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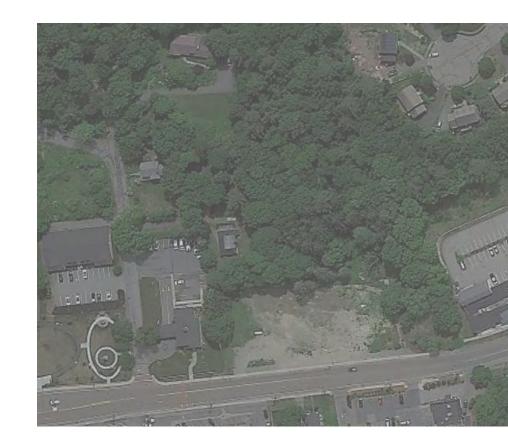
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JANUARY 25, 2024

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AGENDA – DESIGN REVIEW #2

- Previous Meeting
 - Joint Listening Session: Process, Precedent Images + Open Discussion
- Design Process
- Review of Submission





HKT architects inc.

DESIGN PROCESS APPROACH

- Developed program that reflected current + future FD operational needs
- Developed plan options for that program
- Developed building forms that matched those needs
- Studied context: Neighboring + town buildings + other precedent buildings
- Reviewed building materials that responded to what we heard from the committee + community for longevity, aesthetics + sustainability perspectives
- Presented multiple elevation studies to the building committee for discussion + approval
- Designed for the unified whole for all sides of the building taking into account operations + layout, user needs + comforts, aesthetic expectations, energy consumption + costs













