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Architects/Planners

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July 7, 2017

PROJECT: City of Sterling Heights – Dodge Park Improvements

Sterling Heights, MI

DMA PROJECT NO: 16078A

ADDENDUM NO: 3

ADDENDUM CONTENTS: Three (3) written pages.

Four (4) Architectural Sheets (T002, TB-A1, RRB-A2, FM-A1.2)

Five (5) Irrigation Plans and Details Sheets

One (1) Mechanical Sheet (M5.1) Two (2) Electrical Sheets (E0.1, E4.1) Specification Table of Contents (5 Pages)

000115 List of Drawings Specification Section (4 Pages)

262416 – Panelboards (4 Pages)

ISSUE DATE: July 7, 2017

The following clarifications, revisions and/or additions to the Plans and Specifications are issued before the award of the construction contract and are to be included with the original Drawings and Specifications. This addendum shall take precedence over the original issued Drawings and Specifications and shall be referred to hereinafter as part of the Contract Documents.

The bidder shall acknowledge the receipt of this Addendum by signing this Addendum and enclosing it in the submission of their bids, and completing the Addenda section of the 004113 Bid Proposal Form. Failure to acknowledge Addendum No. 1 on page 2 of 11 of the 004113 Bid Proposal Form in the submission of bids may be justification for the bid proposal being rejected as non-responsive.

ADDENDUM #3 City of Sterling Heights Dodge Park Improvements DMA #16078A 07/07/17 Page 1

RESPONSE:

The	Con	tracto	ors/B	idders	shall	verify	receip	ot and	inclus	sion c	of this	Adder	ndum	on tł	neir B	id P	ropos	al Fo	rms.
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DRAWING/SPECIFICATION REVISIONS, CLARIFICATIONS OR ADDITIONS:

Architectural Drawing Revisions:

- 1. Revised sheet T002 Sheet Index to indicate added irrigation sheets IRR-1 through IRR-5.
- 2. Revised sheet T002 Sheet Index to indicate drawings revised as part of Addendum #3.
- 3. Revised sheet TB-A1, Ticket Booth Plans, to indicate the hardware set number for the entry door.
- 4. Revised sheet RRB-A2, Renovated Restroom Building Schedules, to add the hardware set numbers to the Door Schedule.
- 5. Revised sheet FM-A1.2, Farmers Market Floor Plan, to clarify Seasonal Ice Rink design criteria and responsibility.

Landscape Drawing Revisions:

- 1. Revised sheet LS-1 to add "Treegator" slow release watering bags and seeding of bare spots in turf throughout site.
- 2. Revised sheet LS-2 to add "Treegator" slow release watering bags and seeding of bare spots in turf throughout site.
- 3. Revised sheet LS-3 to add "Treegator" slow release watering bags and seeding of bare spots in turf throughout site.
- 4. Revised sheet LS-3 to eliminate trees in the area to the east of the splash park to prevent conflict with the splash pad equipment.
- 5. Revised sheet LS-4 to adjust the tree quantities due to the elimination of trees in the area to the east of the splash park.
- 6. Re-issue of sheet LS-5 due to a printing error that did not allow all of the material patterning to show. There have not been any revisions to this sheet.
- 7. Irrigation Plans and Details, Sheets IRR-1 through IRR-2 have been added to the set and included on the sheet index (T002).

Mechanical Electrical Plan Revisions:

- 1. Revised sheet M5.1 for the following: clarified pipe sizes on plan as shown, added CW connection for irrigation system, replaced Mechanical General Notes with Plumbing General Notes, and revised Keyed Notes.
- 2. Revised sheet E0.1 for the following: Added circuit numbers for the site work and clarified scope of alternate work.
- 3. Revised sheet E4.1 for the following: Added location of electrical panel.

General Drawing Clarifications:

- 1. All items are considered to be part of the contract unless noted as "N.I.C." Not In Contract or as "By Owner".
- 2. Some items that are to be installed by others will require coordination of work. These items are listed in the Project Manual Section 011000 Summary, 1.3 "Work Under Other Contracts."

Specification Revisions:

- 1. Modified the 000115 List of Drawings section to include Irrigation Plans and Details Sheets. These items have been **bolded** on the Index of Drawings.
- 2. Modified Project Manual Table of Contents to add Section 262416 and delete 262200. The added item has been **bolded** in the Table of Contents.
- 3. Specification Section 262200 Low-Voltage Transformers is to be deleted.
- 4. Specification Section 262416 Panelboards has been added.

RECEIVED AND ACKNOWLEDGED BY:

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ignature:	
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TABLE OF CONTENTS (Section revised July 7, 2017 as part of Addendum #3)

DIVISION 00 – PROCUREMENT AND CONTRACTING DOCUMENTS

000115	LIST OF DRAWINGS
001113	ADVERTISEMENT FOR BIDS
001153	REQUEST FOR QUALIFICATIONS
	REFERENCES
002113	INSTRUCTIONS TO BIDDERS
003119	EXISTING CONDITIONS INFORMATION
003132	GEOTECHNICAL DATA
004113	BID FORM
004313	BID SECURITY FORMS
	INSURANCE REQUIREMENTS
	BOND REQUIREMENTS
004393	BID SUBMITTAL CHECKLIST
006000	CONTACT
	CONTRACTOR'S AFFIDAVIT
	CONTRACTOR'S DECLARATION
	NON-COLLUSION AFFIDAVIT
	HOLD HARMLESS AND INDEMINITY
	NON-IRAN LINKED BUSINESS CERTIFICATION
007000	GENERAL CONDITIONS

DIVISION 01 - GENERAL REQUIREMENTS

011000	SUMMARY
012500	SUBSTITUTION PROCEDURES
012600	CONTRACT MODIFICATION PROCEDURES
013100	PROJECT MANAGEMENT AND COORDINATION
013200	CONSTRUCTION PROGRESS DOCUMENTATION
013233	PHOTOGRAPHIC DOCUMENTATION
013300	SUBMITTAL PROCEDURES
014000	QUALITY REQUIREMENTS
014200	REFERENCES
015000	TEMPORARY FACILITIES AND CONTROLS
015639	TEMPORARY TREE AND PLANT PROTECTION
016000	PRODUCT REQUIREMENTS
017300	EXECUTION REQUIREMENTS
017419	CONSTRUCTION WASTE MANAGEMENT
017700	CLOSEOUT PROCEDURES

DIVISION 02 – EXISTING CONDITIONS

024116 STRUCTURE DEMOLITION

DIVISION 03 – CONCRETE

033000 CAST-IN-PLACE CONCRETE

DIVISION 04 – MASONRY

042000	UNIT MASON	RY

047300 MANUFACTURED STONE VENEER

DIVISION 05 – METALS

051200	STRUCTURAL STEEL FRAMING
052100	STEEL JOIST FRAMING
053100	STEEL DECKING
054000	COLD FORMED STEEL FRAMING
055000	METAL FABRICATIONS
055150	LADDERS
055213	PIPE AND TUBE RAILINGS

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

061000	ROUGH CARPENTRY
061600	SHEATHING
061753	SHOP FABRICATED TRUSSES
064116	PLASTIC LAMINATE FACED CABINETS
060500	SOLID POLYMER FARRICATION

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

072100	BUILDING INSULATION
074600	SIDING
075323	MEMBRANE ROOFING
076100	SHEET METAL ROOFING
076200	SHEET METAL FLASHINGS AND TRIM
077100	ROOF SPECIALTIES
077233	ROOF HATCHES
079220	JOINT SEALANTS

DIVISION 08 – OPENINGS

081100	STEEL DOORS AND FRAMES
083313	COILING COUNTER DOORS
083230	OVERHEAD COILING DOORS
084113	ALUMINUM STOREFRONTS
084327	TRANSLUCENT EXTERIOR CHANNEL GLASS
085113	ALUMINUM WINDOWS
085200	WOOD WINDOWS

088000 GLAZING

DIVISION 09 - FINISHES

092900	GYPSUM BOARD
093000	TILE
095113	ACOUSTIC CEILING PANEL
096500	RESILIENT FLOORING
096900	CARPET TILE
099000	PAINTING

DIVISION 10 – SPECIALTIES

102113	SOLID PLASTIC TOILET PARTITIONS
102600	WALL AND DOOR PROTECTION
102800	TOILET ROOM ACCESSORIES
104413	FIRE EXTINGUISHER CABINETS
105020	CANOPIES

DIVISION 11 – EQUIPMENT

111319 LOADING DOCK EQUIPMENT

DIVISION 12 – FURNISHINGS

129302 BOLLARDS

DIVISION 13 – SPECIAL FACILITY COMPONENTS

131800	DASHER BOARD SYSTEMS
133419	METAL BUILDING SYSTEMS

DIVISION 22 – PLUMBING

200001	MECHANICAL DEMOLITION
200010	BASIC MECHANICAL REQUIREMENTS
200020	ELECTRICAL REQUIREMENTS FOR MECHANICAL WORK
220553	IDENTIFICATION FOR PLUMING PIPING AND EQUIPMENT
220719	PLUMBING PIPING INSULATION
221005	PLUMBING PIPING
221006	PLUMBING PIPING SPECIALTIES
221113	FACILITY WATER DISTRIBUTION PIPING
221313	FACILITY SANITARY SEWERS
223000	PLUMBING EQUIPMENT
224000	PLUMBING FIXTURES

DIVISION 23-	HEATING, VENTILATING, AND AIR CONDITIONING
230553	IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT
230593	TESTING, ADJUSTING, AND BALANCING FOR HVAC
230713	DUCT INSULATION
230719	HVAC PIPING INSULATION
231000	HVAC DUCTS AND CASINGS
233300	AIR DUCT ACCESSORIES
233423	POWER VENTILATORS
233700	AIR OUTLETS AND INLETS
236313	AIR COOLED REFRIGERANT CONDENSERS
238127	SMALL SPLIT SYSTEM HEATING AND COOLING

DIVISION 26 – ELECTRICAL

260500	BASIC ELECTRICAL REQUIREMENTS
260526	GROUNDING AND BONDING FOR ELECTICAL SYSTEMS
260529	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
260534	CONDUIT
260537	BOXES
260553	INDENTIFICATION FOR ELECTRICAL SYSTEMS
260923	LIGHING CONTROL DEVICES
262416	PANELBOARDS
262726	WIRING DEVICES
265100	INTERIOR LIGHTING
265561	THEATRICAL LIGHTING
265600	EXTERIOR LIGHTING

DIVISION 31 – EARTHWORK

311000	SITE CLEARING
311413	TOP SOIL STRIPPING AND STOCKPILING
312000	EARTH MOVING
312500	EROSION AND SEDIMENTATION CONTROL

DIVISION 32 – EXTERIOR IMPROVEMENTS

321000	CONCRETE SIDEWALKS
321123	AGGREGATE BASE COURSES
321213	TACK COAT
321216	ASPHALT PAVING & PULVERIZATION
321313	CONCRETE PAVING
321613.13	CONCRETE CURBS AND GUTTERS
321723	PAVEMENT MARKINGS
323119	DECORATIVE METAL FENCES AND GATES
325200	SYNTHETIC TURF
329200	TURFS AND GRASSES

DIVISION 33 – SITE UTILITIES

330500	MANHOLES AND STRUCTURES
334000	STORM DRAINAGE UTILITIES

LIST OF DRAWINGS (Section revised June 29, 2017 as part of Addendum #1 and July 7, 2017 as part of Addendum #3)

T001 T002 A001 A002 M0.0 M7.1 M7.2 E0.0 E7.1	Cover Sheet Sheet Index/Project Data Barrier Free Standards General Structural Notes Mechanical General Information Mechanical Details Mechanical Details Electrical General Information Electrical Details
SP01 SP02 SP03 SP04 SP05 SP06 SP07 SP08 SP09 SP10 SP11 SP12 SP13 SP14 SP15	Site Plan Keyed Site Notes/Site Amenities Partial Enlarged Site Plan Partial Enlarged Site Plan Partial Enlarged Site Plan - Sand Volleyball Courts, Basketball Court, and Pavilion #4 Partial Enlarged Site Plan - Mini Soccer Field and Pavilion #3 Partial Enlarged Site Plan - Pavilion #2 and Renovated Restroom Building Partial Enlarged Site Plan - Splash Pad/Park and Pavilion #1 Partial Enlarged Site Plan - Farmers Market Partial Enlarged Site Plan - Fire Pit Area and Pavilion #5 Partial Enlarged Site Plan - Amphitheater Site Details Site Details - Mini Soccer Field Details Site Details - Sand Volleyball Court Details Site Details - Splash Park Details
	Civil
C-0	Cover Sheet
C-1	Boundary / Topographic / Tree Survey
C-2	Boundary / Topographic / Tree Survey
C-3	Existing Structure Table
C-4	Demolition Plan
C-5	Demolition Plan
C-6	Dimensional Site Plan
C-7	Dimensional Site Plan
C-8	Paving & Grading Plan
C-9	Paving & Grading Plan
C-10	MDOT M0730a Detail
C-11	Utility Plan
C-12	Utility Plan
C-13	Storm and Sanitary Sewer Profiles
C-14	Soil Erosion / Sedimentation Control Plan
C-15	Soil Erosion / Sedimentation Control Plan
1 of 1	City of Sterling Heights Standard Details Soil Erosion Plan
1 of 7	City of Sterling Heights Standard Details Notes
2 of 7	City of Sterling Heights Standard Details Sanitary

4 of 7 5 of 7 6 of 7 7 of 7	City of Sterling Heights Standard Details Storm City of Sterling Heights Standard Details Storm City of Sterling Heights Standard Details Watermain City of Sterling Heights Standard Details Watermain
MD0.1 MD0.2 M0.1 M0.2	Mechanical - Site Mechanical Site Demolition Plan Mechanical Site Demolition Plan Mechanical Site Plan - New Work Plan Mechanical Site Plan - New Work Plan
ED0.1 ED0.2 E0.1 E0.2	Electrical - Site Electrical Site Demolition Plan Electrical Site Demolition Plan Electrical Site New Work Plan Electrical Site New Work Plan
LS-1 LS-2 LS-3 LS-4 LS-5 IRR-1 IRR-2 IRR-3 IRR-4 IRR-5	Landscape Overall Landscape Planting View Landscape Planting Detail Landscape Planting Detail Plant Material List, Planting Details, and Landscape Notes Landscape Planting Detail - Paving Pattern Overall Irrigation Plan View Irrigation Plan Detail Irrigation Plan Detail Irrigation Details Irrigation Details
PAV145-A1	Pavilion #1, 4 & 5 Floor Plan, Foundation Plan and Details
PAV2-A1 E1.1	Pavilion #2 Floor Plan, Foundation Plan and Details Electrical New Work Plan
PAV3-A1 PAV3-A2 PAV3-A3 PAV3-A4 M1.2 E1.2	Pavilion #3 Floor Plan, Foundation Plan and Ceiling Plan Building Elevations Wall Sections Interior Elevations Mechanical New Work Plans Electrical New Work Plan
AMP-A1.1 AMP-A1.2 AMP-A1.3	Amphitheater Foundation Plan Floor Plan Reflected Ceiling Plan

AMP-A1.4	Roof Plan
AMP-A1.5	Roof Framing Plan
AMP-A1.6	Roof Framing Plan
AMP-A3.1	Building Elevations
AMP-A3.2	Building Elevations
AMP-A4.1	Building Sections
AMP-A5.1	Wall Sections
AMP-A5.2	Wall Sections
AMP-A5.3	Wall Sections
AMP-A6.1	Stair and Ramp Details
AMP-A6.2	Ramp Details
AMP-A7.0	Floor Finish Plan
AMP-A7.1	Room Schedule and Door Schedule
M2.1	Plumbing New Work Plan
M2.2	Sheet Metal New Work Plan
E2.1	Electrical New Work Plan
EN A 1 O	Farmer's Market
FM-A1.0	Foundation Detail & General Structural Notes
FM-A1.1	Foundation Plan
FM-A1.2	Floor Plan
FM-A1.3	Reflected Ceiling Plan
FM-A1.4	Roof Plan
FM-A2.1	Enlarged Floor Plan
FM-A3.1	Building Elevations
FM-A3.2	Building Elevations
FM-A4.1	Building Sections
FM-A5.1	Wall Sections
FM-A7.1	Door Schedule
FM-A8.1	Interior Elevations
M3.1	Plumbing New Work Plan
M3.2	Sheet Metal New Work Plan
E3.1	Electrical New Work Plan
23.1	Electrical New Work Hall
	Ticket Booth
TB-A1	Floor Plan, Foundation Plan, Reflected Ceiling Plan, Roof Plan and Structural Notes
TB-A2	Building Elevations and Sections
TB-A3	Wall Sections and Details
M4.1	Mechanical New Work Plan (Splash Park)
M4.2	Mechanical New Work Plan
E4.1	Electrical New Work Plans (Splash Park)
	Panayatad Pastraam Duilding
DDD D1	Renovated Restroom Building Demolition Floor Plan and Demolition Reflected Cailing Plan
RRB-D1	Demolition Floor Plan and Demolition Reflected Ceiling Plan
RRB-D2	Demolition Building Elevations
RRB-A1	Floor Plan and Reflected Ceiling Plan
RRB-A2	Door and Finish Schedule
RRB-A3	Building Elevations

RRB-A4	Building Sections
RRB-A5	Wall Sections
RRB-A6	Interior Elevations
RRB-A7	Interior Elevations
MD5.1	Mechanical - Demolition Plan
M5.1	Plumbing New Work Plan
M5.2	Sheet Metal New Work Plan
ED5.1	Electrical Demolition Plan
E5.1	Electrical New Work Plan

SECTION 26 2416 PANELBOARDS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Power distribution panelboards.
- B. Lighting and appliance panelboards.
- C. Overcurrent protective devices for panelboards.

1.02 RELATED REQUIREMENTS

- A. Section 26 0526 Grounding and Bonding for Electrical Systems.
- B. Section 26 0529 Hangers and Supports for Electrical Systems.
- C. Section 26 0553 Identification for Electrical Systems: Identification products and requirements.

