



STERLING HEIGHTS PARKS & RECREATION

CITY OF Sterling Heights DODGE PARK IMPROVEMENTS

MICHAEL C. TAYLOR

MAYOR

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MAYOR PRO-TEM

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MARIA G. SCHMIDT

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CITY COUNCIL

MARK D. VANDERPOOL

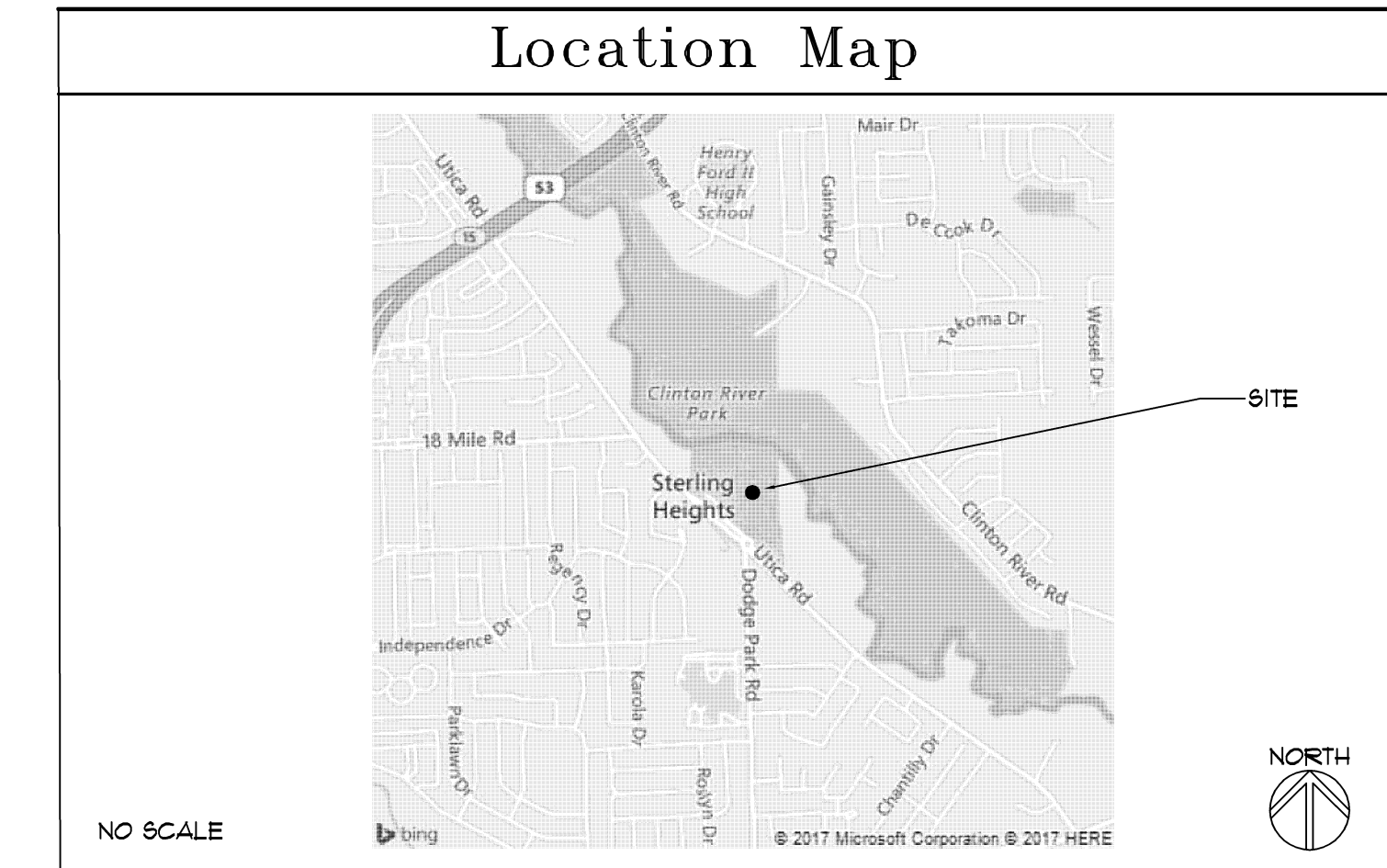
CITY MANAGER

DENICE GERSTENBERG

CITY DEVELOPMENT DIRECTOR

KYLE LANGLOIS

PARKS AND RECREATION DIRECTOR



Construction Notes

- 1) THE CONTRACTOR SHALL NOTIFY THE CITY OF STERLING HEIGHTS ENGINEERING DEPARTMENT, AT (800) 446-2580, 48 HOURS PRIOR TO THE START OF CONSTRUCTION OF PUBLIC UTILITIES OR OF CONSTRUCTION WITHIN CITY RIGHTS-OF-WAY.
- 2) ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF STERLING HEIGHTS WHICH ARE INCLUDED AS PART OF THESE PLANS.
- 3) AFTER THE COMPLETION OF CONSTRUCTION OF PUBLIC UTILITIES OR CONSTRUCTION WITHIN CITY RIGHTS-OF-WAY, THE CONTRACTOR MUST REQUEST A FINAL INSPECTION. ANY PUNCHLIST ITEMS RESULTING FROM THE FINAL INSPECTION MUST BE RESOLVED PRIOR TO FINAL RELEASE AND ACCEPTANCE.
- 4) THE EXISTING UTILITIES INDICATED ON THIS PLAN ARE IN ACCORDANCE WITH AVAILABLE INFORMATION. IT SHALL BE THE CONTRACTOR'S OBLIGATION TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES THAT MIGHT AFFECT THIS JOB.
- 5) THE CONTRACTOR SHALL NOTIFY 'MISS DIG' AT 1-800-MISS-DIG OR 1-800-482-1111, AT LEAST 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 6) THE CONTRACTOR SHALL AT ALL TIMES BE AWARE OF INCONVENIENCE CAUSED TO THE ADJUTING PROPERTY OWNERS AND GENERAL PUBLIC. WHERE UNDUPLICATE INCONVENIENCES ARE NOT REMEDIED BY THE CONTRACTOR, THE CITY, UPON FOUR HOURS NOTICE, RESERVES THE RIGHT TO PERFORM THE NECESSARY WORK AND DEDUCT THE COST THEREFORE FROM THE MONEY DUE THE CONTRACTOR.
- 6) DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE WATCHMEN AND FLAGMEN AS MAY BE REQUIRED FOR THE SAFETY AND CONVENIENCE OF THE PUBLIC AND SHALL FURNISH BARRICADES, SIGNS, AND LIGHTS NECESSARY TO PROTECT THE PUBLIC. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE AUTHORIZED BY THE CITY OF STERLING HEIGHTS. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1994 EDITION BY THE MICHIGAN DEPARTMENT OF STATE HIGHWAYS.
- 7) IN CASES WHERE DETOUR ROADS ARE NECESSARY, TRAFFIC SHALL BE ROUTED OVER ROADS AS DIRECTED BY THE CITY OF STERLING HEIGHTS. IN ALL CASES, THE DETOUR ROADS SHALL BE MAINTAINED WITH DUST CONTROL AND GRADING AS REQUIRED BY THE ENGINEER.
- 8) EXISTING ROADS USED AS HAUL ROUTES SHALL BE APPROVED BY THE CITY OF STERLING HEIGHTS AND THE CONTRACTOR SHALL MAINTAIN THEM WITH GRADING AND DUST CONTROL AS REQUIRED BY THE ENGINEER.
- 9) THE CONTRACTOR IS TO PROVIDE ADEQUATE DUST CONTROL WHEN SUCH A PROBLEM HAS BEEN CAUSED BY HIS CONSTRUCTION OPERATIONS. DUST CONTROL METHODS MUST MEET APPROVAL OF THE CITY.
- 10) ALL PROPERTY IRONS AND MONUMENTS DISTURBED, OR DESTROYED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR PROVIDED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE.
- 11) CONTRACTOR SHALL PROVIDE OWNER AND ENGINEER A COPY OF WRITTEN PERMISSION TO USE PRIVATE PROPERTY FOR STORAGE OF EQUIPMENT AND MATERIALS OR FOR HIS CONSTRUCTION OPERATIONS.
- 12) DRIVEWAYS, CULVERTS, DITCHES, DRAIN TILE, TILE FIELDS, DRAINAGE STRUCTURES, ETC., THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY RESTORED.
- 13) ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESEEDDED WITH MATCHING SOD OR MARION BLUE SOD. ALL OTHER AREAS SHALL BE SEEDED AND MULCHED. SEEDING AND MULCHING SHALL BE DONE IN ACCORDANCE WITH GENERAL SPECIFICATIONS. SEEDING SHALL INCLUDE 4" OF TOPSOIL FOR BOTH FIELD SEEDING AND LAWN SEEDING. PAY ITEM FOR SEEDING INCLUDES A SATISFACTORY GROWTH OF SEED. IF FOR WHATEVER REASON, THE SEED DOES NOT "CATCH" THE FIRST TIME, THEN THE CONTRACTOR IS OBLIGATED TO COME BACK AND RESEED THE AREA AT NO ADDITIONAL COST UNTIL PERMANENT GROWTH IS ESTABLISHED.
- 14) ALL UTILITY POLES IN CLOSE PROXIMITY TO CONSTRUCTION SHALL BE SUPPORTED IN A MANNER SATISFACTORY TO THE UTILITY OWNER.
- 15) DRIVE CULVERTS WHICH ARE REMOVED OR DESTROYED BY THE CONTRACTOR'S OPERATIONS, SHALL BE REPLACED WITH A MINIMUM OF 24 FEET OF 12-INCH CORRUGATED METAL PIPE WITH END SECTIONS. THE EXISTING CULVERT MAY BE REUSED IF IT MEETS CITY STANDARDS.

ARCHITECT:

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CIVIL ENGINEERS:

NOWAK & FRAUS
1310 N. STEPHENSON HWY.
ROYAL OAK, MICHIGAN 48067
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LANDSCAPE ARCHITECT:

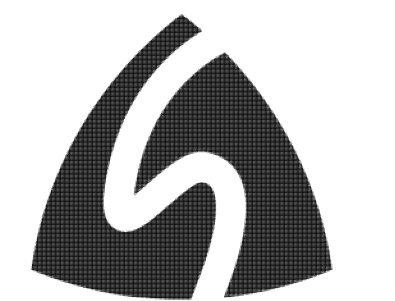
FELINO PASCUAL & ASSOCIATES
24333 ORCHARD LAKE RD., SUITE G
FARMINGTON HILLS, MICHIGAN 48336
PH 248.557.5588
FAX 248.557.5416

MEP ENGINEERS:

STRATEGIC ENERGY SOLUTIONS
4000 WEST 11 MILE ROAD
BERKLEY, MICHIGAN 48072
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FAX 248.399.1901

STRUCTURAL ENGINEER:

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CLARKSTON, MI 48346
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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

drawn by

checked by

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
project

Cover Sheet
Construction Notes
Location Map
sheet title

Dorchen/Martin Associates, Inc.
Architects/Planners
29895 Greenfield Rd., Suite 107
Southfield, Michigan 48076
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job no.

sheet no.