NORTHBOROUGH TOWN BUILDINGS: NORTHBOROUGH FREE LIBRARY, TOWN OFFICES













NORTHBOROUGH TOWN BUILDINGS: SENIOR CENTER, POLICE DEPARTMENT, SCHOOLS





NORTHBOROUGH TOWN BUILDINGS: TOWN FIRE STATIONS, OLD TOWN HALL







NORTHBOROUGH'S FIRST FIRE ENGINE, BOUGHT IN 1846



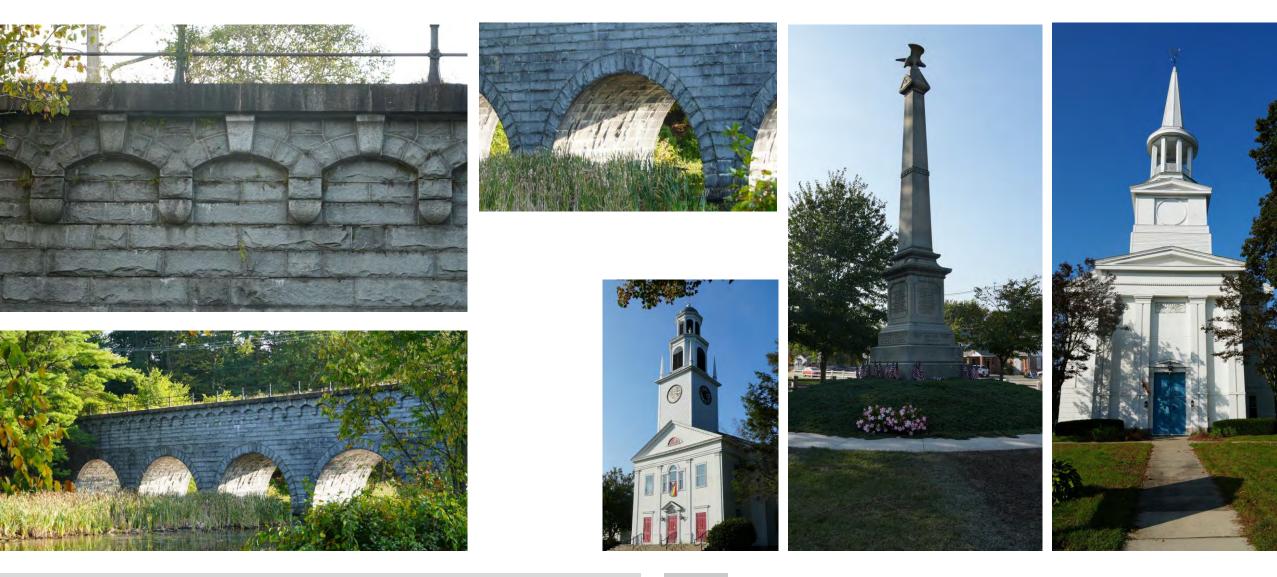


NORTHBOROUGH BUILDINGS: INDUSTRIAL + COMMERCIAL



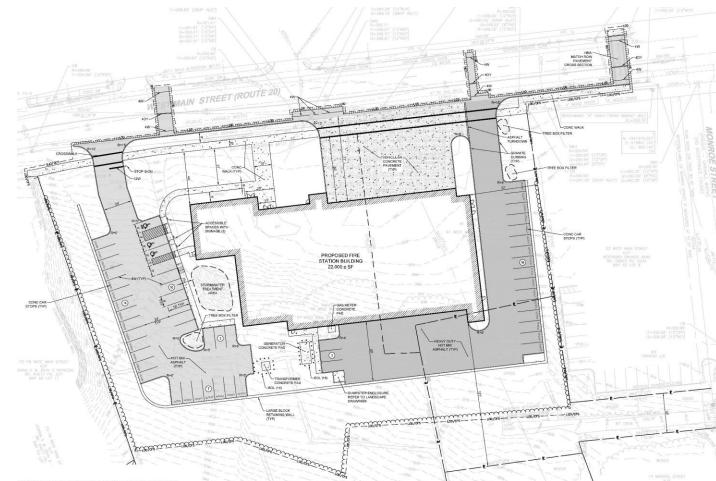


OTHER NORTHBOROUGH STRUCTURES OF NOTE: CHURCHES + MONUMENTS, AQUEDUCT



PLACEMENT OF BUILDING, PARKING + PLANTING TO SUPPORT OPERATIONS

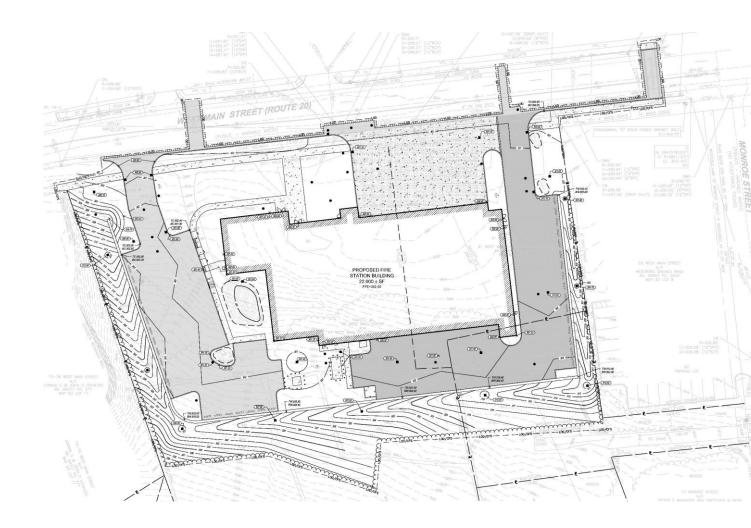
- Site requirements
 - Separate parking to promote safety for public parking + movement of vehicles
 - Parking: 23 staff east of apparatus
 + 30 guest on west side
 - Retaining wall to contain hillside
 - Plantings that promote safety
- Requirements to support operations
 - Clear + best line-of-sight
 - Apparatus bay depth + aprons to accommodate vehicles + turning requirements





PLACEMENT OF BUILDING, PARKING + PLANTING TO SUPPORT OPERATIONS

- Roadways + parking area materials
 - Stop sign
 - Granite curbing
- Aprons to support fire apparatus
- Concrete sidewalks
- Stormwater treatment
- Grading
- Retaining wall delegated design
 - Design ongoing
- Transformer/generator + dumpster locations + enclosures/protection





PLACEMENT OF BUILDING, PARKING + PLANTING TO SUPPORT OPERATIONS

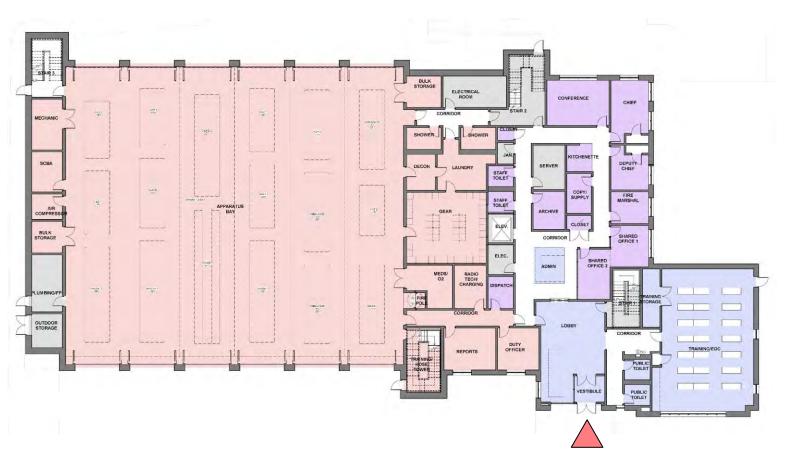
- Plantings
 - Planting opportunities that promote safety; Maintain line-of-sight at all times
 - Plantings to work with final retaining wall design
- Site elements
 - Flagpoles
 - Site Lighting: bollards + pole lighting
 - Benches
 - Signage
 - Stormwater treatment
 - Dumpster containment