1.03 REFERENCE STANDARDS

- A. FS W-C-375 Circuit Breakers, Molded Case; Branch Circuit and Service; Federal Specification; Revision E, 2013.
- B. NECA 1 Standard for Good Workmanship in Electrical Construction; 2010.
- C. NECA 407 Standard for Installing and Maintaining Panelboards; 2009.
- D. NEMA 250 Enclosures for Electrical Equipment (1000 Volts Maximum); 2014.
- E. NEMA KS 1 Heavy Duty Enclosed and Dead-Front Switches (600 Volts Maximum); 2013.
- F. NEMA PB 1 Panelboards; 2011.
- G. NEMA PB 1.1 General Instructions for Proper Installation, Operation and Maintenance of Panelboards Rated 600 Volts or Less; 2013.
- H. NETA ATS Acceptance Testing Specifications for Electrical Power Equipment and Systems; 2013.
- I. NFPA 70 National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- J. UL 50 Enclosures for Electrical Equipment, Non-Environmental Considerations; Current Edition, Including All Revisions.
- K. UL 50E Enclosures for Electrical Equipment, Environmental Considerations; Current Edition, Including All Revisions.
- L. UL 67 Panelboards; Current Edition, Including All Revisions.
- M. UL 489 Molded-Case Circuit Breakers, Molded-Case Switches and Circuit Breaker Enclosures; Current Edition, Including All Revisions.

1.04 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate outline and support point dimensions, voltage, main bus ampacity, overcurrent protective device arrangement and sizes, short circuit current ratings, conduit entry locations, conductor terminal information, and installed features and accessories.
- C. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product.
- D. Project Record Documents: Record actual installed locations of panelboards and actual installed circuiting arrangements.
- E. Maintenance Data: Include information on replacement parts and recommended maintenance procedures and intervals.

- F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01 6000 Product Requirements, for additional provisions.
 - Panelboard Keys: Two of each different key.

1.05 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Eaton Corporation: www.eaton.com.
- B. General Electric Company: www.geindustrial.com.
- C. Schneider Electric; Square D Products: www.schneider-electric.us.
- D. Siemens Energy & Automation, Inc..

2.02 PANELBOARDS - GENERAL REQUIREMENTS

- A. Provide products listed, classified, and labeled as suitable for the purpose intended.
- B. Unless otherwise indicated, provide products suitable for continuous operation under the following service conditions:
 - 1. Altitude: Less than 6,600 feet.
 - 2. Ambient Temperature:
 - a. Panelboards Containing Circuit Breakers: Between 23 degrees F and 104 degrees F.
- C. Short Circuit Current Rating:
- D. Mains: Configure for top or bottom incoming feed as indicated or as required for the installation.
- E. Branch Overcurrent Protective Devices: Replaceable without disturbing adjacent devices.
- F. Bussing: Sized in accordance with UL 67 temperature rise requirements.
 - 1. Provide solidly bonded equipment ground bus in each panelboard, with a suitable lug for each feeder and branch circuit equipment grounding conductor.
- G. Conductor Terminations: Suitable for use with the conductors to be installed.
- H. Enclosures: Comply with NEMA 250, and list and label as complying with UL 50 and UL 50E.
 - 1. Environment Type per NEMA 250: Unless otherwise indicated, as specified for the following installation locations:
 - 2. Boxes: Galvanized steel unless otherwise indicated.
 - a. Provide wiring gutters sized to accommodate the conductors to be installed.
 - Fronts:
 - a. Fronts for Surface-Mounted Enclosures: Same dimensions as boxes.
 - b. Fronts for Flush-Mounted Enclosures: Overlap boxes on all sides to conceal rough opening.
 - 4. Lockable Doors: All locks keyed alike unless otherwise indicated.
- I. Future Provisions: Prepare all unused spaces for future installation of devices including bussing, connectors, mounting hardware and all other required provisions.

2.03 POWER DISTRIBUTION PANELBOARDS

- A. Description: Panelboards complying with NEMA PB 1, power and feeder distribution type, circuit breaker type, and listed and labeled as complying with UL 67; ratings, configurations and features as indicated on the drawings.
- B. Conductor Terminations:
 - Main and Neutral Lug Material: Aluminum, suitable for terminating aluminum or copper conductors.
 - 2. Main and Neutral Lug Type: Mechanical.

- C. Bussing:
 - 1. Phase and Neutral Bus Material: Aluminum.
 - Ground Bus Material: Aluminum.
- D. Circuit Breakers:
 - 1. Provide bolt-on type or plug-in type secured with locking mechanical restraints.
- E. Enclosures:
 - 1. Provide surface-mounted enclosures unless otherwise indicated.

2.04 LIGHTING AND APPLIANCE PANELBOARDS

- A. Description: Panelboards complying with NEMA PB 1, lighting and appliance branch circuit type, circuit breaker type, and listed and labeled as complying with UL 67; ratings, configurations and features as indicated on the drawings.
- B. Conductor Terminations:
 - Main and Neutral Lug Material: Aluminum, suitable for terminating aluminum or copper conductors.
 - 2. Main and Neutral Lug Type: Mechanical.
- C. Bussing:
 - Phase Bus Connections: Arranged for sequential phasing of overcurrent protective devices.
 - 2. Phase and Neutral Bus Material: Aluminum.
 - 3. Ground Bus Material: Aluminum.
- D. Circuit Breakers: Thermal magnetic bolt-on type unless otherwise indicated.
- E. Enclosures:
 - 1. Provide surface-mounted or flush-mounted enclosures as indicated.
 - 2. Provide clear plastic circuit directory holder mounted on inside of door.

2.05 OVERCURRENT PROTECTIVE DEVICES

- A. Molded Case Circuit Breakers:
 - 1. Description: Quick-make, quick-break, over center toggle, trip-free, trip-indicating circuit breakers listed and labeled as complying with UL 489, and complying with FS W-C-375 where applicable; ratings, configurations, and features as indicated on the drawings.
 - 2. Interrupting Capacity:
 - a. Provide circuit breakers with interrupting capacity as required to provide the short circuit current rating indicated, but not less than:
 - b. Fully Rated Systems: Provide circuit breakers with interrupting capacity not less than the short circuit current rating indicated.
 - 3. Conductor Terminations:
 - a. Lug Material: Aluminum, suitable for terminating aluminum or copper conductors.
 - 4. Thermal Magnetic Circuit Breakers: For each pole, furnish thermal inverse time tripping element for overload protection and magnetic instantaneous tripping element for short circuit protection.
 - 5. Multi-Pole Circuit Breakers: Furnish with common trip for all poles.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Install panelboards securely, in a neat and workmanlike manner in accordance with NECA 1 (general workmanship), NECA 407 (panelboards), and NEMA PB 1.1.
- Arrange equipment to provide minimum clearances in accordance with manufacturer's instructions and NFPA 70.
- D. Provide required supports in accordance with Section 26 0529.
- E. Install panelboards plumb.

- F. Install flush-mounted panelboards so that trims fit completely flush to wall with no gaps and rough opening completely covered.
- G. Mount panelboards such that the highest position of any operating handle for circuit breakers or switches does not exceed 79 inches above the floor or working platform.
- H. Provide minimum of six spare 1 inch trade size conduits out of each flush-mounted panelboard stubbed into accessible space above ceiling and below floor.
- I. Provide grounding and bonding in accordance with Section 26 0526.
- J. Install all field-installed branch devices, components, and accessories.
- K. Provide filler plates to cover unused spaces in panelboards.

3.02 FIELD QUALITY CONTROL

- A. See Section 01 4000 Quality Requirements, for additional requirements.
- B. Perform inspection, testing, and adjusting in accordance with Section 01 4000.
- C. Inspect and test in accordance with NETA ATS, except Section 4.
- D. Molded Case Circuit Breakers: Perform inspections and tests listed in NETA ATS, Section 7.6.1.1. Tests listed as optional are not required.
- E. Correct deficiencies and replace damaged or defective panelboards or associated components.

3.03 CLEANING

A. Clean dirt and debris from panelboard enclosures and components according to manufacturer's instructions.

END OF SECTION

Project Data GOVERNING CODES: _ 2015 MICHIGAN BUILDING CODE 2015 MICHIGAN MECHANICAL CODE 2015 MICHIGAN PLUMBING CODE 2015 INTERNATIONAL FUEL GAS CODE MICHIGAN ELECTRICAL CODE BASED ON 2008 N.E.C. WITH PART 8 STATE AMENDMENTS 2009 ICC/ANSI AIIT.I FOR ACCESSIBILITY & MICHIGAN BARRIER FREE DESIGN LAW OF PUBLIC ACT 1 OF 1966 AS AMENDED. 2015 INTERNATIONAL FIRE CODE AMPHITHEATHER USE GROUP: ____ - MIXED USE - ASSEMBLY A-1 STORAGE S-2 BUILDING CONSTRUCTION TYPE: TYPE II-B NON-COMBUSTIBLE UNPROTECTED ALLOWABLE BUILDING AREA: BASED ON A-1 = 8,500 S.F. BUILDING AREA: ----ASSEMBLY A-1 = 2,366 S.F. BUSINESS = 3,200 S.F. ALLOWABLE BUILDING HEIGHT: BASED ON A-1 = 55 FEET BUILDING HEIGHT: — 30 FEET OCCUPANCY LOAD: ----— TOTAL AREA = 5,566 S.F. ASSEMBLY A-1 = 2,366 S.F. / 15 NET = 158 PERSONS BUSINESS = 3200 S.F. / 100 GROSS = 32 PERSONS TOTAL = 190 PERSONS NUMBER OF EXITS: ----2 REQUIRED 3 PROVIDED FARMERS MARKET USE GROUP: _____ ----- ASSEMBLY A-3 BUILDING CONSTRUCTION TYPE: TYPE II-B NON-COMBUSTIBLE UNPROTECTED ALLOWABLE BUILDING AREA: ______9,500 S.F. + OPEN PERIMETER INCREASE (1,125 S.F.) = 16,625 S.F. BUILDING AREA: TOTAL AREA = 13,729 S.F. AREA 1 (RESTROOMS, CONCESSIONS, STORAGE) = 1,175 S.F. BUILDING FIRE AREAS: ----AREA 2 (OPEN FARMERS MARKET / ICE RINK) = 13,729 S.F. ALLOWABLE BUILDING HEIGHT: _____ 65 FEET BUILDING HEIGHT: ____ AREA 2 = 13,729 S.F. / 50 GROSS = 275 PERSONS TOTAL OCCUPANCY = 287 PERSONS

- 2 REQUIRED

13 PROVIDED

NUMBER OF EXITS: ----

<u> </u>	\ <u></u>	.		Sheet Index
20000000000000000000000000000000000000	Addendum #	31ds	No.	Description
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	III		1
2		•	(TØØI	Cover Sheet
	•	•(TØØ2	Sheet Index/Project Data
		•	A@@1	Barrier Free Standards
	+	•	A002 M0.0	General Structural Notes Mechanical General Information
		•	M7.1	Mechanical Details
		•	MT.2	Mechanical Details
	-	•	EØ.Ø	Electrical General Information
		 	ET.1	Electrical Details
		•	5PØ1	Site Plan
		•	SPØ2	Keyed Site Notes/Site Amenities
		•	SPØ3 SPØ4	Partial Enlarged Site Plan Partial Enlarged Site Plan
		•	SPØ5	Partial Enlarged Site Plan - Sand Volleyball Courts, Basketball Court, and Pavilion #4
	-	•	SP06	Partial Enlarged Site Plan - Mini Soccer Field and Pavilion #3
		•	5PØ7 5PØ8	Partial Enlarged Site Plan - Pavilion *2 and Renovated Restroom Building Partial Enlarged Site Plan - Splash Pad/Park and Pavilion *1
		•	5PØ9	Partial Enlarged Site Plan - Farmers Market
	<u> </u>	•	5P10	Partial Enlarged Site Plan - Fire Pit Area and Pavilion *5
	+	•	SP11	Partial Enlarged Site Plan - Amphitheater Site Details
	\perp	•	5P13	Site Details - Mini Soccer Field Details
	 _	•	5P14	Site Details - Sand Volleyball Court Details
	+	•	SP15	Site Details - Splash Park Details
	<u> </u>			Civil
		•	C-Ø	Cover Sheet
	+	•	C-1	Boundary / Topographic / Tree Survey Boundary / Topographic / Tree Survey
	<u> </u>	•	C-2	Existing Structure Table
		•	C-4	Demolition Plan
	+	•	C-5 C-6	Demolition Plan Dimensional Site Plan
	+	•	C-6 C-7	Dimensional Site Plan Dimensional Site Plan
		•	C-8	Paving & Grading Plan
	+	•	C-9 C-10	Paving & Grading Plan MDOT MØ730a Detail
	<u> </u>	•	C-11	Utility Plan
		•	C-12	Utility Plan
		•	C-13	Storm and Sanitary Sewer Profiles Soil Erosion / Sedimentation Control Plan
		•	C-15	Soil Erosion / Sedimentation Control Plan
	•		1 of 1	City of Sterling Heights Standard Details Soil Erosion Plan
	•	$+ \langle$	1 of 7 2 of 7	City of Sterling Heights Standard Details Notes City of Sterling Heights Standard Details Sanitary
	•		4 of 7	City of Sterling Heights Standard Details Storm City of Sterling Heights Standard Details Storm
	•		5 of 7	City of Sterling Heights Standard Details Storm
	•	$+\langle$	6 of 7	City of Sterling Heights Standard Details Watermain
	 	+	7 of 7	City of Sterling Heights Standard Details Watermain
				Mechanical - Site
		•	MDØ.1 MDØ.2	Mechanical Site Demolition Plan Mechanical Site Demolition Plan
		•	MØ.1	Mechanical Site Plan - New Work Plan
		•	MØ.2	Mechanical Site Plan - New Work Plan
	+			Electrical - Site
	_	•	EDØ.1	Electrical Site Demolition Plan
2	\downarrow	•	EDØ2	Electrical Site Demolition Plan
	1	•	EØ.1	Electrical Site New Work Plan Electrical Site New Work Plan
	_			E.OCCITORI OTOCITOR WOIN Idil
2				Landecape
	1	•	LS-1	Overall Landscape Planting View Landscape Planting Detail
	$\downarrow \downarrow$	•	LS-2 LS-3	Landscape Planting Detail Landscape Planting Detail
•	R	•	LS-4	Plant Material List, Planting Details, and Landscape Notes
	*	•	LS-5 IRR-1	Landscape Planting Detail - Paving Pattern Overall Irrigation Plan View
	+		IRR-1	Irrigation Plan Detail
•			IRR-3	Irrigation Plan Detail
•	+		IRR-4 IRR-5	Irrigation Details
				Irrigation Details
	+	-	PANAE AT	Pavilion #, 4 & 5 Floor Plan, Foundation Plan and Details
	+		AY 45-A	ricor i ian, i oundation i ian and Details
				Pavilion *2
	+	•	PAV2-A1	Floor Plan, Foundation Plan and Details Electrical New Work Plan
	+	+	E1.1	LICCUICAL NEW WORK [TIAN
				Pavilion #3
	-	•	PAV3-A1	
	+	•	PAV3-A2 PAV3-A3	
		•	PAV3-A4	
	 	•	M1.2	Mechanical New Work Plans
	+	-	E1.2	Electrical New Work Plan
	ļ			
	+			

	Sheet Index									
		2								
		1	4ddendum							
		7	2 Q	<u>B</u>	No.	Description				
			` `							
						Amichtalogatou				
			+	•	AMP-AIJ	Amphitheater Foundation Plan				
				•		Floor Plan				
			•	•		Reflected Ceiling Plan Roof Plan				
			<u> </u>	•		Roof Framing Plan				
				•		Roof Framing Plan				
				•		Building Elevations Building Elevations				
				•	AMP-A4.1	Building Sections				
				•		Wall Sections Wall Sections				
				•		Wall Sections				
				•		Stair Details				
			•			Ramp Details Floor Finish Plan				
				• (}	Room Schedule and Door Schedule				
				•	M2.1	Plumbing New Work Plan Sheet Metal New Work Plan				
			+	•	E2.1	Electrical New Work Plan				
	+	+	+	•	FM-A1.0	Farmer's Market Foundation Detail & General Structural Notes				
	/2		1	•	FM-A1.1	Foundation Plan				
	$\overline{+}$			•	FM-A12	Floor Plan Reflected Calling Plan				
	+	\top	+	•	FM-A1.3	Reflected Ceiling Plan Roof Plan				
			1	•	FM-A2.1	Enlarged Floor Plan				
	+	+	+	•	FM-A3.1	Building Elevations Building Elevations				
++	+		_	•	FM-A3.2 FM-A4.1	Building Elevations Building Sections				
				•	FM-45.1	Wall Sections				
			+	•	FM-A7.1	Door Schedule Interior Elevations				
				•	M3.1	Plumbing New Work Plan				
				•	M3.2	Sheet Metal New Work Plan				
				•	E3.1	Electrical New Work Plan				
	2					Ticket Booth				
	\dashv			•	TB-A1	Floor Plan, Foundation Plan, Reflected Ceiling Plan, Roof Plan and Structural Notes				
				•	TB-A3	Building Elevations and Sections Wall Sections and Details				
				•	M4.1	Mechanical New Work Plan (Splash Park)				
	/2\			•	M4.2 E4.1	Mechanical New Work Plan Electrical New Work Plans (Splash Park)				
	\top	+	1		<u> </u>					
		_				Renovated Restroom Building				
			+	•	PPR-DI					
				•	RRB-D1	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations				
	<u>2</u>			•	RRB-D2 RRB-AI	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan				
	2			•	RRB-D2 RRB-A1 RRB-A2	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule				
	2			•	RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections				
	2			•	RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4 RRB-A5	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections Wall Sections				
	2			•	RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4 RRB-A5 RRB-A6	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections				
				•	RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4 RRB-A5 RRB-A6 RRB-A1 MD5.1	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections Wall Sections Interior Elevations Interior Elevations Mechanical - Demolition Plan				
	2			•	RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4 RRB-A5 RRB-A6 RRB-A1	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections Wall Sections Interior Elevations Interior Elevations				
				•	RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4 RRB-A5 RRB-A6 RRB-A1 MD5.1 M5.1 M5.2 ED5.1	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections Wall Sections Interior Elevations Interior Elevations Mechanical - Demolition Plan Plumbing New Work Plan Sheet Metal New Work Plan Electrical Demolition Plan				
				• • • • • • • • • • • • • • • • • • •	RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4 RRB-A5 RRB-A6 RRB-A1 MD5.1 M5.1	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections Wall Sections Interior Elevations Interior Elevations Mechanical - Demolition Plan Plumbing New Work Plan Sheet Metal New Work Plan				
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					RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4 RRB-A5 RRB-A6 RRB-A1 MD5.1 M5.1 M5.2 ED5.1	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections Wall Sections Interior Elevations Interior Elevations Mechanical - Demolition Plan Plumbing New Work Plan Sheet Metal New Work Plan Electrical Demolition Plan				
					RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4 RRB-A5 RRB-A6 RRB-A1 MD5.1 M5.1 M5.2 ED5.1	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections Wall Sections Interior Elevations Interior Elevations Mechanical - Demolition Plan Plumbing New Work Plan Sheet Metal New Work Plan Electrical Demolition Plan				
					RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4 RRB-A5 RRB-A6 RRB-A1 MD5.1 M5.1 M5.2 ED5.1	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections Wall Sections Interior Elevations Interior Elevations Mechanical - Demolition Plan Plumbing New Work Plan Sheet Metal New Work Plan Electrical Demolition Plan				
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					RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4 RRB-A5 RRB-A6 RRB-A1 MD5.1 M5.1 M5.2 ED5.1	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections Wall Sections Interior Elevations Interior Elevations Mechanical - Demolition Plan Plumbing New Work Plan Sheet Metal New Work Plan Electrical Demolition Plan				
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					RRB-D2 RRB-A1 RRB-A2 RRB-A3 RRB-A4 RRB-A5 RRB-A6 RRB-A1 MD5.1 M5.1 M5.2 ED5.1	Demolition Floor Plan and Demolition Reflected Ceiling Plan Demolition Building Elevations Floor Plan and Reflected Ceiling Plan Door and Finish Schedule Building Elevations Building Sections Wall Sections Interior Elevations Interior Elevations Mechanical - Demolition Plan Plumbing New Work Plan Sheet Metal New Work Plan Electrical Demolition Plan				
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issue / revision date