16078A T001

Project Data

Table containing project data for Governing Codes, Amphitheater, Farmers Market, and other specifications.

Sheet Index

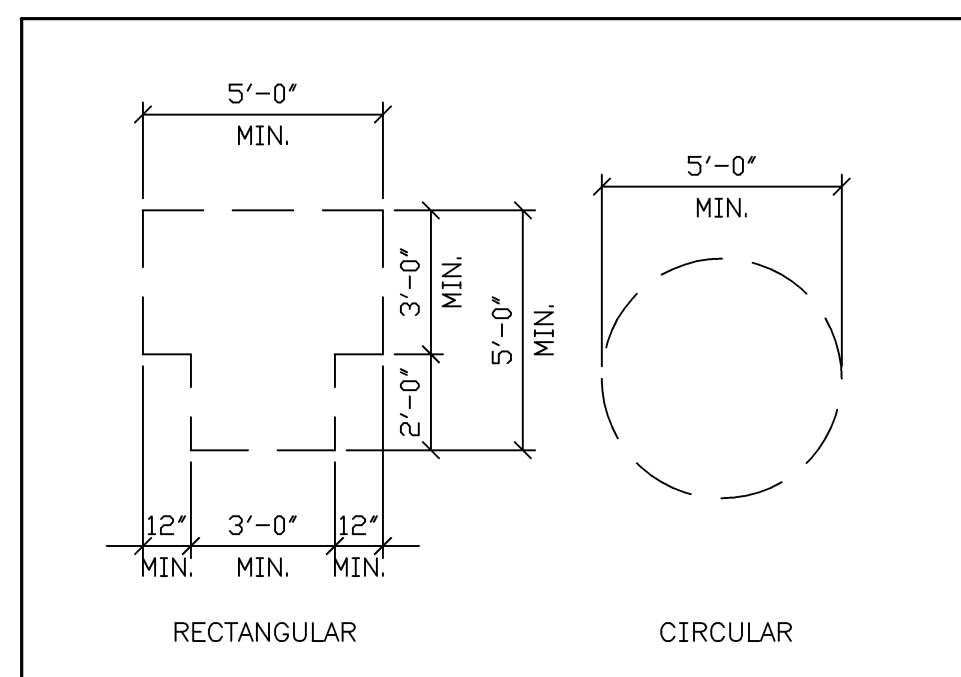
Table listing sheet numbers and descriptions, categorized by Civil, Mechanical, Electrical, Landscapes, and Amphitheater.

Sheet Index

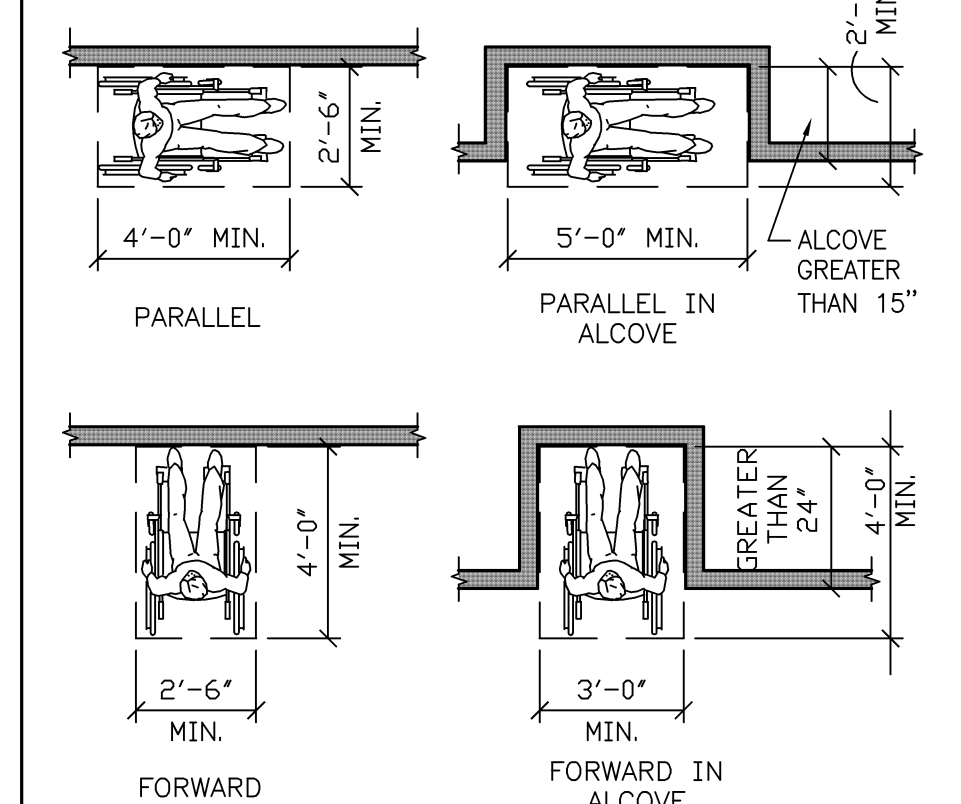
Table listing sheet numbers and descriptions, categorized by Farmers Market and Ticket Booth.



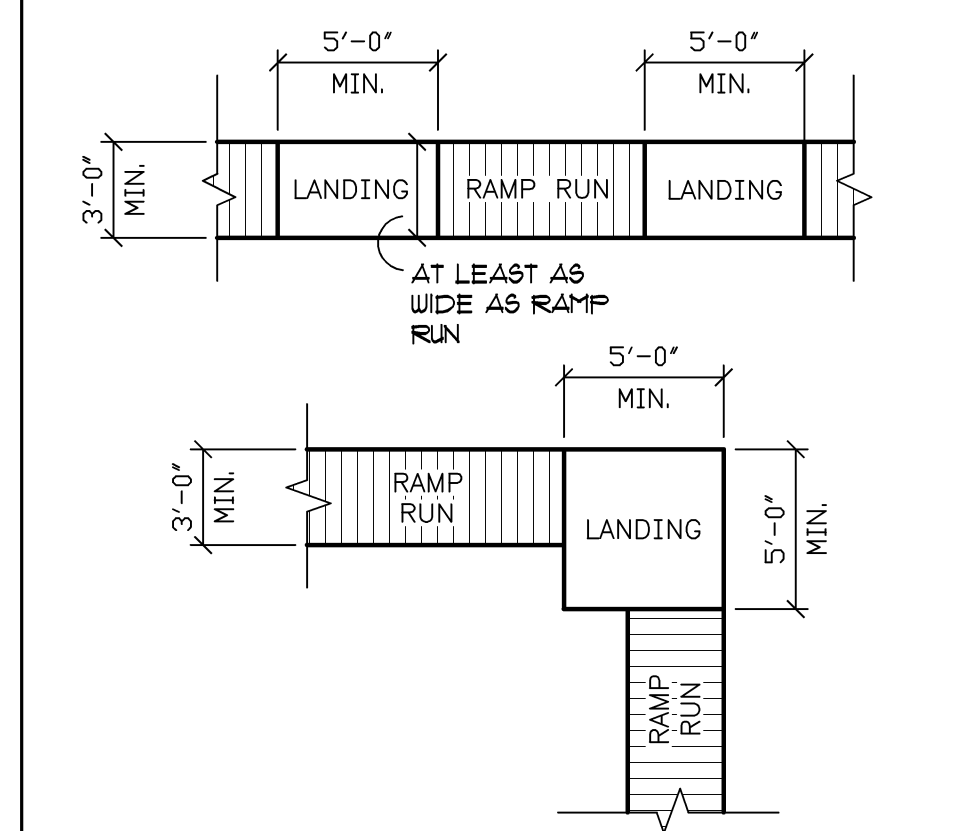
Table with two columns: issue / revision date and description (Prelim. Review, City Review, Bids).