SCHEMATIC DESIGN - LEVEL 1 FLOOR PLAN

- FD Operations spaces on east side of site
 - 6 apparatus bay doors facing north + south - best location for vehicular movement
- FD Administrative areas on west side of site
 - Entry faces West Main St.
 - All public spaces accessible from entry lobby





SCHEMATIC DESIGN - LEVEL 2 FLOOR PLAN

- FD Living areas on west side of site
 - No direct public access
 - Access for staff to apparatus bays by way of 2 stairs + 1 slide pole
 - Outdoor areas located at the rear of building on west + south side





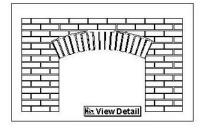
FIRE STATION NEIGHBORING SITES + BUSINESSES





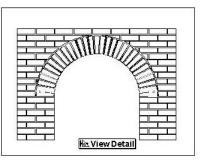


ARCH FORM + CONSTRUCTION PRECEDENT STUDY



Arch Types: Segmental





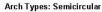
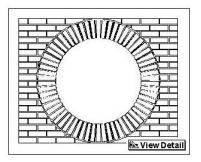
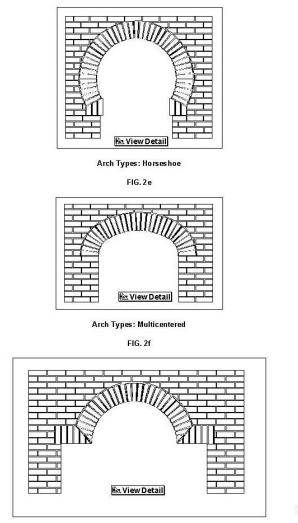


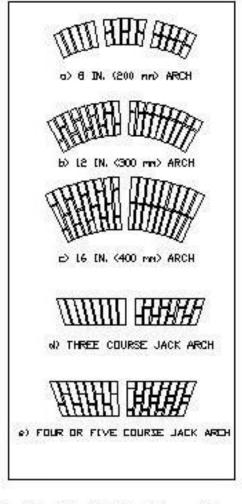
FIG.2c



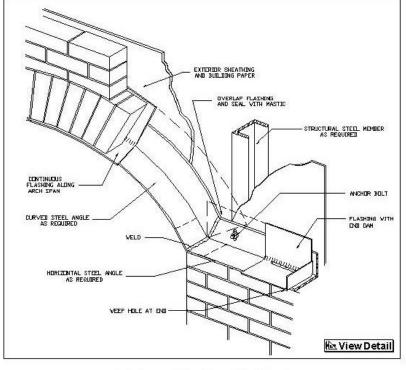




Arch Types: Venetian



Typical Arch Configurations



Arch Supported by Curved Steel Angle



H.H. RICHARDSON: MATERIALS, TOWERS, BANDING, WINDOW PATTERNS, ENTRIES





Henry Adams House, Washington DC



Converse Memorial Library, Malden MA

Benjamin Warder House, Washington DC



Union Passage Station, New London CT



Sir Hubert House, Bushey England



Winn Memorial Library, Woburn MA



Ames Free Library, North Easton MA



SCHEMATIC DESIGN - NORTHEAST ELEVATION





SCHEMATIC DESIGN - NORTH ELEVATION





SCHEMATIC DESIGN - NORTHWEST ELEVATION





SCHEMATIC DESIGN - WEST MAIN STREET ELEVATION





SCHEMATIC DESIGN - WEST ELEVATION





SCHEMATIC DESIGN - SOUTHWEST ELEVATION





SCHEMATIC DESIGN - EAST ELEVATION





SCHEMATIC DESIGN - SOUTH ELEVATION





SCHEMATIC DESIGN - SOUTHEAST ELEVATION



NEXT STEPS

- Meeting with Committee to approve schematic design for cost estimate
- Design Review Meeting continuation to address issues noted
- Zoning Board
- Planning Board
- Community Information Meeting #3









THANK YOU