3-7-17 Prelim. Review

3-21-17 Prelim. Review

5-9-17 Prelim. Review

5-16-17 Prelim. Review

6-7-17 City Review

6-19-17 Bids

1 6-29-17 Addendum #1

7-7-17 Addendum #2

drawn by checked by

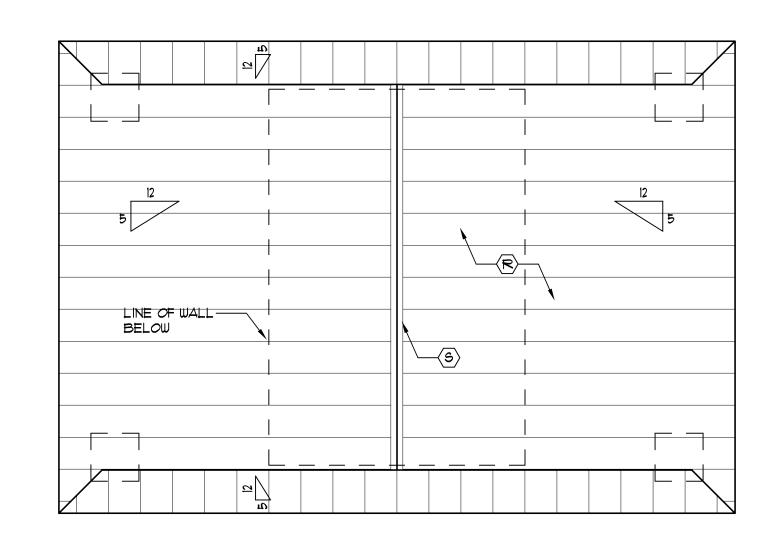
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29895 Greenfield Rd., Suite 107 Southfield, Michigan 48076 (248) 557-1062 Fax: (248) 557-1231

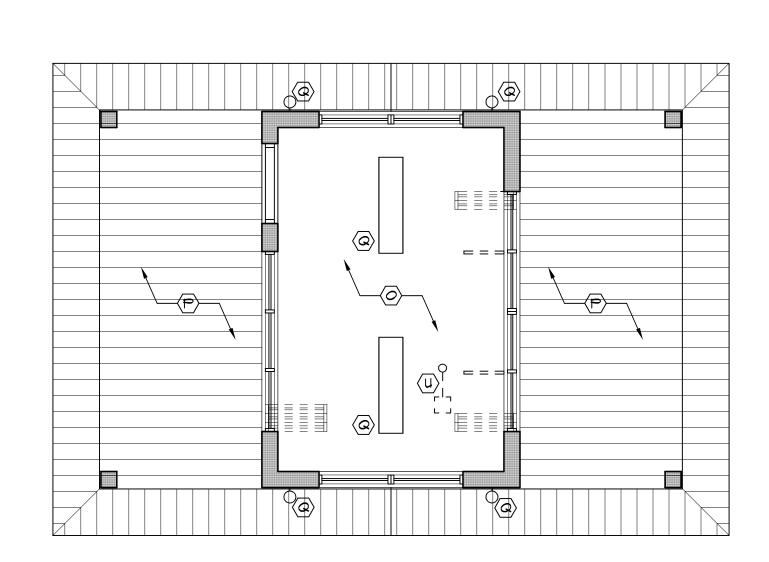
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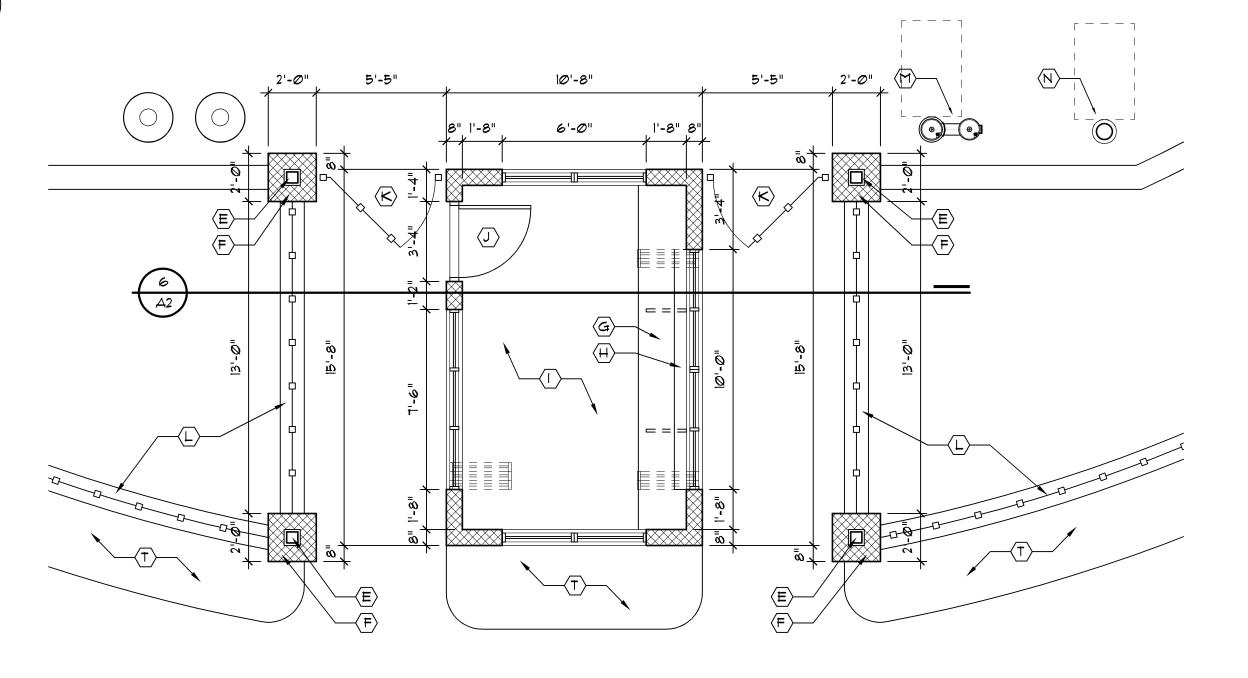


4 Roof Plan Al Scale: 1/4" = 1'-0"

Reflected Ceiling Plan

Al Scale: 1/4" = 1'-0"





NORTH

2 Floor Plan Al Scale: 1/4" = 1'-0"



Foundation Plan Al Scale: 1/4" = 1'-0"

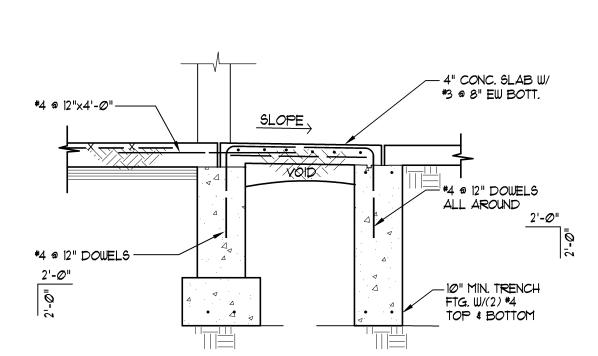
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5 Supported Slab Detail
Al Scale: Not to Scale

KEYED NOTES:

INFORMATION

GRANULAR BASE

BOX-OUT (PAINT)

CMU PIER

MORE INFORMATION

8" FNDN. WALL ON 16"x12" CONCRETE SPREAD FOOTING W/

4" CONC. SLAB ON 6 MIL. VAPOR BARRIER ON 4" COMP.

2'-0"x2'-0" CONC. PIER FOOTING - SEE WALL SECTIONS FOR

6x6 MOISTURE TREATED POST W/ IX8 FIBER CEMENT TRIM

SOLID SURFACE WORK SURFACE (SS-1) AT 30" A.F.F. SUPPORTED BY BRACKETS AS NECESSARY (SEE FLOOR PLAN. NO BRACKETS TO BE PLACED IN FRONT OF SLIDING

SOLID SURFACE TRANSACTION TOP (SS-1) AT 36" A.F.F.

3'-0"x7'-0"x1-3/4" HOLLOW METAL DOOR W/ SAFETY GLASS

5'- \emptyset'' WIDE imes 5'- \emptyset'' HIGH ORNAMENTAL STEEL SWING GATE

3'-0" HIGH ORNAMENTAL STEEL FENCE ON RETAINING WALL

PEDESTAL DRINKING FOUNTAIN (SEE PLUMBING DRAWINGS)

FREESTANDING SHOWER (SEE PLUMBING DRAWINGS)

5/6", 8" GROOVE FIBER CEMENT SOFFIT PANEL - PAINT

"SNAP-LOCK" STANDING SEAM METAL ROOFING ON 30# FELT ON 3/4" PLYWOOD SHEATHING ON WOOD ROOF

LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)

CERAMIC TILE FLOOR AND BASE

HOLLOW METAL DOOR FRAME (PAINT)
HARDWARE SET 12

VISION LITE (PAINT)

WITH LATCH AND LOCK

GYP. BD. CEILING - PAINT

TRUSSES @ 24" O.C. (TYP.)

(U) EXHAUST FAN (SEE MECHANICAL PLANS)

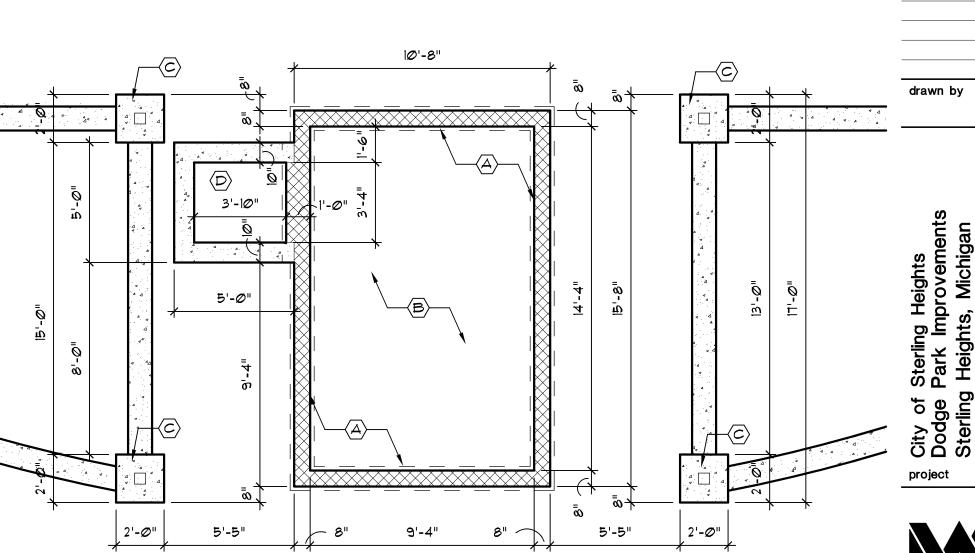
RIDGE CAP

LANDSCAPING

(S)

(2) *5 AT BTM. - SEE WALL SECTIONS FOR MORE

SUPPORTED SLAB (SEE DETAIL THIS SHEET)





issue / revision date

6-19-17 Bids

7-7-17 Addendum #3

checked by

Splash Park Ticket Booth - Floor Plan

29895 Greenfield Rd., Suite 107 Southfield, Michigan 48076 (248) 557-1062 Fax: (248) 557-1231

sheet no. 16078A TB-A1



ROOM FINISH SCHEDULE											
ROOM	ROOM	FLOOR	BASE	CEILING			WALLS		REMARKS		
NO.	NAME			MTL.	HGT.	FINISH	Ν	E	S	W	
1Ø1	EXISTING WOMEN'S RESTROOM	C.T6,7,8,9	C.T 6	GYP. BD.	9'-4"	PT 4	MAS./PT 3	MAS./PT 3	MAS./PT 3	MAS./PT 3	SEE CT TILE PATTERN TYPICAL
1Ø2	EXISTING MEN'S RESTROOM	C.T6,7,8,9	C.T 6	GYP. BD.	9'-4"	PT 4	MAS./PT 3	MAS./PT 3	MAS./PT 3	MAS./PT 3	SEE CT TILE PATTERN TYPICAL
1Ø3	EXISTING MAINTENANCE/UTILITY	-	-	PLYWOOD	9'-4"	PT 4	MAS./PT 3	MAS./PT 3	MAS./PT 3	MAS./PT 3	
104	FAMILY RESTROOM I	C.T 6 \$ 7	C.T 5	GYP. BD.	9'-4"	PT 4	MAS./PT 3	GYP./PT 8 C.T 5	GYP./PT 8 C.T 5	MAS./PT 3	SEE CT TILE PATTERN TYPICAL
105	FAMILY RESTROOM 2	C.T 6 \$ 7	C.T 5	GYP. BD.	9'-4"	PT 4	MAS./PT 3	MAS./PT 3	GYP./PT 8 C.T 5	GYP./PT 8 C.T 5	SEE CT TILE PATTERN TYPICAL

	DOOR SCHEDULE												
DOOR	DOOR DOOR SIZE		DOOR			FRAME			DETAILS				CODED
NO.	DOOK SIZE	TYPE	MAT'L.	FINISH	SET	TYPE	MAT'L.	FINISH	SILL	JAMB	HEAD	LABEL	REMARKS
101	3'-@"xT'-@"x1-3/4"	В	H.M.	PAINT	(18)	E×.	H.M.	PAINT	2Ø2	-	-	-	1, 5, 10, 12, 13, 14
1Ø2	3'-Ø"×1'-Ø"×1-3/4"	В	H.M.	PAINT	(18)	E×.	HM.	PAINT	2Ø2	-	-	-	1, 5, 10, 12, 13, 14
103	3'-Ø"×1'-Ø"×1-3/4"	A	H.M.	PAINT	le {	E×.	HM.	PAINT	2Ø2	-	-	-	1, 5, 11, 14, 15
104	3'-Ø"×1'-Ø"×1-3/4"	В	HM.	PAINT	} 17	FI	HM.	PAINT	2Ø2	2Ø1	-	-	1, 5, 9, 10, 14
105	3'-Ø"xT'-Ø"xI-3/4"	В	HM.	PAINT		F 1	HM.	PAINT	2Ø2	2Ø1	-	-	1, 5, 10, 12, 13, 14
					\sim								

CODED REMARKS

SAFETY GLASS VISION LITE

4. VINYL CARPET TO TILE JOINER

3. SAFETY GLASS SIDE LITE

5. METAL THRESHOLD

8. TERRAZZO STRIP

6. MARBLE THRESHOLD

7. VINYL REDUCING STRIP

9. GROUT FILLED FRAME

11. DOOR TO OPEN 135°

14. WEATHER STRIPPING

15. KICK DOWN DOOR STOP

12. PUSH / PULL

10. LIMIT DOOR TO 90° SWING

13. WALL MOUNTED DOOR STOP

1. CLOSER

MATERIAL KEY

= ACOUSTIC CEILING TILE ACC = ACOUSTIC CEILING CANOPY

AL/GL. = ALUMINUM & GLASS = CABINETRY CONC. = CONCRETE CPT. = CARPET

C.T. = CERAMIC TILE C.T.B. = CERAMIC TILE BASE E.C. = EXPOSED CONSTRUCTION

= EPOXY PAINT = FABRIC WALL COVERING G.B. = GYPSUM BOARD

MAS. = MASONRY = PRE-FIN. METAL KNOCK DOWN FRAME

= PLASTIC LAMINATE P. LAM.

PRE-FIN. = PRE-FINISHED = RUBBER BASE WD. = STAINED WOOD

V.B. = VINYL BASE YCT. = VINYL COMPOSITION TILE VSF = VINYL SHEET FLOORING YWC. = YINYL WALL COVERING

= WALL PROTECTION

GENERAL REMARKS

I. FLOOR MATERIAL CHANGES OCCUR AT CENTERLINE OF DOOR.

2. ACCESS PANELS, ELECTRICAL PANELS,

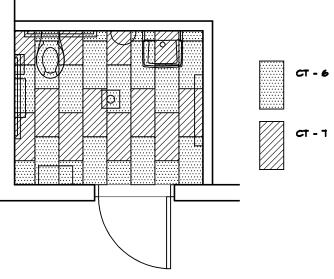
HYAC REGISTERS & FIRE EXTINGUISHER CABINETS SHALL BE PRE-FINISHED OR PAINTED TO MATCH ADJACENT WALLS OR CEILINGS.

3. ALL DOOR & WINDOW FRAMES TO RECEIVE A CONTINUOUS BEAD OF SEALANT AT ALL PERIMETER EDGES.

4. ALL EXPOSED STEEL SHALL BE PAINTED.

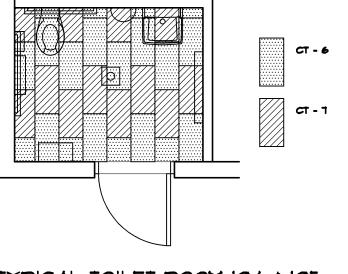
5. REFER TO REFLECTED CEILING PLANS AND SECTIONS WHERE CEILING HEIGHT VARIES.