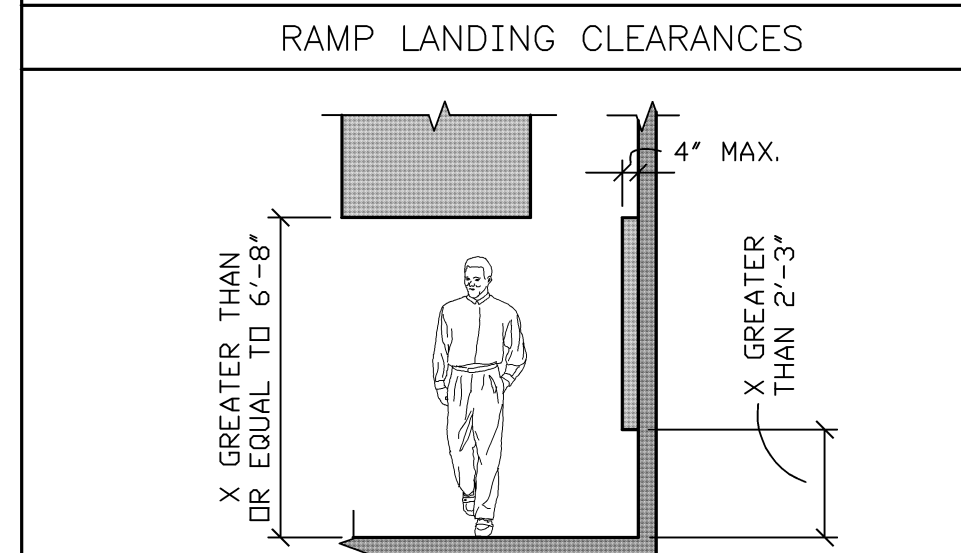
WHEELCHAIR TURNING SPACE



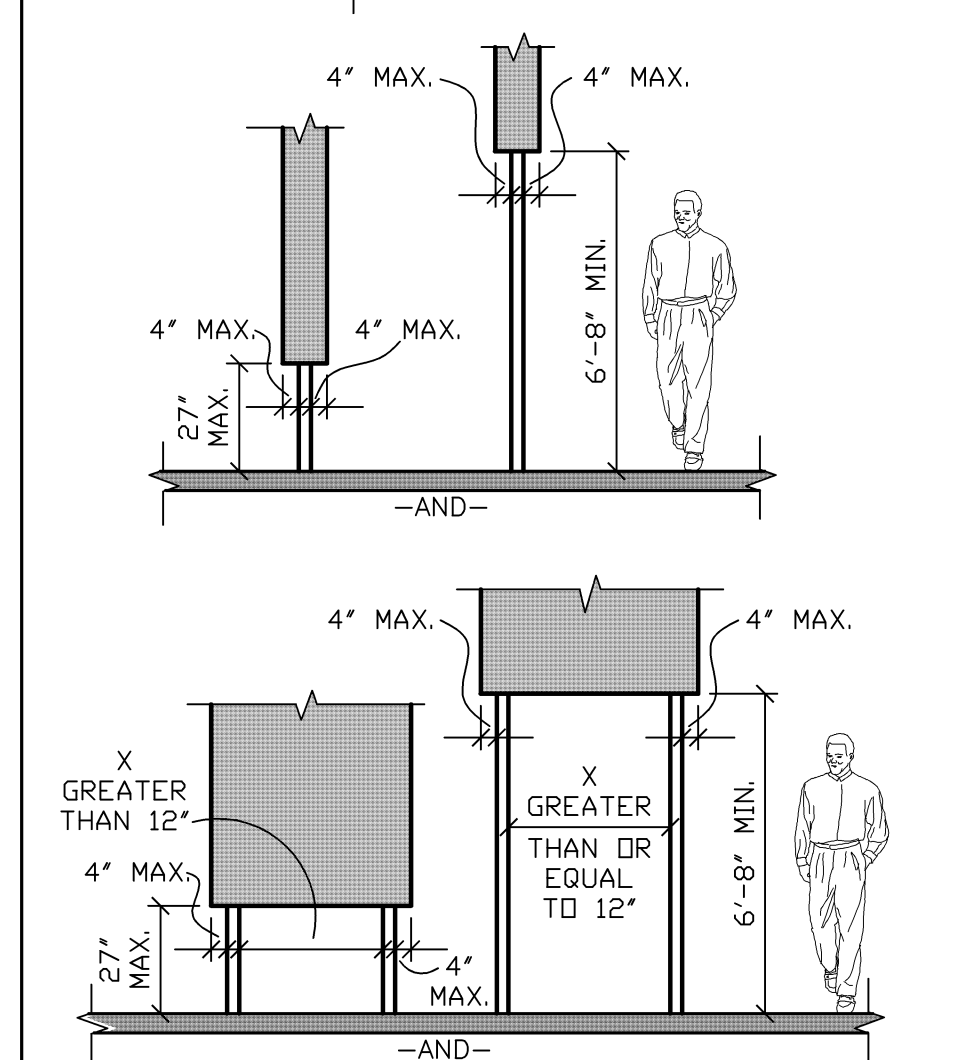
CLEAR FLOOR OR GROUND SPACE



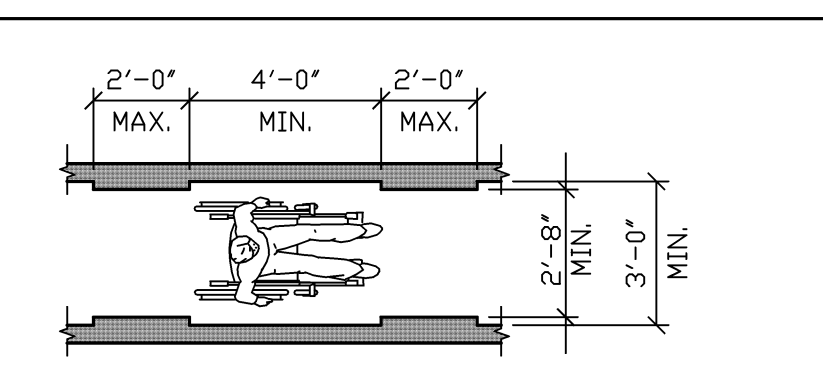
CLEAR WIDTH AT TURN



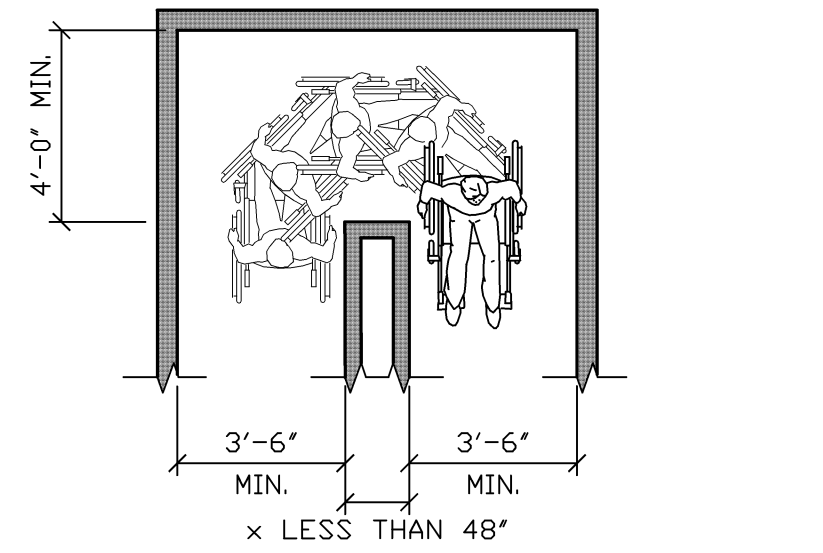
RAMP LANDING CLEARANCES



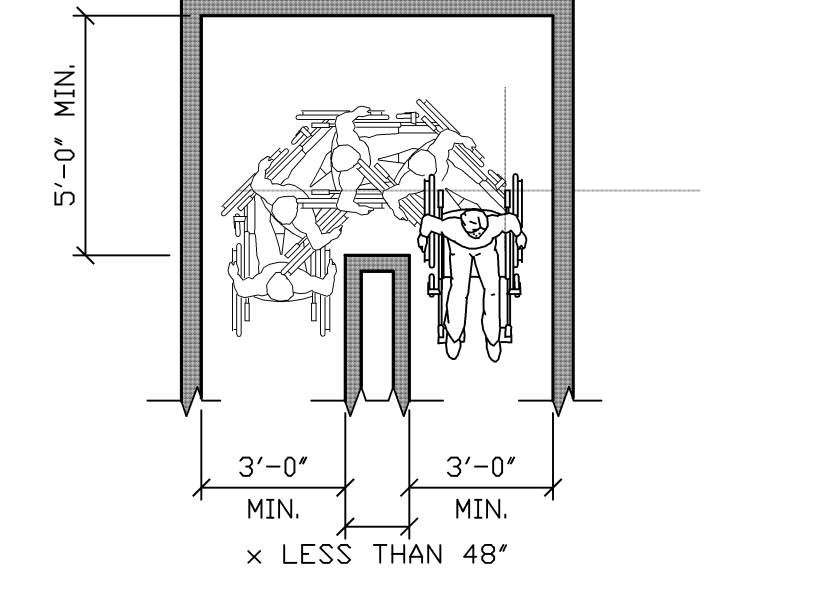
LIMITS OF PROTRUDING OBJECTS



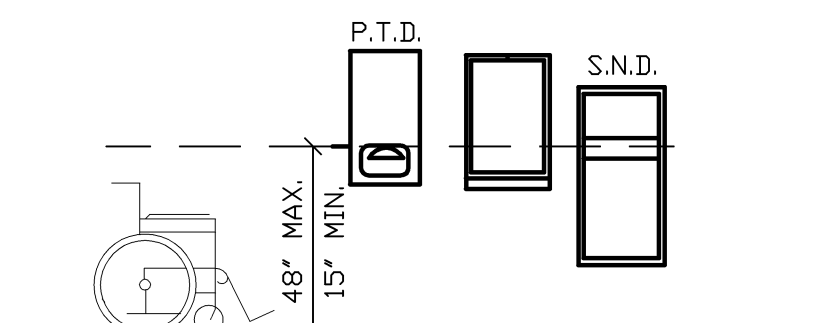
