



Watertown City Council
Monday, January 14, 2013
7:00 p.m.

Work Session Agenda

Discussion Items:

1. Electric Vehicle Charging Stations
Elliott B. Nelson, Confidential Assistant to the City Manager
2. Thompson Park Zoo Pavilion
Kurt W. Hauk, City Engineer
3. Human Resource Position
Sharon Addison, City Manager

January 10, 2013

To: The Honorable Mayor and City Council
From: Elliott B. Nelson, Confidential Assistant to the City Manager
Subject: Electric Vehicle Charging Stations

At the regular City Council meeting of January 7, 2013, City Council had the opportunity to review a potential grant opportunity for the installation of electric vehicle charging stations to be placed on City property at a reduced cost. At that time, Council requested more information with discussion to take place at the January 14 Work Session. As Council is aware, the parameters of this grant opportunity require that the electricity used to charge electric vehicles be provided at no cost to the user.

Since the meeting on January 7, City staff has reviewed this grant proposal with City Attorney Slye. Upon his recommendation, staff is no longer pursuing this grant opportunity because it conflicts with the New York State Constitution. Article VIII Section 1 of the NYS Constitution states that “No county, city, town, village or school district shall give or loan any money or property to or in aid of any individual, or private corporation or association, or private undertaking, ... nor shall any county, city, town, village or school district give or loan its credit to or in aid of any individual, or public or private corporation or association, or private undertaking...” In the opinion of Attorney Slye, participation by the City of Watertown in this program would place us in violation of this provision of the State Constitution because it requires the City to provide free power to the users of the charging stations.

Given the advice of the City’s attorney, this item is no longer scheduled for discussion at tonight’s work session.



CITY OF WATERTOWN
ENGINEERING DEPARTMENT
MEMORANDUM

DATE: January 10, 2013

TO: Sharon Addison, City Manager

FROM: Kurt W. Hauk, City Engineer

SUBJECT: Preliminary Plans and Estimate

Enclosed are the preliminary plans and budget estimate for the pavilion at the zoo for the 14 January Work Session.

Please include in the packet so that members can review the materials prior to the meeting.

cc: File

ZOO PAVILION ESTIMATE WORKSHEET

Budget Estimate

\$435,500.18

DATE 12/26/2012

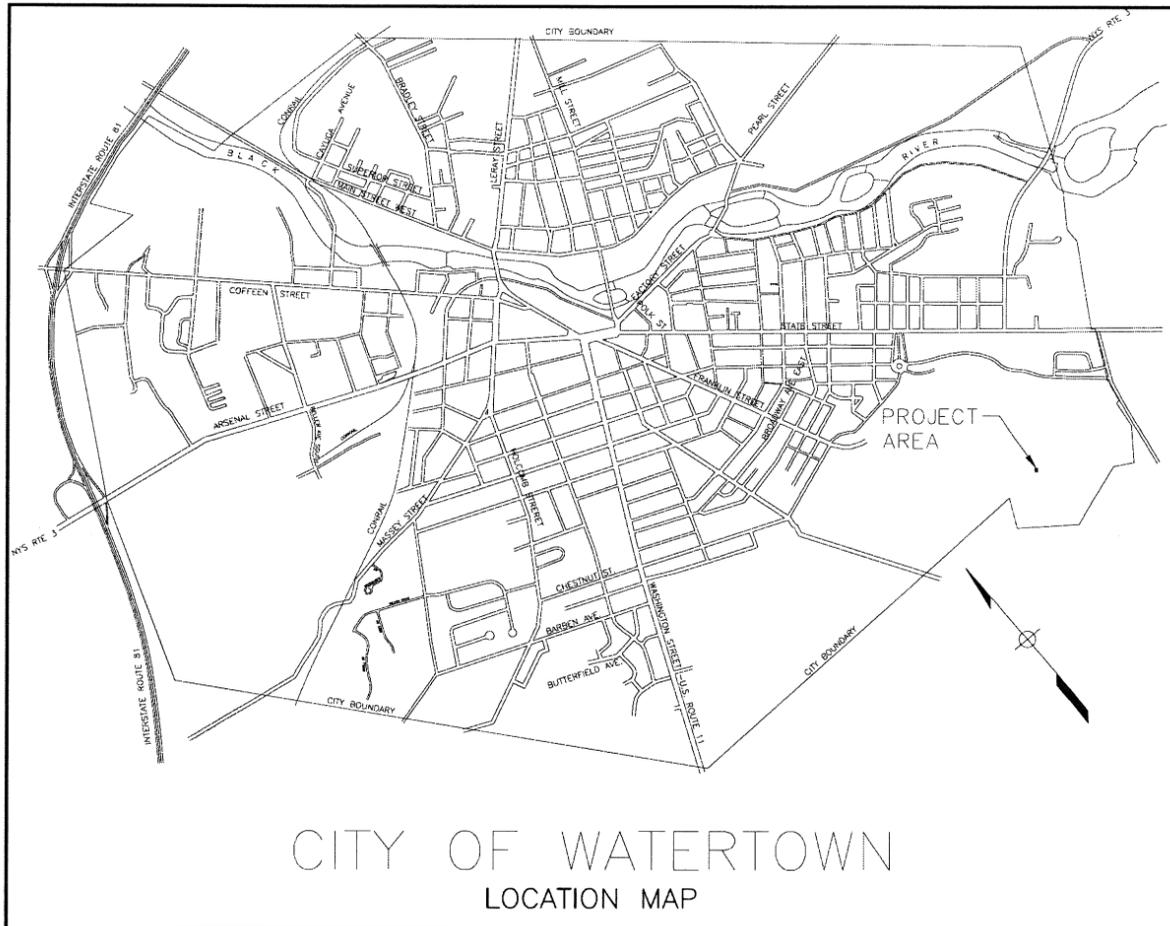
BY RJC

| ITEM # | DESCRIPTION | QTY | UNIT | UNIT PRICE | TOTAL |
|---------|---|---------|------|-------------|-------------|
| 1.00.01 | Project Engineering | 100.00% | LS | \$65,325.03 | \$65,325.03 |
| 1.00.01 | Project Inspection | 100.00% | LS | \$21,775.01 | \$21,775.01 |
| 1.00.00 | Geotechnical | 0.0 | VF | \$11.00 | \$0.00 |
| 1.00.02 | Contractor Quality Control | 100.00% | LS | \$3,888.39 | \$3,888.39 |
| 1.01.00 | Stakeout, Engineering | 100.00% | LS | \$11,665.18 | \$11,665.18 |
| 1.01.01 | Miscellaneous Work, SWPP & Mobilization | 100.00% | LS | \$19,441.97 | \$19,441.97 |
| 1.02.00 | Maintenance & Protection of Traffic | 100.00% | LS | \$11,665.18 | \$11,665.18 |
| 1.02.01 | Dust Control & SWPP | 0.0 | Day | \$175.00 | \$0.00 |

| | | | | | |
|----------|----------------------------------|--------|-----|--------------|--------------|
| 1.03.00 | Unclassified Excavation | 244.0 | CY | \$28.19 | \$6,877.14 |
| 1.03.01 | Select Granular Fill | 440.0 | Ton | \$21.02 | \$9,246.60 |
| 1.14.00 | Top Soil & Seeding / Restoration | 50.0 | SY | \$11.43 | \$571.51 |
| 1.14.01 | Top Soil | 50.0 | CY | \$39.70 | \$1,985.00 |
| 1.14.02 | Seeding | 83.3 | SY | \$1.26 | \$105.00 |
| 5.10.07 | Asphalt Conc. Top Type - 7 | 17.5 | TN | \$107.84 | \$1,887.20 |
| 1.06.04 | 4" Concrete Boarder | 480.0 | SF | \$8.30 | \$3,984.00 |
| 1.06.07 | 4" Stamped Concrete | 1120.0 | SF | \$14.00 | \$15,680.00 |
| 2.21.04 | Sewer Lateral Clean Out | 1.0 | EA | \$300.00 | \$300.00 |
| 6.00.00 | Cutler-Hammer Panel Box | 1.0 | EA | \$250.00 | \$250.00 |
| 6.01.01 | GFCI Outlets | 16.0 | EA | \$20.50 | \$328.00 |
| 6.01.02 | Outdoor GFCI Outlet Covers | 16.0 | EA | \$40.00 | \$640.00 |
| 6.01.03 | LED Lighting | 6.0 | EA | \$500.00 | \$3,000.00 |
| 6.02.00 | 3/4" SCH-80 PVC Conduit | 275.0 | LF | \$15.00 | \$4,125.00 |
| 6.02.01 | 1" SCH-80 PVC Conduit | 215.0 | LF | \$15.00 | \$3,225.00 |
| 6.02.03 | 3" SCH-80 PVC | 8.0 | LF | \$15.00 | \$120.00 |
| 10.00.00 | Aviary Demolition | 2190.0 | SF | \$15.00 | \$32,850.00 |
| 10.01.00 | 50' x 50' Cross Pavilion | 100% | LS | \$202,000.00 | \$202,000.00 |
| 10.02.00 | 5' x 8' Orlando Kiosk | 100% | LS | \$10,700.00 | \$10,700.00 |
| 10.03.00 | Concrete Footer | 196.0 | VF | \$140.00 | \$27,440.00 |
| 10.03.01 | Ply Gem Stone Veneer | 950.0 | SF | \$60.00 | \$57,000.00 |
| 10.04.00 | CMU Block Walls | 125.0 | SF | \$52.20 | \$6,525.00 |

| | |
|--------------|---------------------|
| TOTAL | \$435,500.18 |
|--------------|---------------------|

*** Total does not include Project Engineering & Inspection Costs ***



CITY OF WATERTOWN
LOCATION MAP

CITY OF WATERTOWN OFFICIALS

MAYOR— JEFFREY E. GRAHAM

CITY COUNCIL— THERESA MACALUSO
ROXANNE M BURNS
JEFFREY M. SMITH
JOSEPH M BUTLER JR

CITY MANAGER— SHARON ADDISON

CITY ATTORNEY— ROBERT J. SLYE

CITY ENGINEER— KURT W. HAUK

CITY PURCHASING AGENT— AMY M. PASTUF

FEBRUARY 2013

CONTRACT DRAWINGS

CITY OF WATERTOWN, NEW YORK
THOMPSON PARK ZOO
PAVILION CONSTRUCTION

BLD-01-2013

INDEX OF CONTRACT DRAWINGS

| SHEET NO. | TITLE | DRAWING NO. |
|-----------|-------------------------|-------------|
| 1 | COVER SHEET | - |
| 2 | GENERAL NOTES | GN-1 |
| 3 | LEGEND & ABBREVIATIONS | LE-1 |
| 4 | PLAN | PL-1 |
| 5 | DEMOLITION PLAN & NOTES | DM-1 |
| 6-7 | ARCHITECTURAL | A-1 & A-2 |
| 8 | ELECTRICAL PLAN | ME-1 |
| 9-10 | DETAILS | DT-1 & DT-2 |

PREPARED BY

CITY OF WATERTOWN—ENGINEERING DEPT.
ROOM 305—MUNICIPAL BLDG.
245 WASHINGTON STREET
WATERTOWN, NEW YORK

SET NO. _____

GENERAL NOTES:

1. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE CITY OF WATERTOWN AND THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
2. ALL ELEVATIONS SHOWN HEREIN ARE BASED ON U.S.C. & G.S 1983 DATUM.
3. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO COMPLETE CONSTRUCTION AS SHOWN HEREIN.
4. THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES AND APPURTENANCES, BOTH ABOVE AND BELOW GROUND, SHOWN HEREIN IS APPROXIMATE AND IS NOT GUARANTEED. THE DATA FOR EXISTING UTILITIES HAS BEEN OBTAINED FROM THE UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES AND APPURTENANCES IN THE PATH OF, ADJACENT TO, AND BELOW THE PATH OF THE PROPOSED WORK PRIOR TO BEGINNING WORK.
5. EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN PLOTTED FROM FIELD SURVEYS AND RECORD MAPS AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF, OR CLOSELY PARALLEL TO, AND/OR UNDER THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS OR DAMAGES OCCURRING AS A RESULT OF INCORRECTLY LOCATED UTILITIES. NO EXTENSIONS OF CONTRACT TIME AND NO MONETARY DAMAGE CLAIMS SHALL BE ALLOWED AS A RESULT OF REVISED DESIGN LOCATIONS OR TIME ALLOWED TO DO SAME WHICH RESULT FROM EXISTING UTILITIES BEING FOUND IN DIFFERENT LOCATIONS OTHER THAN SHOWN ON THESE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY "DIG SAFELY NEW YORK" AT LEAST 48 HOURS IN ADVANCE OF COMMENCING ANY WORK (TEL. NO. 1-800-962-7962 OR ONLINE AT WWW.DIGSAFELYNEWYORK.COM).
6. PROPERTY LINES, RIGHT-OF-WAY LINES, AND OWNER NAMES SHOWN ON PLANS ARE TAKEN FROM RECORDS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN LOCAL TRAFFIC, STORM DRAINAGE AND SANITARY FLOWS AT ALL TIMES. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF M.U.T.C.D. CONTRACTOR SHALL ALSO BE RESPONSIBLE TO MAINTAIN THE CONSTRUCTION SITE IN A SAFE AND ORDERLY FASHION THROUGHOUT THE PERIOD OF CONSTRUCTION WITH A MINIMAL DISRUPTION TO THE INGRESS AND EGRESS FOR PRIVATE DRIVEWAYS, PUBLIC STREETS, AND ENTRANCE TO BUSINESSES AND HOMES ALONG THE ROUTE OF CONSTRUCTION.
8. CONSTRUCTION AREAS SHALL BE FENCED FOR THE SECURITY AND SAFETY OF THE PUBLIC. CONTRACTOR SHALL ALSO PROVIDE DUST CONTROL MEASURES.
9. CONTRACTOR SHALL MAINTAIN ADEQUATE SOIL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL CLEAR MUD & DEBRIS FROM ROAD DAILY TO MINIMIZE TRACKING OF DEBRIS THROUGH THE NEIGHBORHOOD.
10. THE CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL TREES AND SHRUBS NOT SPECIFICALLY SCHEDULED FOR REMOVAL WITHIN THE PROJECT LIMITS AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING PAVEMENT, CURBS, SIDEWALKS, LAWN AREAS, AND OTHER EXISTING FEATURES CAUSED BY HIS OPERATIONS NOT RELATED TO DISTURBANCE REQUIRED BY THE IMPROVEMENTS SHOWN ON THE PLANS. ALL SUCH DAMAGE SHALL BE REPAIRED OR REPLACED IN KIND BY CONTRACTOR AT HIS EXPENSE.
11. CITY MONUMENTS ARE NOT TO BE DISTURBED UNLESS THE CITY ENGINEER'S OFFICE IS NOTIFIED PRIOR TO DOING SO. IF REMOVAL IS NECESSARY, ITS TRUE POSITION WILL BE DETERMINED BY A LICENSED LAND SURVEYOR AND THEN REPLACED BY THE CONTRACTOR AS PER THE MONUMENT DETAILS PROVIDED BY THE CITY ENGINEER'S OFFICE.
12. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING NEAR EXISTING WATER MAINS, WHICH ARE TO BE RETAINED IN SERVICE. NO VIBRATORY EQUIPMENT IS TO BE USED WITHIN 5 FEET (HORIZONTAL DISTANCE) OF EXISTING WATER MAINS.
13. THE CONTRACTOR SHALL REVIEW THE BORINGS AND BORING LOGS FOR THIS PROJECT. (THE SOIL CONDITIONS ARE MARGINAL THROUGHOUT THE PROJECT SITE.)
14. THE CONTRACTOR SHALL SAW-CUT THE EXISTING PAVEMENT, CURB AND/OR SIDEWALK WITH A NEAT, STRAIGHT AND VERTICAL EDGE AT ITS MATCH WITH NEW CONSTRUCTION. NEW PAVEMENT AND SIDEWALK SHALL BE CONSTRUCTED TO MATCH TO EXISTING IN A SMOOTH TRANSITION. SAW-CUTS SHALL BE A MINIMUM DEPTH OF 3-1/2". ALL EDGES ON EXISTING PAVEMENT SHALL BE TACK-COATED. ALL EDGES ON EXISTING SIDEWALK SHALL HAVE A BITUMINOUS EXPANSION JOINT AT THEIR MATCH WITH NEW SIDEWALK.
15. ALL BACKFILL MATERIAL SHALL BE PLACED IN 6" LIFTS AND THOROUGHLY COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-1557.
16. ALL AREAS UNDER ROADWAY PAVEMENT THAT ARE EXCAVATED OR UNDERMINED SHALL BE BACK FILLED WITH WELL GRADED CRUSHED STONE, PLACED IN 6" LIFTS COMPACTED UP TO THE ROADWAY SECTION SUBGRADE.
17. PRIOR TO THE PLACEMENT OF THE ROADWAY STONE SUBBASE COURSE, THE SUBGRADE SHALL BE PROOF-ROLLED TO INSURE A STABLE CONDITION. CONTRACTOR SHALL REPAIR ANY DEFECT IN THE SUBGRADE CONDITION PRIOR TO PLACEMENT OF THE STONE SUBBASE COURSE. THE CONTRACTOR SHALL ALSO SHAPE THE SUBGRADE TO THE PROPOSED CROSS-SLOPE AND PROFILE PRIOR TO THE PLACEMENT OF ANY SUBBASE COURSE MATERIALS.
18. CONTRACTOR SHALL ADJUST ANY UTILITY MANHOLES, VALVE BOXES, CURB STOPS, CATCH BASINS AND OTHER UTILITY FIXTURES TO FINISH GRADE.

GENERAL NOTES:

19. THE CONTRACTOR SHALL NOT KEEP AREA RESIDENTS FROM USING THEIR DRIVEWAYS FOR MORE THAN (3) DAYS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY HOMEOWNERS IN WRITING WHEN ACCESS TO THEIR RESIDENCES WILL NOT BE POSSIBLE AT LEAST 48 HOURS IN ADVANCE.
20. CONTRACTOR SHALL PERFORM ANY WORK NECESSARY TO VERIFY THE OUTFALL INVERT ELEVATIONS OF ALL EXISTING SEWERS THAT ARE TO BE CONNECTED TO THE NEW WORK IN ORDER TO INSURE PROPER FLOW.
21. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE CORRECT LOCATION OF ALL STORM & SANITARY LATERALS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY HIS OPERATIONS TO EXISTING MAINS OR LATERALS. THE CONTRACTOR SHALL ALSO VERIFY THE HORIZONTAL AND VERTICAL ALIGNMENTS OF THE STORM AND SANITARY MAIN TIE-IN-POINTS AS TO ENSURE A SMOOTH TIE-IN AND ALSO TO ENSURE PROPER ALIGNMENT ALONG THE REMAINING STORM AND SANITARY SEWER LINES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THERE ARE ANY DISCREPANCIES WITH THE HORIZONTAL OR VERTICAL ALIGNMENTS PRIOR TO PIPE INSTALLATION.
22. MAXIMUM ALLOWABLE INFILTRATION OR EXFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER DAY ON SANITARY SEWER. IF AN AIR TEST IS USED, THE TEST, AS A MINIMUM, SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM DESIGNATION #1417 ENTITLED "STANDARD PRACTICE FOR THE LOW-PRESSURE AIR TEST OF PIPE LINES". SANITARY MANHOLES SHALL BE VISUALLY INSPECTED AND TESTED FOR LEAKAGE BY EXFILTRATION OR VACUUM. VACUUM TESTING OF MANHOLES SHALL COMPLY WITH THE METHOD OUTLINED IN THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION TECHNICAL INFORMATION PAMPHLET (TIP) NO. 15 (REVISED).
23. DEFLECTION TESTS SHALL BE PERFORMED ON ALL PVC PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE FOR AT LEAST THIRTY (30) DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5% THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL; IT SHALL HAVE A DIAMETER EQUAL TO 95% OF ALL INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT THE USE OF MECHANICAL PULLING DEVICES.
24. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPE AT THE POINT OF CROSSING. ONE FULL STANDARD LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURE SUPPORT (COMPACTED SELECT FILL OR FLOWABLE FILL WILL BE ACCEPTABLE) SHALL BE PROVIDED FOR THE SEWER TO PREVENT DEFLECTION OF THE JOINTS AND SETTLING OF THE SEWER.
25. CONTRACTOR SHALL FLUSH, CLEAN & VIDEOTAPE ALL NEW SANITARY AND STORM SEWER MAINS AFTER A MINIMUM OF 30 DAYS AFTER BACKFILL. ALL TAPES AND LOGS SHALL BE SUBMITTED TO THE CITY OF WATERTOWN FOR THEIR USE AND FINAL APPROVAL PRIOR TO PLACEMENT OF ANY FINAL ASPHALT TOP COURSE.
26. ALL EXISTING CATCH BASINS SCHEDULED TO REMAIN SHALL BE CLEANED, GROUTED AND PARCED AS NECESSARY.
27. PROPERTY OWNERS SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY REMOVAL OR RECONSTRUCTION WORK EITHER ON THEIR PROPERTY OR ALONG THE RIGHT-OF-WAY IN FRONT OF THEIR PROPERTY. DURING THE COURSE OF CONSTRUCTION MINOR GRADING, DRIVEWAY, LEAD WALK, STEP AND/OR RETAINING WALL WORK MAY BE REQUIRED OUTSIDE THE RIGHT-OF-WAY. WHERE WORK OUTSIDE THE STREET RIGHT-OF-WAY IS REQUIRED, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A "PROPERTY ACCESS AGREEMENT (SHORT FORM)" FROM PROPERTY OWNERS PRIOR TO PERFORMING ANY WORK.
28. FULL DEPTH SAW CUTTING SHALL BE REQUIRED FOR ALL TRENCH AND EXCAVATION WORK IN PAVEMENT REHABILITATION AREAS, AS WELL AS SIDEWALK EDGES ABUTTING SIDEWALK TO BE RETAINED AND ALONG CURBS TO BE REPLACED IN PAVEMENT REHABILITATION AREAS.
29. THE CONTRACTOR SHALL COORDINATE ALL GENERAL CONSTRUCTION ACTIVITIES AND ANY ROAD CLOSINGS WITH THE CITY OF WATERTOWN FIRE DEPARTMENT, THE CITY OF WATERTOWN POLICE DEPARTMENT, WATERTOWN CITY SCHOOL DISTRICT.
30. THE COST TO FURNISH AND APPLY TACK COAT ON PAVEMENT EDGES, CURBING, MANHOLES AND STRUCTURES SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE CONTRACT.
31. DURING SIDEWALK CONSTRUCTION, TREE ROOTS LESS THAN 2" SHALL BE CUT CLEANLY. IF ROOTS LARGER THAN 2" ARE ENCOUNTERED DURING EXCAVATION FOR NEW SIDEWALK, THE PROPOSED SUBBASE IS TO BE ELIMINATED OVER THE ROOTS AND THE NEW SIDEWALK PLACED ON THE EXISTING SUBBASE OR SUBGRADE.
32. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PRESERVE THE INTEGRITY OF EXISTING UTILITIES TO REMAIN AND PROVIDE UNINTERRUPTED SERVICE TO ALL USERS OF THE EXISTING UTILITIES. EXISTING UTILITIES (TO REMAIN) ENCOUNTERED IN TRENCH OR PAVEMENT EXCAVATIONS SHALL BE SUPPORTED AS ORDERED BY THE ENGINEER OR AS DIRECTED BY THE UTILITY COMPANY. THE COST FOR SUPPORTING UTILITIES SHALL BE INCLUDED IN THE PRICE BID FOR EXCAVATION.
33. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT DIRT, DEBRIS, AND CONSTRUCTION MATERIAL FROM ENTERING THE CITY OF WATERTOWN SEWERS, LATERALS, CATCH BASINS, MANHOLES AND APPURTENANCES AND REPAIR ANY DAMAGE CAUSED BY THE MATERIALS AT NO COST TO THE OWNER.
34. NO SEPARATE PAYMENT WILL BE MADE FOR TEMPORARY SHEETING OF EXCAVATIONS FOR WATER OR SEWER WORK IN THIS PROJECT. THE COST OF PROVIDING ALL NECESSARY TRENCH PROTECTION IN ACCORDANCE WITH THE PROVISIONS OF SECTION 206 OF THE N.Y.S.D.O.T. STANDARD CONSTRUCTION DOCUMENTS. DOCUMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 206.02.

