

**CITY OF SALEM - ADDENDUM #1**  
**#T-17 DESIGN & CONSULTING SERVICES FOR PALMER COVE PARK**  
**NOVEMBER 29, 2017**

Please see the following changes or questions and answers for the above referenced project.

A pre-proposal meeting was held on 11/28/2017 at Palmer Cove Park. Attached is the attendance. At the pre-proposal Jenna Ide, Director of Capital Projects & Municipal Operations, went over the information in the RFP and pointed out the major features of the existing park. Each task was discussed. Attendees had the following questions, responses to which are provided below.

1. For the baseball analysis, is there more information on other sites where the baseball field could move?
  - a. *Please see attachment for Gallows Hill Park that was completed as part of the 2015 Open Space Master Plan. This is just a concept plan and cost estimates include many other elements that might not be needed. The Open Space Master Plan has information about other parks, but only McGlew, Palmer, and Gallows had initial plans developed. The selected proposer will be provided additional information that they request upon award.*
2. The timeline for the project, page 16 Section 3.5 of the RFP, appeared incorrect and the dates of funding sources is not clear.
  - a. There is an error, and further clarification is needed on timelines.
    - i. Please delete the entire paragraph in that section:

~~It is expected that the Notice to Proceed will be in early December. Designers should have all tasks, including draft preferred concept plan, but not final, by the end of February 2018. Final products should be all completed by the end of March 2018. It is important that the City receive documents in order to meet CPA and CDBG funding timelines.~~

- ii. In its place, please insert the following paragraphs:

“It is expected that the Notice to Proceed will be in early January. The City is very interested in obtaining funding from grants and bonds. CDBG applications should be submitted in February/March, CPA applications will be due in mid-March, and CIP funding (City Bond) is due in April. Designers should develop a schedule that provides opportunities for the City to apply for some funds for Palmer Cove, potentially portions or additional phases. The existing conditions and baseball field analysis should be completed by the end of February, except for items that need to wait until more favorable weather.

However, the City recognizes that the outreach and development of the plan may take additional time, and is open to suggestions of schedules that best meet the needs of the tasks.

All work for under the RFP for study (Tasks 1-4) should be completed no later than 8 months after NTP.”

3. Is there more information on historical floods, water table, or ponding, other than the flood zone maps?
  - a. *The City is investigating this information, and will post any additional information that it has by the deadline or, if after the deadline, to the selected designer.*
4. Is there more information on the building upgrades or the ownership of the parking area?
  - a. *The City is investigating this information, and will post any additional information that it has by the deadline or, if after the deadline, to the selected designer.*
5. Is there more information on the utilities and previous projects such as the basketball courts, building upgrades to Teen Center, and/or baseball field?
  - a. *Please find the attachment with additional information on other projects. In addition, please find the attachments showing know utilities. These are the known utilities, but more research may need to be conducted.*

City of Salem: RFQ #T-17 - DESIGN & CONSULTING SERVICES PALMER COVE PARK RENOVATION

Sign In Sheet (Will be posted to Website)  
Pre-Proposal Meeting November 28, 2017 1PM  
Palmer Cove

Name	E-Mail	Phone	Company	Discipline
Robert Mann	rmann@construction.com	617-431-6461	Nature	LA, PE
ERIC ROISE	erouse@escrow.com	617-542-8352	BSC Group	LA 617-896-4560
Dave Andrews	dandrews@brownfowle.com	617-542-8352	Brown Richmond Park	LA
Alex Ertov	alex@briarwood.com	408-334-466	BDG	LA
LEEBESTADT	"	"	"	LA
Nancy LEASK	NLEASK@RAYDINETZ.COM	617-524-6265	Ray DINETZ	LA
Guss CHROUST	chroust@unseinc.com	978-621-4624	unseinc	LA
Will Nag	will@meridianassoc.com	978-990-4447	meridian	CE Survey LA 3D
Laurie Collett	lcollett@meridianassoc.com	"	"	" "
Naomi Cottrell	naomi@michellecrotley-la.com	617-571-4726	MCLA	LA
David Mateikos	dmateikos@northshore.org	803-960-6163	North Shore OPC	DE Developer
ANDREW WHEEL	andrew.wheel@hatch.com	978-324-3110	HATCH	LA
Nickie Northcutt	nickie@northshore.org	617-501-8352	NSOC	Comm. Development

## **#16 Gallows Hill Park**

Gallows Hill has a number of distinctly separate areas including Upper Gallows, Lower Gallows and Mansell Playground as well as undeveloped forested areas to the west and north. Gallows Hill is also home to a large water storage tank on the top of the hill. Components of Gallows hill are critically in need of renovations (e.g. ball fields and upper play areas), and other open space areas present the opportunity for development of improved pathways, improved parking, open space areas and possibly additional an athletic field (at Mansell). Of note is that there are 'paper' roads that border Gallows hill to the west (Alameda St) and East. As well as other Salem open space properties that could potentially be used to expand the area of the park.

Gallows Hill is surrounded by densely populated neighborhoods that could take advantage of the park if safe linkages were provided. The vision for developing Gallows Hill would be to renovate many of the existing active recreation components as new, as well as use the existing topography to create a series of wide, lighted walking paths that would link to surrounding neighborhoods (vision central park in NYC or the Fens in Boston). The parking area would be reconstructed, as would the skate park and athletic fields at Lower Gallows. At Upper Gallows the basketball court would be reconstructed and a Playscape added. At adjacent Mansell park the field would be graded to provide a proper sports pitch for youth soccer or lacrosse. Ornamental lighting and formalized linkages would restore this park as a citywide park with links through neighborhoods as well as between them.

### **COST ESTIMATE – Gallows Hill Park Improvements**

For Cost Estimating purposes the following items were included in the scope of the budget estimates.

**Athletic field renovations** costs include costs for total reconstruction of the existing fields as natural turf, which includes special provisions for some clearing to be able to fit the fields, costs for some rock removal, a new irrigation system, fencing and a ball safety netting system at right field to protect the parking area.

