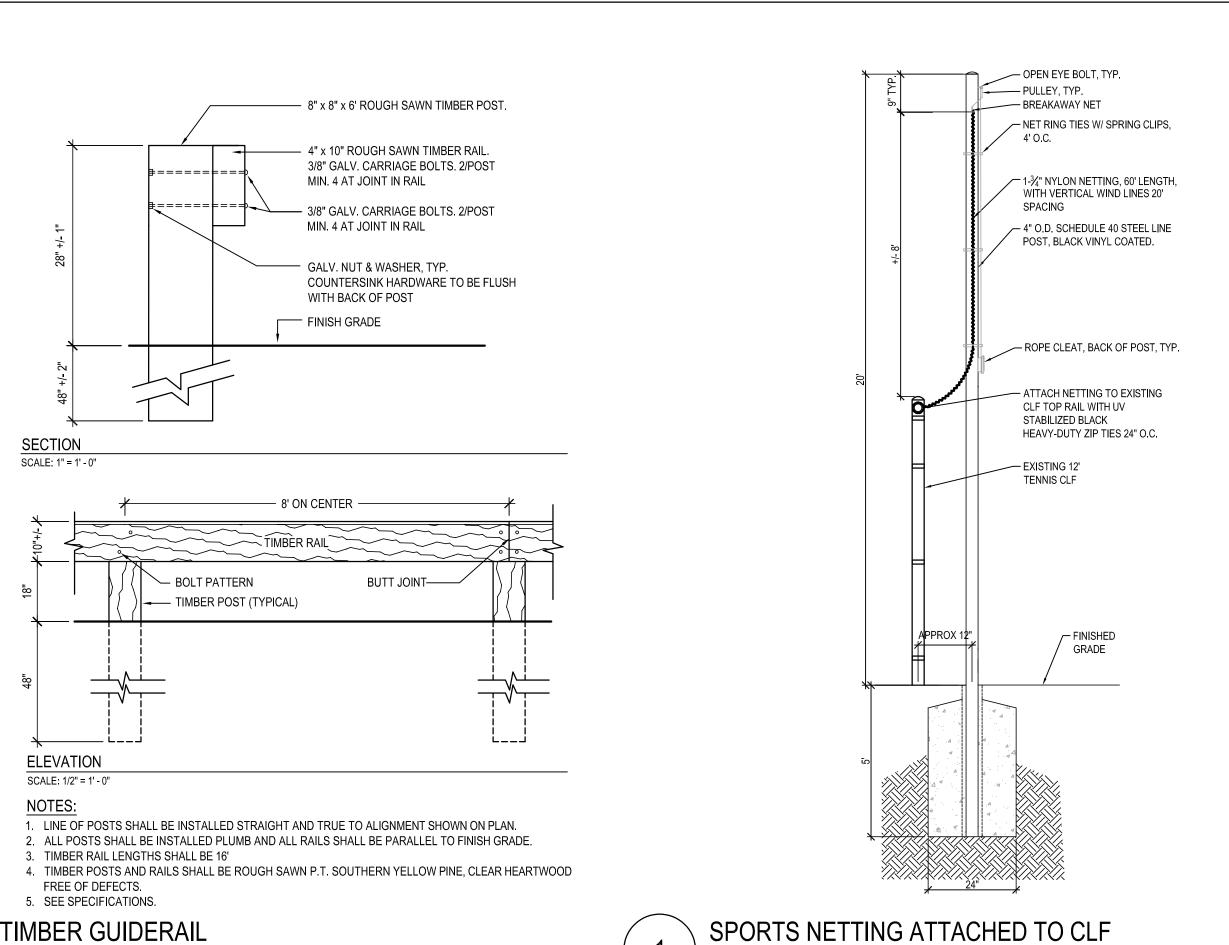
SCALE: 1/2" = 1'-0"