GENERAL NOTES:

35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ALL NECESSARY AND EXTRANEOUS MATERIALS, TOOLS, AND EQUIPMENT; INCLUDING SPECIAL CUTTING DEVICES NECESSARY TO DO WATER WORK CONTAINED HEREIN.
36. APPROPRIATE MEASURES SHALL BE TAKEN TO PREVENT DIRT, DEBRIS, AND CONSTRUCTION MATERIAL FROM ENTERING THE WATER MAIN. THE GROUND WATER LEVEL SHALL NEVER BE LESS THAN 1 FOOT BELOW THE PIPE INVERT. WHENEVER AN OPEN PIPE END IS UNATTENDED IT SHALL BE COVERED IN A WATER TIGHT MANNER.
37. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE WATER SERVICES AND THE DISPOSITION OF THE WATER SERVICES BEFORE BEGINNING ABANDONMENT OR RENEWAL. THE CONSEQUENCES OF THE CONTRACTOR'S FAILURE TO DO THIS SHALL BE BORNE SOLELY BY THE CONTRACTOR. ALL WATER SERVICE WORK SHALL BE COORDINATED WITH THE CITY OF WATERTOWN WATER DEPARTMENT.
38. ANY AND ALL WORK ON THE WATER SERVICES OR WATER MAINS MUST BE COORDINATED WITH THE CITY OF WATERTOWN WATER DEPARTMENT (315) 785-8870.
39. WHERE CONSTRUCTION OF CONCRETE WALKS IS REQUIRED, THE CONTRACTOR SHALL, PRIOR TO REMOVAL OF THE EXISTING WALK, OR EXCAVATING EXISTING GROUND FOR CONSTRUCTION OF THE NEW WALK, ESTABLISH THE PRESENCE OR ABSENCE OF PROPERTY PINS OR MARKERS ALONG THE STREET MARGIN. ANY SUCH MARKERS THAT ARE REMOVED OR DISTURBED DURING WALK CONSTRUCTION WILL BE REPLACED BY A LICENSED LAND SURVEYOR AT NO COST TO THE CITY OR THE PROPERTY OWNER INVOLVED.
40. CONTRACTOR TO MAKE SURE ANY CURB BOX THAT HAS BEEN INSTALLED OR DISTURBED IS PROPERLY SET OVER THE CURB STOP, AND IS CLEAN OF DEBRIS.
41. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO KEEP DUST, DEBRIS AND NOISE TO A MINIMUM SO AS NOT TO DISTURB THE ZOO EXHIBITS AND ZOO PATRONS.
42. THE CONTRACTOR SHALL SET UP WORK FENCE AND CLEARLY DELINEATE AND WARN OF CONSTRUCTION ZONE THROUGH OUT THE DURATION OF THE WORK.

| | |
|-----------------------------|------------|
| DESIGNED BY: RJC | REVISIONS: |
| DRAWN BY: RJC | |
| DATE: 12/12/12 | |
| SCALE: AS NOTED | |
| CHECKED BY: TMM | |
| APPROVED BY: KWH | |
| PROJECT NAME: ZOO PAVILION | |
| PROJECT NUMBER: BLD-01-2013 | |
| FILE NAME: ZOO PAVILION.DWG | |

WARNING: It is a violation of Section 7209, Subdivision 2, of the New York State Education Law for any person other than a Licensed Professional Engineer to alter this map.

**CITY OF WATERTOWN
ENGINEERING DEPARTMENT**

CITY HALL, ROOM 305 PHONE: 315-785-7740
245 WASHINGTON STREET FAX: 315-785-7829

**INDEX &
GENERAL NOTES**

**THOMPSON PARK
ZOO
PAVILION**

GN-1

| FEATURE | SYMBOL | |
|------------------------------------|----------|----------|
| | EXISTING | PROPOSED |
| 1. UTILITIES | | |
| CABLE TV PULL BOX | | |
| CATCH BASIN | | |
| CLEANOUT | | |
| ELECTRIC MANHOLE | | |
| ELECTRIC PULLBOX | | |
| FIRE ALARM PULL BOX | | |
| GASLINE VENT | | |
| GAS MANHOLE | | |
| GAS METER | | |
| GAS, PHONE, TV, & OIL LINE MARKERS | | |
| GAS VALVE | | |
| GUY WIRE | | |
| HYDRANT | | |
| HYDRANT | | |
| LIGHT POLE - ORNAMENTAL | | |
| LIGHT POLE | | |
| MISC. UTILITY VALVE | | |
| OVERHEAD UTILITY | | |
| POLE NON-UTILITY | | |
| POWER & TELEPHONE VAULT | | |
| SANITARY MANHOLE | | |
| STORM MANHOLE | | |
| TELEPHONE MANHOLE | | |
| TELEPHONE PEDESTAL | | |
| TOP MOUNTED STREET LIGHT | | |
| TRANSFORMER | | |
| TRANSFORMER LINES AND TOWER | | |
| UNDERGROUND ELECTRIC | | |
| UNDERGROUND FIBER OPTIC | | |
| UNDERGROUND GAS | | |
| UNDERGROUND SEWER | | |
| UNDERGROUND STORM | | |
| UNDERGROUND TELEPHONE | | |
| UNDERGROUND WATER | | |
| UNKNOWN MANHOLE | | |
| UNKNOWN SEWER LOCATION | | |
| UTILITY BOX | | |
| UTILITY POLE | | |
| UTILITY POLE | | |
| WATER MANHOLE | | |
| WATER METER | | |
| WATER VALVE | | |

| FEATURE | SYMBOL | |
|------------------------------------|----------|----------|
| | EXISTING | PROPOSED |
| 2. NATURAL | | |
| BRUSH LINE | | |
| DRIVEWAY | | |
| EASEMENT | | |
| ELEVATION POINT | | |
| GRASS | | |
| LANDSCAPED AREA | | |
| SIDEWALK REPAIR | | |
| STUMP | | |
| SWAMP OR MARSH | | |
| TRAILS | | |
| TREE: CONIFEROUS | | |
| TREE: DECIDUOUS | | |
| TREE PLANTING LOCATION | | |
| TREE REMOVAL | | |
| 3. STRUCTURES | | |
| CITY MONUMENT | | |
| IRON PIN FOUND | | |
| IRON PIN SET | | |
| MAIL BOX | | |
| POST | | |
| SIGN | | |
| SILT FENCE | | |
| SOIL BORING | | |
| 4. TRAFFIC CONTROLS | | |
| PEDESTRIAN POLE/SIGNALS | | |
| SIGNAL POLE W/ TRAFFIC UTILITY BOX | | |
| TRAFFIC PULL BOX | | |
| TRAFFIC SIGNAL | | |
| TRAFFIC SIGNAL BOX | | |
| TRAFFIC SIGNAL HEAD | | |
| TRAFFIC SIGNAL POLE | | |
| 5. MAPPING | | |
| NORTH | | |

| TOPOGRAPHY (MISCELLANEOUS) | |
|----------------------------|--------------------------------------|
| A.O.B.E. | AS ORDERED BY ENGINEER |
| APPROX. | APPROXIMATELY |
| ASPH. | ASPHLT |
| BDY | BOUNDARY |
| BLDG. | BUILDING |
| B.M. | BENCH MARK |
| B/T | BLACKTOP |
| C.L. | CHAIN LINK (FENCE) |
| COMM. | COMMERCIAL |
| CONC. | CONCRETE |
| CONST. | CONSTRUCTION |
| DR. | DRIVE |
| DWG. | DRAWING |
| EXIST. | EXISTING |
| F.L. | FENCE LINE |
| FND | FOUND |
| FR. HO. | FRAME HOUSE |
| GAR. | GARAGE |
| GR. | GRAVEL |
| HO. | HOUSE |
| HWY. | HIGHWAY |
| I.D. | INSIDE DIAMETER |
| I.P. | IRON PIN OR IRON PIPE |
| LF | LINEAR FEET |
| MB | MAILBOX |
| MON. | MONUMENT |
| N.T.S. | NOT TO SCALE |
| O.C. | ON CENTER |
| O.D. | OUTSIDE DIAMETER |
| O.G. | ORIGINAL GROUND |
| O.H. | OVERHEAD |
| ORN. | ORNAMENTAL |
| PAVT. | PAVEMENT |
| PL | PROPERTY LINE |
| PROP. | PROPOSED |
| RD. | ROAD |
| R.O. | REPUTED OWNER |
| RR | RAILROAD |
| RTE. | ROUTE |
| R.O.W. | RIGHT OF WAY |
| STK. | STAKE |
| S.W. | SIDEWALK |
| TYP. | TYPICAL |
| U.G. | UNDERGROUND |
| UNK. | UNKNOWN |
| USC & GS | UNITED STATE COAST & GEODETIC SURVEY |

| ALIGNMENT | |
|-----------|-------------------------------------|
| AZ. | AZIMUTH |
| BK. | BACK |
| BL | BASELINE |
| BRG. | BEARING |
| CL | CENTERLINE |
| C.C. | CENTER OF CURVE |
| C.S. | CURVE TO SPIRAL |
| D | DEGREE OF CURVE |
| DIA. | DIAMETER |
| H.C.L. | HORIZONTAL CONTROL LINE |
| L | LENGTH OF CIRCULAR CURVE |
| L.V.C. | LENGTH OF VERTICAL CURVE |
| P.C. | POINT OF CURVATURE |
| P.C.C. | POINT OF COMPOUND CURVATURE |
| P.I. | POINT OF INTERSECTION |
| P.O.B. | POINT OF BEGINNING |
| P.O.E. | POINT OF ENDING |
| P.O.L. | POINT OF LINE |
| P.R.V.C. | POINT OF REVERSE VERTICAL CURVATURE |
| P.T. | POINT OF TANGENT |
| P.V.C. | POINT OF VERTICAL CURVATURE |
| P.V.I. | POINT OF VERTICAL INTERSECTION |
| P.V.T. | POINT OF VERTICAL TANGENCY |
| R | RADIUS |
| STA. | STATION |

| TOPOGRAPHY (UTILITIES) | |
|------------------------|------------------------------|
| F.M. | FORCE MAIN |
| F.O. | FIBER OPTIC |
| G | GAS |
| GM | GAS MARKER |
| G.S. | GAS REGULATOR |
| G.V. | GAS VALVE (MAIN LINE) |
| HYD. | HYDRANT |
| L.P. | LIGHT POLE |
| OCTV | OVERHEAD CABLE TELEVISION |
| OE | OVERHEAD ELECTRIC |
| OETL | OVERHEAD TRANSMISSION LINE |
| OFD | OVERHEAD FIBER OPTIC |
| OT | OVERHEAD TELEPHONE |
| SA | SANITARY |
| S.M.H. | SANITARY MANHOLE |
| ST | STORM |
| T | TELEPHONE |
| TC | TRAFFIC CONTROL |
| TEL. BOX | TELEPHONE BOX |
| TEL. P. | TELEPHONE POLE |
| UCTV | UNDERGROUND CABLE TELEVISION |
| UE | UNDERGROUND ELECTRIC |
| UFO | UNDERGROUND FIBER OPTIC |
| UT | UNDERGROUND TELEPHONE |
| W | WATER |
| W.V. | WATER VALVE (MAIN LINE) |

| TOPOGRAPHY (DRAINAGE) | |
|-----------------------|-----------------------------|
| CB | CATCHBASIN |
| C.I. | CURB INLET |
| C.I.P. | CAST IRON PIPE |
| CL STRM. | CENTERLINE OF STREAM |
| C.M.P. | CORRUGATED METAL PIPE |
| C.P. | CONCRETE PIPE |
| C.P.P. | CORRUGATED PLASTIC PIPE |
| C.S.P. | CORRUGATED STEEL PIPE |
| CULV. | CULVERT |
| D.I. | DROP INLET |
| D.I.P. | DUCTILE IRON PIPE |
| ELEV OR EL | ELEVATION |
| INV. | INVERT |
| M.H. | MANHOLE |
| PVC | POLYVINYL CHLORIDE |
| RCP | REINFORCED CONCRETE PIPE |
| T.B. | TOP OF BANK (STREAM) |
| T.C. | TOP OF CURB |
| T.O. | TOP OF OPENING |
| V.T. | VITRIFIED CLAY OR TILE PIPE |

| | |
|-----------------------------|------------|
| DESIGNER BY: RJC | REVISIONS: |
| DRAWN BY: RJC | |
| DATE: 12/12/12 | |
| SCALE: AS NOTED | |
| CHECKED BY: TMW | |
| APPROVED BY: KWH | |
| PROJECT NAME: ZOO PAVILION | |
| PROJECT NUMBER: BLD-01-2013 | |
| FILE NAME: Z00PAVILION.DWG | |