**Parking area and Skate Park Renovation** costs include the complete relocation and reconstruction of the parking area and 8,000sf of skate park. Cost for the skate park include perimeter fencing, equipment and lighting, as well as allowances for rock removal and drainage due to the proposed location. Costs for the parking area include lighting, electrical controls and access (for the rest of the park) as well as fencing to keep vehicles out of the adjacent open spaces.

**Upper Gallows** Improvements include costs for renovating all Upper Gallows lawn areas, a fence along Hanson Street, a new play area, and complete relocation and reconstruction of the basketball court, as well as costs for a walkway around the upper field area and costs for additional repairs to the existing picnic pavilion.

**Mansell Field** Costs include filling, regrading and reseeding the field to provide a proper pitch for athletic events. Costs include provisions for drainage, fencing along Mansell Parkway and reconstruction of the existing (inoperable) water fountain.

**Walkways and Linkages:** The walkways and linkages proposed for Gallows Hill are perhaps the largest and most impactful component of the proposed Improvements to Gallows Hill. Costs are difficult to gage due to the grades, and the layout of the walks, which will be dependent on topography, rock outcroppings and specimen trees. However costs have been estimated to provide 8' wide asphalt walkways as shown on plan, with connections to Alameda Street, Valley Street and Witch Hill Road. Trail heads have been estimated to provide a urban park type trail

head and park entry with masonry columns and ornamental pavers. Signage as well pedestrian lighting limited to specific routes has been provided. Access Bollards and heavy duty vehicle gates have also been included in the costs. Allowances have been included for rock removal, retaining walls and railings. Costs for this item have the potential to vary widely, depending on the final design and construction of this park element.

Design, construction mobilization and other bidding, allowances and contingency costs have been added into each of these elements separately, as though separate projects. Should the city decide to group some or all of these elements together, significant savings could be realized.

Gallows Hill Park Renovations:

Opinion of Budget Costs:

Item	Cost
Athletic Field Renovations	\$786,000
New Parking & Skate Park	\$953,000
Upper Gallows Improvements	\$532,000
Mansell Field	\$312,000
Walkways, lighting and Linkages	\$790,000
<b>TOTAL</b>	<b>\$3,373,000</b>