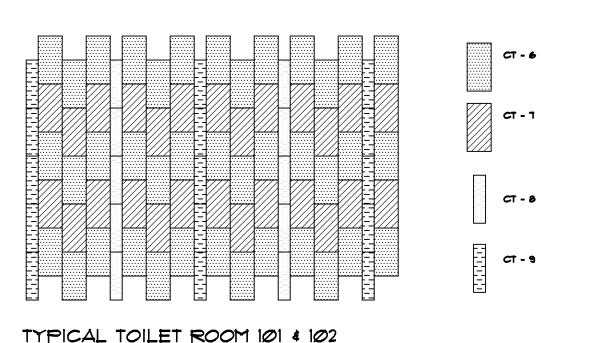
6. ALL GYPSUM BOARD SOFFITS SHALL BE PAINTED.

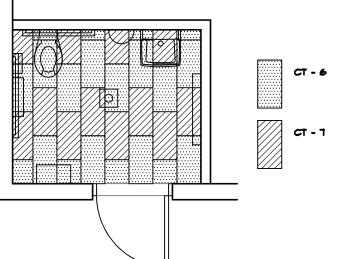




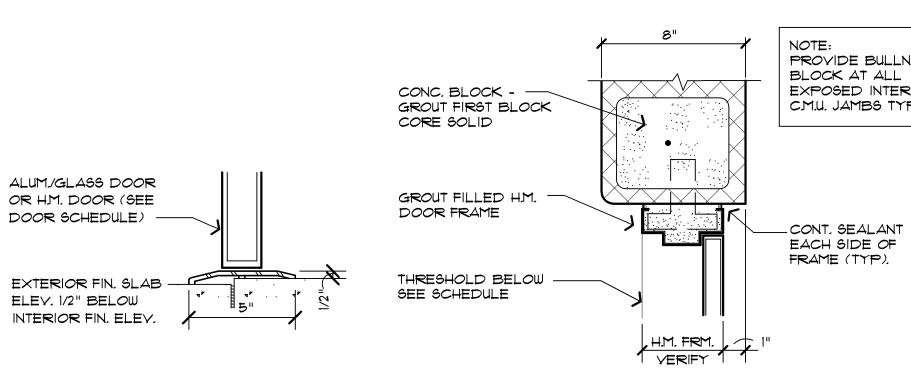
CERAMIC TILE PATTERN











ABBREVIATIONS

AL./GL. = ALUMINUM & GLASS

CANOD. = CLEAR ANODIZED

= GLASS

= STEEL

= BI-FOLD

= HOLLOW METAL

= BY MANUFACTURER

= OVERHEAD DOOR

= PLASTIC LAMINATE

= WOOD, SOLID CORE

= PRE-FINISHED

= HOLLOW METAL KNOCK DOWN

= PRE-FIN. METAL KNOCK DOWN FRAME

= STAIN & VARNISH (FIELD FINISHED)

ALUM. = ALUMINUM

P. LAM.

WD.

ALUM/GLASS DOOR

OR H.M. DOOR (SEE

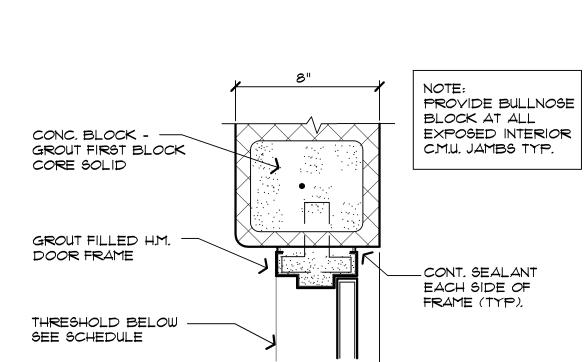
ELEY. 1/2" BELOW

BETWEEN EACH 16" SEAM STAGGERED 6" APART. SECOND ROW 2'-0" UP ROOF FROM FIRST STAGGERED ROW.

INTERIOR FIN. ELEV.

SCALE: 3" = 1'-0"

THRESHOLD DETAIL



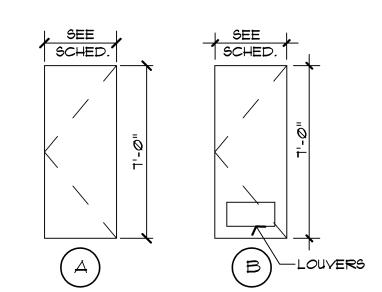


GENERAL DOOR & FRAME NOTES

1. ALL DOOR FRAMES ARE TO RECEIVE CONTINUOUS BEAD

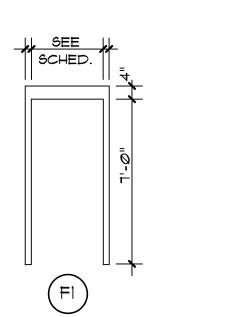
OF SEALANT AT PERIMETER - BOTH SIDES. 2. ALL H.M. FRAMES SHALL BE GROUT FILLED.

3. ALL H.M. DOORS TO BE GALVANIZED, PAINTED



DOOR TYPES

NO SCALE



FRAME TYPES

NO SCALE

NORTH

issue / revision date Prelim. Review 3-21-17 Prelim. Review 5-9-17 5-16-17 Prelim. Review 6-7-17 City Review 6-19-17 Bids 7-7-17 Addendum #3

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architect seal

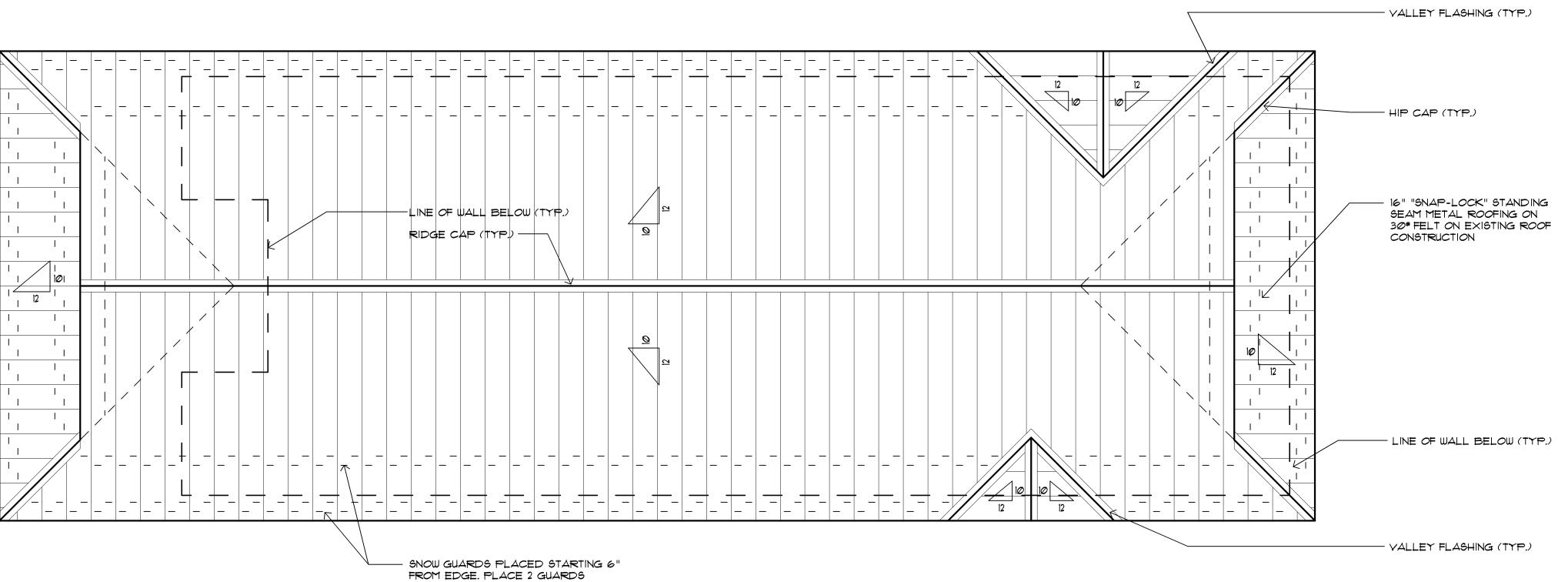
checked by

project sheet title

Dorchen/Martin Associates, Inc. Architects/Planners

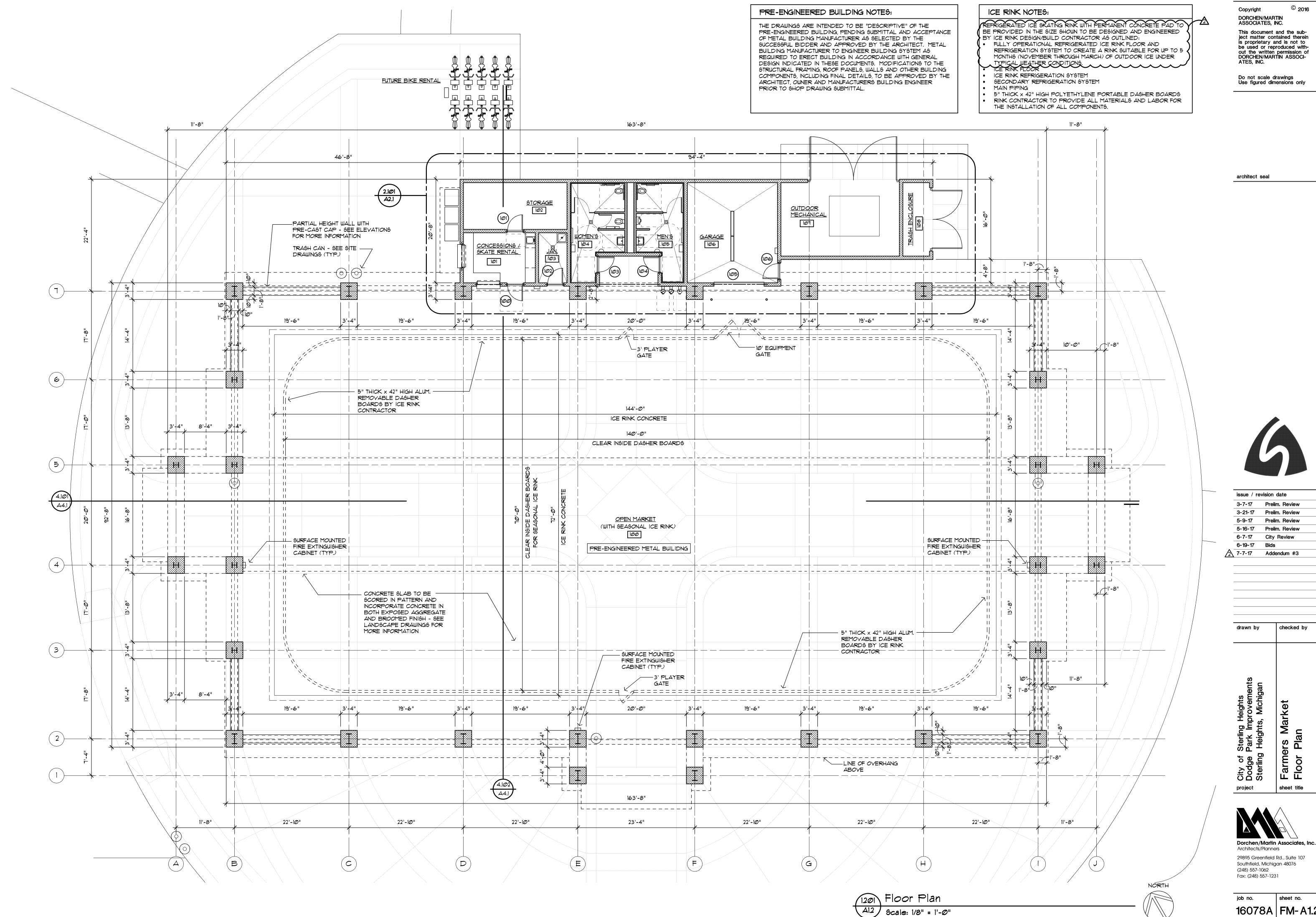
29895 Greenfield Rd., Suite 107 Southfield, Michigan 48076 (248) 557-1062 Fax: (248) 557-1231

sheet no. 16078A RRB-A2

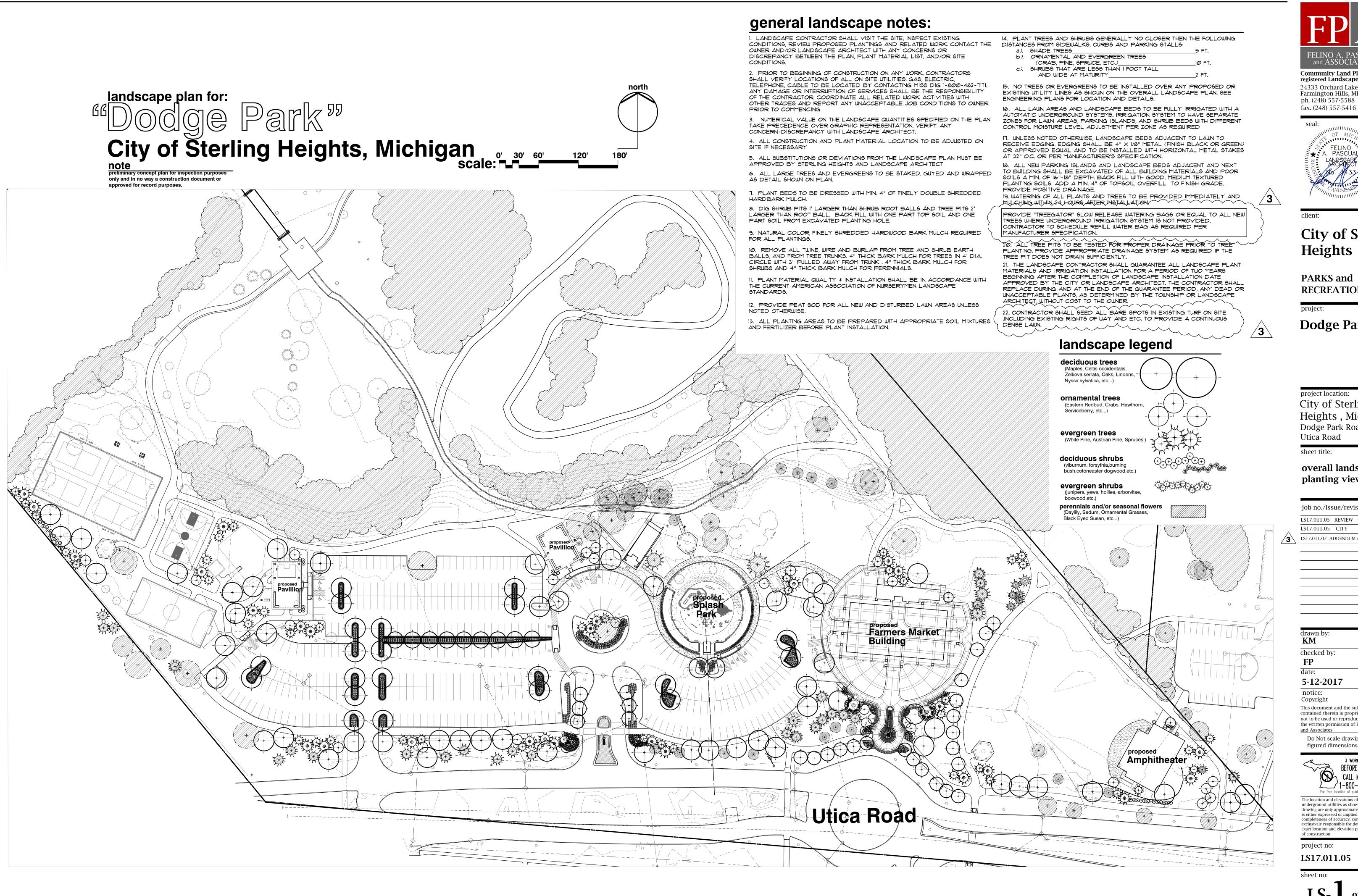


Roof Plan

Scale: 1/4" = 1'-0"



16078A FM-A1.2



and ASSOCIATES Community Land Planner and registered Landscape Architect 24333 Orchard Lake Rd, Suite G Farmington Hills, MI 48336

City of Sterling Heights

PARKS and RECREATION

Dodge Park

project location: City of Sterling Heights , Michigan Dodge Park Road and Utica Road

overall landscape planting view

job no./issue/revision date: LS17.011.05 REVIEW 6-12-2017 LS17.011.05 CITY 6-17-2017 LS17.011.07 ADDENDUM # 3 7-7-2017

checked by:

5-12-2017

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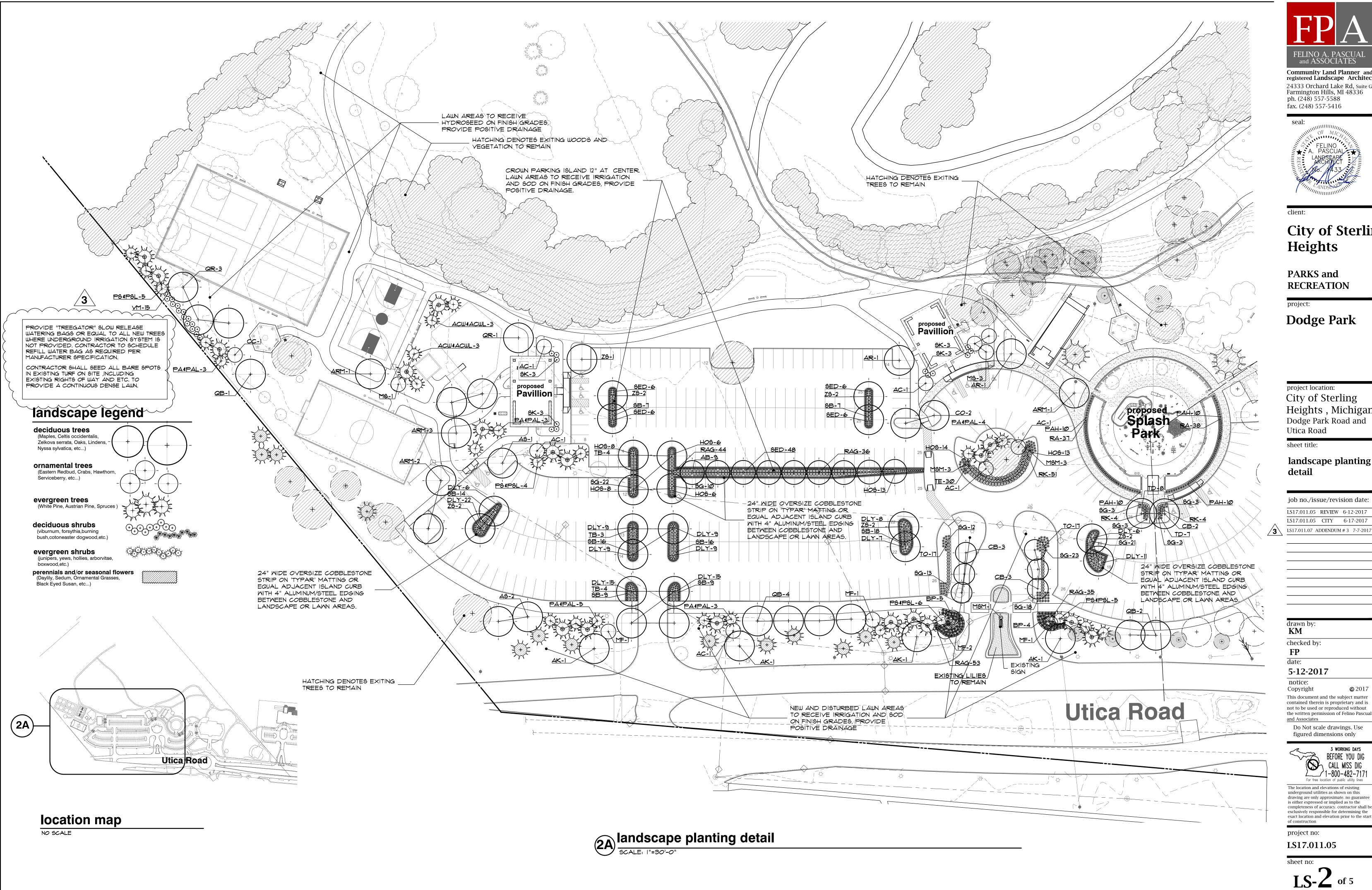
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nderground utilities as shown on this is either expressed or implied as to the completeness of accuracy, contractor shall be exclusively responsible for determining the exact location and elevation prior to the start

project no: LS17.011.05

sheet no:



FELINO A. PASCUAI and ASSOCIATES Community Land Planner and registered Landscape Architect 24333 Orchard Lake Rd, Suite G Farmington Hills, MI 48336 ph. (248) 557-5588

City of Sterling

City of Sterling Heights , Michigan Dodge Park Road and

landscape planting

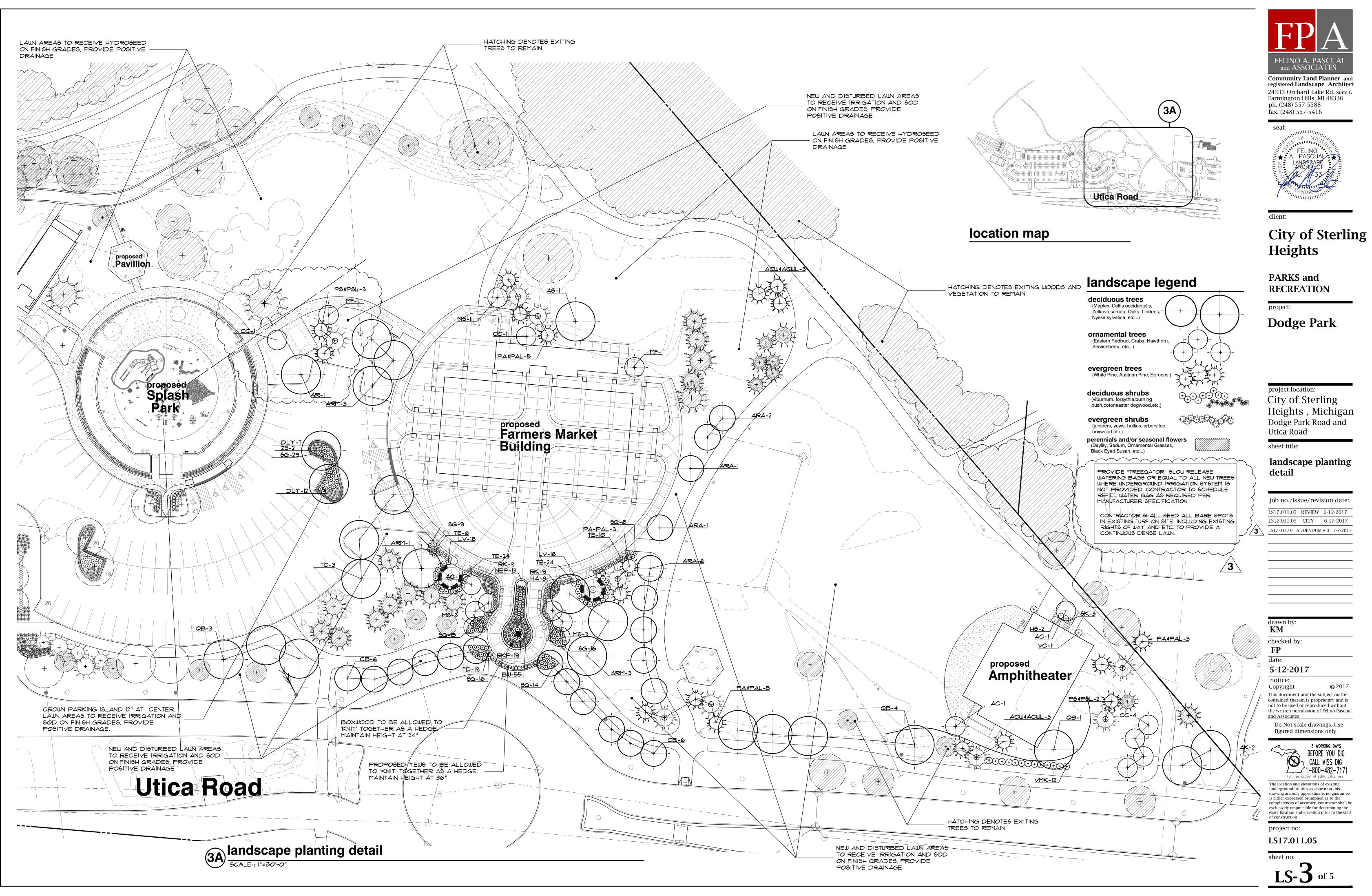
job no./issue/revision date: LS17.011.05 REVIEW 6-12-2017 LS17.011.05 CITY 6-17-2017

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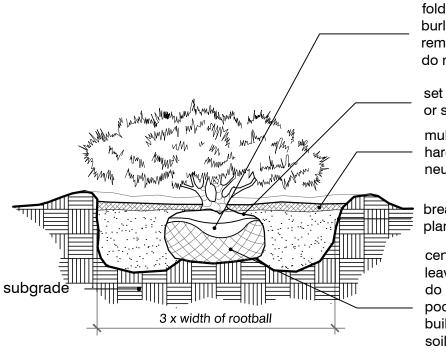


The location and elevations of existing nderground utilities as shown on this drawing are only approximate. no guarantee is either expressed or implied as to the completeness of accuracy. contractor shall be exclusively responsible for determining the exact location and elevation prior to the start



plant material list

			piarit material not			
key	quant. LS-2	quant. LS-3	botanical name	common name	size	comments
			LARGE AND SMALL DECIDUOUS TREES			
	3	1	ACER 5. "MAJESTY"	MAJESTY SUGAR MAPLE	3" BB	
	4	2	ACER P. 'CRIMSON KING'	CRIMSON KING NORWAY MAPLE	3" BB	
	2	1	ACER RUBRUM	RED MAPLE	3" BB	
ARM	7	-	ACER RUBRUM	RED MAPLE	14' BB	(MULTI-STEM)
ARA	•	10	ACER R. 'ARMSTRONG'	ARMSTRONG RED MAPLE	3" BB	(
	-		TILIA CORDATA 'BOULEVARD'		3" BB	
TC	11	3	TILIA CORDATA	BOULEVARD LINDEN	3" BB	
	-		QUERCUS RUBRA	LITTLELEAF LINDEN	3" BB	
QB	4	-	QUERCUS BICOLOR	RED OAK	3" BB	
	l	8		SWAMP WHITE OAK		
CB	8	12	CARPINUS BETULUS 'FASTIGIATA'	PYRAMIDAL EUROPEAN HORNBEAN	3" BB	
ZS	11	2	ZELKOYA SERRATA	JAPANESE ZELKOVA	3" BB	
	2	-	CELTIS OCCIDENTALIS	HACKBERRY	3" BB	
	1		CERCIS CANADENSIS	EASTERN REDBUD	8' BB	(MULTI-STEM)
AB	9	-	AESCOLUS X.C. 'BRIOTI'	BRIOTI RED HORSE CHESTNUT	2" BB	
AC	6	2	AMELANCHIER CANADENSIS	SHADLOW SERVICEBERRY	8' BB	(MULTI-STEM)
MF	5	2	MALUS FLORIBUNDA	JAPANESE FLOWERING CRABAPPLE	2" BB	
MS	4	7	MALUS SARGENTII	SNOWDRIFT CRABAPPLE	2" BB	
			SHRUBS			
SK	12	3	SYRINGA PATULA 'MISS KIM'	MISS KIM DWARF LILAC	3' B.B.	
RKP	-	19	ROSA X. 'RADCON '	PINK KNOCK-OUT ROSA	#5 CONT.	
- RK	59	18	ROSA X. 'OSA EASY DOUBLE RED''	OSA EASY DOUBLE RED ROSE	#5 CONT.	
<u> </u>	-	8	HYDRANGEA A. 'ANNABELLE'	ANNABELLE HYDRANGEA	*3 CONT.	
RA	75	-	RIBES ALPINUM	ALPINE CURRANT	*3 CONT.	
	-	1	VIBURNUM CARLESII	KOREANSPICE VIBURNUM	3 1/2' BB	42" O.C. SPACING
	15	-	VIBURNUM P.T. 'MARIESII'	MARIESI DOUBLEFILE VIBURNUM	3 1/2' B.B	
	-	13	VIBURNUM X.B. 'MOHAWK'	MOHAWK VIBURNUM	3 1/2' BB	
<u> </u>	131	107	SPIRAEA X.B. 'GOLDFLAME'	GOLDFLAME SPIREA	*3 CONT	
HS	-	2	HIBISCUS S. 'APHRODITE'	APHRODITE ALTHEA	#5 CONT	
RAG	168	-	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	*3 CONT	
BP	9	-	BERBERIS T. 'ROSE GLOW'	ROSE GLOW BARBERRY	*3 CONT	
LY	-	36	LIGUSTRUM X. VICARYI	VICARY PRIVET	3' BB	
	36	-	SPIRAEA X.B., 'ANTHONY WATERER'	ANTHONY WATERER SPIRAEA	#5 CONT.	
			LARGE AND SMALL EVERGREENS BUXUS 'GREEN VELVET'	GREEN VELVET BOXWOOD	18" BB	24" O.C. SPACING
	-	55	TAXUS XM. 'DENSIFORMIS'	DENSIFORMIS YEW	24"-3Ø" BB	24" O.C. SPACING
TD	15	19				
TE	30	64	TAXUS XM. 'EVERLOW' THUJA OCCIDENTALIS 'HETZ MIDGET'	EVERLOW YEW HETZ MIDGET ARBORVITAE	24"-30" BB	32" O.C. SPACING
TO	34	-		CONCOLOR WHITE FIR		
ACW	4	5	ABIES CONCOLOR		8' BB	
ACWL	2	1	ABIES CONCOLOR	CONCOLOR WHITE FIR	10' BB 0	\
P5	11	3	PINUS STROBUS	EASTERN WHITE PINE	8' BB 10' BB 0	
PSL	9	2	PINUS STROBUS	EASTERN WHITE PINE		
PA	11	10	PICEA ABIES	NORWAY SPRUCE	8' BB	
PAL	7	6	PICEA ABIES	NORWAY SPRUCE	10' BB 0	
			PERENNIALS AND GRASSES	DUIADE POINTANI COACC	#0 · · · ·	
PAH	40	-	PENNISETUM ALOPECUROIDES 'HAMELIN'	DWARF FOUNTAIN GRASS	#3 CONT.	
MSM	7	-	MISCANTHUS SINENSIS 'MORNING LIGHT'	MORNING LIGHT JAPANESE SILVER GRASS	#5 CONT.	
NEP	-	13	NEPETA X. FAASSENII 'WALKERS LOW'	WALKERS LOW CATMINT	#1 CONT.	
DLY	126	19	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	#1 CONT.	
HOS	68	-	HOSTA 'PATRIOT'	PATRIOT HOSTA	#1 CONT.	
SEP	72	-	SEDUM SPECTABILE 'NEON'	NEON SEDUM	#I CONT.	
	_ \		· · · · · · · · · · · · · · · · · · ·			



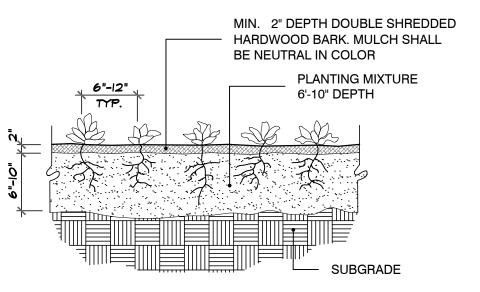
shrub planting detail

fold down or pull back string, burlap or plastic exposing rootball. remove all non-degradable materials do not remove soil from the rootball

set top of rootball level with grade or slightly above grade if in clay soil mulch 2"-3" depth with shredded hardwood bark.mulch shall be neutral in color.

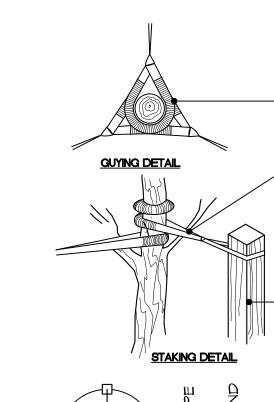
break up (scarify) sides of planting hole.

center rootball in planting hole. leave bottom of planting hole firm. do not amend soil unless planting in poor or severely disturbed soil or building rubble. use water to settle soil and remove air pockets and firmly set shrub. gently tamp if needed.



perennial planting detail

clay soil, windy conditions, 3" or greater diameter tree trunk or large crown. if staking is needed due to these conditions:- stake with 2x2 hardwood stakes or approved equal driven 6"-8" outside of rootball.- loosely do not prune terminal stake tree trunk to allow for trunk flexing. leaderor branch tips. - stake trees just below first branch with prune away dead or 2"-3" wide belt-like, fabric straps (2 per broken branches only tree on opposite sides of tree, connect from tree to stake horizontally. do not use rope wire thru a hose.).- remove all prune suckers off. staking materials after 1 year. set top of rootball level remove nursery applied tree wrap, with grade or slightly tape or string from tree trunk and above grade if in clay crown. remove any tags or labels mulch 2"-3" depth with shredded steel edging between lawn hardwood bark. mulch shall be and landscape beds neutral in color. leave 3" circle of bare soil at base of tree trunk. center rootball in planting steel edging between cobblestone hole.leave bottom of planting $\frac{9}{7}$ -and landscape beds hole firm.do not amend soil unless planting in poor or severely disturbed soil or building rubble.use water to 3" to 6" settle soil and remove air fold down or pull back string, 3 x width of rootball pockets and firmly set tree. burlap or plastic exposing rootball. gently tamp if needed. remove all non-degradable materials. do not remove soil from the rootball.



tree staking detail

3 x width of rootball

evergreen planting detail

2"-3' WIDE BELT-LIKE NYLON OR PLASTIC WIDE BELT-LIKE NYLON.

USE 3 HARDWOOD STAKES PER TREE. 2" X 2" X 8' STAKES. DRIVE STAKES INTO UNDISTURBED SOIL 6"-8" OUTSIDE OF ROOTBALL TO A DEPTH OF 18" BELOW TREE PIT. REMOVE AFTER ONE (1) YEAR. DO NOT USE WIRE OR ROPE THRU



STAKING/GUYING LOCATION

STAKE TREES - JUST BELOW FIRST BRANCH USING 2 - 3" CONNECT FROM TREE TO STAKE OPPOSITE. ALLOW FOR SOME FLEXING OF THE TREE. REMOVE AFTER ONE (1) YEAR. project location:

A HOSE.