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CITY OF WATERTOWN
ENGINEERING DEPARTMENT

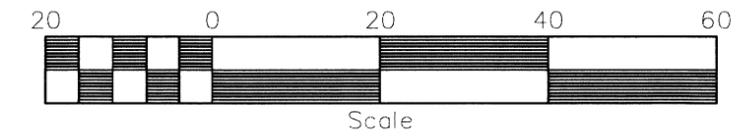
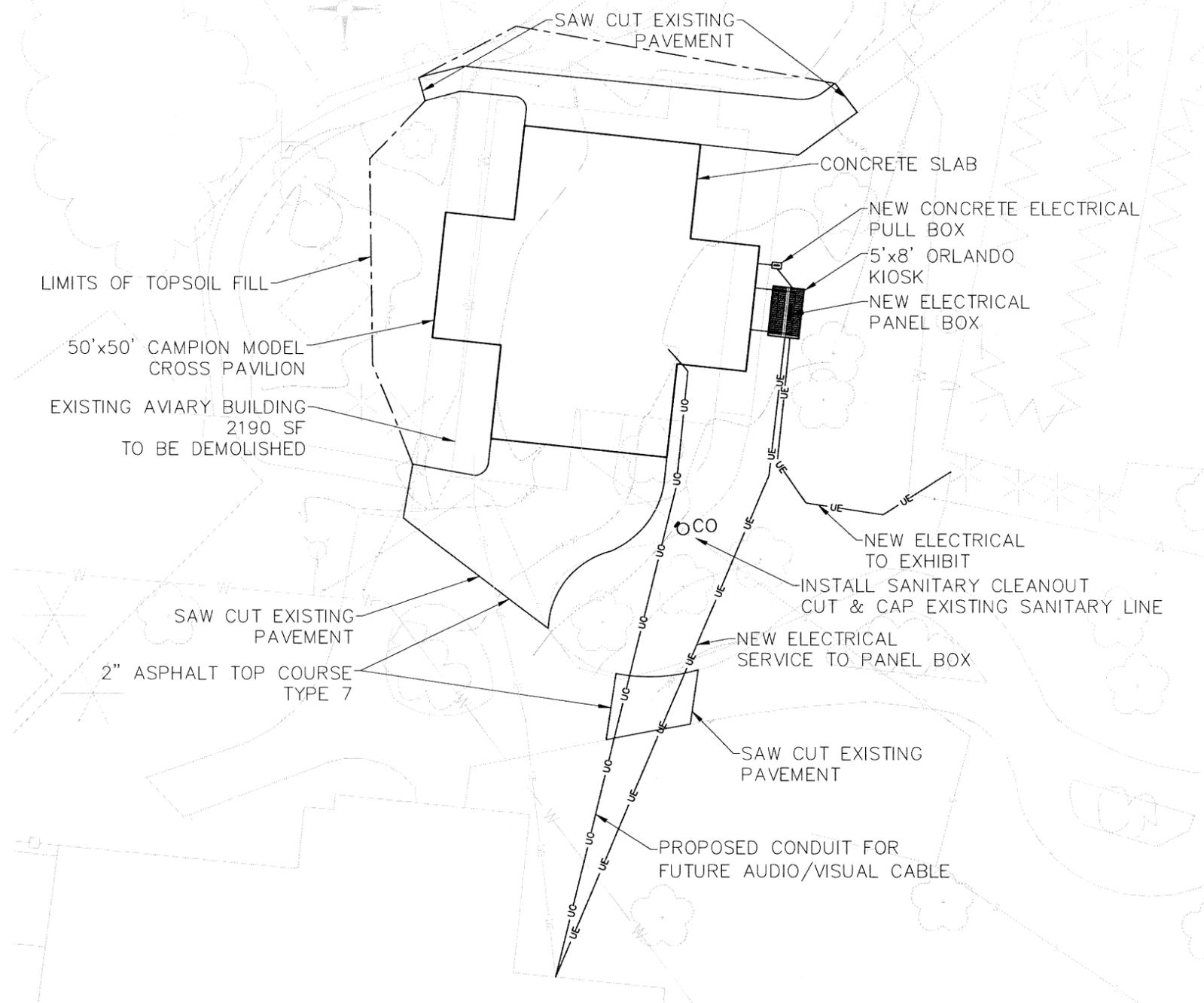
MUNICIPAL BUILDING, ROOM 305 PHONE: 315-785-7740
245 WASHINGTON STREET FAX: 315-785-7829
WATERTOWN, NEW YORK 13601

LEGEND

THOMPSON PARK
ZOO
PAVILION

LEGEND

- | | |
|--|---|
| <ul style="list-style-type: none"> LANDSCAPED AREA SIGN IRON PIPE FOUND CITY MONUMENT FOUND PROPOSED CITY MONUMENT PROPOSED ELECTRIC PANEL BOX SOIL BORING CATCH BASIN STORM MANHOLE SANITARY MANHOLE CLEANOUT GAS VALVE PROPOSED SANATARY MH PROPOSED STORM CB PROPOSED STORM MH | <ul style="list-style-type: none"> MAIL BOX TELEPHONE MANHOLE TELEPHONE PEDESTAL TRANSFORMER TRAFFIC SIGNAL POLE TRAFFIC SIGNAL BOX ELECTRIC MANHOLE UTILITY POLE GUY WIRE LIGHT POLE HYDRANT WATER VALVE PROPOSED HYDRANT PROPOSED WATER VALVE TREE PLANTING LOCATION |
| <ul style="list-style-type: none"> UNDERGROUND FIBER OPTIC UNDERGROUND TELEPHONE UNDERGROUND GAS UNDERGROUND WATER UNDERGROUND ELECTRIC UNDERGROUND STORM SEWER UNDERGROUND SANITARY SEWER UNDERGROUND CABLE UNDERGROUND UTILITIES OVERHEAD UTILITIES FENCE MARGIN LINE PROPERTY LINE | |



| | |
|-----------------------------|------------|
| DESIGNED BY: RJC | REVISIONS: |
| DRAWN BY: RJC | |
| DATE: 12/12/12 | |
| SCALE: AS NOTED | |
| CHECKED BY: TMM | |
| APPROVED BY: KWH | |
| PROJECT NAME: ZOO PAVILION | |
| PROJECT NUMBER: BLD-01-2013 | |
| FILE NAME: ZOO PAVILION.DWG | |

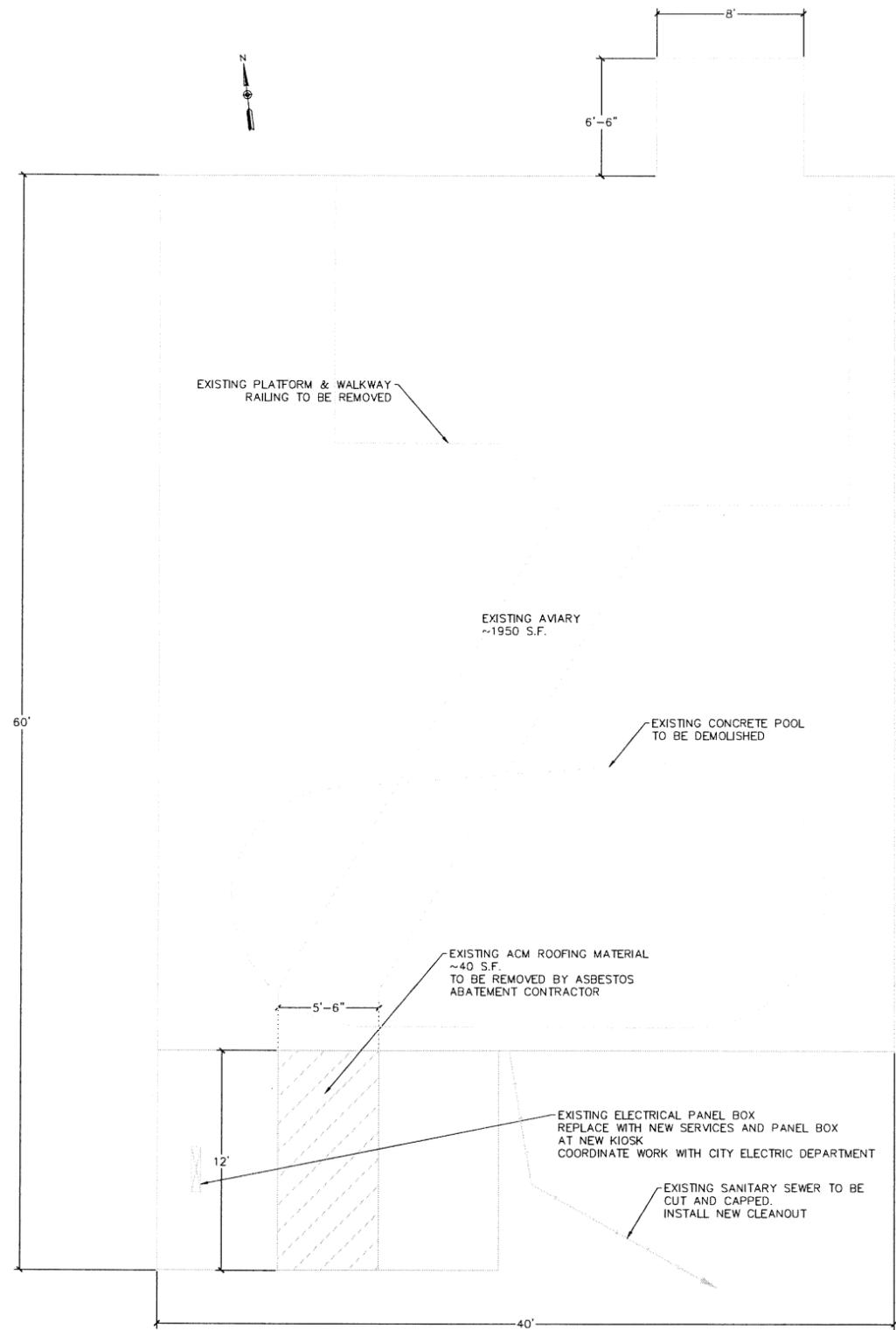
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 245 WASHINGTON STREET FAX: 315-785-7829
 WATERTOWN, NEW YORK 13601

SITE PLAN

THOMPSON PARK
ZOO
PAVILION

SHEET NO.
PL-1
 SHEET 4 OF 10



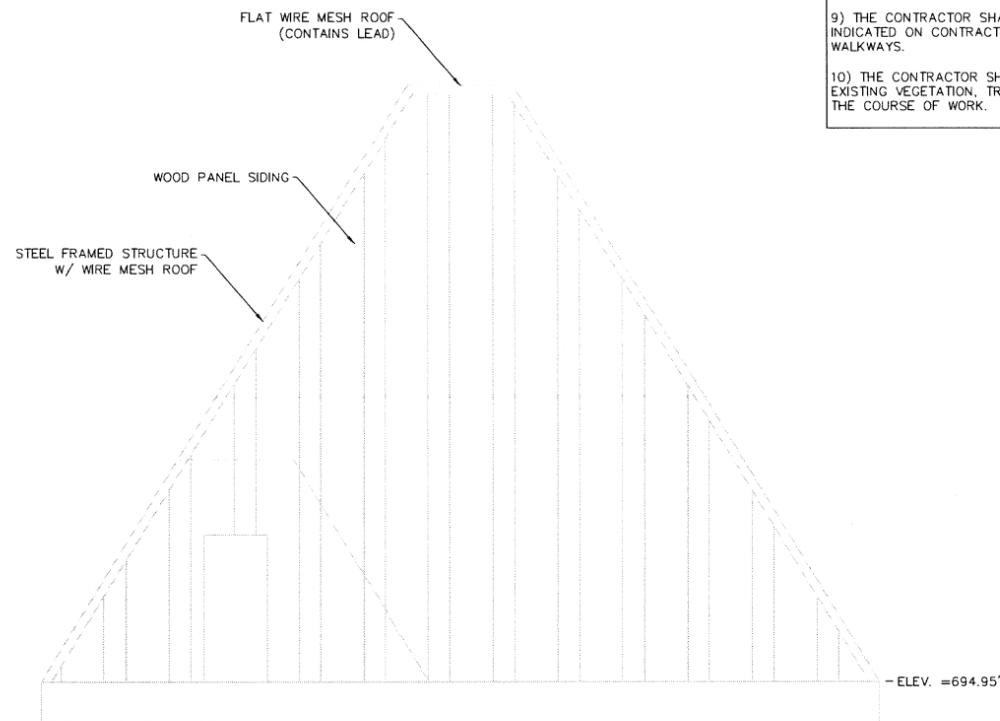
1 DEMOLITION PLAN
DM-1 1/4" = 1'-0"

NOTES:

1) THE CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE OF ACM BUILT-UP ROOFING FROM THE FLAT ROOF AREA OF THE MAIN ENTRANCE TO THE AVIARY BUILDING IN ACCORDANCE TO THE ASBESTOS ABATEMENT REMOVAL SPECIFICATIONS.

| HAZARDOUS MATERIAL | | |
|--------------------------------|-----------------------|---|
| LOCATION | DESCRIPTION | ESTIMATED QUANTITY FROM GYMO REPORT DATED 3-21-12 |
| AVIARY MAIN ENTRANCE FLAT ROOF | BLACK FIBROUS ROOFING | APPROXIMATELY 40 SF +/- |

| SAMPLING RESULTS | |
|---|--|
| ASBESTOS CONTAINING MATERIAL HAVING GREATER CONCENTRATIONS THAN 1% BY WEIGHT ARE CONSIDERED ACBM. | |
| PAINTS HAVING CONCENTRATIONS ABOVE 1.0 mg/cm ² ARE CONSIDERED LEAD BASED MATERIALS. | |
| CAULKS AND SEALANTS HAVING CONCENTRATIONS ABOVE 50 PPM ARE CONSIDERED TO BE PCB CONTAINING. | |



2 EXISTING AVIARY- SOUTH ELEVATION
DM-1 1/4" = 1'-0"

GENERAL DEMOLITION & HAZARDOUS MATERIAL NOTES

1) THE INFORMATION PROVIDED DETAILING THE HAZARDOUS MATERIAL ASSESSMENT, QUANTITIES AND LOCATIONS OF ASBESTOS, LEAD PCB CONTAINING MATERIALS WERE DERIVED FROM A LIMITED HAZARDOUS MATERIAL SURVEY CONDUCTED BY GYMO P.C., WATERTOWN, NY ON 3-21-12 & BY EMSL ANALYTICAL INC., DEPEW, NY ON 3-21-12. THESE DOCUMENTS ARE AVAILABLE IN APPENDIX C OF THE CONTRACT DOCUMENTS. ANY AND ALL CONCLUSIONS, INTERPRETATIONS AND DEDUCTIONS REGARDING THESE DOCUMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

2) IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE A SITE VISIT AND TO FIELD VERIFY THE QUANTITIES OF HAZARDOUS MATERIALS AS WELL AS ANY POTENTIALLY OTHER UNIDENTIFIED HAZARDOUS MATERIALS.

3) THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS PERTAINING TO HAZARDOUS MATERIAL ABATEMENT.

4) LOCATION OF DECONTAMINATION ENCLOSURES FOR SPECIFIED WORK AREAS SHALL BE COORDINATED WITH PROJECT MONITOR/AIR QUALITY MONITOR AS WELL AS WITH CITY OF WATERTOWN ENGINEERING DEPARTMENT.

5) THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE GENERAL SUPERVISORY ROLE OF THE HAZARDOUS MATERIAL ABATEMENT SUB-CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6) THE EXISTING ELECTRICAL PANEL BOX SHALL BE REPLACED WITH A CONCRETE PULLBOX AND BREAKERS TO BE LOCATED IN NEW PANELBOX HIDDEN BEHIND EAST SIDE OF 8'x5' "ORLANDO" KIOSK. THE CONTRACTOR SHALL COORDINATE THE RELOCATION WORK WITH THE CITY OF WATERTOWN ELECTRICAL DEPARTMENT AND ZOO OFFICIALS.

7) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND SAFEGUARDING THE EXISTING EXIT PATHWAY AND FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH CHAPTER 13 OF THE NYS BUILDING CODE AND CHAPTERS 4 & 14 OF THE FIRE CODE OF NYS.

8) ALL EXISTING CONCRETE SLAB AND FOUNDATION TO BE REMOVED FOR CONSTRUCTION OF PAVILION SLAB AND FOUNDATION.

9) THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENTS WHERE INDICATED ON CONTRACT PLANS FOR TIE-IN INTO NEW PAVEMENT WALKWAYS.

10) THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING VEGETATION, TREES, PAVED AREAS, TRAILS THROUGHOUT THE COURSE OF WORK.

| | |
|-----------------------------|------------|
| DESIGNED BY: RJC | REVISIONS: |
| DRAWN BY: RJC | |
| DATE: 12/12/12 | |
| SCALE: AS NOTED | |
| CHECKED BY: TMM | |
| APPROVED BY: KWH | |
| PROJECT NAME: ZOO PAVILION | |
| PROJECT NUMBER: BLD-01-2013 | |
| FILE NAME: ZOO PAVILION.DWG | |

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CITY OF WATERTOWN
ENGINEERING DEPARTMENT

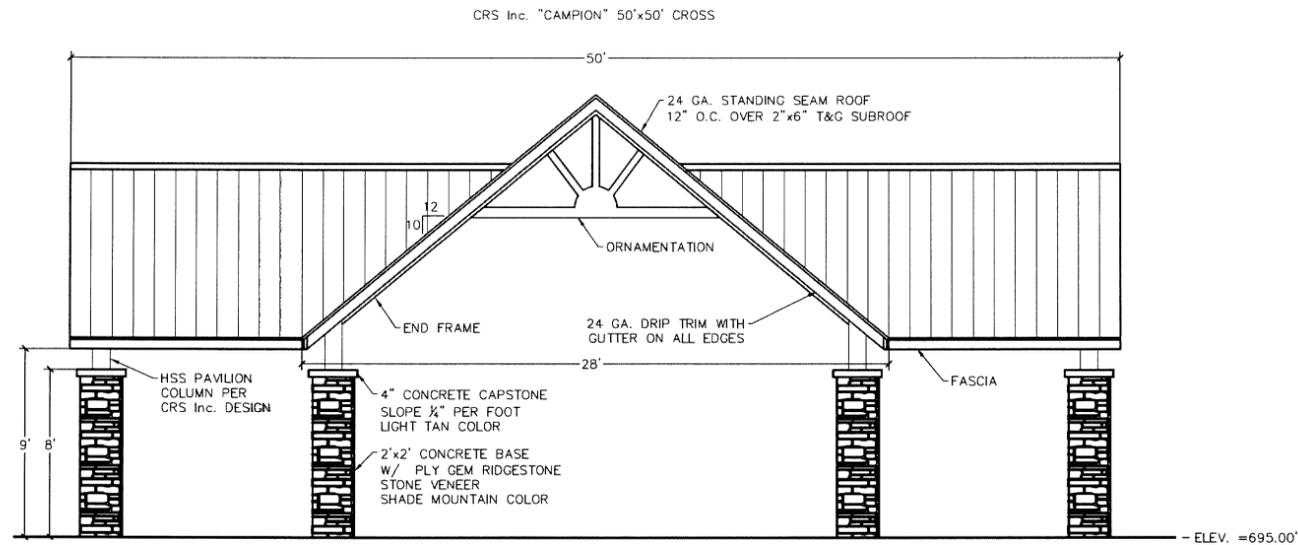
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245 WASHINGTON STREET
WATERTOWN, NEW YORK 13601

PHONE: 315-785-7740
FAX: 315-785-7829

DEMOLITION PLAN
& NOTES

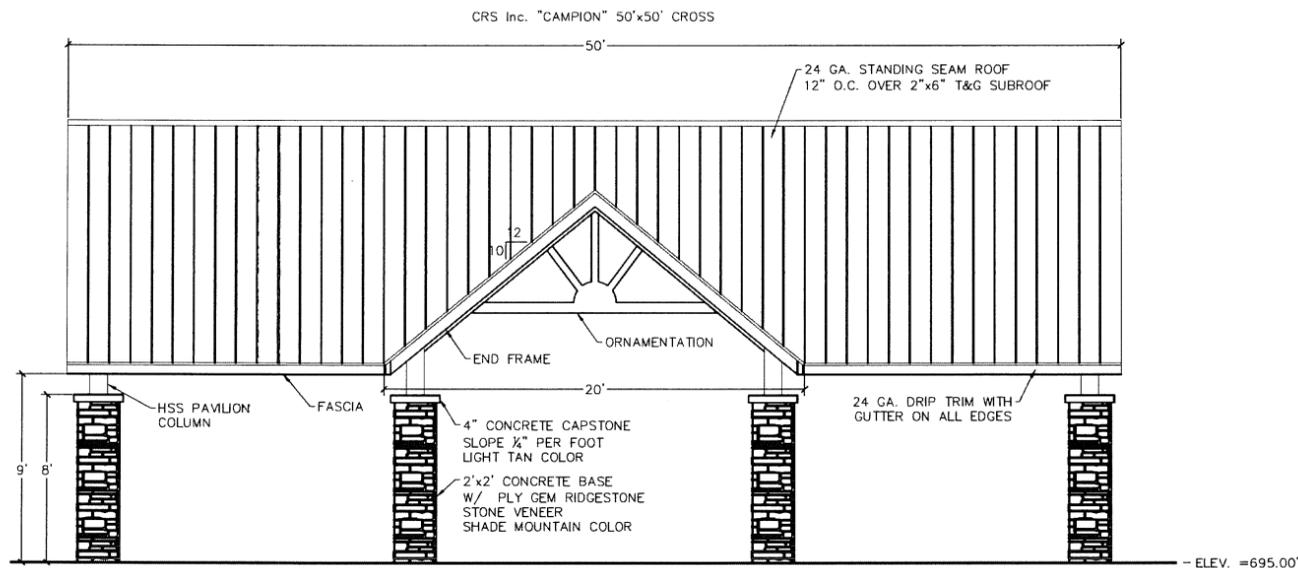
THOMPSON PARK
ZOO
PAVILION

SHEET NO.
DM-1
SHEET 5 OF 10

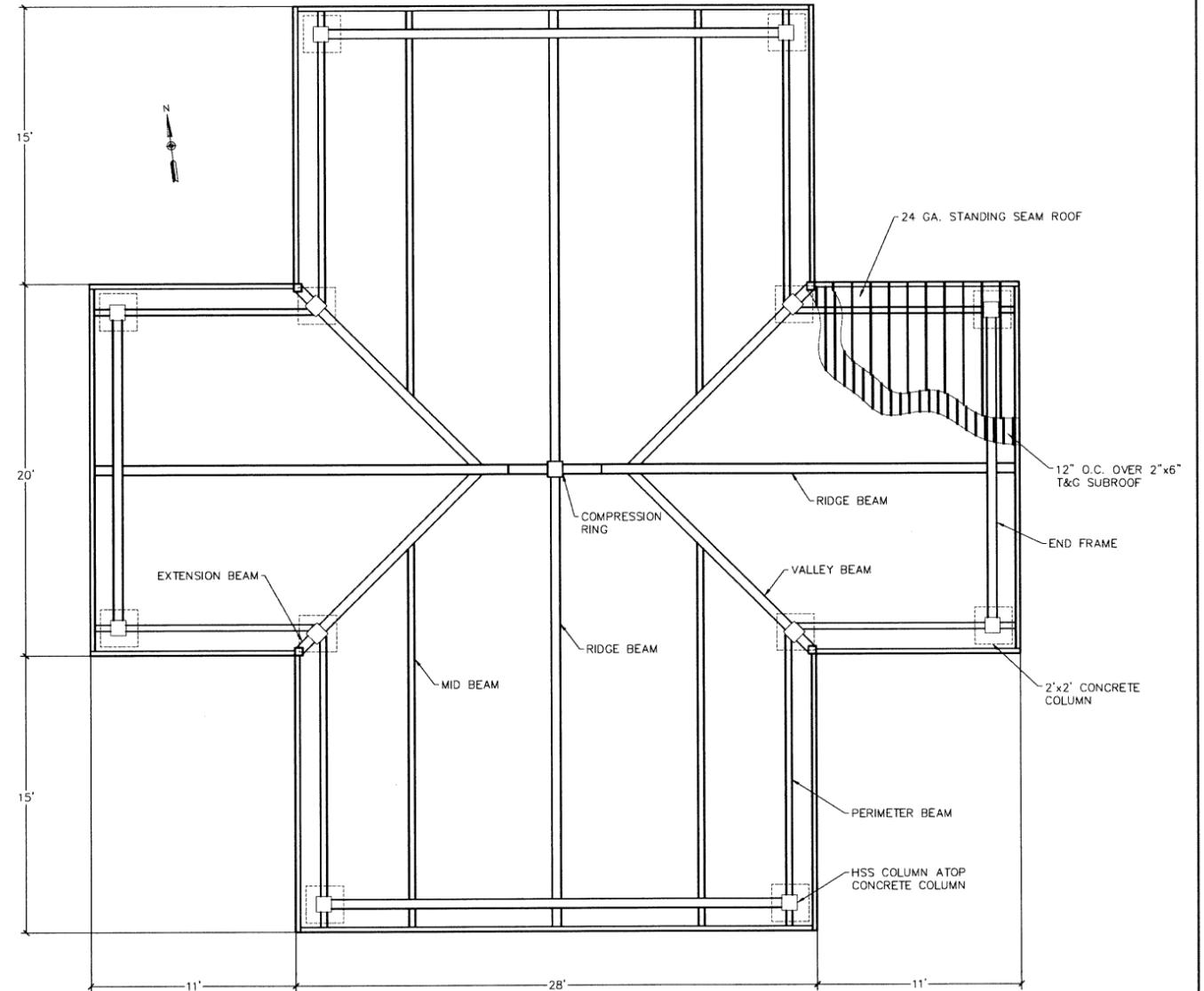


1 NORTH/SOUTH ELEVATION
A-1 1/4" = 1'-0"

BID ALTERNATE 1
CEDAR SHAKE ROOF



2 EAST/WEST ELEVATION
A-1 1/4" = 1'-0"



3 PAVILION PLAN VIEW
A-1 1/4" = 1'-0"

NOTES:

- 1) PAVILION & KIOSK SHALL BE A PRE-ENGINEERED, PRE-FABRICATED STEEL STRUCTURES BY CLASSIC RECREATION SYSTEMS, INC. CAMPION MODEL 50'x50' CROSS PAVILION, 5'x8' ORLANDO KIOSK, OR APPROVED EQUALS.
- 2) FOUNDATION, POWER SUPPLY, LIGHTING, MASONRY VENEER ARE NOT INCLUDED WITH CRS, INC. PRE-ENGINEERED, PRE-FABRICATED PAVILION & KIOSK.
- 3) ALL METAL COLUMNS, BEAMS, STANDING SEAM ROOF, EAVE TRIM, GUTTERS, AND ORNAMENTATION PIECES ARE TO BE PAINTED CRS INC. HEMLOCK GREEN.
- 4) 3 COPIES OF DETAILED, NYS ENGINEER STAMPED AND SIGNED PLANS AND SPECIFICATIONS OF THESE STRUCTURES PREPARED BY CRS INC. ARE TO BE SUBMITTED TO THE ENGINEER AND CITY CODE ENFORCEMENT OFFICE BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION, FOR PERMITS.
- 5) PROVIDE GUTTERS ON ALL PAVILION ROOF EDGES, CRS HEMLOCK GREEN. PROVIDE DOWNSPO AT EACH PAVILION CORNER, CRS HEMLOCK GREEN.
- 6) CRS INC. PHONE: 800-697-2195, 11875 E. BERRY DRIVE, DEWEY, AZ. 86327 . CONTACT: JOHN MARTIN.

| | |
|-----------------------------|------------|
| DESIGNED BY: RJC | REVISIONS: |
| DRAWN BY: RJC | |
| DATE: 12/12/12 | |
| SCALE: AS NOTED | |
| CHECKED BY: TMM | |
| APPROVED BY: KWH | |
| PROJECT NAME: ZOO PAVILION | |
| PROJECT NUMBER: BLD-01-2013 | |
| FILE NAME: ZOO PAVILION.DWG | |

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ENGINEERING DEPARTMENT

MUNICIPAL BUILDING, ROOM 305
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FAX: 315-785-7829

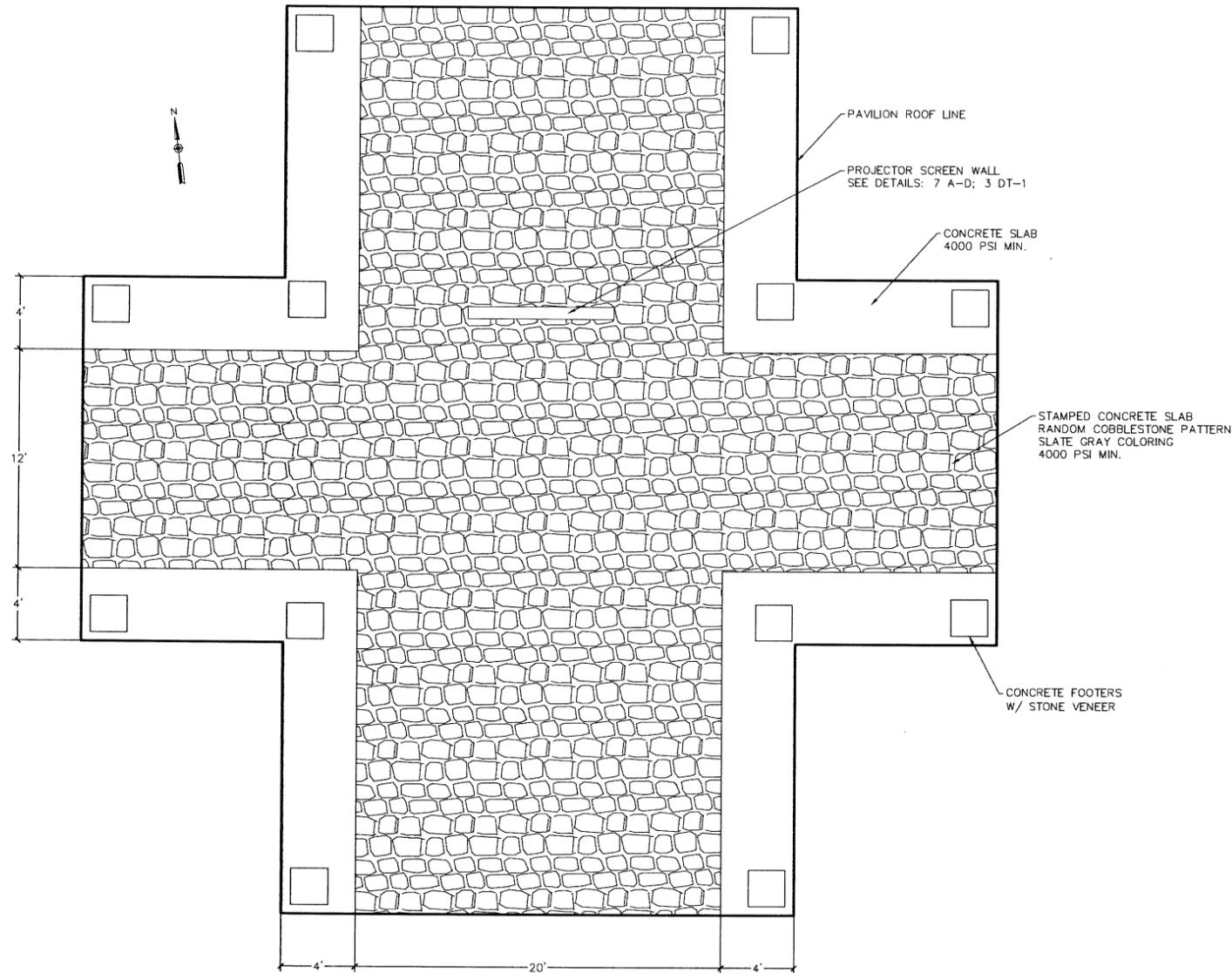
ARCHITECTUAL VIEWS
PAVILION & KIOSK

THOMPSON PARK
ZOO
PAVILION

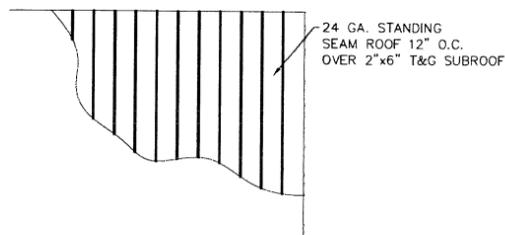
SHEET NO.

A-1

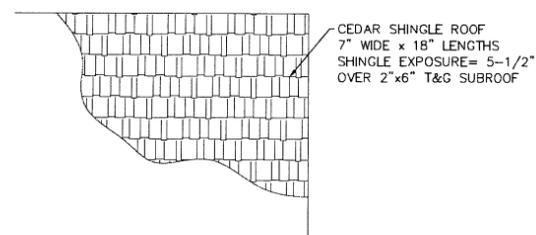
SHEET 6 OF 10



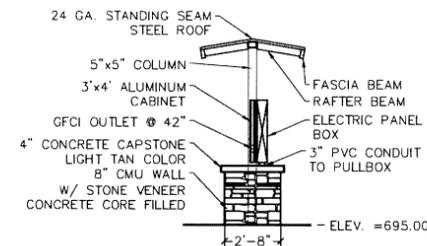
1 PAVILION SLAB PLAN VIEW
A-2 1/4" = 1'-0"



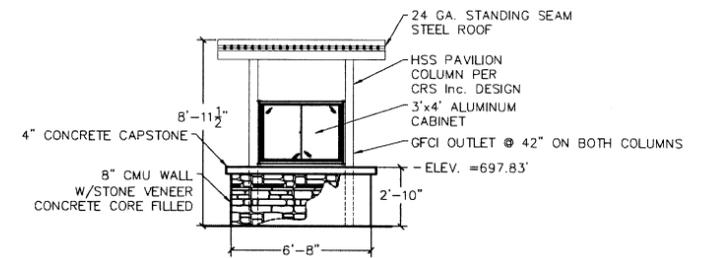
2 STANDING SEAM ROOF DETAIL
A-2 1/4" = 1'-0"



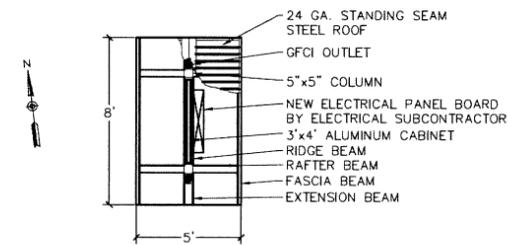
3 CEDAR SHAKE SHINGLE ROOF DETAIL
A-2 1/4" = 1'-0" BID ALTERNATE 1



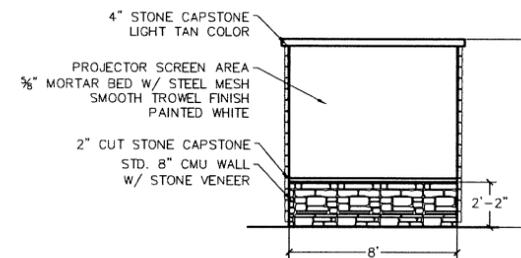
BID ALTERNATE 1
CEDAR SHAKE ROOF
4 SOUTH KIOSK ELEVATION
A-2 1/4" = 1'-0"



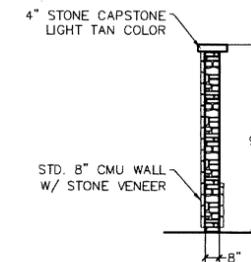
NOTES:
1) ALL CMU CORES TO BE CONCRETE FILLED, f'c = 3500 PSI.
5 WEST KIOSK ELEVATION
A-2 1/4" = 1'-0"



6 KIOSK PLAN
A-2 1/4" = 1'-0"



NOTES:
1) WALL FOUNDATION PER DETAIL 4 DT-1
7 SOUTH PROJECTOR WALL ELEVATION
A-2 1/4" = 1'-0"



NOTES:
1) WALL FOUNDATION PER DETAIL 3 DT-1
8 WEST PROJECTOR WALL ELEVATION
A-2 1/4" = 1'-0"

| | |
|-----------------------------|------------|
| DESIGNED BY: HJC | REVISIONS: |
| DRAWN BY: RJC | |
| DATE: 12/12/12 | |
| SCALE: AS NOTED | |
| CHECKED BY: TXM | |
| APPROVED BY: KWH | |
| PROJECT NAME: ZOO PAVILION | |
| PROJECT NUMBER: BLD-01-2013 | |
| FILE NAME: ZOO PAVILION.DWG | |