Appendix C – Select Parks – Schematic Design





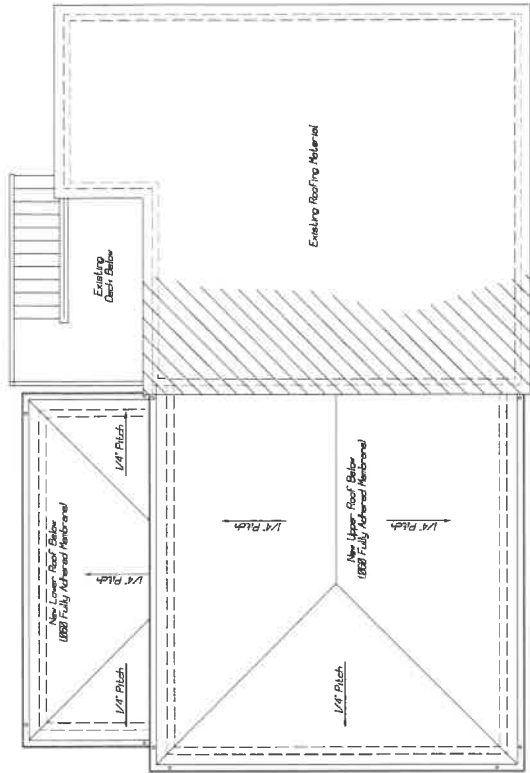




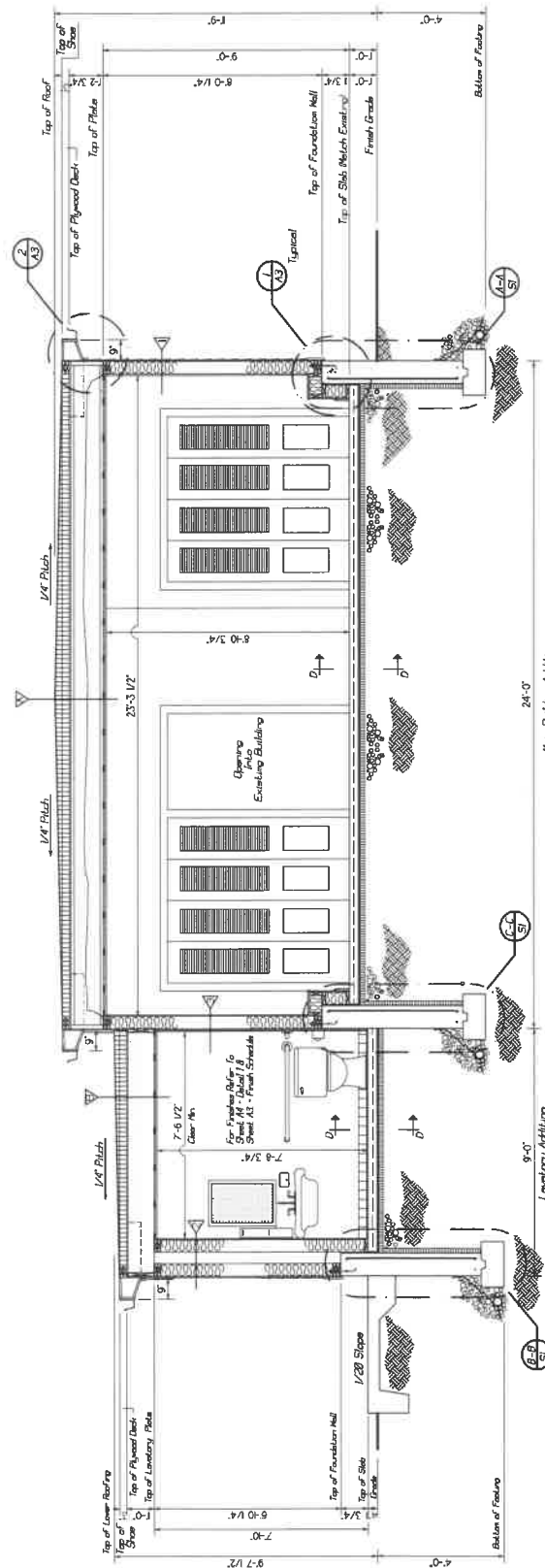
# Material Specifications

- Roofing Membrane - 6020 EPDM Fully Adhered Membrane
- Insulation Board - 2" Minimum, Tapered ISO Insulation Board, Confirm EPDM Manufactures Compatibility Prior To Installation.
- Thermal Barrier - Confirm With EPDM Manufacturer IF Required
- Air Barrier - Confirm With EPDM Manufacturer IF Required
- Structural Deck - 3/4" CDX Plywood Sheathing
- Gutter - "Trent Logo" 5" Aluminum Open Gutter, White with Aluminum Hangers (8827 or Equal)
- Downspout - "Trent Logo" 4" Round (8820) Downspouts with Aluminum Elbows And Downspout Hangers (Or Equal)
- Flashing - All Flashing Shall Be Aluminum, Unless Other Note Required By Roofing Manufacturer.

## Roofing Specifications



Roof Plan  
1/4" = 1'



Building Section  
1/2" = 1'

Main Building Addition

Landscaping Addition

Roof Plan  
Building Section  
Roof Material Specifications

Palmer Cove Park  
Teen Resource Center  
50 Leavitt Street  
Salem, Massachusetts

Scale:  
As Noted

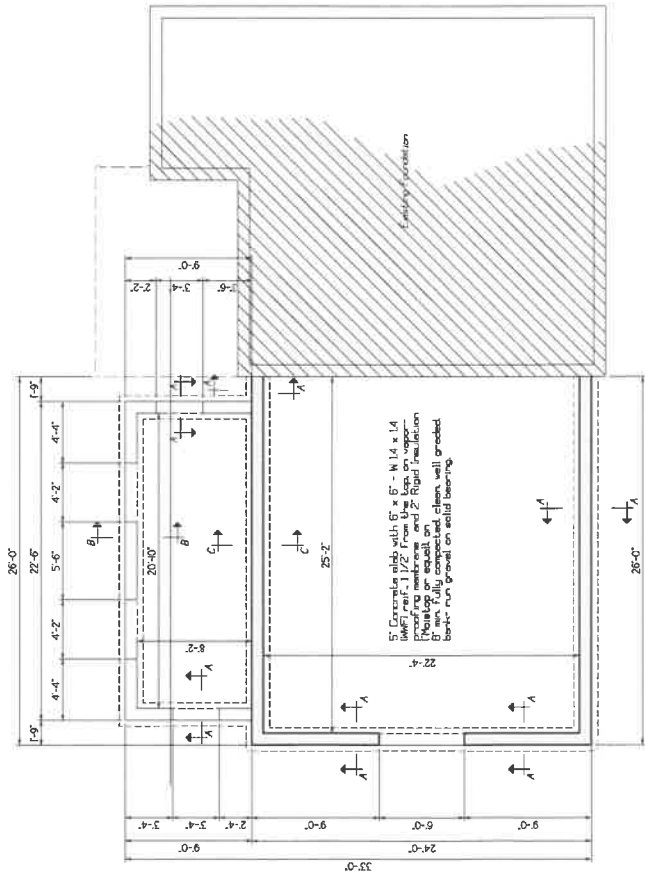
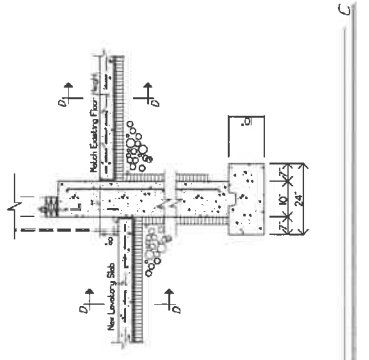
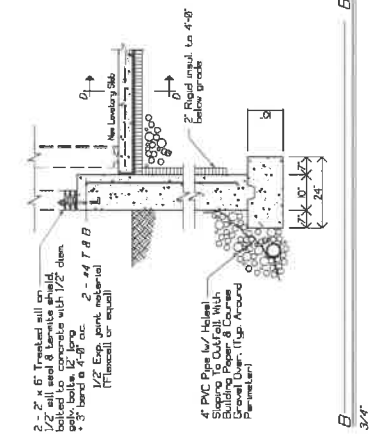
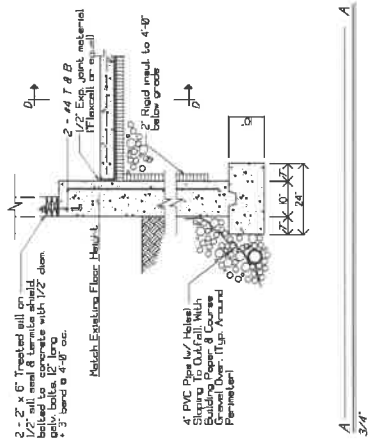
Date:  
September 4, 2012