Orient staking/guying to prevailing winds, except on slopes greater than 3:1 orient to

> Use same staking/guying orientation for all plants within each grouping or area.

stake with 2x2 hardwood stakes or

approved equal driven 6"-8" outside

of rootball.loosely stake tree trunk to

allow for trunk flexing.stake trees just

fabric straps (2 per tree on opposite

set top of rootball level with grade

mulch 2"-3" depth with shredded

neutral in color. leave 3" circle of

hardwood bark. mulch shall be

bare soil at base of tree trunk.

fold down or pull back string,

break up (scarify) sides of

center rootball in planting hole.

leave bottom of planting hole firm.

do not amend soil unless planting

in poor or severely disturbed soil or

building rubble.use water to settle

set tree. gently tamp if needed.

soil and remove air pockets and firmly

planting hole.

burlap or plastic exposing rootball.

remove all non-degradable materials.

do not remove soil from the rootball.

or slightly above grade if in clay soil.

below first branch with 2"-3" wide belt-like,

sides of tree, connect from tree to stake

remove all staking materials after 1 year.

horizontally. do not use rope wire thru a hose.)

job no./issue/revision date: LS17.011.05 REVIEW 6-12-2017 LS17.011.05 CITY 6-17-2017

checked by:

5-12-2017 notice:

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City of Sterling

Heights

PARKS and

project:

RECREATION

Dodge Park

City of Sterling

Utica Road

sheet title:

Heights , Michigan

Dodge Park Road and

plant material list,

LS17.011.07 ADDENDUM # 3 7-7-2017

planting details

and landscape

ph. (248) 557-5588 fax. (248) 557-5416

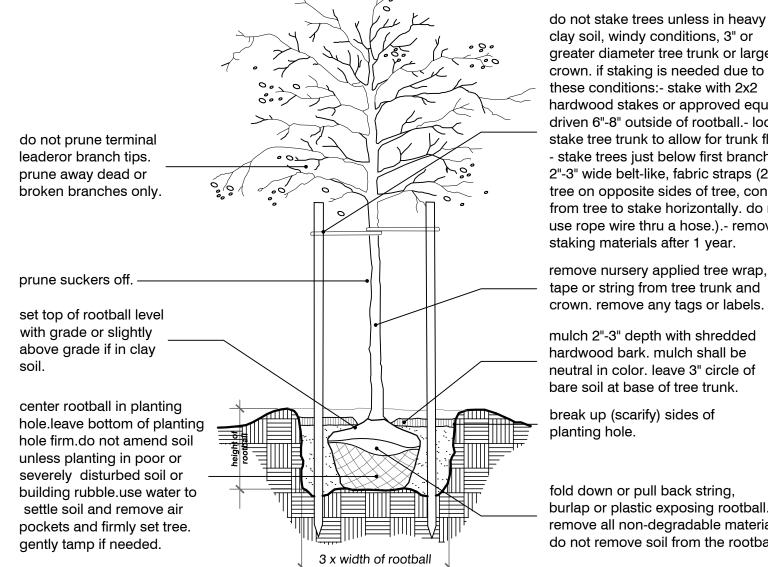
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project no: LS17.011.05

sheet no:



parking island planting detail

greater diameter tree trunk or large crown. if staking is needed due to these conditions:- stake with 2x2 hardwood stakes or approved equal driven 6"-8" outside of rootball.- loosely stake tree trunk to allow for trunk flexing. stake trees just below first branch with 2"-3" wide belt-like, fabric straps (2 per tree on opposite sides of tree, connect from tree to stake horizontally. do not use rope wire thru a hose.).- remove all staking materials after 1 year. remove nursery applied tree wrap, tape or string from tree trunk and crown. remove any tags or labels

do not prune terminal

leader or branch tips.

prune away dead or

broken branches only.

remove nursery applied

tree wrap, tape or string

from tree trunk and crown.

do not stake trees unless in heavy

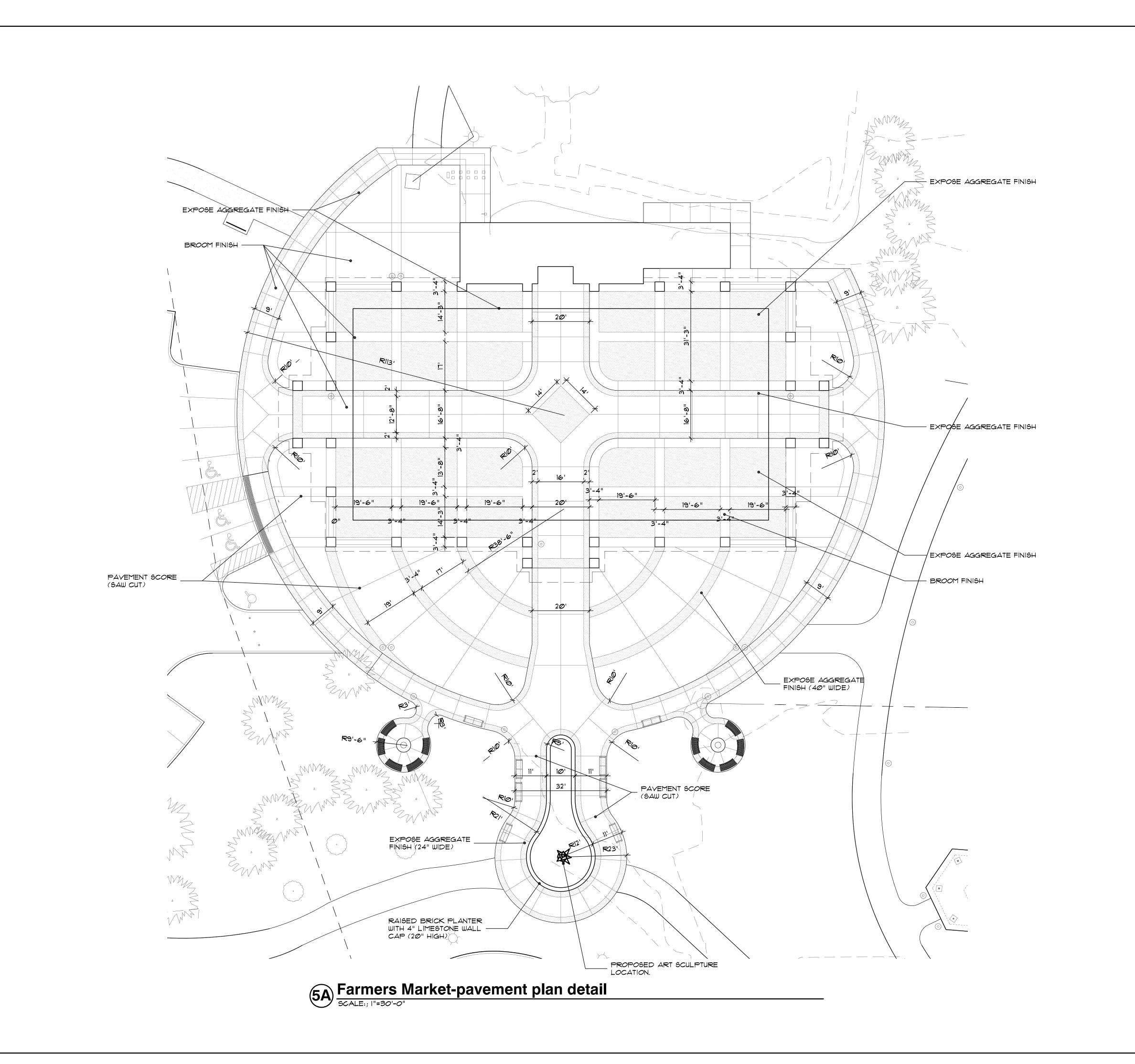
mulch 2"-3" depth with shredded hardwood bark. mulch shall be neutral in color. leave 3" circle of bare soil at base of tree trunk.

break up (scarify) sides of

fold down or pull back string, burlap or plastic exposing rootball. remove all non-degradable materials. do not remove soil from the rootball.

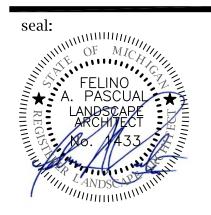
tree planting detail

Plant Material List, Planting Details and Notes





Community Land Planner and registered Landscape Architect 24333 Orchard Lake Rd, Suite G Farmington Hills, MI 48336 ph. (248) 557-5588 fax. (248) 557-5416



client

City of Sterling Heights

PARKS and RECREATION

project:

Dodge Park

project location:
City of Sterling
Heights, Michigan
Dodge Park Road and
Utica Road

sheet title:

landscape planting detail

job no./issue/revision date:

LS17.011.05 REVIEW 6-12-2017

LS17.011.05 CITY 6-17-2017 LS17.011.07 ADDENDUM # 3 7-7-2017

drawn **KM**

checked by: **FP**

date:

5-12-2017
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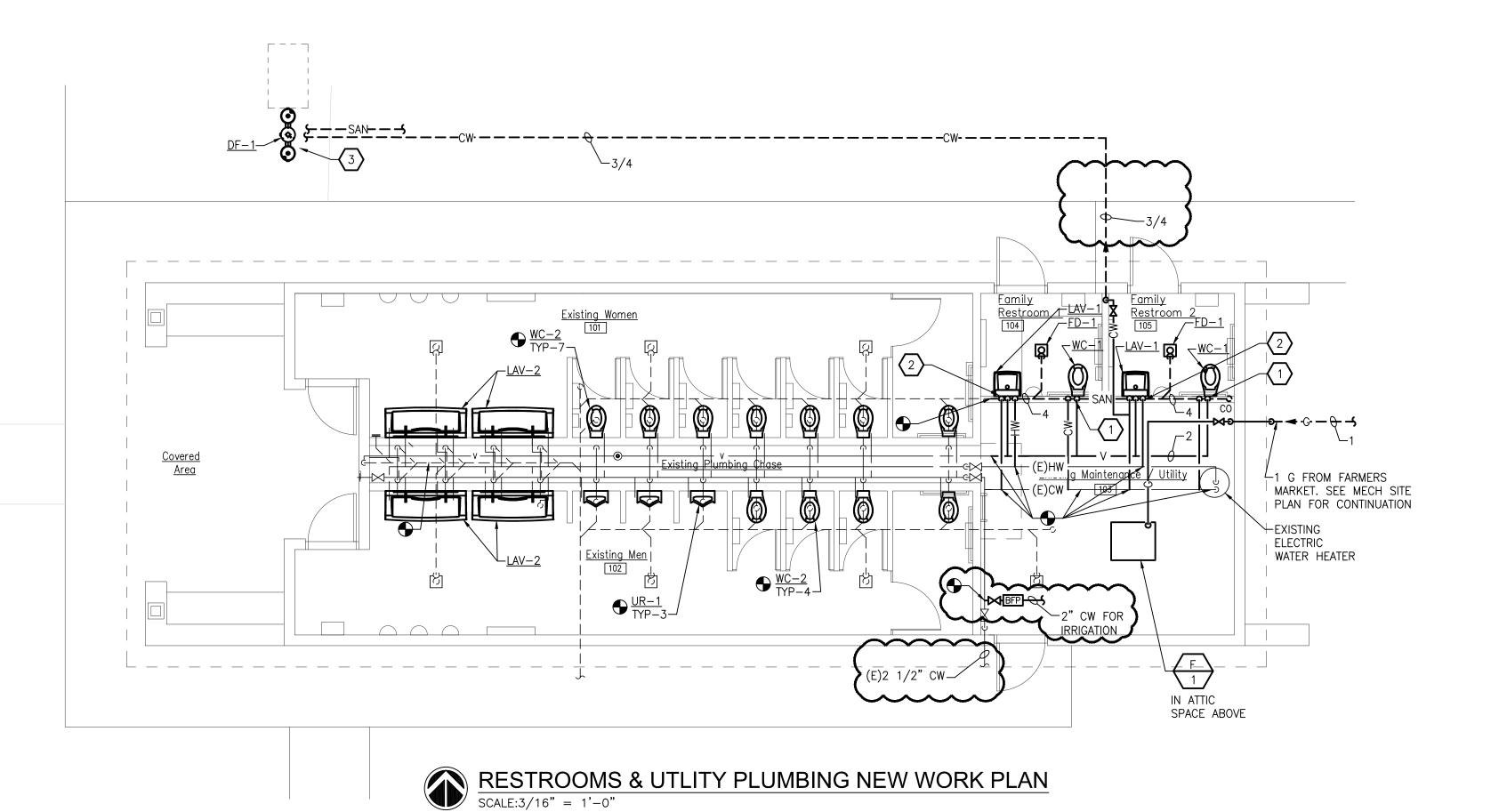
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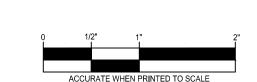
LS17.011

S-5 of 5

PLUMBING FIXTURE SCHEDULE									
TAG	BARRIER FREE	ITEM	PIPE CONNECTION WASTE VENT C		CTION SIZ	ZES HW	MANUFACTURER & MODEL NO.	ACCESSORIES	
FD-1	-	FLOOR DRAIN	3"	1 1/2"	_	-	ZURN: Z-415-B		
LAV-1	Y	WALL MOUNTED LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	AMERICAN STANDARD: LUCERNE	FAUCET: AMERICAN STANDARD: RELIANT 3. DECK MOUNTED SOAP DISPENSER: AMERICAN STANDARD MODEL # 4503.115. PROVIDE ASSE 1070 MIXING VALVE.	
LAV-2	Y	WALL MOUNTED TROUGH LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	BRADLEY: VERGE WASH BASIN: LVGD2		
DF-1	-	BI-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLER AND PET BOWL	2"	1 1/2"	1/2"	-	MOST DEPENDABLE: MODEL # 10145 SM, COLOR BLUE	ATTACHED HOSE BIBB. PROVIDE PET BOWL ADDITION	
UR-1	Y	WALL MOUNTED URINAL	2"	1 1/2"	3/4"	_	KOHLER: DEXTER. MODEL: K-5016-ET	FLUSH VALVE: KOHLER K-13521, 1.0 GPF	
WC-1	Y	WALL MOUNTED WATER CLOSET	4"	2"	1"	-	KOHLER: KINGSTON. MODEL: K-4325	FLUSH VALVE: KOHLER K-13516, 1.6 GPF	
WC-2	Y	FLOOR MOUNTED WATER CLOSET	4"	2"	1"	_	KOHLER: WELLWORTH. MODEL: K-4406	FLUSH VALVE: KOHLER K-13517C, 1.28 GPF	

- 1. SUPPLY ALL FIXTURES WITH LOOSE KEY STOPS.
- 2. PROVIDE ALL ACCESSORIES NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
- 3. PROVIDE CARRIERS FOR ALL FIXTURES PER MANUFACTURER'S RECOMMENDATIONS.
- 4. WHERE REQUIRED AND WHERE DESIGNATED, FIXTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE TO THE LATEST EDITION OF "THE BARRIER" FREE DESIGN REQUIREMENTS OF THE STATES CONSTRUCTION CODE.
- 5. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION/MOUNTING HEIGHT OF ALL FIXTURES.





PLUMBING GENERAL NOTES

- 1. THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE
- 2. REFER TO ARCHITECTURAL PLANS FOR SPECIFICATIONS AND EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE), SINKS, ETC. REFER TO FOOD SERVICE PLANS FOR SPECIFICATIONS AND EXACT LOCATIONS OF FOOD SERVICE EQUIPMENT. REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZES,
- 3. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE AND COMPLY WITH STATE ENERGY STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE STATE AND LOCAL COUNTY DEPARTMENT OF HEATH CROSS CONTAMINATION CODE REQUIREMENTS.
- 4. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING
- 5. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS.
- 6. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
- 7. CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE
- 8. HOT AND COLD WATER PIPING RUN-OUTS TO LAVS AND SINKS SHALL BE 3/4" UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR FIXTURE CONNECTION SIZES. PROVIDE BRANCH LINE ISOLATION VALVES ON DOMESTIC PIPING TO EACH GROUP OF FIXTURES AND TOILET ROOMS. PROVIDE FULL OPEN VALVES PER PLUMBING CODE.
- 9. PLUMBING VENT PIPING THRU THE ROOF SHALL BE LOCATED 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
- 10. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR VALVES/CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS, AND LOCATIONS OF CLEANOUTS INSTALLED IN STORM AND SANITARY PIPING. COORDINATE LOCATIONS WITH ARCHITECT. PROVIDE CLEANOUTS AT THE BASE OF ALL STACKS.
- 11. RUN ALL SANITARY AND STORM PIPING 2-1/2" OR LESS AT 1/4" PER FOOT AND 3"-10" PIPING AT 1/8" PER FOOT MINIMUM. UNLESS OTHERWISE NOTED MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
- 12. PROVIDE VALVES ON ALL BRANCH PIPING SERVING GROUP TOILET ROOMS. PROVIDE FULL OPEN VALVES AND SHUT OFF VALVES PER PLUMBING CODE.
- 14. ALL CORING THRU WALLS, ROOF AND FLOORS SHALL BE BY MECHANICAL CONTRACTOR. COORDINATE LOCATIONS/SIZES OF ALL FLOOR, WALL PENETRATIONS, AND SLEEVES WITH STRUCTURAL/ARCHITECTURAL TRADES AND SEAL PER SPECIFICATIONS.
- 15. PROVIDE A UNION, ISOLATION VALVE, TEE AND MIN. 6" LONG DIRT LEG WITH CAP AT EACH GAS SUPPLY CONNECTION.

KEYED NOTES

- 1) ROUTE 4" SANITARY, 2" VENT AND 1" CW TO WATER CLOSET.
- 2 ROUTE 1 1/2" SANITARY, 1 1/4" VENT, 1/2" HOT & 1/2" COLD WATER TO LAVATORY.
- 3 ROUTE 2" SANITARY AND 1/2" COLD WATER UP TO DRINKING FOUNTAIN.

- ACCESSORIES, AND ADDITIONAL INFORMATION.
- WITH THE WORK OF ALL OTHER TRADES.
- PROVIDE REQUIRED CLEARANCE IN FRONT/ABOVE OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
- PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.

- 13. PROVIDE "SURESEAL" TRAP SEAL PROTECTION ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.