CLEAR WIDTH OF ACCESSIBLE ROUTE



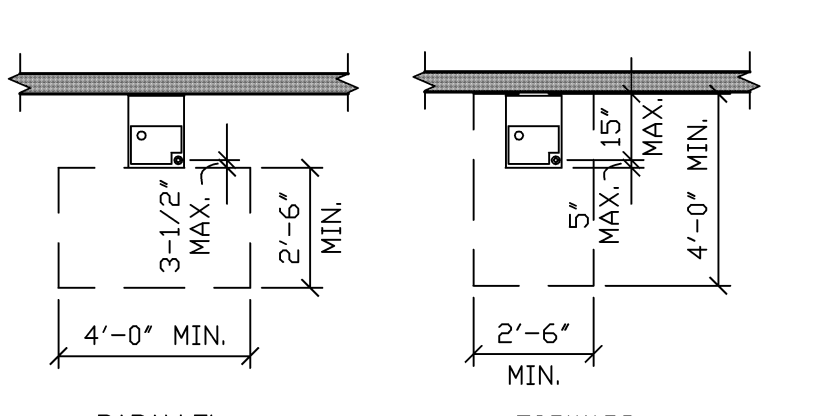
DOOR AND DOORWAY MANEUVERING CLEARANCES



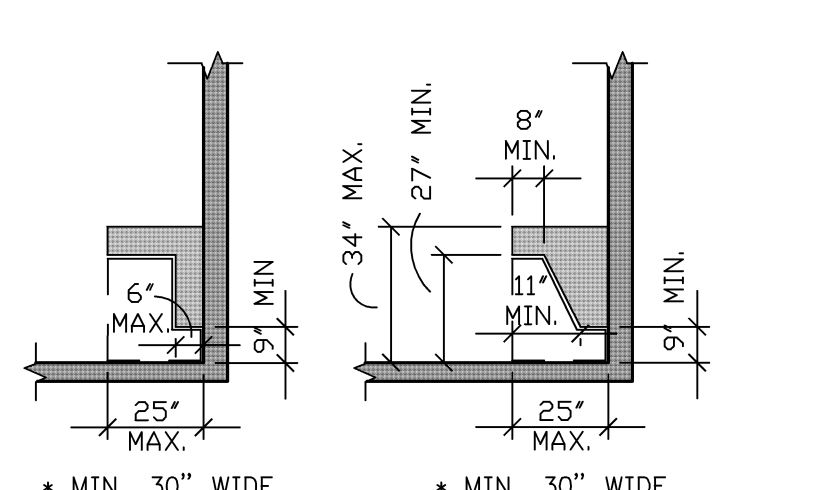
TWO DOORS IN SERIES



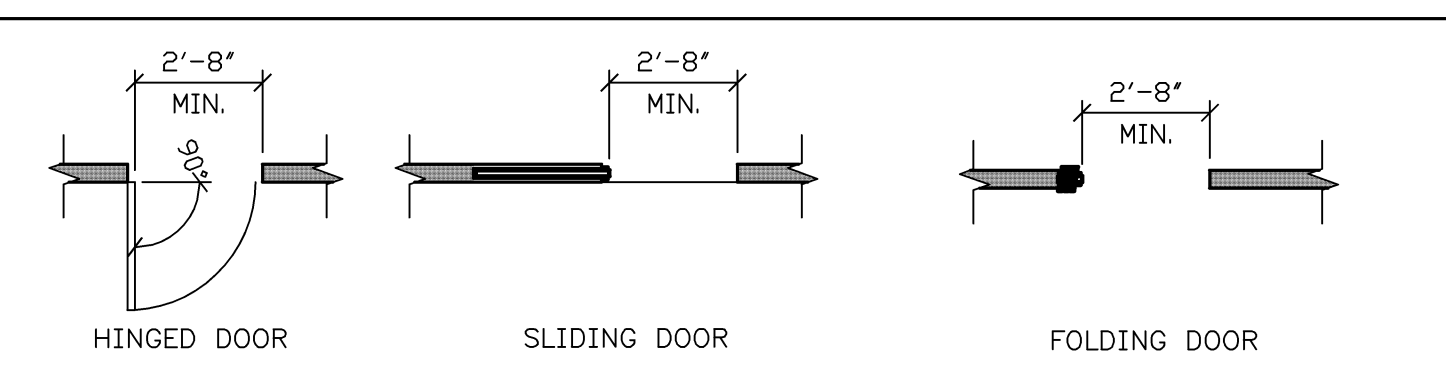
MOUNTING HEIGHT FOR ACCESSIBILITY



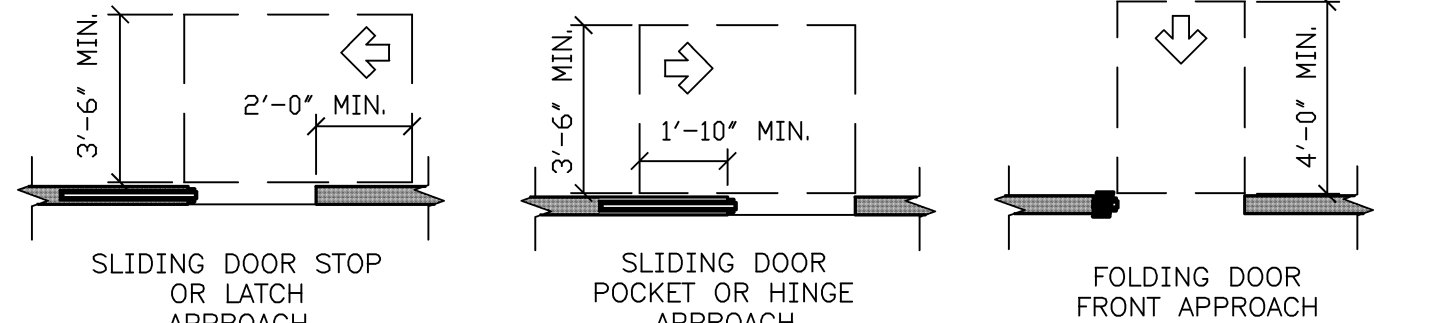
DRINK FOUNTAIN FLOOR CLEARANCE WHEELCHAIR ACCESS



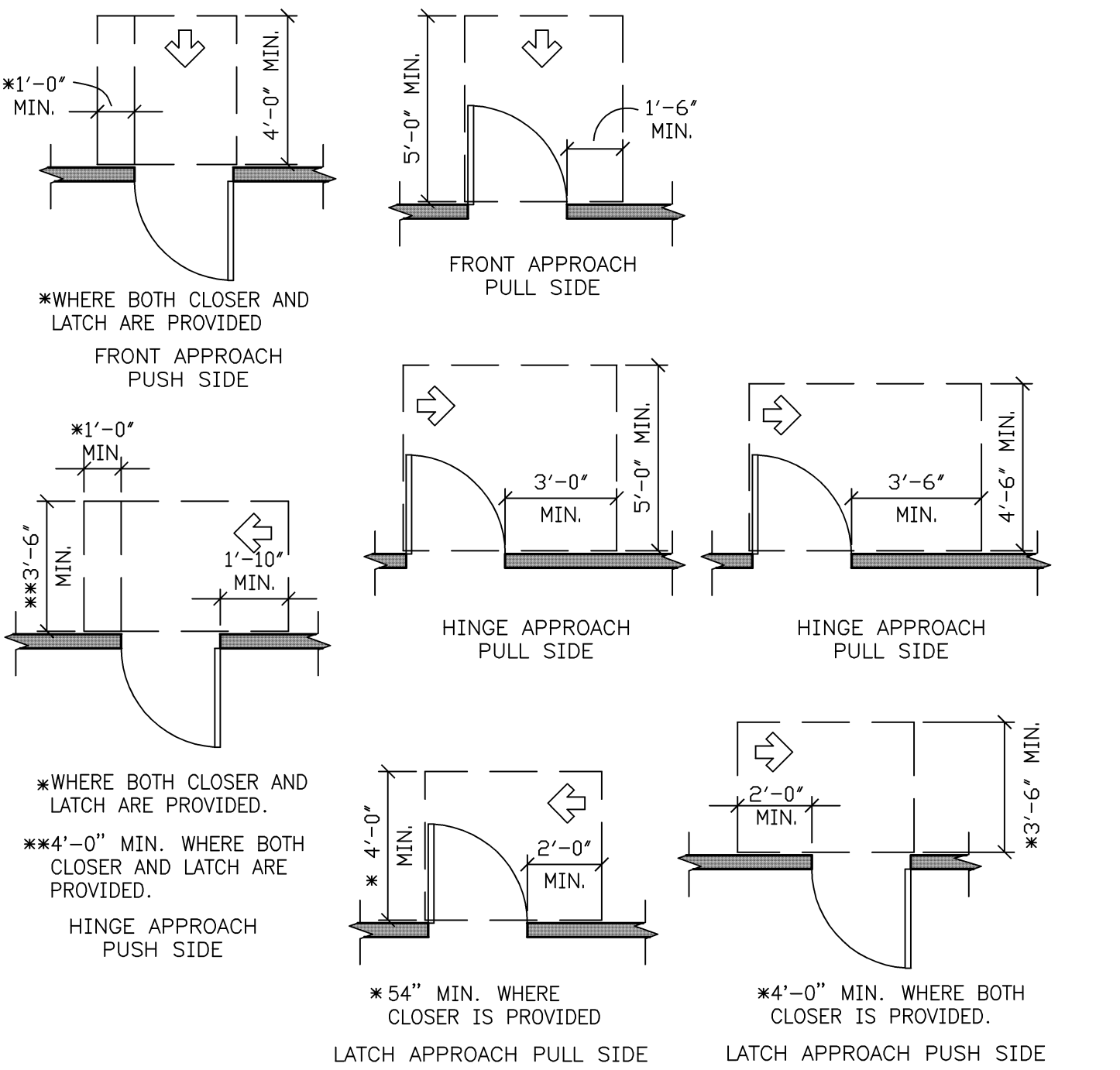