Drawn By:  
Franklin

A2



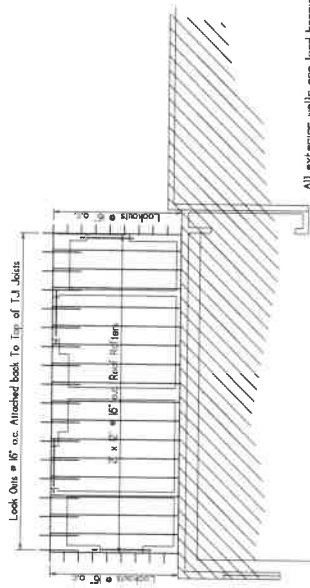




Foundation Plan  
1/4\"/>

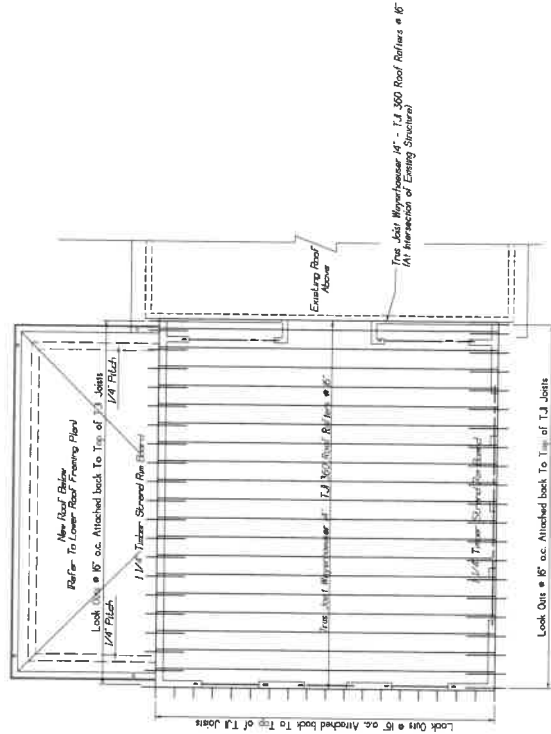
**NOTES**

- All work shall conform to the latest Commonwealth of Massachusetts State Building Code.
- All foundations shall rest on solid bearing firm, capacity = 21750. Where resting on fill, the Engineer shall specify the type of fill and the capacity of the fill. If the capacity of the fill is less than 21750, the foundations shall be designed for the actual capacity of the fill.
- All concrete work shall conform to the latest ACI Building Code Requirements for Structural Concrete (ACI 308) and the Commonwealth of Massachusetts State Building Code. In case of conflict, the State Building Code shall govern, no concrete shall be placed on frozen ground or placed when the temperature is below 40 degrees Fahrenheit without written permission from the Engineer.
- Concrete shall have a minimum compressive strength of 3000 psi at 28 days. Ground under column base plates and under other bearing plates shall be non-shrink, high-strength concrete with a minimum compressive strength of 5000 psi at 3 days. Slabs & walls shall be cast in place concrete with a minimum 15% air content.
- The building with retaining earth have been designed based on lateral support from interior slabs shall have a steel internal finish unless otherwise noted. Exterior slabs shall have a rough finish unless otherwise noted.
- Rebar shall conform to ASTM 605 & 305, Fy = 60,000 psi. Welded wire fabric shall conform to ASTM A65.
- All carpentry work shall conform to the latest NFPA standards using PS - 1,000 psi & E - 11 x 10 x 10 psi for diameter lumber. PS - 2,000 psi 1/2\"/>



All exterior walls are load bearing.  
 All roof rafters shown as ----- shall be 2" x 10" @ 16" o.c. unless otherwise noted.  
 Exterior posts shall be 3" x 2" x 6" unless otherwise noted.  
 Interior posts shall be 3" x 2" x 4" unless otherwise noted.  
 Headers for load bearing walls shown as ----- shall be 3" x 2" x 10" unless otherwise noted.

*Lower Roof Framing Plan*  
 1/11/12



All exterior walls are load bearing.  
 All roof rafters shown as ----- shall be 14" T.J. 300 unless otherwise noted.  
 Exterior posts shall be 3" x 2" x 6" unless otherwise noted.  
 Interior posts shall be 3" x 2" x 4" unless otherwise noted.  
 Headers for load bearing walls shown as ----- shall be 3" x 2" x 10" unless otherwise noted.

*Upper Roof Framing Plan*  
 1/11/12

Upper Roof Framing Plan  
 Lower Roof Framing Plan

Palmer Cove Park  
 Teen Resource Center  
 50 Leavitt Street  
 Salem, Massachusetts

Date:  
 As Noted

Date:  
 September 4, 2012

Drawing Number:

S2



**SPECIAL PROVISIONS**  
**BID #O-03**  
**Palmer Cove Park Baseball Infield**

2012

**SCOPE OF WORK**

The work to be done under this Contract consists of furnishing all necessary materials, labor, and equipment required to strip, remove, dispose, grade, mark out, sod, and cut the Palmer Cove Park Baseball Infield. Additional work items include watering and mowing of installed sod. Palmer Cove Park is located at 30 Leavitt Street, Salem, MA. The project area is comprised of the infield diamond, first baseline, third baseline, and the area around home plate (approximately 7,645 square feet in total).

**WORK SCHEDULE**

Work on this project is permitted by City Ordinance between the hours of 8:00AM and 5:00PM Monday through Saturday. Any variation to this work schedule must be approved by the City in advance. No work shall be done on Sundays or Holidays.

**PERFORMANCE PERIOD**

Work under this contract **cannot start until September 5, 2012 and all work under this contract, including maintenance of installed sod, must be completed by or before November 1, 2012.**

**CONSTRUCTION STAGING AND ACCESS**

The Landscape Contractor has the ability to access Palmer Cove Park at which ever point he/she feels is best for the purpose of performing and completing all work under this contract. Likewise, the Contract has the ability to utilize the Park for staging and storage of material and equipment. However, any damage or disturbance due to any construction, access, staging, or storage activities shall be repaired at the Landscape Contractors expense.

**ITEM 001      STRIP, REMOVE, AND DISPOSE OF EXISTING INFIELD GRASS AND GRASS ALONG BASELINES**

The Landscape Contractor shall strip the existing grass from the infield diamond (surrounding the pitchers mound), the grass along the first base and third baselines (108-feet long x 4-feet wide), and around home plate (6-feet radius around home plate) as shown on *Baseball Infield Layout* in Section 5. All striped grass shall be disposed of legally off-site, at the Landscape Contractor's expense.

**ITEM 002      GRADE AND LOAM INFIELD AND AREAS ALONG BASELINES**

Once existing grass is stripped from the infield diamond (surround the pitchers mound) and alongside the first baseline, third baseline, and around home plate as shown on the *Baseball Infield Layout* in Section 5, the Landscape Contractor shall make sure that the project area is clear of all debris, weeds, and rocks. Rough grade the project area and till the top soil and add additional loam as necessary. A final top soil/loam depth of 4 to 6-inches is desired.