Issue / revision date 5-09-17 Owner Review 6-06-17 Coordination 6-19-17 Bids

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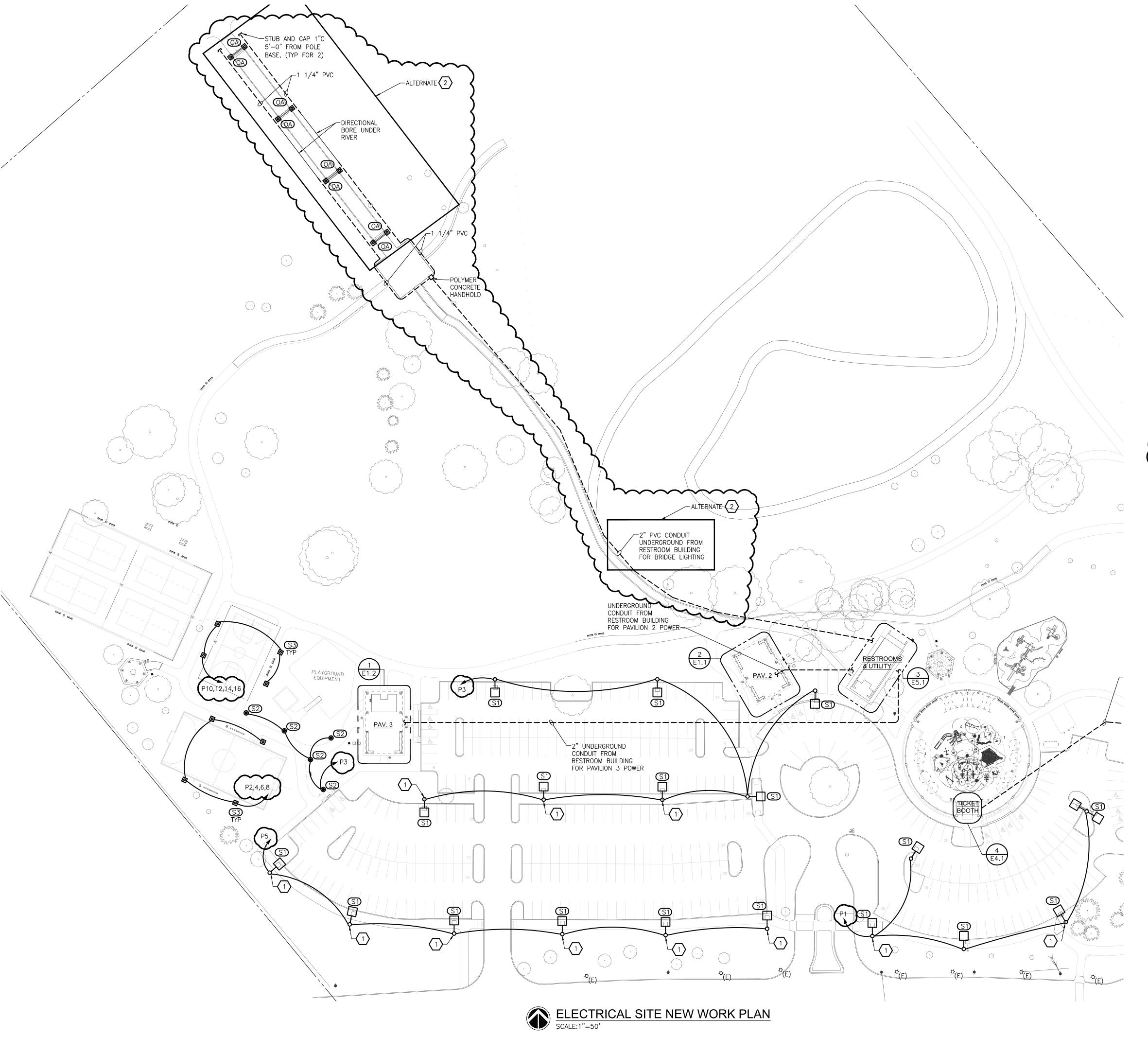
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7-07-17 Addendum #3

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ELECTRICAL GENERAL NOTES

- 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
- 2. SEE LUMINAIRE SCHEDULE ON ELECTRICAL GENERAL INFORMATION SHEET.
- 3. EXIT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE UNCONTROLLED AND TIED AHEAD OF LOCAL AREA LIGHTING SWITCH, UNLESS CIRCUITED OTHERWISE.
- 4. WHERE MORE THEN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
- 5. ALL ELECTRICAL DEVICES SHOWN ON THIS PLAN SHALL BE NEW UNLESS OTHERWISE NOTED.
- 6. ANY 120 VOLT BRANCH CIRCUIT FEEDER LONGER THAN 75'-0" TO LAST DEVICE SHALL BE SIZED TO THE NEXT LARGER STANDARD AWG SIZE. E.C. SHALL FIELD VERIFY ALL LENGTHS OF FEEDERS.
- 7. ALL RECEPTACLES SHALL BE 20A. RATED.
- 8. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE.
- 9. ALL RECEPTACLES WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE GFCI TYPE RECEPTACLE.
- 10. REFER TO ARCHITECTURAL FLOOR PLAN AND ELEVATIONS FOR EXACT LOCATION
- 11. ALL JUNCTION BOXES SERVING BRANCH CIRCUIT WIRING SHALL BE LABELED WITH CIRCUITS SERVED.
- 12. ALL 120 VOLT CIRCUITS SHALL UTILIZE A SEPARATE NEUTRAL.
- 13. ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND
- 14. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.
- 15. ALL ELECTRICAL EQUIPMENT MOUNTED ON THE FLOOR SHALL BE MOUNTED ON A 4" CONCRETE HOUSE KEEPING PAD.
- 16. ALL BRANCH CIRCUIT WIRING SHALL BE 2#12, 1#12GND IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.

KEYED NOTES

 \mathbb{R}^2 alternate scope includes installation of 2" conduit and wire, 3'-0 MIN BELOW GRADE FOR BRIDGE AND FUTURE PATHWAY LIGHTING. NEW CONDUIT TO CONNECT UNDERGROUND TO EXISTING CONDUIT IN BRIDGE PIERS. NEW FIXTURES TO BE POST MOUNTED ON EXISTING PIERS.

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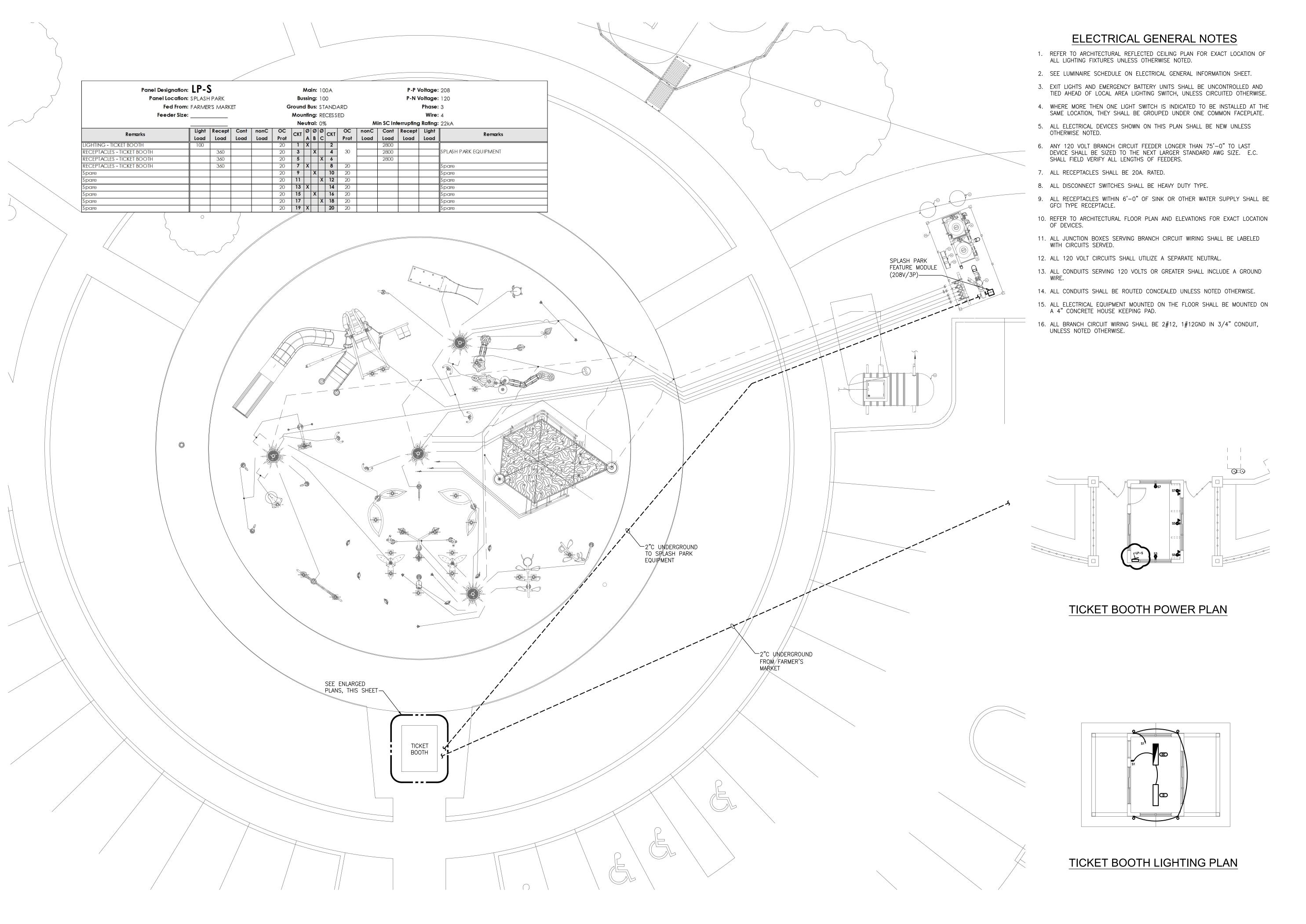
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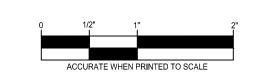
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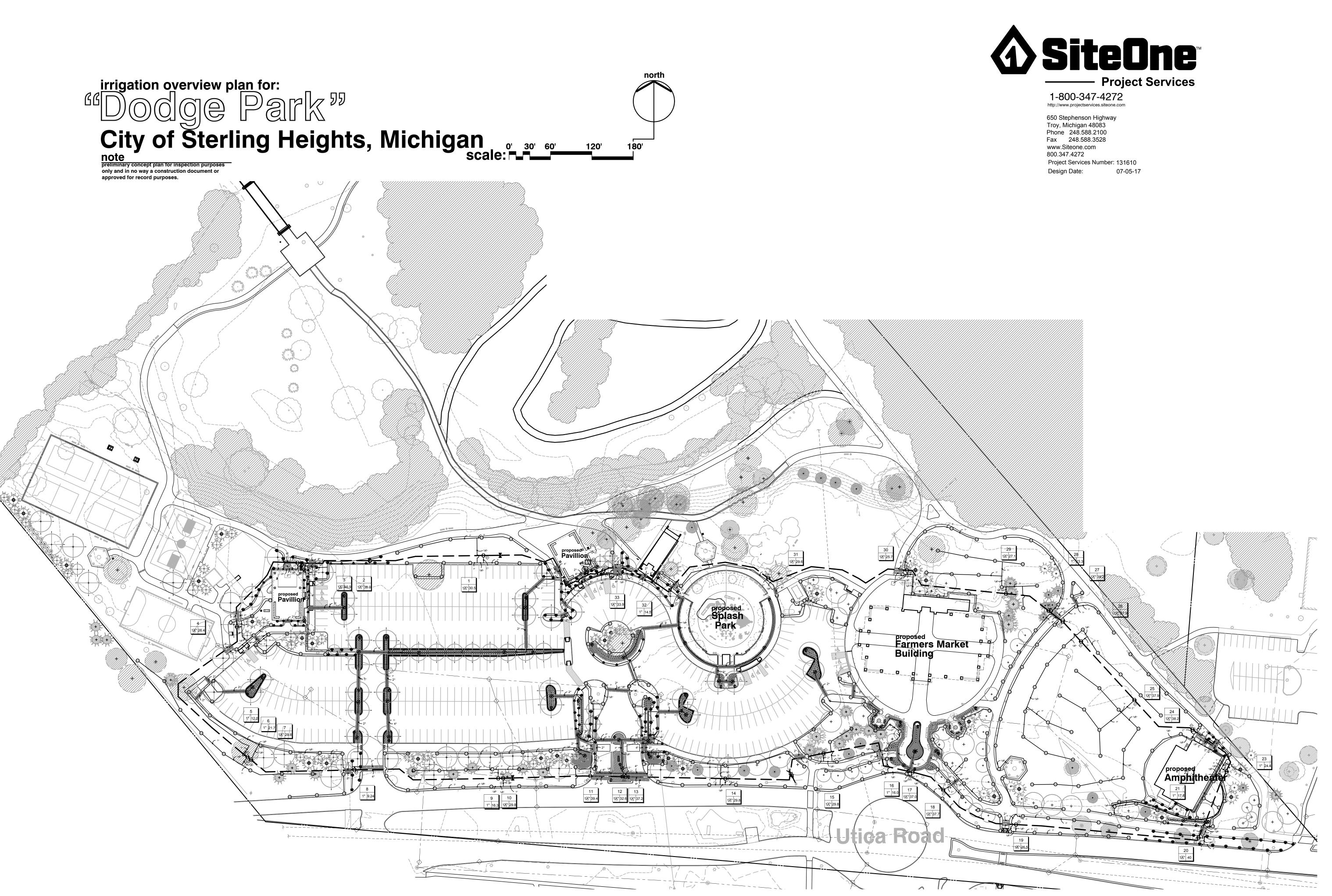
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City of Sterling Heights

PARKS and RECREATION

oject:

Dodge Park

project location:
City of Sterling
Heights, Michigan
Dodge Park Road and
Utica Road

sheet title:

overall irrigation plan view

job no./issue/revision date:

LS17.011.05 ADDENDUM #3 7-7-2017

drawn by

checked by:

date: 5-12-2017

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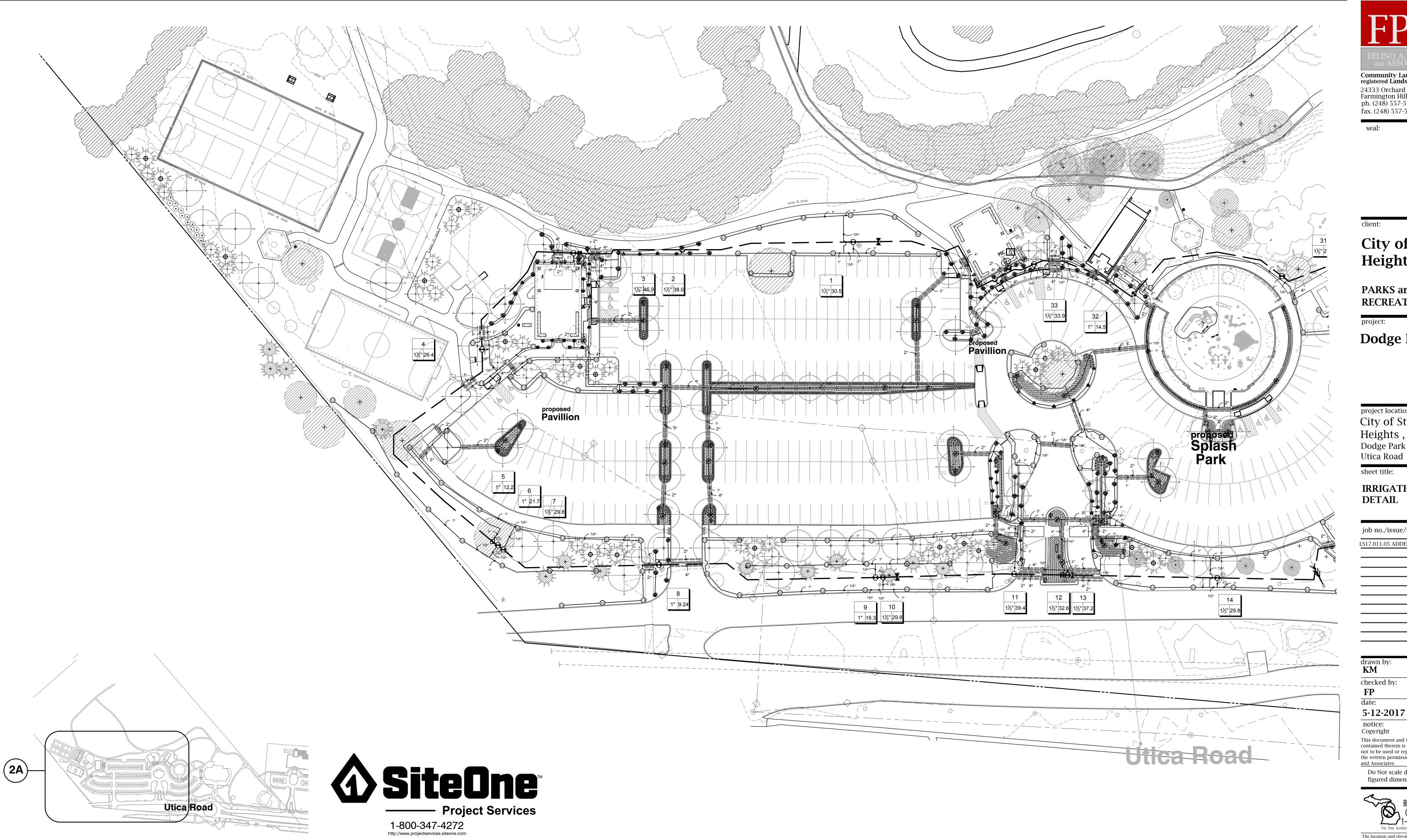


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project no: LS17.011.05

sheet no:

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Project Services Number: 131610

07-05-17

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Design Date:

location map

NO SCALE

Community Land Planner and registered Landscape Architect 24333 Orchard Lake Rd, Suite G Farmington Hills, MI 48336 ph. (248) 557-5588 fax. (248) 557-5416

City of Sterling Heights

PARKS and **RECREATION**

project:

Dodge Park

project location: City of Sterling Heights , Michigan Dodge Park Road and

sheet title:

IRRIGATION PLAN DETAIL

job no./issue/revision date:

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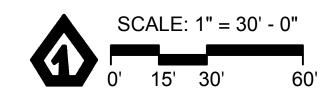


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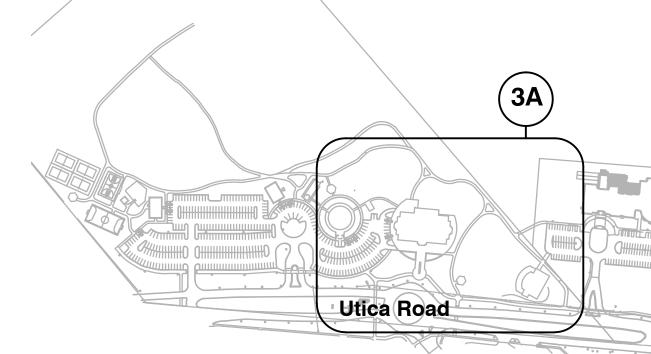
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sheet no:

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City of Sterling Heights

Community Land Planner and registered Landscape Architect

PARKS and **RECREATION**

project:

Dodge Park

project location: City of Sterling Heights , Michigan Dodge Park Road and

sheet title:

IRRIGATION PLAN **DETAIL**

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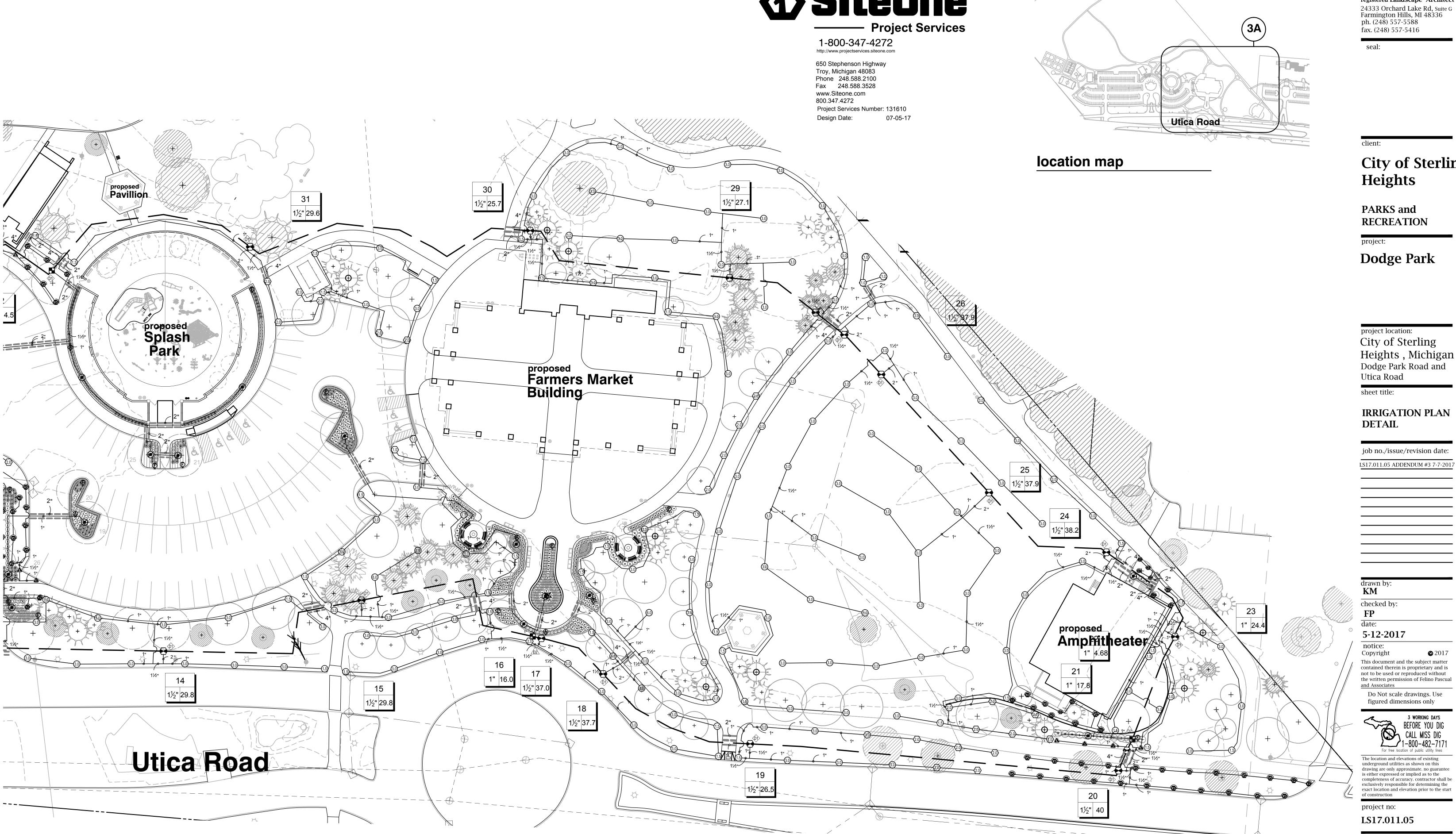
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IRRIGATION SCHEDULE

11110/11101100		
<u>SYMBOL</u>	MANUFACTURER/MODEL	<u>QTY</u>
A A A A A A A ST	Rain Bird 1804 15 Strip Series	31
(a) (a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	Rain Bird 1804 8 Series MPR	27
(a) (a)	Rain Bird 1804 10 Series MPR	42
	Rain Bird 1804 12 Series MPR	24
	Rain Bird 1804 15 Series MPR	60
8 08HE-VAN 12 12HE-VAN 10 10HE-VAN 15 15HE-VAN	Rain Bird 1804 ADJ	1
SYMBOL	MANUFACTURER/MODEL	QTY
(1.5)	Rain Bird 5004-PC, FC	56
3.0	Rain Bird 5004-PC, FC	178
6.0	Rain Bird 5004-PC, FC	3
(1.0)	Rain Bird 5004-PC, FC-LA	7
2.0	Rain Bird 5004-PC, FC-LA	41
SYMBOL	MANUFACTURER/MODEL	QTY
	Rain Bird XCZ-100-PRF 1"	4
×	Rain Bird XCZ-150-PRB-COM 1-1/2"	2
③	Pipe Transition Point	34
Ф	Flush Valve	24
(Drip Air Relief Valve	11
	Area to Receive Dripline Rain Bird XFD-06-12 (12)	9,680 s.f.
	Rainbird XFD - 06-12 Dripline	1,551 l.f.
SYMBOL	MANUFACTURER/MODEL	QTY
igodelaring	Rain Bird PGA Globe 1"	6
igorplus	Rain Bird PGA Globe 1-1/2"	21
	Rain Bird 5-RC 1"	1
X	Isolation Valve Mainline Size	3
BF	Febco 765 2"	1
С	Rain Bird ESP-LXD	1
(D1)	Rain Bird FD-101TURF	21
RS	Rain Bird WR2-RC	1
D2	Rain Bird FD-102TURF (2)	6
POC	Tap 2"	1
	Irrigation Lateral Line: Polyethylene Pipe 1"	12,549 l.f.
	Irrigation Lateral Line: Polyethylene Pipe 1 1/2"	2,444 l.f.
	Irrigation Lateral Line: Polyethylene Pipe 2"	485.0 l.f.
	Irrigation Mainline: PVC Class 160 SDR 26 2 1/2"	3,530 l.f.
	Pipe Sleeve: PVC Class 160 SDR 26 2"	863.9 l.f.
Val	Pipe Sleeve: PVC Class 160 SDR 26 4"	492.9 l.f.
# •	Valve Number	
#" #●	Valve Flow	
L	Valva Siza	

IRRIGATION SPECIFICATIONS

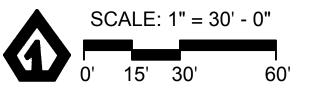
- 1. IRRIGATION SYSTEM DESIGN BASED ON 80 GPM AT 60 PSI.
- 2. IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION(POC)ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE(GPM)AND POUNDS PER SQUARE INCH(PSI)FURNISHED BY OTHERS.
- 3. IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
- 4. THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5 FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
- 5. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.
- 6. IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING TO BE PER LOCAL CODE. BACKFLOW PREVENTION TO BE PER LOCAL CODE.
- 7. LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWING IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY SLIGHTLY AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE.
- 8. ALL SPRINKLER HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISH GRADES. EXCEPT AS OTHERWISE INDICATED.
- 9. INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH MINIMUM 12" OF COVER BASED ON FINISH GRADES.
- 10. PIPE LOCATIONS ARE DIAGRAMMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY.
- 11. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED.
- 12. ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTIONS AND BE IN A VALVE OR SPLICE BOX.
- 13. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 2-WIRE, UL APPROVED DIRECT BURY.
- 14. THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET(AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC...). SITEONE LANDSCAPE SUPPLY BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR INSTALLATION THAT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SITEONE LANDSCAPE SUPPLY LANDSCAPES IN RELATION TO THIS PROJECT, UNLESS OTHERWISE NOTED.
- 15. TWO VALVES SHALL OPERATE SIMULTANEOUSLY.



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City of Sterling Heights

PARKS and RECREATION

project:

Dodge Park

project location:
City of Sterling
Heights, Michigan
Dodge Park Road and
Utica Road

sheet title:

DETAILS

IRRIGATION

job no./issue/revision date:

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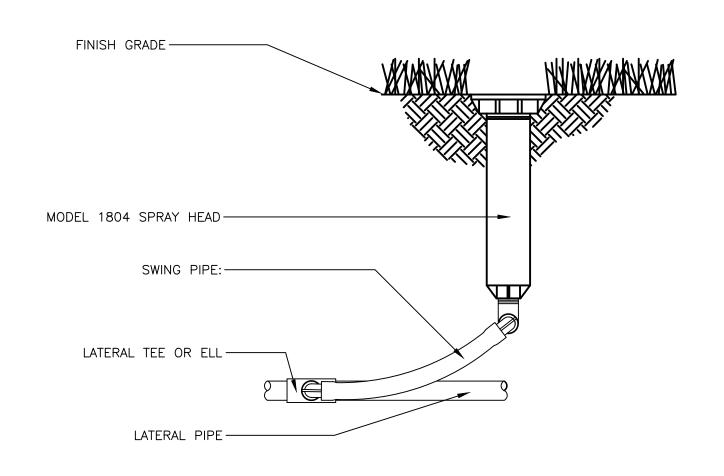


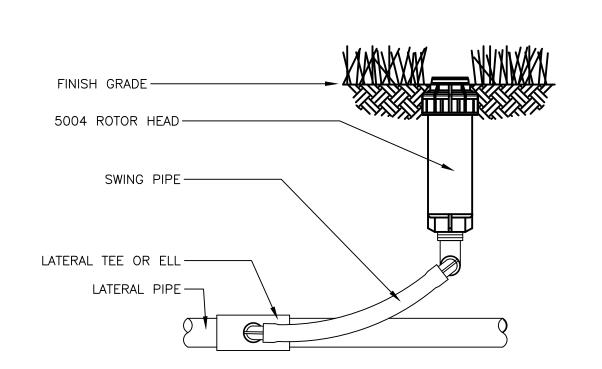
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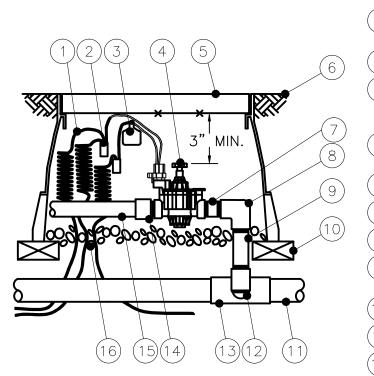
project no: LS17.011.05

sheet no:

IRR-4 of 5







1 30-INCH LINEAR LENGTH OF
WIRE, COILED

2 WATERPROOF CONNECTION:
RAIN BIRD SPLICE-1 (1 OF 2)

3 ID TAG: RAIN BIRD VID SERIES

4 REMOTE CONTROL VALVE:
RAIN BIRD PGA

5 VALVE BOX WITH COVER:
RAIN BIRD VB-STD

6 FINISH GRADE/TOP OF MULCH
7 PVC SCH 80 NIPPLE (CLOSE)

5 VALVE BOX WITH COVER:
RAIN BIRD VB-STD

6 FINISH GRADE/TOP OF MULCH

7 PVC SCH 80 NIPPLE (CLOSE)

8 PVC SCH 40 ELL

9 PVC SCH 80 NIPPLE
(LENGTH AS REQUIRED)

10 BRICK (1 OF 4)

11 PVC MAINLINE PIPE

12 SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL

13 PVC SCH 40 TEE OR ELL

14 PVC SCH 40 MALE ADAPTER

15 PVC LATERAL PIPE

16 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

3/4-INCH WASHED GRAVEL

 3

 8

 10

1 STANDARD VALVE BOX

2 FINISH GRADE

3 DRIP ZONE KIT: MODEL

3 DRIP ZONE KIT: MODEL XCZ-100-PRF FILTER, REGULATOR40 PSI

4 WATERPROOF CONNECTORS (2)

(5) 18-24" COILED WIRE

(6) SCH 80 T.O.E. NIPPLE7) MAIN LINE PIPE & FITTINGS

8 BRICK SUPPORTS (4)

(9) 3/4" MINUS WASHED GRAVEL

(10) PVC SLIP UNIONS

1804 SPRAY HEAD WITH SWING PIPE

S1-SP-RAI-01

5004 ROTOR HEAD WITH SWING PIPE

S1-R0-RAI-01

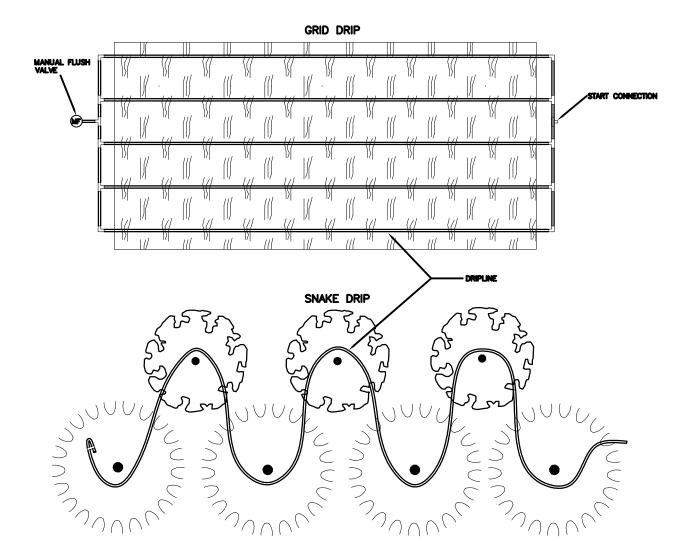
PGA SERIES ELECTRIC VALVE

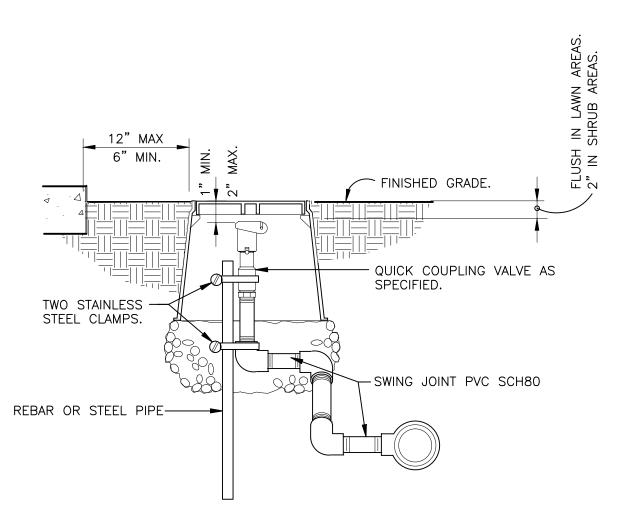
S1-VA-RAI-02

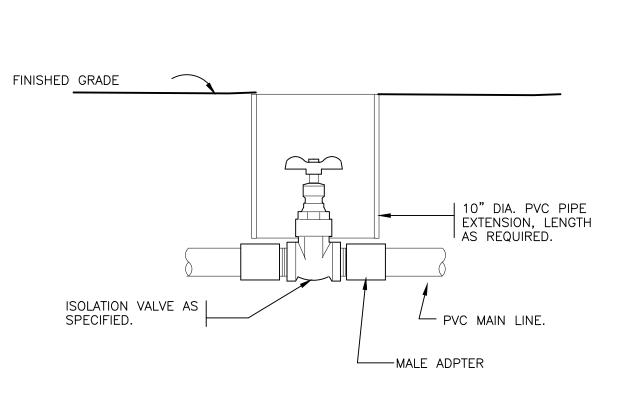
XCZ-100-PRF DRIP ZONE KIT

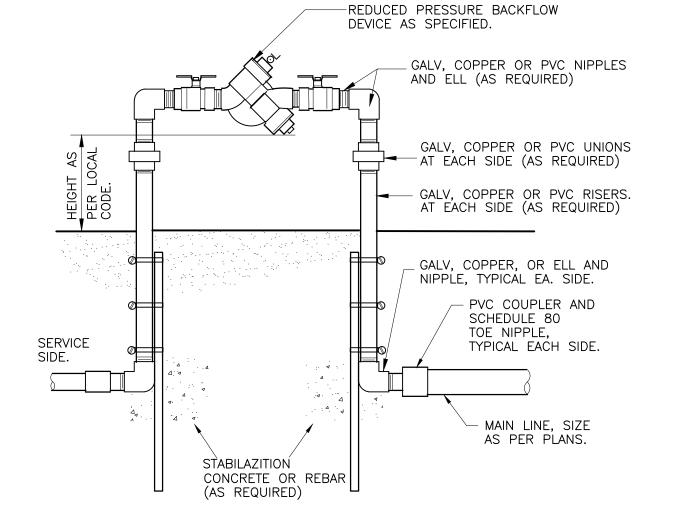
S1-DR-HUN-01

INSTALLATION MAY DIFFER PER LOCAL CODE









TYPICAL DRIP TUBING LAYOUT

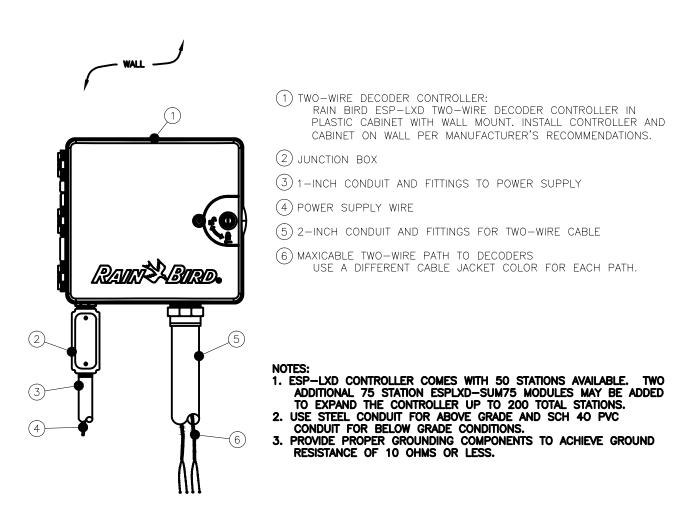
QUICK COUPLING VALVE IN BOX

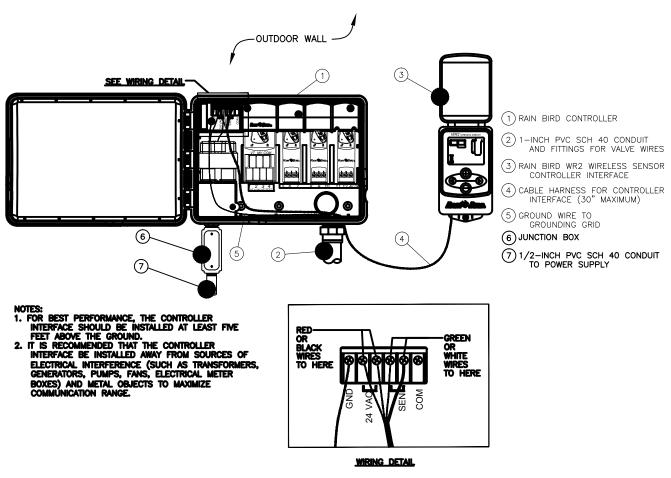
S1-QU-01

\ ISOLATION GATE VALVE

S1-MI-02

REDUCED PRESSURE BACKFLOW DEVICE STANDARD

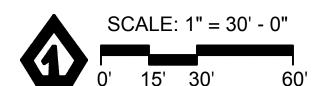






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Design Date: 07-05-17



9 ESP-LXD TWO-WIRE DECODER CONTROLLER

WR2 WIRELESS RAIN SENSOR

NTS

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City of Sterling Heights

PARKS and RECREATION

project:

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IRRIGATION DETAILs

job no./issue/revision date:

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3 WORKING DAYS



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