TOE CLEARANCE KNEE CLEARANCE



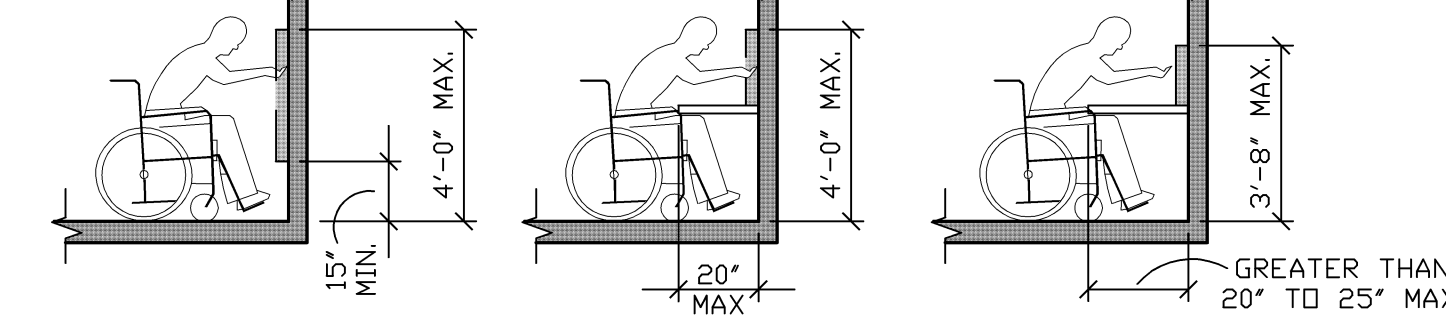
DOOR AND DOORWAY OPENINGS



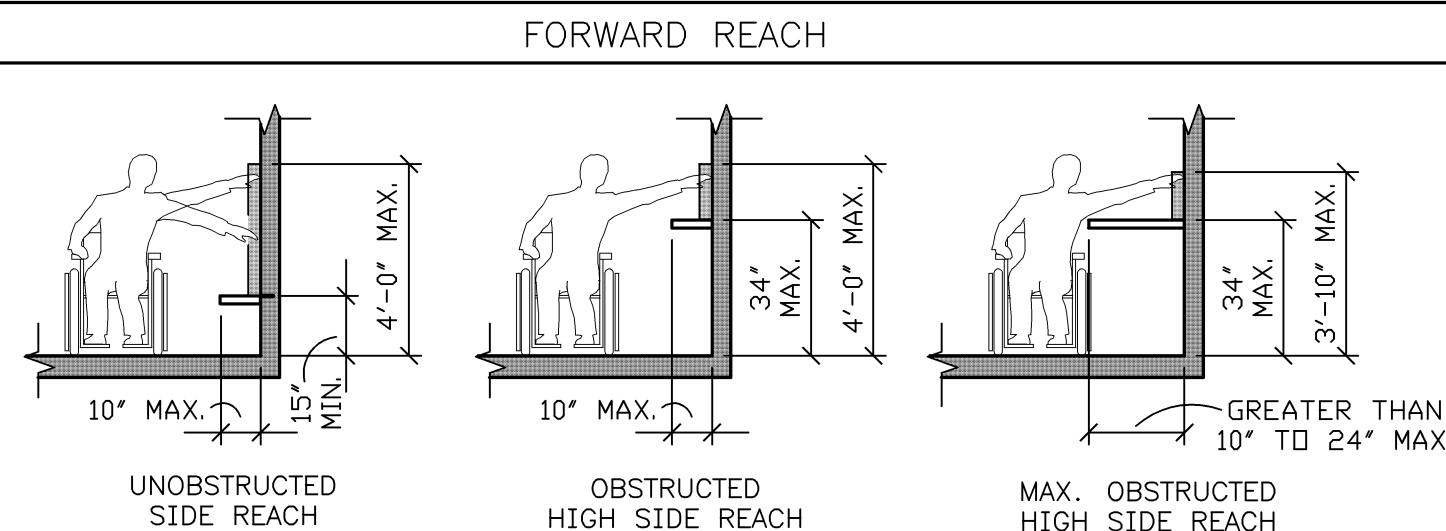
DOOR AND DOORWAY MANEUVERING CLEARANCES



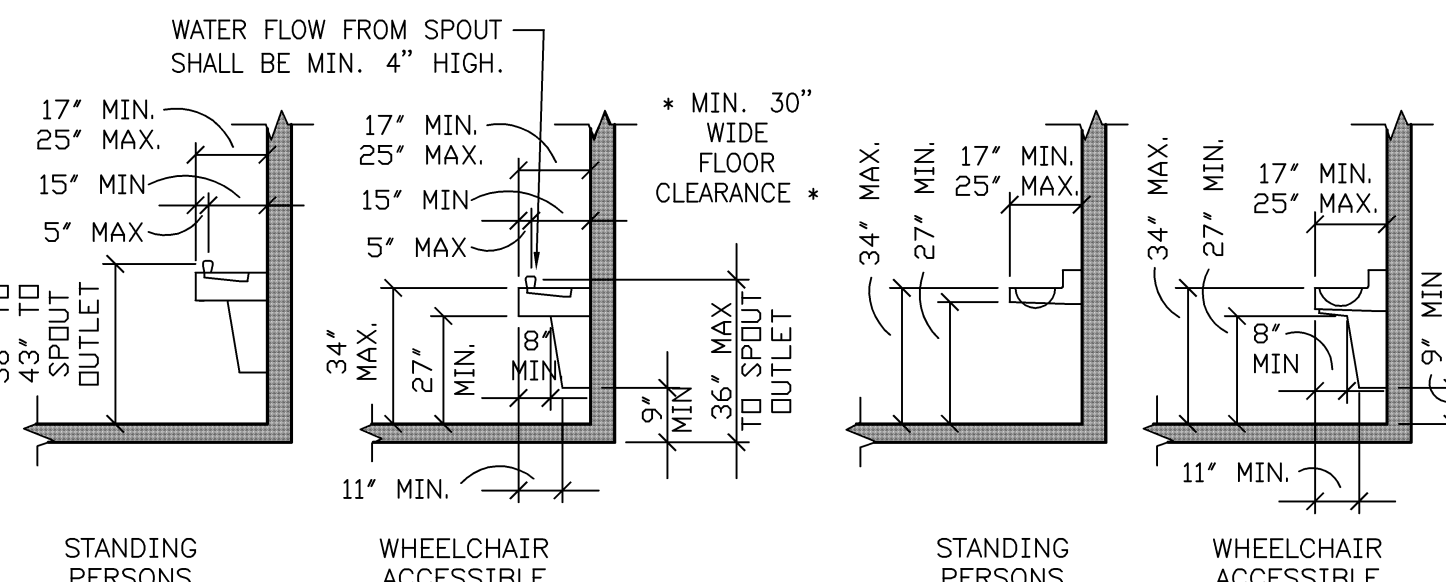
SWINGING DOOR MANEUVER CLEARANCES



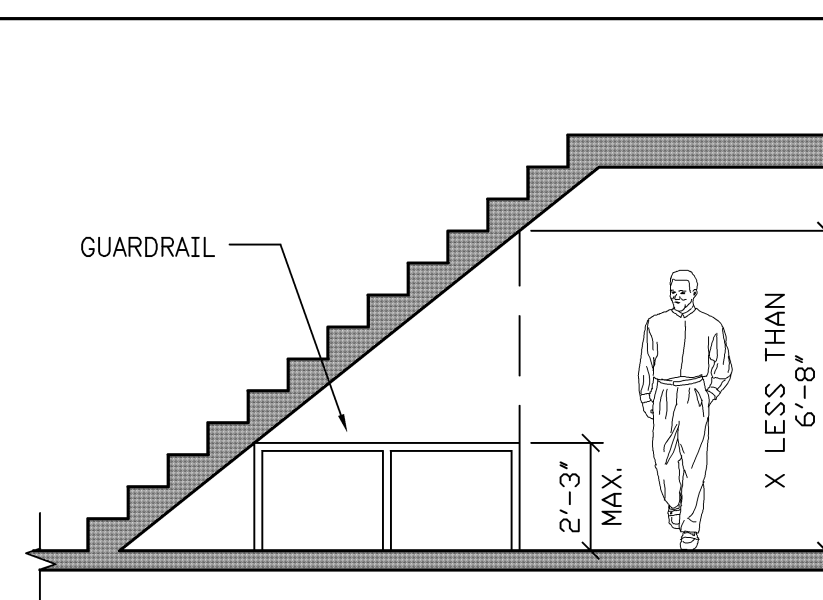
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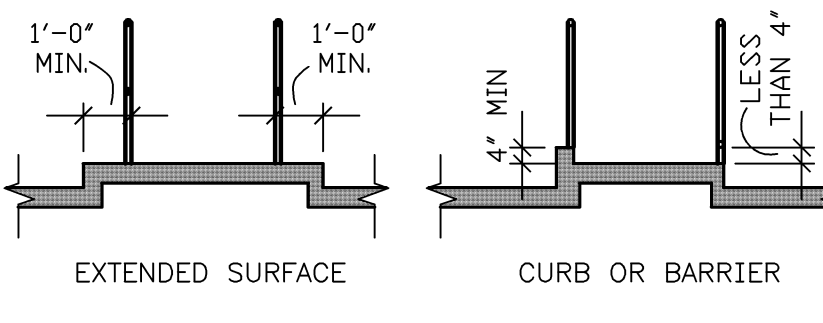
SIDE REACH