Infield diamond shall be graded so that the pitchers mound is 10-inches above home plate and a positive slope is created from the pitchers mound to first base, second base, and third base.

The grass alongside the first baseline and third baseline are to be graded and loamed as necessary so as to achieve consistency with the surrounding grade.

**ITEM 003      MARK OUT, SOD, AND CUT INFIELD AND AREAS ALONG BASELINES**

Once striped, graded, and loamed the Landscape Contractor shall mark out the infield diamond and areas along the first baseline, the third baseline, and around home plate. Contactor shall mark out the infield and baselines to meet the specifications shown on *Baseball Infield Layout* in Section 5 and the following specifications:

**Base Cutout Radius:** Maintain 13-foot radius around skinned base cutouts. At first and third base the measurement is taken from the back corner of the base inward to the infield grass, at second base the measurement begins at the center of the base and extends inward to the infield grass.

**Pitching Mound Radius:** Maintain a skinned 9-foot radius around the pitching mound

**Home Plate Radius:** Maintain a skinned 13-foot radius around home plate

**First and Third Baseline Width:** Maintain 3-foot wide skinned baselines between the infield diamond and areas along the first and third baselines to be sodded.

The infield diamond area to be sodded is approximately 6,545 sq ft and the total area to be sodded along the baselines and home plate is approximately 1,100 sq ft.

**Sod used shall consist of high quality Kentucky Bluegrass free of weeds, disease and insects and of good color and density.**

**Initial Watering:** After all grading has been completed the soil shall be irrigated within 12 to 24 hours prior to laying the sod. Sod should not be laid on soil that is dry and powdery. The Landscape Contractor shall be responsible for watering sod immediately during and after installation to prevent drying. It shall then be thoroughly irrigated to a depth sufficient that the underside of the new sod pad and soil immediately below the sod are thoroughly wet. As soon as it is dry enough to walk on, lightly roll or tamp the sod to give a good contact with the soil beneath. This is necessary to remove any air pockets that will interfere with proper rooting.

**The City of Salem has a sprinkler system and water available at the Palmer Cove Park for the Landscape Contractor to use. The Landscape Contractor must contact Tom O'Shea, City of Salem DPW, at 978-423-4689 in order to use the City water system at the park.**

**Secure and Protect Newly Installed Sod:** The Landscape Contractor must install temporary fencing (orange snow fencing or chain link fencing) around the newly sodded areas to secure and protect the newly installed sod from any unauthorized use, until Final Approval by the City of Salem.

**Acceptance:** Acceptance of the installed sod shall be done within 24 hours of completion of an area or section, unless otherwise specified. Please contact Tom O'Shea, City of Salem DPW, at 978-423-4689 to arrange an inspection for acceptance of completed work.



**ITEM 004**      **MAINTENANCE OF INSTALLED SOD**

The Landscape Contractor shall be responsible for maintaining the accepted installed sod as instructed below for 30 days or until otherwise specified by the City:

**Watering - First Week and Subsequent Weeks:** The Landscape Contractor is responsible for watering the sod (how much, how frequent, etc.) in order to guarantee that sod will take.

**Mowing:** Sod shall be mowed twice during the 30 day maintenance period. Sod height shall be maintained between 1½ and 2½ inches unless otherwise specified. Not more than 1/2 of the grass leaf shall be removed by the initial cutting or subsequent cutting.

**Final Approval:** Following the 30 day maintenance period, the Landscape Contractor shall contact Tom O'Shea, City of Salem DPW, at 978-423-4689 to arrange an inspection for final approval. Once Final Approval is obtained by the Landscape Contractor, then the City of Salem will assume any and all future maintenance of the Park.

**Guarantee:** The Landscape Contractor shall guarantee all work covered under this contract, until final approval by the City of Salem.





2013

**CITY OF SALEM, MASSACHUSETTS  
PALMER COVE PARK  
BASKETBALL COURT SURFACE REHABILITATION**

**SUMMARY**

The work consists of providing all labor, equipment, materials, incidental work, and construction methods necessary to rehabilitate the existing basketball court surface at Palmer Cove Park, 30 Leavitt Street, Salem, Massachusetts.

**PRODUCTS: COURT RESURFACING MATERIALS**

Crack repair products, patching compounds, color coatings and line striping paint shall be pure acrylic, containing no asphaltic or tar emulsions, nor any vinyl, alkyd or non-acrylic resins. Color system shall be factory-mixed compounds requiring addition of water and approved fine sand at the jobsite. All materials shall be delivered to the job site in sealed containers with the manufacturer's labels affixed. Use single manufacturer's system throughout.

Acceptable manufacturers shall be limited to the following:

1. Environmental Sport Coatings
2. California Products
3. World Class
4. Laykold
5. Nova Sports

**CRACK REPAIR**

1. Clean cracks of loose debris and dirt to their full depth by compressed air.
2. Seal cracks one-half inch wide or less using a flexible, sand filled, elastomeric compound that will stretch with small movements of minor, non-structural cracks. Crack filler shall be same color as finish coat. For cracks greater than one-half inch wide, mix a high strength acrylic bonding liquid specifically designed to mix with Portland cement and fine silica sand.

**PATCHING**

- A. Following crack sealing, flood the entire court and leave the court to air dry in full sun for one hour. Water and hose is available at the site; contact City Project Manager to coordinate. All puddles shall be outlined with chalk to identify areas requiring patching. After the puddles have fully evaporated, spread approved patching compound over the marked areas, extending the patch beyond the chalk outline no less than 12 inches in all directions. Fill all low areas 1/8 inches or deeper with approved patching compound color to match finish coat.
- B. Feather edges of patch repair to existing tennis and basketball court surfaces. Let dry minimum 12 hours and rub all rough spots smooth using an approved rubbing stone. Blow off all loose particles left by the rubbing stone. Carefully inspect the court surface looking for drips and smears of patching compound, and remove by scraping.
- C. Performance standards for patching:
  1. No standing water, one hour after flooding, which can cover a nickel
  2. No surface irregularities which vary more than 1/4" along a ten foot straightedge placed in any direction on the playing surface of the court.