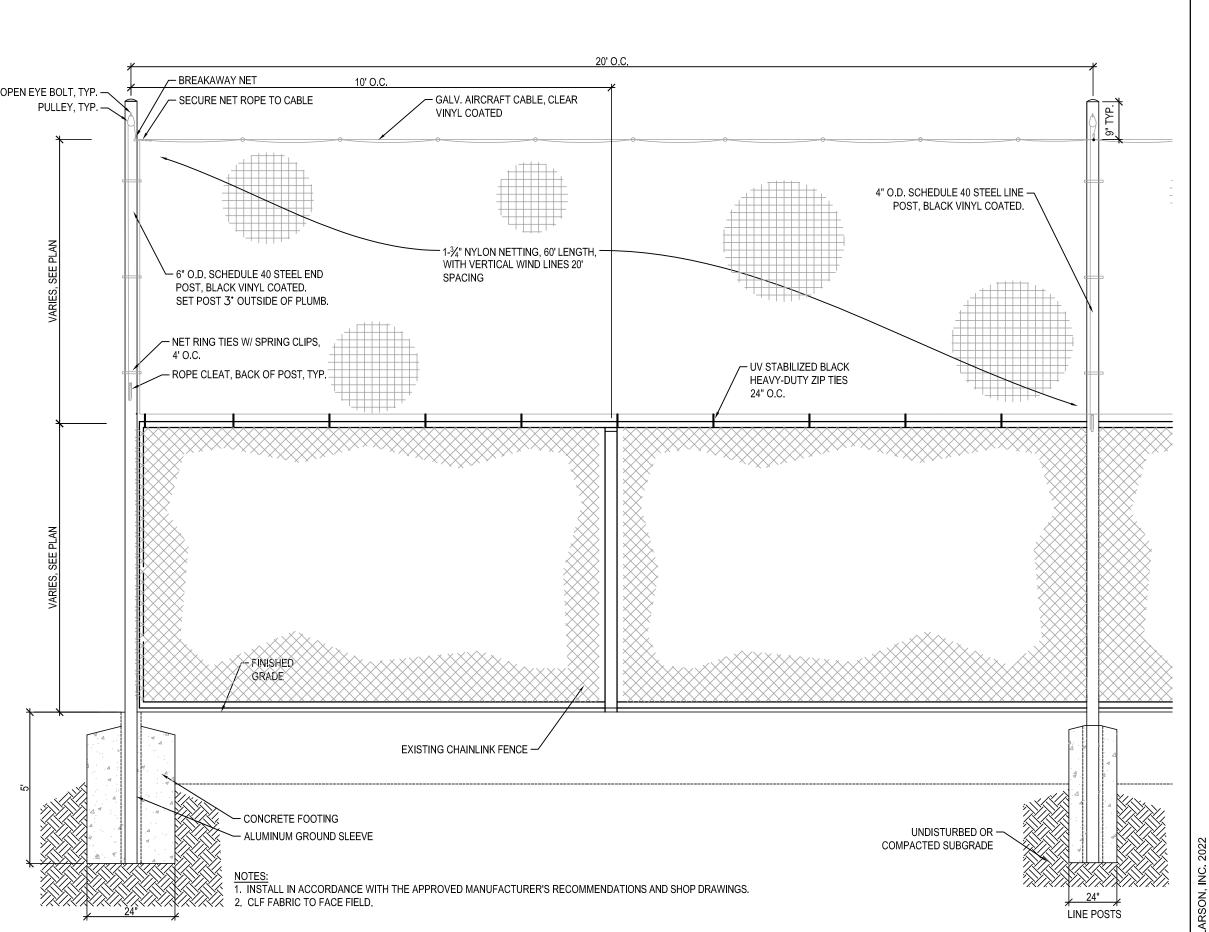
Powder Coated Finish on Frame, Two Tier Various Standard Colors Available Polyboard Seating and Backrest Polyboard Made from Recycled Material, Various Standard Colors Available Formed 1/8" Aluminum Welded Frame 2" Square Aluminum Tubing Anchoring Brackets and —Holes for Bolting 1/2" X 3-3/4" L Concrete Wedge Benches Together Anchors Included-11 1/2" -----Length (See Table) Custom Lengths Available 1'-3 1/2" 3'-2 1/16" 1'-6 13/16" 2'-4 1/16" Part # Length TEAM BENCH

SCALE: NTS 29 GA. CORRUGATED METAL ROOFING OVER FULLY WELDED STEEL FRAMED ROOF STRUCTURE, (VARIOUS STANDARD COLORS AVAILABLE) REMOVABLE LIFTING EYEBOLTS STEEL FRAME STRUCTURE: PRIMED & POWDER COATED _ TUBULAR STEEL DESIGN, VARIOUS STANDARD COLORS AVAILABLE BASE PLATE MOUNT WITH ANCHORS-(PROVIDED) _8'-0" or_ ____10'-0" — STANDARD & CUSTOM LENGTHS AVAILABLE ———— -COLUMNS BOLT TO ROOF FRAME **DUGOUT STRUCTURE** SCALE: NTS



SCALE: 1" = 1'-0"





SCALE: 1/2" = 1'-0"



FRANK FEELEY **FIELD RENOVATION**

SUDBURY, **MASSACHUSETTS**

109 RHODE ISLAND ROAD, SUITE 4A LAKEVILLE, MASSACHUSETTS 02347 (508) 923-1181 FAX. (508) 923-1191

REVISIONS NO. DATE DESCRIPTION

DATE: 2022-09-19 SCALE: as noted

JOB #: **22121** DRAWN BY: JDM

CHECKED BY: DW

CONSTRUCTION

DETAILS

SCALE: 1/2" = 1'-0"

BALL NETTING FENCE

4000 PSI ROUND CONCRETE FOOTING. SEE SPECIFICATIONS. COMPACTED BACKFILL OR UNDISTURBED SUBGRADE — 4X O.D. OF POST (12" MIN) - 4X O.D. OF POST (18" MIN) CHAIN LINK FENCE FOOTING

GATE OR FENCE POST SLOPE

TOP OF FOOTING, LOCATE AT

CENTER OF FOOTING

SURFACE MATERIAL 4" COVER

ABOVE TOP OF FOOTING. SEE PLAN FOR SURFACE MATERIAL

FINISHED GRADE

OPEN EYE BOLT, TYP. —

SCALE: 1/2" = 1'-0"