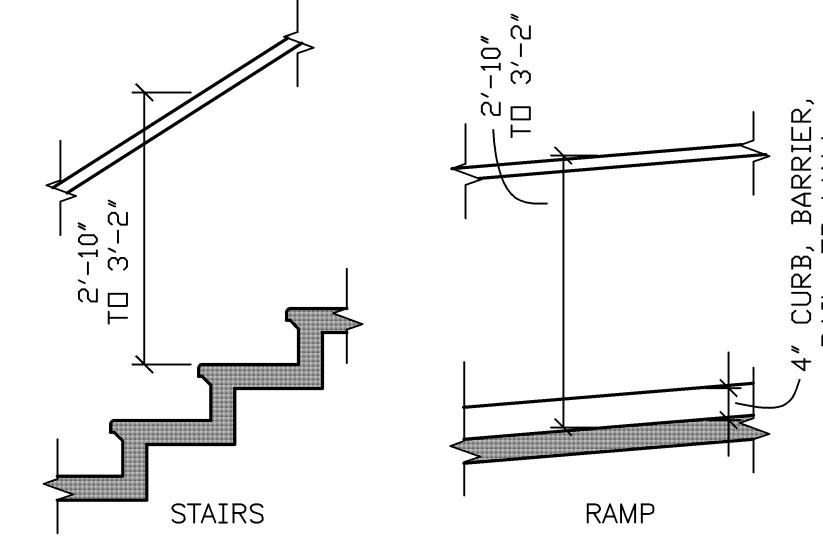
DRINKING FOUNTAIN CLEARANCES LAVATORIES & SINK CLEARANCES



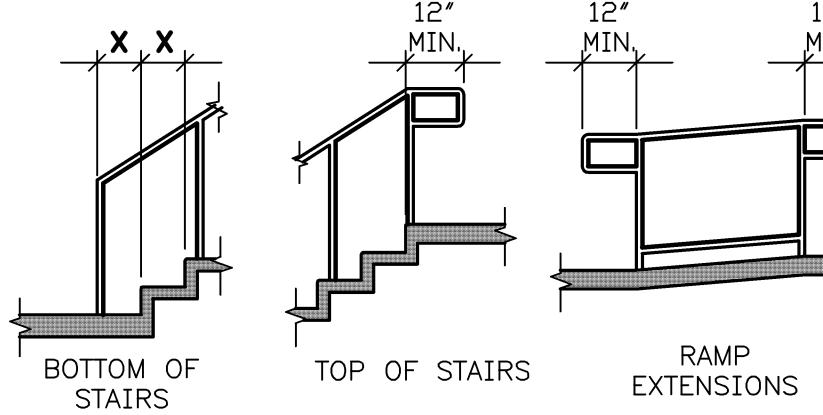
REDUCED VERTICAL CLEARANCE



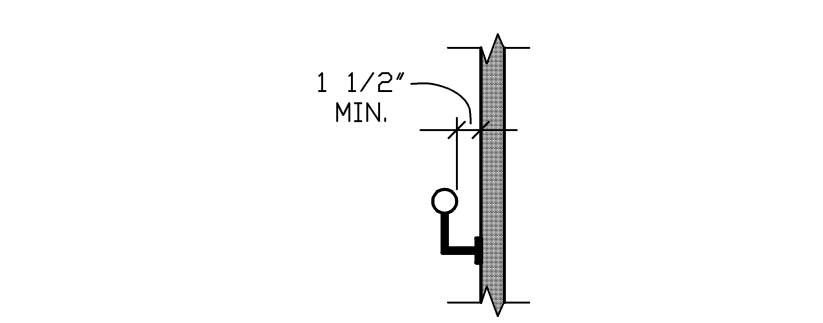
RAMP EDGE PROTECTION



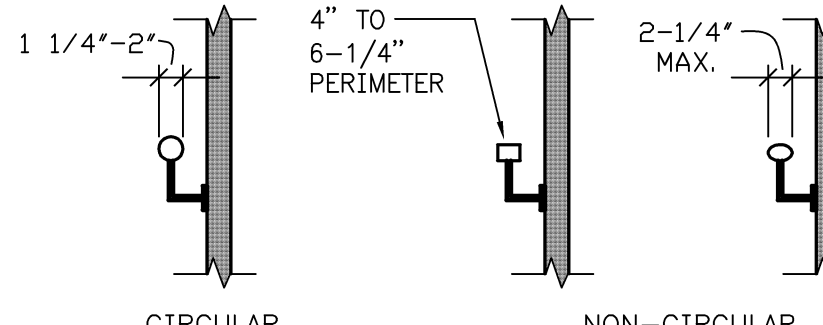
HANDRAIL HEIGHT



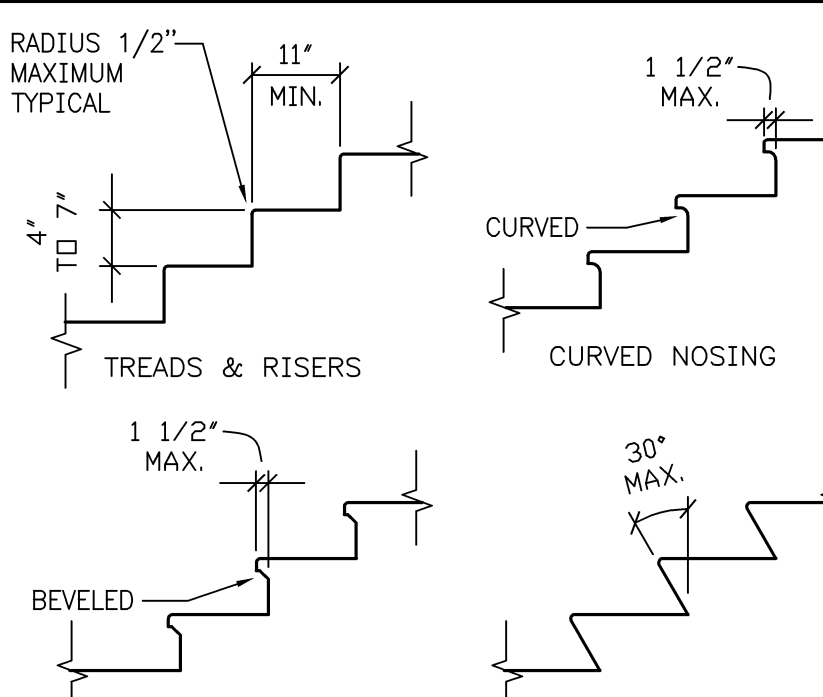
HANDRAIL EXTENSIONS AT STAIRS & RAMP



HANDRAIL CLEARANCE



HANDRAIL CROSS SECTION



STAIRS

REST ROOM / TOILETS - SEE TOILET FIXTURE SHEET & SCHEDULE

URINAL
* STANDARD FORWARD APPROACH CLEAR FLOOR SPACE REQUIRED.
* FLUSH VALVE 48" MAX. ABOVE FINISHED FLOOR.
* BOTTOM RIM TO BE 17" ABOVE FLOOR, MAX.

BABY CHANGER
* AS INDICATED ON THE PLANS, SEE DIAGRAMS

WALL FIXTURES
* SEE DIAGRAMS

FLOOR DRAINS
* AS INDICATED ON THE PLANS

TOILET STALL
* SEE DIAGRAMS

DOOR TO STALL
* 32" WIDE MIN. CLEAR, WITH TYPICAL FLOOR CLEARANCE & HARDWARE

WATER CLOSET SEAT
* 17" TO 19" ABOVE FIN. FLOOR.

TOILET PAPER DISPENSER
* SEE DIAGRAMS

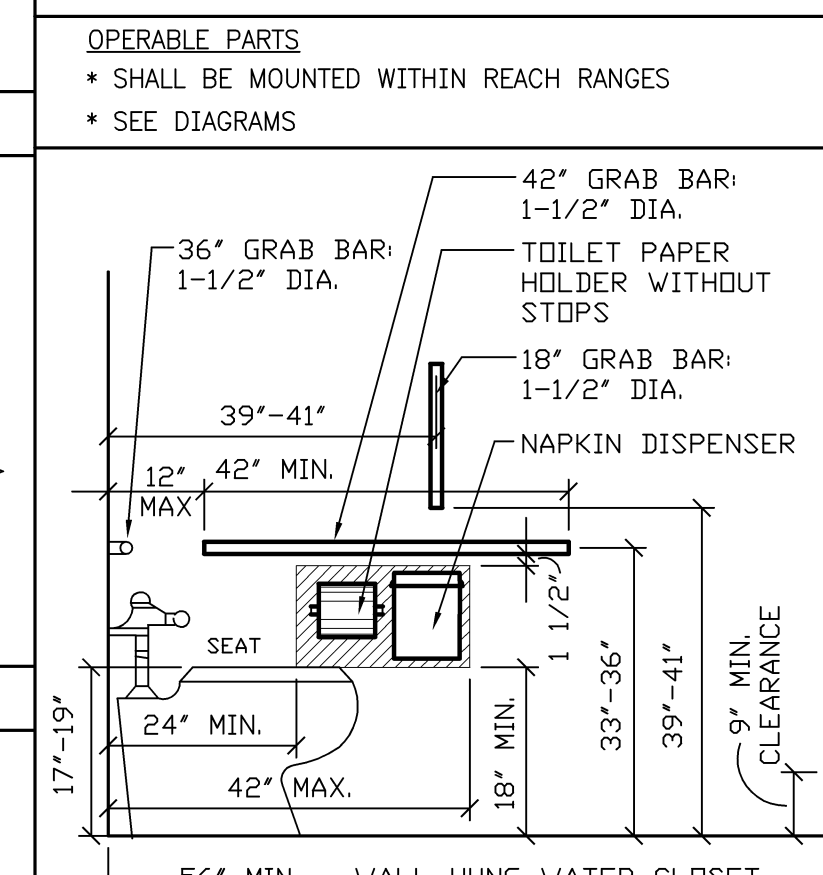
GRAB BARS
* MAX. HEIGHT 36" ABOVE FIN. FLOOR, HORIZ. MIN. HEIGHT 33" ABOVE FIN. FLOOR, HORIZ.
* 1-1/4" TO 2" DIAMETER AND 1-1/2" CLEAR SPACE FROM WALL.
* 42" MIN. LENGTH AT SIDES AND 36" MIN. LENGTH BEHIND W.C.
* VERTICAL SLIDE BAR PER DIAGRAMS

STALL COAT HOOK
* 40"-48" MAX. HEIGHT ABOVE FIN. FLOOR.

SHELF
* 40"-48" ABOVE FIN. FLOOR.

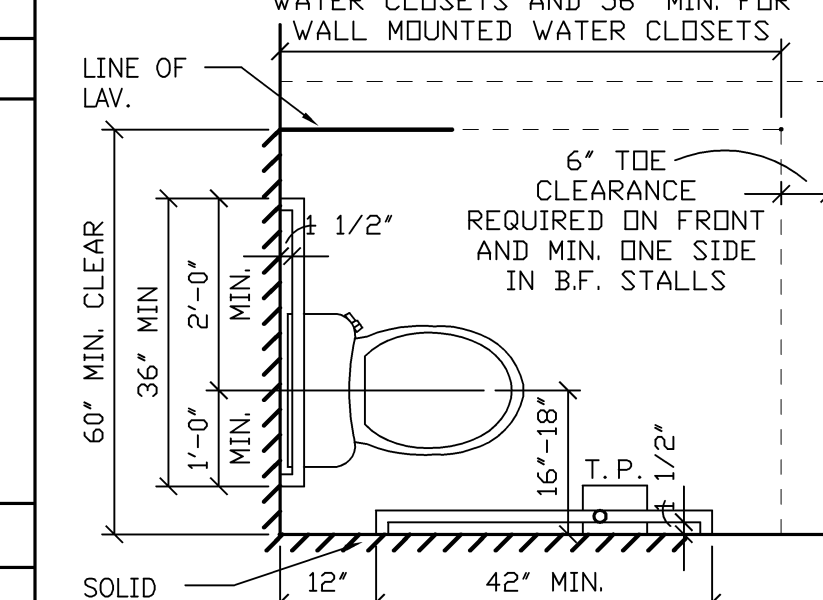
MIRROR
* BOTTOM EDGE OF MIRROR MAX. HEIGHT 40" ABOVE FLOOR.

OPERABLE PARTS
* SHALL BE MOUNTED WITHIN REACH RANGES
* SEE DIAGRAMS

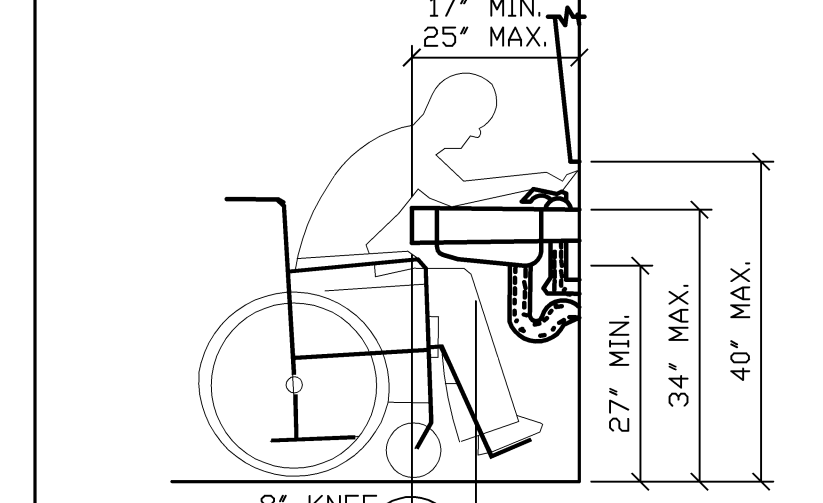


TYPICAL HANDICAPPED TOILET ELEVATION / N.T.S.