**COLOR COATING (Bright Red and Dark Blue)**

- A. Color chips of finish court color coat and line striping paint coatings must be submitted to and approved by the City Project Manager prior to purchase and application.
- B. Apply 2 coats of textured acrylic color-coating to the basketball court (refer to attached court layout plan) Apply only when surface is dry. Apply when weather reports indicate clear weather moving forward 48 hours and temperature is 50 degrees F and rising. Do not apply when surface temperature is 140 degrees F or hotter.
- C. Allow each application to dry thoroughly.

**LINE MARKINGS (White)**

- A. Upon completion and acceptance of the rehabilitated court surfaces, this Contractor shall prepare and paint lines for the court. Paint final basketball court lines precisely over previous, existing lines (2-inches wide).
- B. All lines are to be applied by painting between masking tape with a paintbrush or roller.
- C. Paint lines with approved textured line paint. Allow application to dry.
- D. Remove masking tape immediately after lines are dry.
- E. Protect adjacent areas and structures (fences, posts, sidewalks, buildings, etc.), which are not to be coated. In the event that coatings are applied to above, remove immediately before drying is complete.

**COMPLETION**

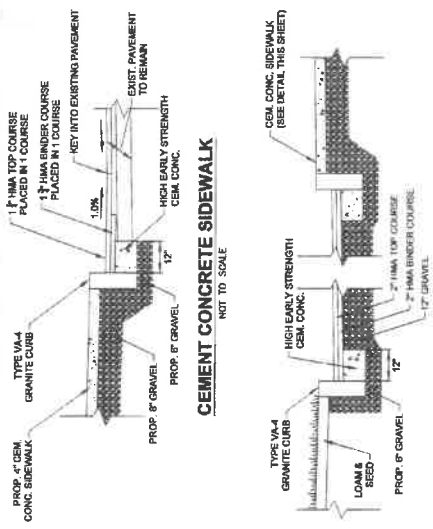
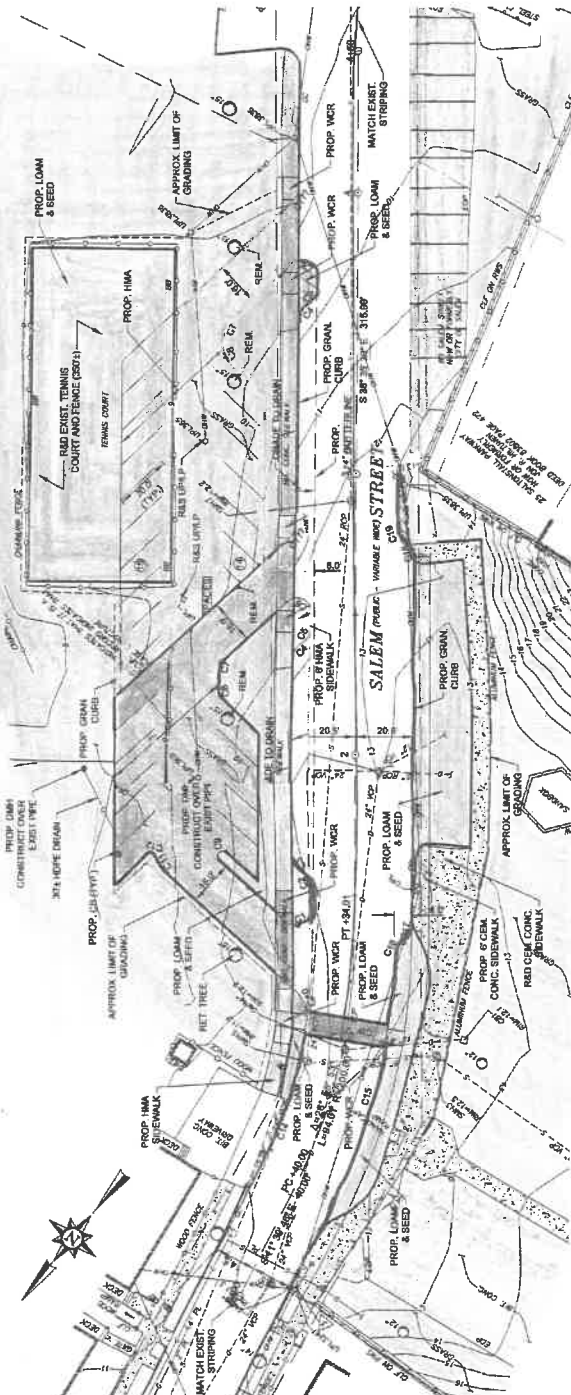
- A. Upon completion, the contractor shall insure proper removal of all construction debris, surplus materials, empty containers and wash water, and shall leave the site in a condition acceptable to the City of Salem.

Project Plan - Project Not completed  
See Jilites



LOCUS MAP  
(7/14/2007)

Curve	Station	Radius	Tangent	Length
C1	13+70.00	10.00	4.37	5.17
C2	13+70.00	10.00	11.64	11.62
C3	13+70.00	10.00	3.46	4.28
C4	13+70.00	10.00	3.46	4.28
C5	13+70.00	10.00	3.46	4.28
C6	13+70.00	10.00	3.46	4.28
C7	13+70.00	10.00	3.46	4.28
C8	13+70.00	10.00	3.46	4.28
C9	13+70.00	10.00	3.46	4.28
C10	13+70.00	10.00	3.46	4.28
C11	13+70.00	10.00	3.46	4.28
C12	13+70.00	10.00	3.46	4.28
C13	13+70.00	10.00	3.46	4.28
C14	13+70.00	10.00	3.46	4.28
C15	13+70.00	10.00	3.46	4.28
C16	13+70.00	10.00	3.46	4.28
C17	13+70.00	10.00	3.46	4.28
C18	13+70.00	10.00	3.46	4.28
C19	13+70.00	10.00	3.46	4.28
C20	13+70.00	10.00	3.46	4.28