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ENGINEERING DEPARTMENT

MUNICIPAL BUILDING, ROOM 305
245 WASHINGTON STREET
WATERTOWN, NEW YORK 13601

PHONE: 315-785-7740
FAX: 315-785-7829

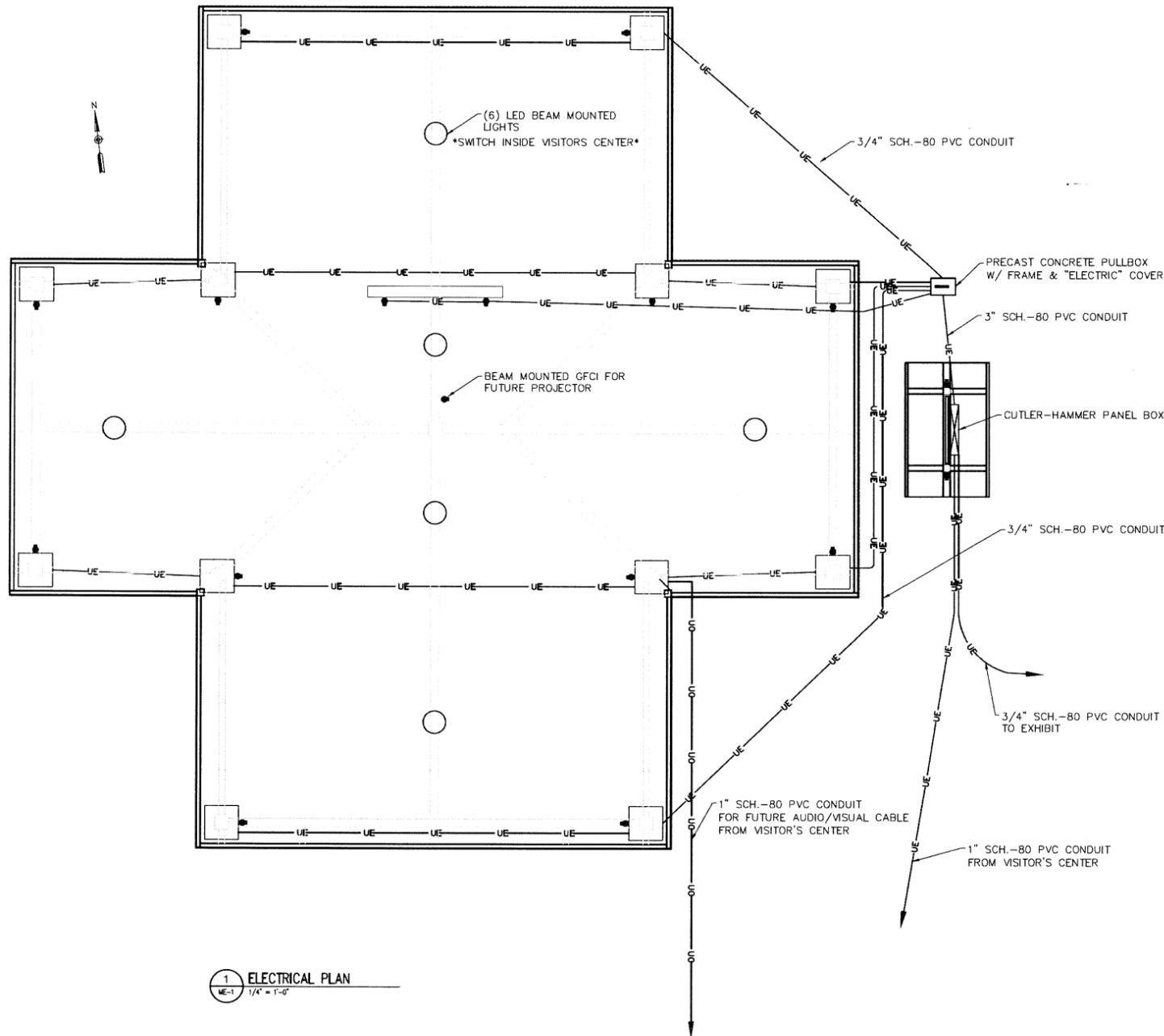
ARCHITECTUAL VIEWS
PAVILION & KIOSK

THOMPSON PARK
ZOO
PAVILION

SHEET NO.

A-2

SHEET 7 OF 10



1 ELECTRICAL PLAN
ME-1 1/4" = 1'-0"

| ELECTRIC FIXTURE SCHEDULE | | |
|---------------------------|-------------------------------|---|
| QTY. | FIXTURE | DESCRIPTION |
| 1 | PANEL BOX | EATON-CUTLER HAMMER COMMERCIAL GRADE PANEL BOX W/ CUTLER/HAMMER BOLT IN BREAKERS. 20 CIRCUIT MINIMUM. MINIMUM 100 AMP (120V/240V) SERVICE |
| 16 | GFCI RECEPTACLE | STANDARD GFCI RECEPTACLE |
| 16 | OUTDOOR GFCI RECEPTACLE COVER | LEVITRON 3056-Y SINGLE GANG FLIP LID TAMPER RESISTANT/WEATHER RESISTANT NOT IN USE GFCI RECEPTACLE COVER |
| 1 | CONCRETE PULLBOXES | PREFABRICATED STANDARD 18"x12" CONCRETE PULLBOX COMPLETE WITH STEEL FRAME AND COVER MARKED WITH "ELECTRIC" |
| 1 | GROUNDING ROD | PER NATIONAL GRID SPECIFICATIONS |
| 6 | CEILING MOUNTED LIGHTS | RAB GLED78 LED CEILING MOUNTED LIGHT |

| ELECTRICAL SYMBOLS | | | | |
|----------------------|----------|---|---------------|------------------------------------|
| SYMBOL | QUANTITY | DESCRIPTION | MODEL | COMMENTS |
| PANEL BOX | 1 | 120/240 SINGLE PHASE W/ BOLT ON BREAKERS 30 CIRCUIT BOX | CUTLER/HAMMER | ----- |
| RECEPTACLE | 16 | DEDICATED 20 AMP 125 VOLT GFCI RECEPTACLE | ----- | TAMPER RESISTANT/WEATHER RESISTANT |
| GROUNDING ROD | 1 | COPPER GROUNDING ROD | ----- | ----- |
| LED CEILING LIGHTS | 6 | CEILING MOUNTED LED GARAGE LIGHT | RAB GLED78 | COLOR: BRONZE |
| ELECTRICAL CONDUIT | 8 LF | 3" SCH.-80 PVC CONDUIT | ----- | ----- |
| ELECTRICAL CONDUIT | 110 LF | 1" SCH.-80 PVC CONDUIT | ----- | ----- |
| ELECTRICAL CONDUIT | 275 LF | 3/4" SCH.-80 PVC CONDUIT | ----- | ----- |
| AUDIO/VISUAL CONDUIT | 105 LF | 1" SCH.-80 PVC CONDUIT | ----- | ----- |

| PANEL BOX SCHEDULE | | | | | | | | | | | |
|-----------------------------------|----------------|-----------|-----------|-----------|----------------------------|--|-----------|-----------|-----------|----------------|---------|
| NOTE: ALL CONDUCTORS TO BE COPPER | | | | | 200 AMP PANEL SINGLE PHASE | | | | | | |
| CKT NO. | DESCRIPTION | TRIP AMPS | WIRE SIZE | VOLT AMPS | | | VOLT AMPS | WIRE SIZE | TRIP AMPS | DESCRIPTION | CKT NO. |
| 1 | | 20 | | | | | | | 20 | | 2 |
| 3 | DEDICATED GFCI | 20 | | | | | | | 20 | DEDICATED GFCI | 4 |
| 5 | DEDICATED GFCI | 20 | | | | | | | 20 | DEDICATED GFCI | 6 |
| 7 | | 20 | | | | | | | 20 | | 8 |
| 9 | | 20 | | | | | | | 20 | | 10 |
| 11 | | 20 | | | | | | | 20 | | 12 |
| 13 | | 20 | | | | | | | 20 | | 14 |
| 15 | | 20 | | | | | | | 20 | | 16 |
| 17 | | 20 | | | | | | | 20 | | 18 |
| 19 | | 20 | | | | | | | 20 | | 20 |

NOTES:

1. ALL CONDUCTORS SHALL BE STRANDED COPPER WIRE.
2. ALL CONDUIT SHALL BE MINIMUM 3/4" SCHEDULE 80 PVC. OTHERWISE WHERE NOTED.
3. MAKE ALL FINAL CONNECTIONS TO EQUIPMENT SHOWN, AS ORDERED BY ENGINEER AND OWNER.
4. SWITCH FOR PAVILION LIGHTS TO BE LOCATED AT DOORWAY FROM ZOO VISITOR'S CENTER INTO ZOO GROUNDS.
4. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL CIRCUITRY.
5. CONTRACTOR TO COORDINATE ELECTRIC INSTALLATIONS WITH CITY ELECTRIC DEPARTMENT

| | |
|-----------------------------|------------|
| DESIGNED BY: RJC | REVISIONS: |
| DRAWN BY: RJC | |
| DATE: 12/12/12 | |
| SCALE: AS NOTED | |
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| PROJECT NAME: ZOO PAVILION | |
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PHONE: 315-785-7740
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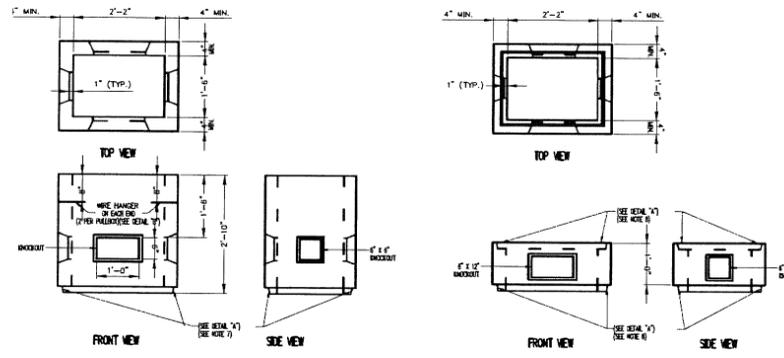
ARCHITECTUAL VIEWS
PAVILION & KIOSK

THOMPSON PARK
ZOO
PAVILION

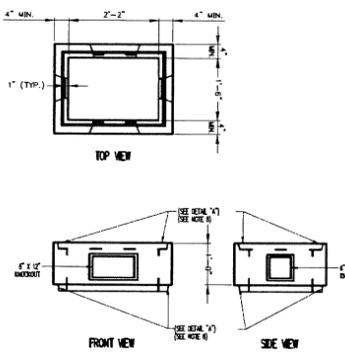
SHEET NO.

ME-1

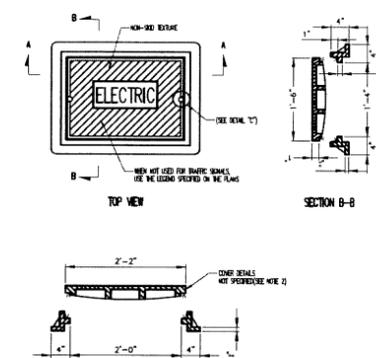
SHEET 8 OF 10



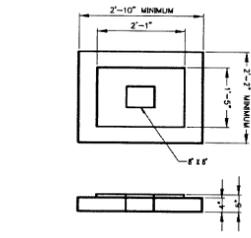
REINFORCED CONCRETE RECTANGULAR PULLBOX
MINIMUM VERTICAL AND HORIZONTAL REINFORCEMENT 12 SQ. IN. / FT. (SEE NOTE 10)
INSIDE VOLUME 0.2 CUBIC FEET WITHOUT EXTENSION



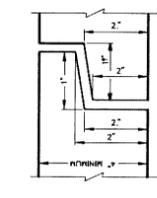
EXTENSION FOR RECTANGULAR PULLBOX
MINIMUM VERTICAL AND HORIZONTAL REINFORCEMENT 12 SQ. IN. / FT. (SEE NOTE 10)
VOLUME EXTENSION 2.9 CUBIC FEET



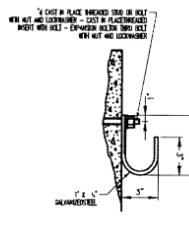
SECTION A-A CAST IRON FRAME AND COVER FOR RECTANGULAR PULLBOX
APPROXIMATE WEIGHT 300 LBS.



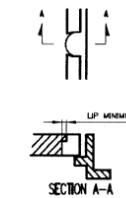
RECTANGULAR PULLBOX BASE
MINIMUM VERTICAL AND HORIZONTAL REINFORCEMENT 12 SQ. IN. / FT. (SEE NOTE 10)



JOINT DETAIL DETAIL 'A'



WIRE HANGER DETAIL 'B'



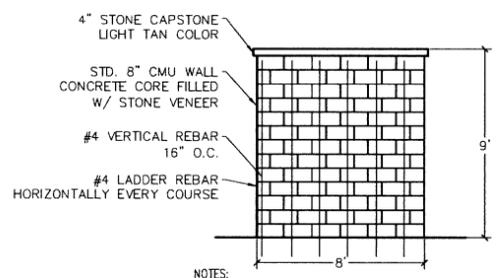
SECTION A-A LIFTING NOTCH DETAIL 'C'
(OR EQUAL AS APPROVED BY THE ENGINEER)

NOTES:

- STANDARD KNOCKOUT LOCATIONS ARE SHOWN FOR EACH PULLBOX. THE CONTRACTOR MAY ALSO ELECT TO FURNISH PULLBOXES WITH ONLY THE NUMBER AND SIZE CONDUIT OPENINGS THAT ARE REQUIRED FOR THAT PARTICULAR INSTALLATION.
- FRAMES AND COVERS SHALL BE HEAVY DUTY TO SUPPORT AN HS-20 WHEEL LOADING.
- PULLBOX COVERS MAY BE DESIGNED WITH OR WITHOUT RIBS.
- A NON-SKID TEXTURE SHALL BE CAST INTO THE TOP SURFACE OF THE COVER.
- PULLBOX BASES ARE REQUIRED ONLY FOR PULLBOXES PLACED IN THE PAVEMENT OR SHOULDER AND AS INDICATED ON THE PLANS. BASES, WHEN REQUIRED, MAY BE CAST INTEGRAL WITH THE PULLBOX.
- A ROUGH FINISH IS ACCEPTABLE FOR PULLBOX KNOCKOUTS.
- THE CONTRACTOR MAY ELECT TO FURNISH PULLBOXES PRECAST TO GREATER DEPTH, IN 1'-0" INCREMENTS INSTEAD OF USING EXTENSIONS.
- WHERE PULLBOXES ARE INTENDED FOR USE WITHOUT EXTENSIONS, THE JOINT SHOWN IN DETAIL 'A' MAY BE OMITTED.
- SEE STANDARD SHEET TITLED "PULLBOX, CONDUIT, AND GROUND ROD INSTALLATION DETAILS".
- STEEL REINFORCEMENT SHALL BE PLACED WITHIN THE CENTER THIRD OF THE WALL, EXCEPT KNOCKOUTS. MINIMUM COVER SHALL BE 1".