59 MIN. FOR FLOOR MOUNTED WATER CLOSETS AND 56" MIN. FOR WALL MOUNTED WATER CLOSETS.



MOUNTING HEIGHT FOR ACCESSIBILITY



MOUNTING HEIGHT FOR ACCESSIBILITY

BARRIER FREE REQUIREMENT NOTES
* TO COMPLY WITH APPLICABLE BUILDING CODES
FLOOR AND GROUND SURFACE
* CHANGES IN VERTICAL HEIGHT 1/4" MAX.
* VERTICAL CHANGES BETWEEN 1/4" AND 1/2" MAY BE BEVELED WITH SLOPE NOT GREATER THAN 1:2
* VERTICAL CHANGES GREATER THAN 1/2" MUST BE RAMPED.
* SEE PLANS

WHEELCHAIR TURNING SPACE
* SEE DIAGRAMS

CLEAR FLOOR OR GROUND SPACE
* FLOOR SLOPE NO STEEPER THAN 1:48
* SEE DIAGRAMS

ACCESSIBLE ROUTES
* FLOOR SLOPE NO STEEPER THAN 1:20
* CROSS SLOPE NO STEEPER THAN 1:48
* ROUTES LESS THAN 60" CLEAR IN WIDTH MUST HAVE PASSING SPACES AT 200" MAXIMUM INTERVALS. SIZE TO BE 60" x 60" MIN. OR TYPICAL T-SHAPED TURNING SPACE PROVIDED THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND A MINIMUM 48" BEYOND THE INTERSECTION.
* WIDTHS: ROUTE LENGTHS LESS THAN OR EQUAL 24" SHALL BE 32" WIDE MINIMUM. ROUTE LENGTHS GREATER THAN 24" SHALL BE 36" WIDE MINIMUM.
* SEE DIAGRAMS

DOORS AND DOORWAYS
* CLEAR FLOOR SPACE VARIES
* SEE DIAGRAMS

RAMP
* RAMP SLOPE NO STEEPER THAN 1:12
* CROSS SLOPE NOT GREATER THAN 1:48
* CLEAR WIDTH OF RAMP RUN IS 36" MIN.
* VERTICAL RISE GREATER THAN 6" SHALL HAVE HANDRAIL, WALL, OR BARRIER TO PREVENT PASSAGE OF 4" DIA. SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4" OF FLOOR SURFACE.
* FLOOR SURFACE OF RAMP OR LANDING SHALL EXTEND 12" BEYOND INSIDE FACE OF HANDRAIL
* MAXIMUM VERTICAL RISE FOR A RAMP RUN IS 30"
* SEE DIAGRAMS

HAND RAILS
* HEIGHT SHALL BE 34" MIN. TO 38" MAX. ABOVE TREAD NOSING.
* FOR HAND RAIL CROSS SECTIONS SEE DIAGRAMS.
* SEE DIAGRAMS

PROTRUDING OBJECTS
* SEE DIAGRAMS

REACH DISTANCES
* SEE DIAGRAMS

DRINKING FOUNTAINS
* STANDARD FORWARD APPROACH CLEAR FLOOR SPACE REQUIRED.
* UNITS WITH WATER SPOUT WITHIN 3" OF FRONT OF UNIT SHALL HAVE STREAM ANGLE 30 DEGREES MAX.
* UNITS WITH WATER SPOUT 3" TO 5" OF FRONT OF UNIT SHALL HAVE STREAM ANGLE 15 DEGREES MAX.
* SHALL COMPLY WITH OPERABLE PARTS
* TWO UNITS REQUIRED: ONE EACH FOR BOTH STANDING USERS AND WHEELCHAIR ACCESSIBLE.
* SEE DIAGRAMS

LAVATORIES & SINKS
* STANDARD FORWARD APPROACH CLEAR FLOOR SPACE REQUIRED.
* MAX. HEIGHT 34" ABOVE FIN. FLOOR TO TOP OF RINK. CLEARANCE TO BOTTOM OF APRON 27" HIGH.
* CONTROL VALVE TO BE LEVER TYPE.
* ENCLOSE OR INSULATE ALL EXPOSED PIPING BELOW LAVATORIES TO MEET BARRIER FREE REQUIREMENTS.
* SEE DIAGRAMS

KNEE & TOE CLEARANCE
* MINIMUM 30" WIDE, SEE DIAGRAMS

BARRIER FREE DOOR HARDWARE NOTES:

HANDLES, PULLS, LATCHES, LOCKSETS AND OTHER OPERATING MECHANISMS ON ENTRANCE DOORS, TOILET ROOM DOORS, AND OTHER DOORS WHICH ARE A PART OF AN ACCESSIBLE ROUTE, SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND WHICH DOES NOT REQUIRE A TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
ALL DOORS SHALL BE OPERATED BY A SINGLE EFFORT.
EXTERIOR SWINGING DOORS SHALL BE OPERABLE BY A FORCE NOT MORE THAN 8.5 POUNDS APPLIED TO THE LATCH STILE.
INTERIOR SWINGING DOORS SHALL BE OPERABLE BY A FORCE OF NOT MORE THAN 5 POUNDS.
HARDWARE SHALL BE INSTALLED BETWEEN 34"-48" ABOVE FINISH FLOOR.

architect seal

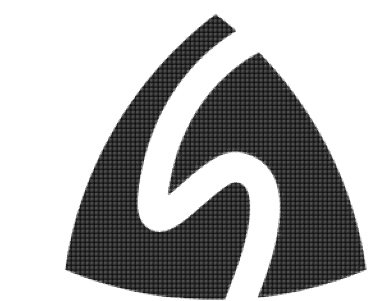


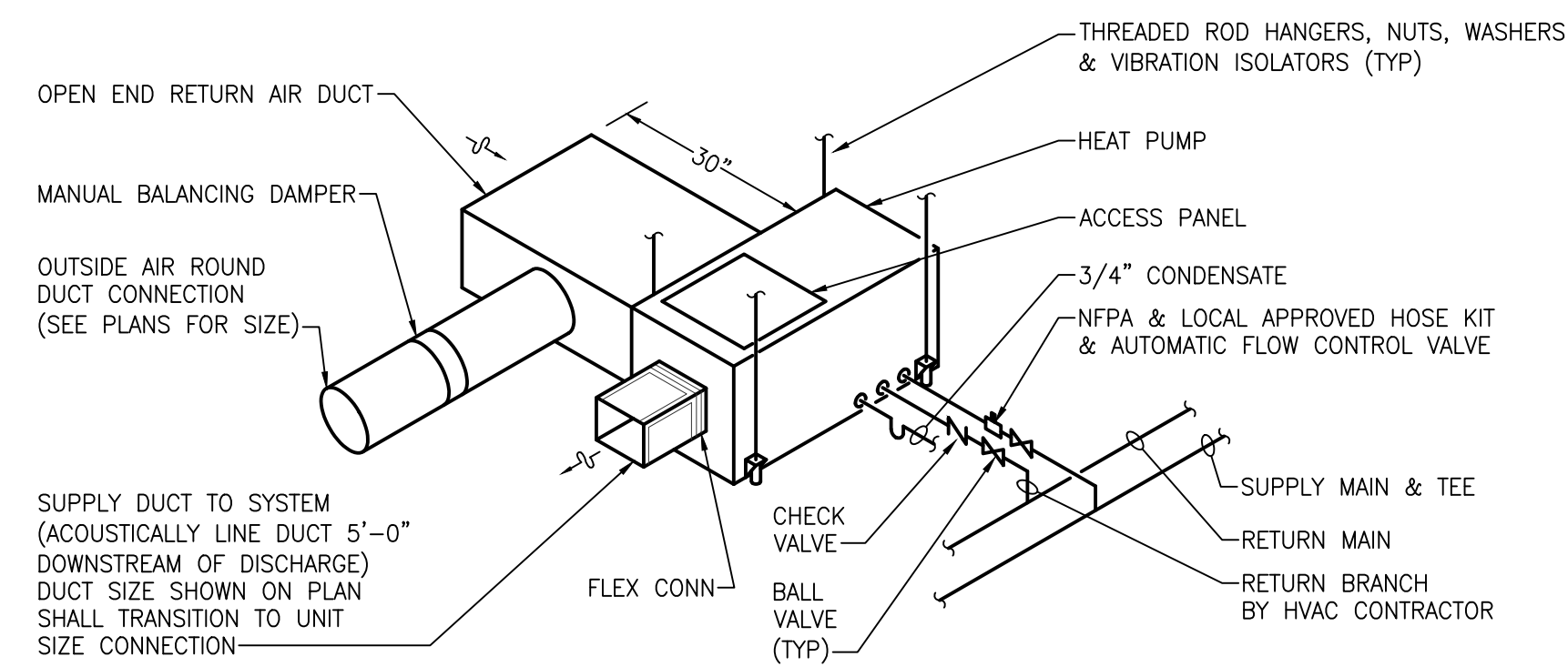
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drawn by checked by

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
Barrier Free Standards
project sheet title