NOTES

- THE TOPGRAPHIC SITE DETAIL & SURFACE IMPROVEMENTS EXPLODED ON THE GROUND BY MERRIMAN ASSOCIATES, INC. BETWEEN JUNE 16-19 2015.
- THE SUBJECT PROJECT IS LOCATED IN THE R2 (RESIDENTIAL) ZONING DISTRICT.
- THE SUBJECT PROJECT IS IDENTIFIED AS LOT 474 ON CITY OF SALEM ASSESSOR'S MAP 34.
- THE LOCATION OF ALL UNDERGROUND UTILITIES MAY NOT BE THE SAME AS SHOWN ON THE CITY OF SALEM RECORD DRAWING. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED BY FIELD SURVEY AND COMPARED TO THE CITY OF SALEM RECORD DRAWING. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED BY FIELD SURVEY AND COMPARED TO THE CITY OF SALEM RECORD DRAWING.
- BASED UPON THE CITY OF SALEM RECORD DRAWING, THE PROJECT IS LOCATED IN THE R2 (RESIDENTIAL) ZONING DISTRICT.
- THE PLAN DOES NOT SHOW ANY UNRECORDED OR UNRECORDED EASEMENTS OR RIGHTS OF WAY. THE PLAN DOES NOT SHOW ANY UNRECORDED OR UNRECORDED EASEMENTS OR RIGHTS OF WAY.
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TEMPORARY BENCHMARK CHART

CHART #	DESCRIPTION	DATE
1	1-OUT ON FRONT CAP BOLT	27.07
2	HYDRAULIC 2" A.C.	12.04
3	POLE 2" A.C.	12.04

LEGEND

- 2" - 1/2" POST CONTAINER
- 2" - 1/2" POST CONTAINER
- 2" - 1/2" POST CONTAINER
- 2" - 1/2" POST CONTAINER
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- 2" - 1/2" POST CONTAINER
- 2" - 1/2" POST CONTAINER

DATE: 07/14/2007

PLOT DATE: 7/19/2015 2:16 PM

ISSUANCE DATE: 7/20/2015 12:42 PM

SHEET No. 1

PROJECT: SALTONSTALL SCHOOL CONSTRUCTION PLAN - OPTION 1 SALEM, MASSACHUSETTS

SCALE: 1" = 20'

DRAFT

BETA

PREPARED BY: [Name]

DATE: [Date]

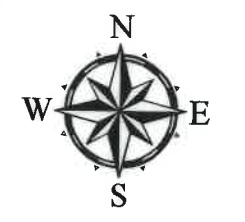
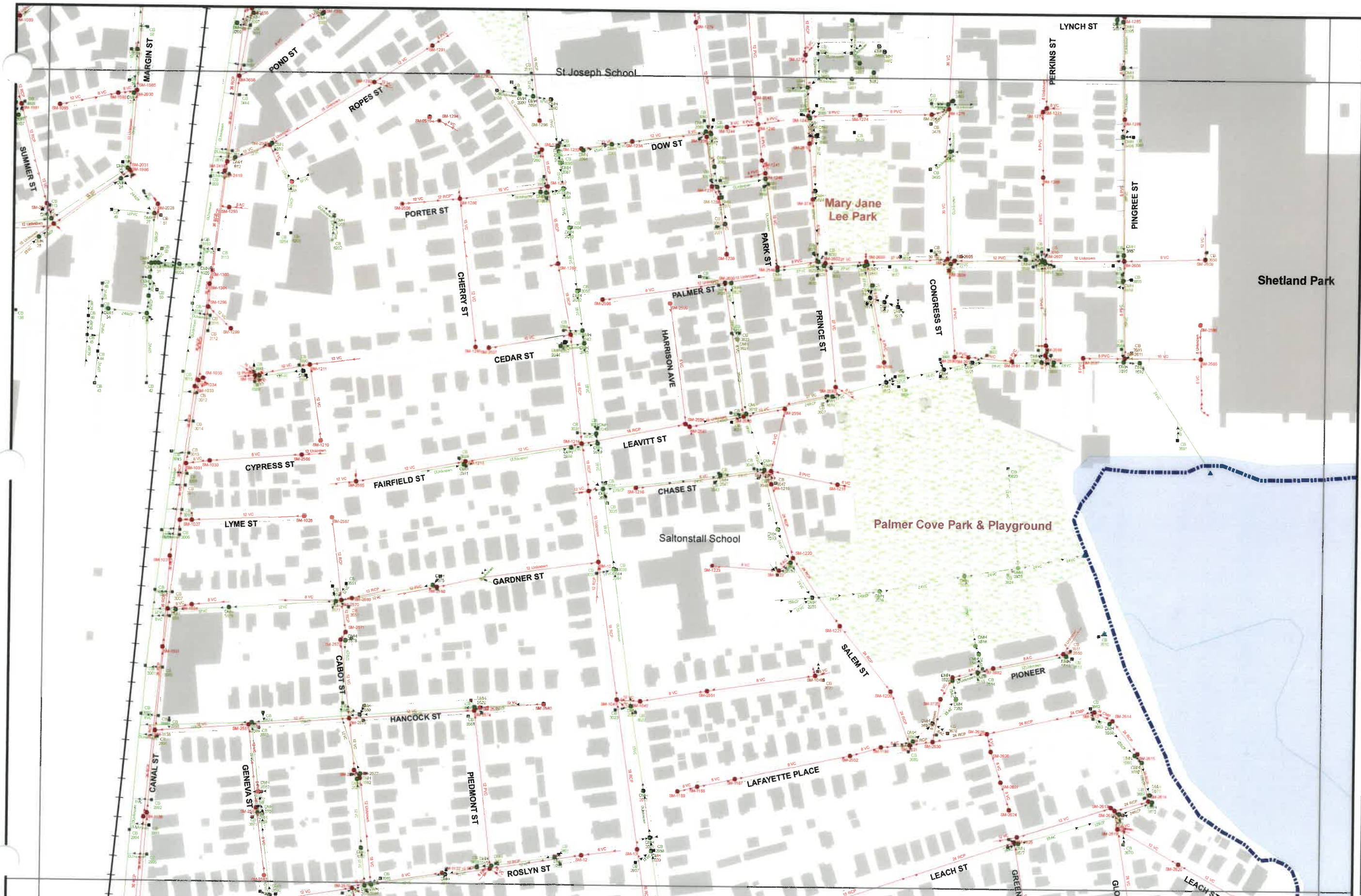
DESIGNED BY: [Name]