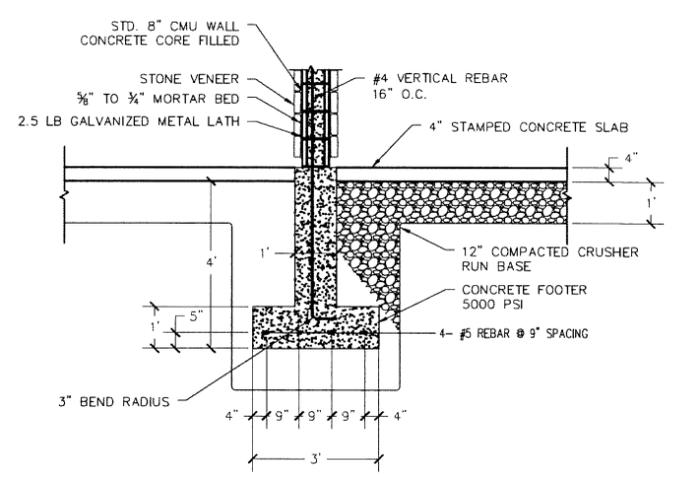
| MASONRY DESIGN STRESS $f_m' = 1500$ psi | | | |
|---|--------------------|----------|---|
| MASONRY UNITS | ASTM C90 GRADE N-1 | 1800 PSI | LIGHT WEIGHT MASS DRY LOOSE BULK DENSITY 85 pcf |
| MORTAR | ASTM C270 TYPE S | 1800 PSI | CLEAN SHARP SAND |
| GROUT | ASTM 476 | 2000 PSI | 6"-4" BLOCK FINE |

2 MASONRY SPECIFICATIONS
DT-1 N.T.S.



- NOTES:**
- ALL CMU CORES TO BE CONCRETE FILLED, $f_c = 3500$ PSI MIN.
 - WALL FOUNDATION PER DETAIL 4 DT-1

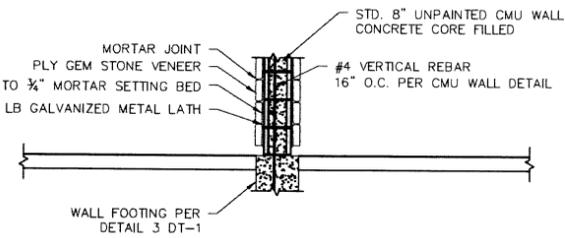
3 PROJECTOR WALL DETAIL
DT-1 1/4" = 1'-0"



- NOTES:**
- ALL REBAR TO MEET N.Y.S. D.O.T. STANDARD SPECIFICATIONS 709-01.
 - TERMINATE STONE VENEER UP OFF GRADE 3'-6".
 - CONTRACTOR TO INSTALL STONE VENEER PER MANUFACTURER'S SPECIFICATIONS.

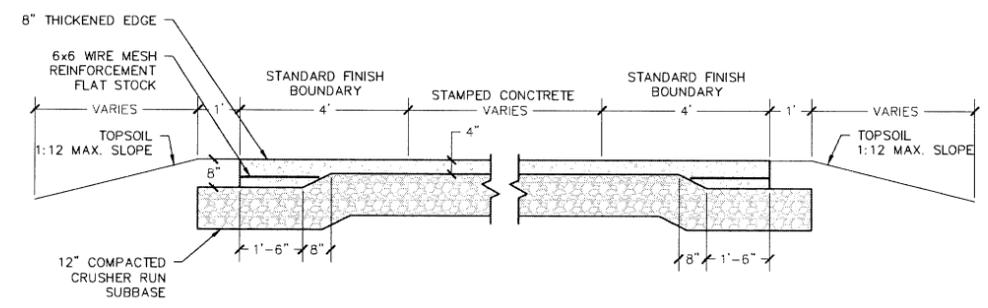
4 CMU WALL FOOTING DETAIL
DT-1 1/2" = 1'-0"

1 PRECAST CONCRETE PULLBOX DETAILS
DT-1 N.T.S.



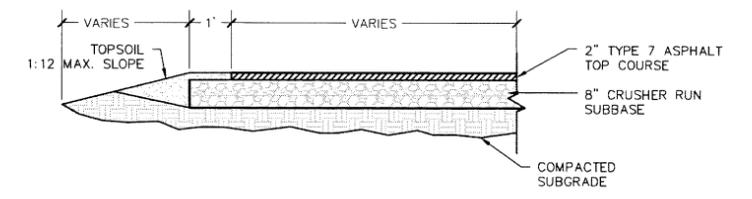
- NOTES:**
- STONE VENEER TO BE: PLY GEM SHADE MOUNTAIN RIDGESTONE.
 - INSTALL STONE VENEER WITH STANDARD MORTAR JOINT.
 - TERMINATE STONE VENEER UP OFF GRADE 3'-6".
 - CONTRACTOR TO INSTALL STONE VENEER PER MANUFACTURER'S SPECIFICATIONS.

5 STONE VENEER DETAIL
DT-1 1/2" = 1'-0"



- NOTES:**
- STAMPED CONCRETE TO BE RANDOM COBBLESTONE PATTERN, GRAY SLATE IN COLOR.
 - 4" BOUNDARY TO BE STANDARD LIGHT BROOM FINISH.

6 CONCRETE SLAB DETAIL
DT-1 1/2" = 1'-0"



7 ASPHALT TRAIL DETAIL
DT-1 1/2" = 1'-0"

| | |
|-----------------------------|------------|
| DESIGNED BY: RJC | REVISIONS: |
| DRAWN BY: RJC | |
| DATE: 12/12/12 | |
| SCALE: AS NOTED | |
| CHECKED BY: TMN | |
| APPROVED BY: KWH | |
| PROJECT NAME: ZOO PAVILION | |
| PROJECT NUMBER: BLD-01-2013 | |
| FILE NAME: Z00PAVILION.DWG | |

WARNING: It is a violation of Section 7209, Subdivision 2, of the New York State Education Law for any person other than a Licensed Professional Engineer to alter this map.

**CITY OF WATERTOWN
ENGINEERING DEPARTMENT**

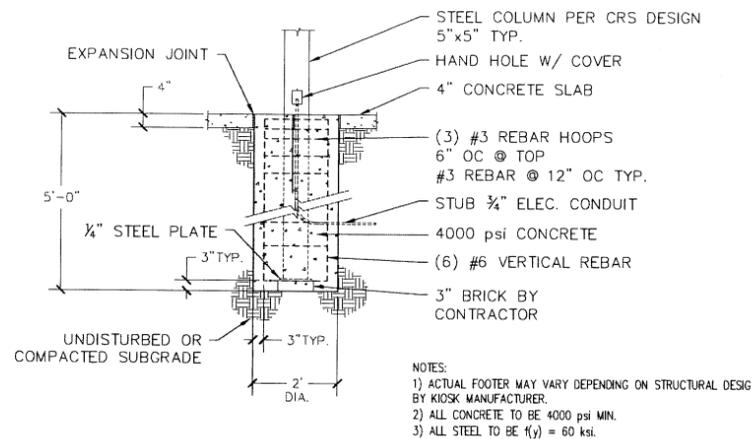
MUNICIPAL BUILDING, ROOM 305
245 WASHINGTON STREET
WATERTOWN, NEW YORK 13601

PHONE: 315-785-7740
FAX: 315-785-7829

DETAILS

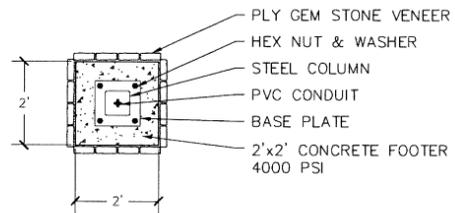
**THOMPSON PARK
ZOO
PAVILION**

SHEET NO.
DT-1
SHEET 9 OF 10

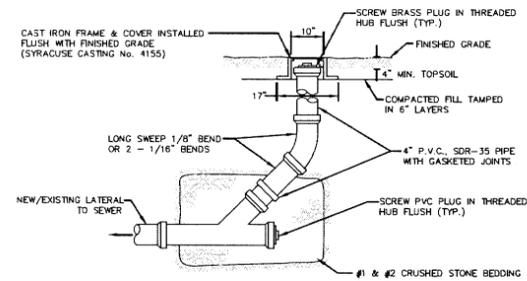


NOTES:
 1) ACTUAL FOOTING MAY VARY DEPENDING ON STRUCTURAL DESIGN BY KIOSK MANUFACTURER.
 2) ALL CONCRETE TO BE 4000 PSI MIN.
 3) ALL STEEL TO BE f(y) = 60 ksi.

1 KIOSK FOOTING DETAIL- DIRECT BURY
 DT-2 1/2" = 1'-0"

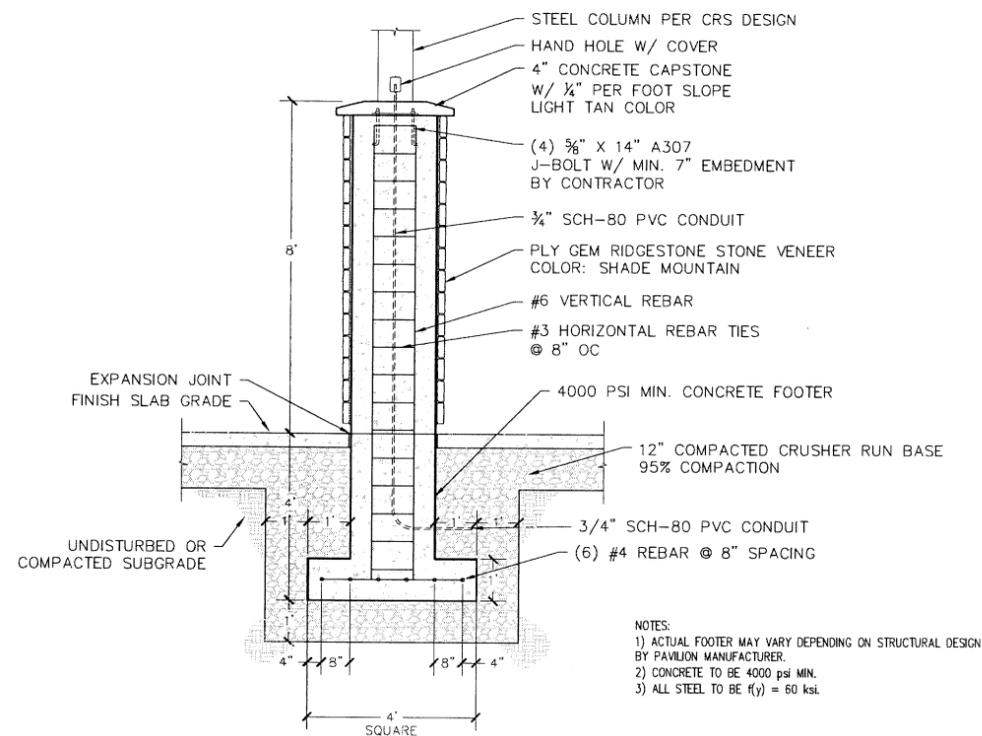


3 PAVILION COLUMN PLAN VIEW
 DT-2 1/2" = 1'-0"



NOTE:
 1. LATERAL PIPE SHALL BE PVC SR-35, MATCH DIAMETER OF EXISTING SEWER LATERAL (4\"/>

4 PVC CLEANOUT DETAIL
 DT-2 N.T.S.



NOTES:
 1) ACTUAL FOOTER MAY VARY DEPENDING ON STRUCTURAL DESIGN BY PAVILION MANUFACTURER.
 2) CONCRETE TO BE 4000 PSI MIN.
 3) ALL STEEL TO BE f(y) = 60 ksi.

2 PAVILION FOOTER DETAIL
 DT-2 1/2" = 1'-0"

| | |
|-----------------------------|------------|
| DESIGNED BY: RUC | REVISIONS: |
| DRAWN BY: RUC | |
| DATE: 12/12/12 | |
| SCALE: AS NOTED | |
| CHECKED BY: TKM | |
| APPROVED BY: KWH | |
| PROJECT NAME: ZOO PAVILION | |
| PROJECT NUMBER: BLD-01-2013 | |
| FILE NAME: ZOO PAVILION.DWG | |

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CITY OF WATERTOWN
ENGINEERING DEPARTMENT

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 245 WASHINGTON STREET FAX: 315-785-7829
 WATERTOWN, NEW YORK 13601

DETAILS

THOMPSON PARK
 ZOO
 PAVILION

SHEET NO.

DT-2

SHEET 10 OF 10