CHECKED BY: [Name]

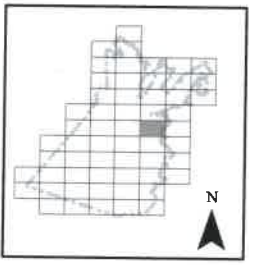
APPROVED BY: [Name]

REVISIONS





1 inch = 225 feet



**Legend**

**Stormdrain System**

- Catchbasin
- Drain Manhole
- Drain Pipe
- Outfall
- Culvert
- Inlet

**Sanitary System**

- Sewer Manhole
- Sewer Pipe

**Services**

- Services
- Capped Service
- Pipe Crossing

**Abandoned Structures**

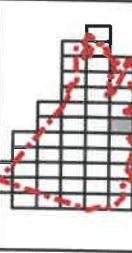
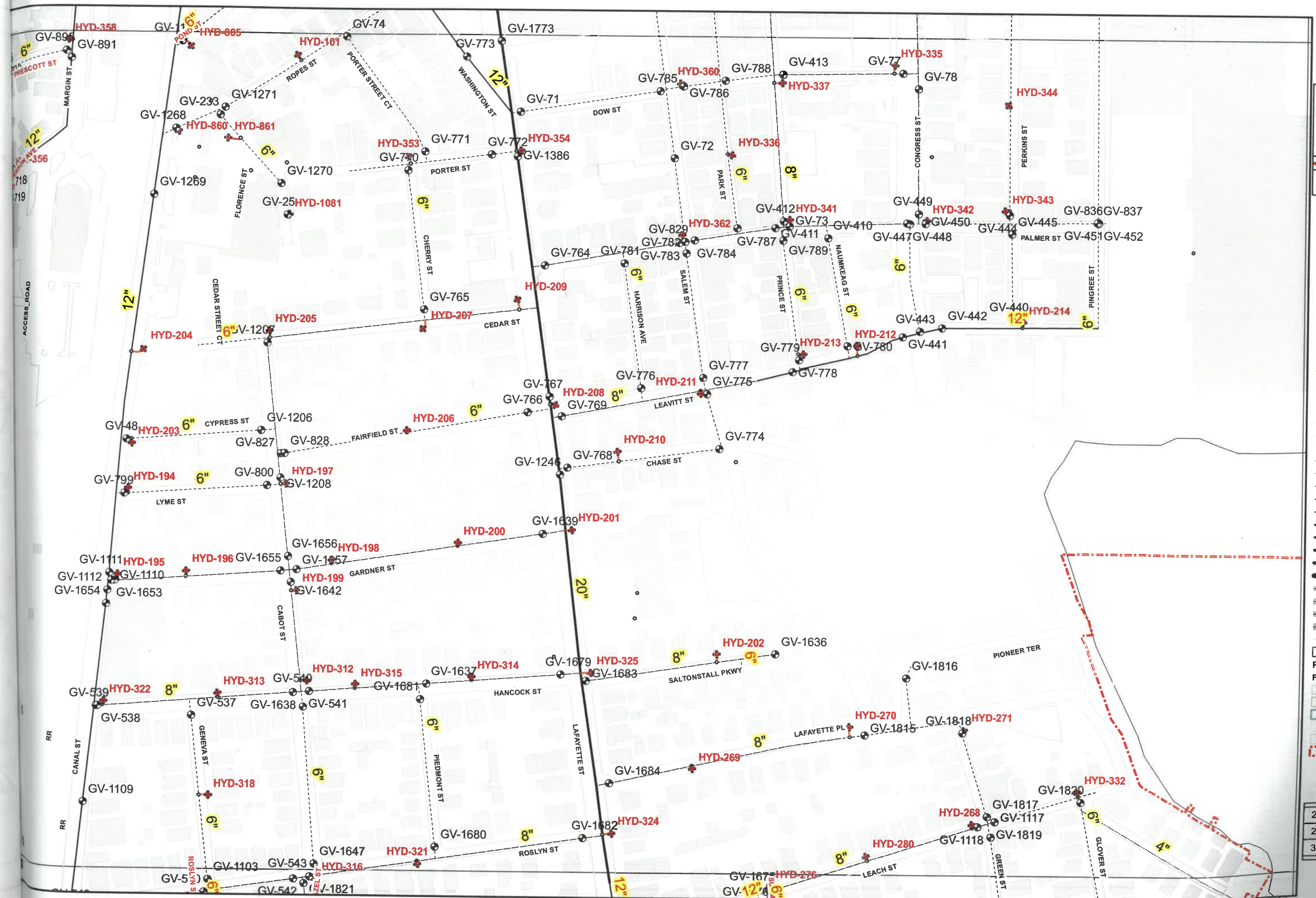
- Abandoned Structures
- Abandoned Drain line
- Abandoned Sewer line

**City Boundary**

- SALEM
- Buildings
- Railroad

20	21	22
25	26	27
31	32	33





- Pressure Main**
- Diameter**
- Unknown
  - 1.25"
  - 1.5"
  - 2"
  - 4"
  - 6"
  - 8"
  - 10"
  - 12"
  - 16"
  - 20"
  - 24"
  - 30"
  - 36"
  - 40"
  - 42"
  - 48"
  - 63"
- Edge of Paved
- WaterGrid
- Phase\_Boundary**
- Flushing Phase**
- 1
  - 2
  - 3
  - 4
  - 5
- Boundary\_Coast

21	22	23
26	27	28
32	33	34

21	22	23
26	27	28
32	33	34