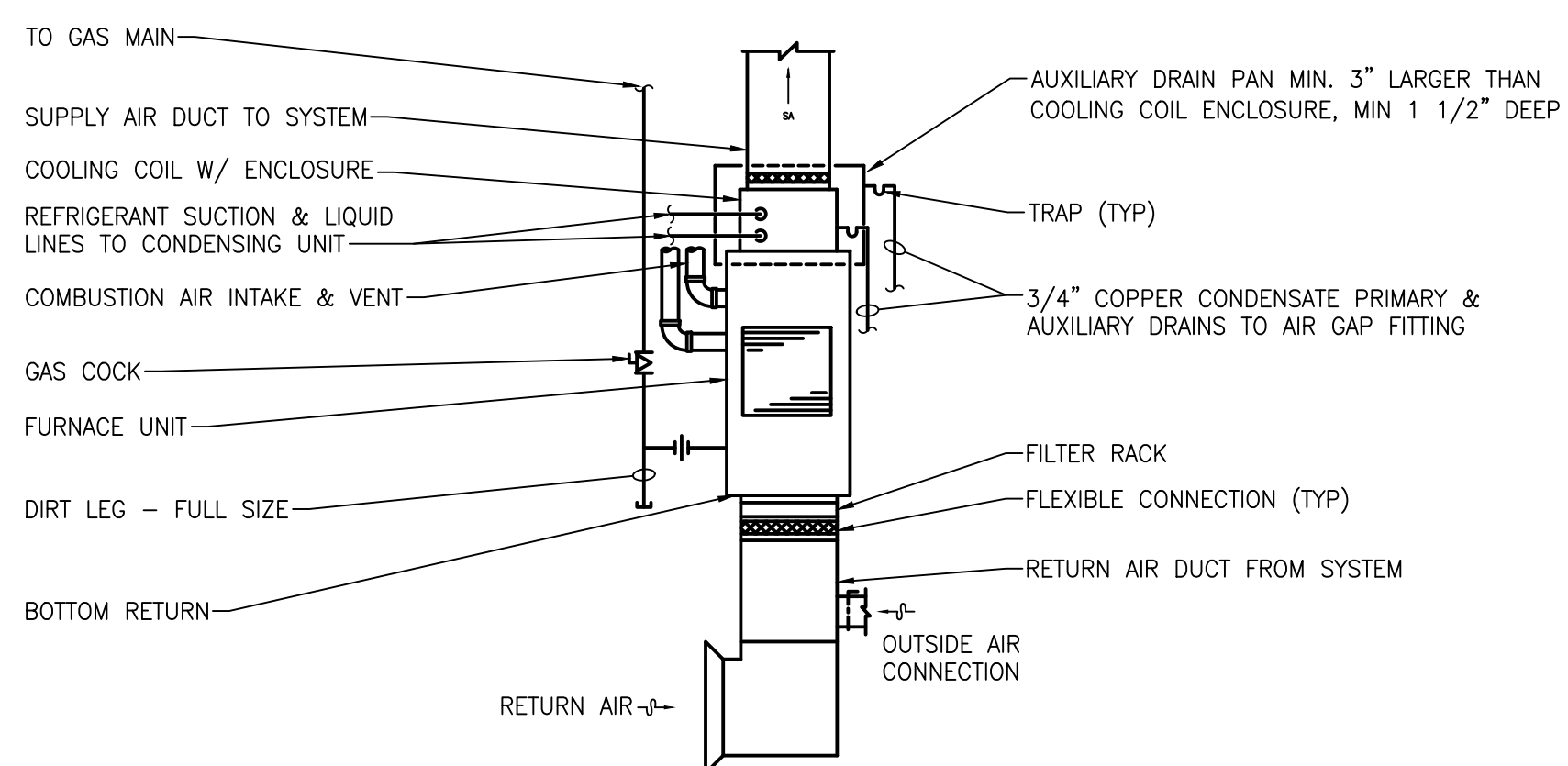
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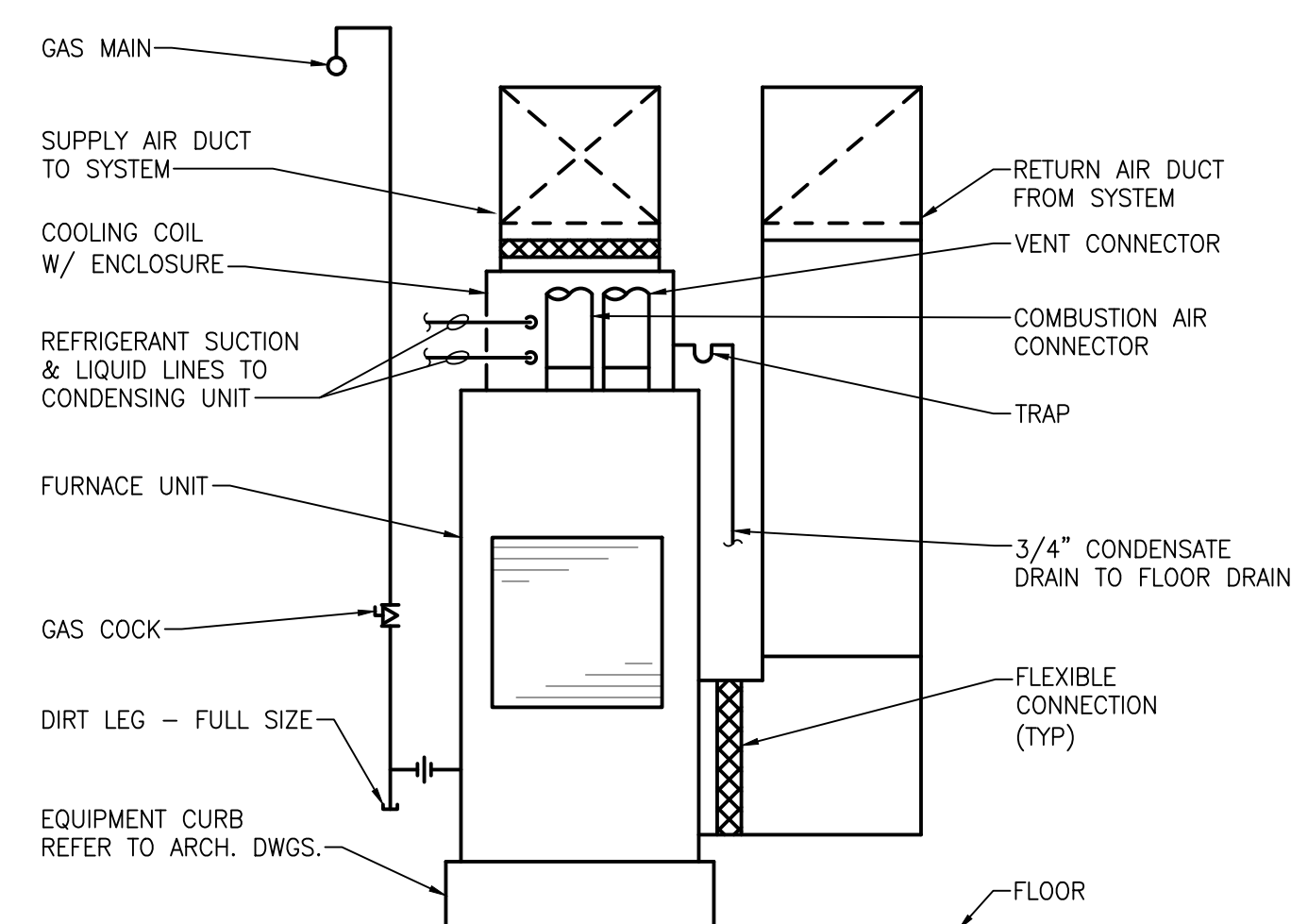
HORIZONTAL HEAT PUMP INSTALLATION DETAIL

NO SCALE



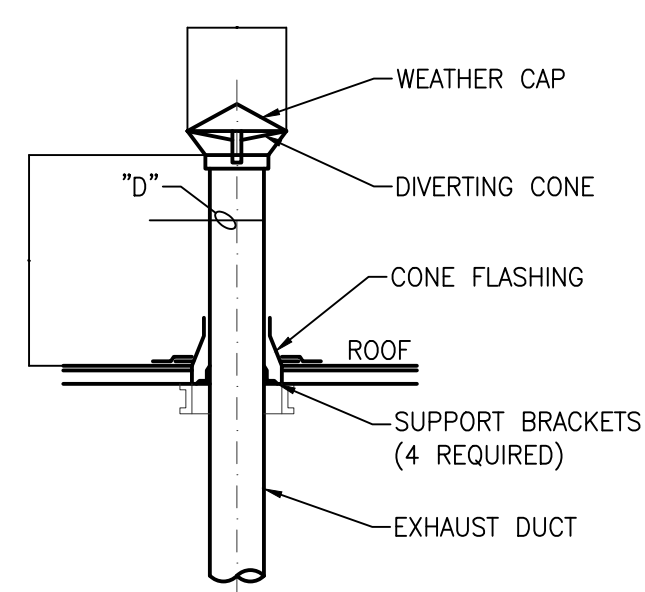
HORIZONTAL GAS FURNACE DETAIL

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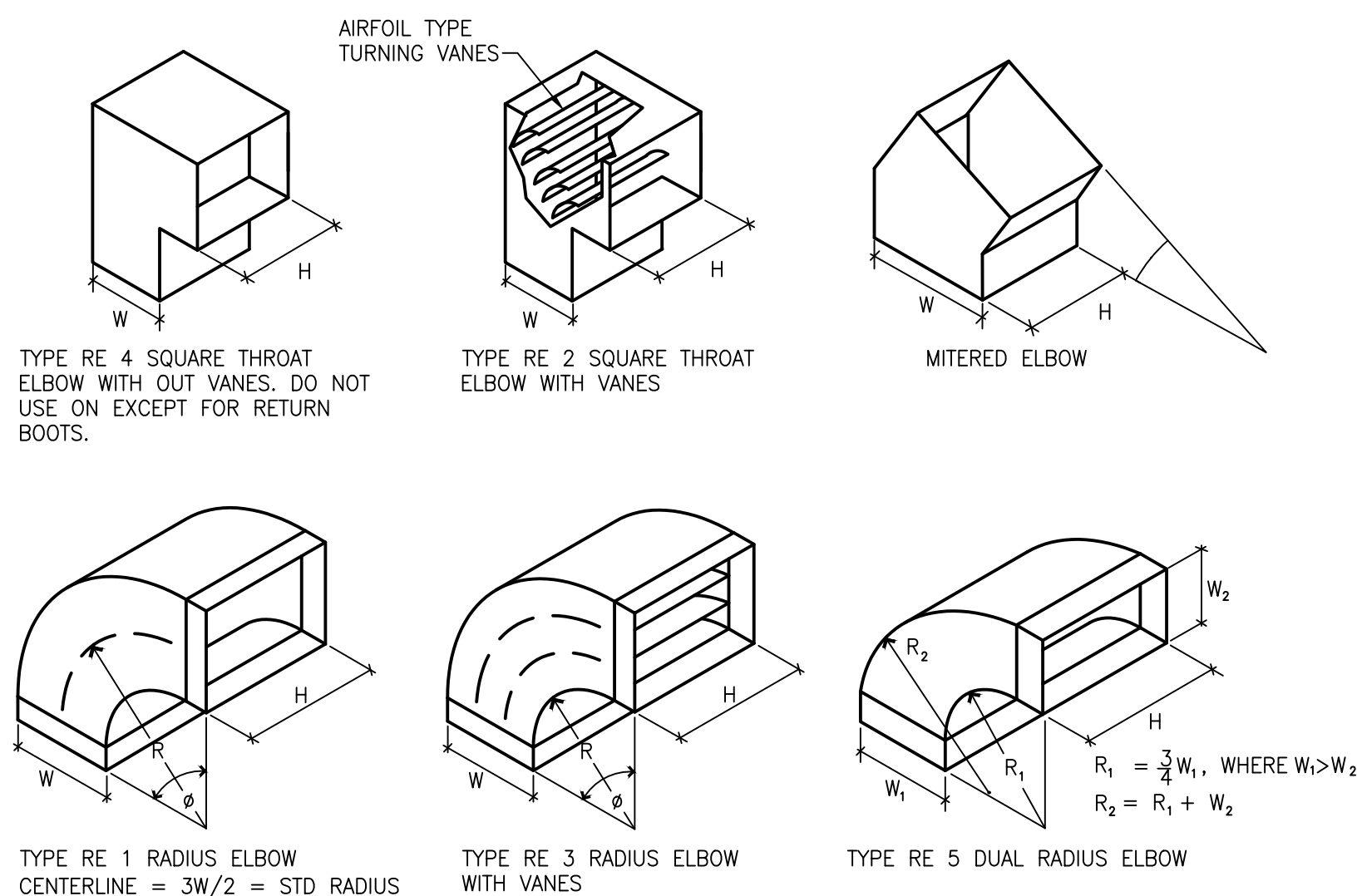
VERTICAL GAS FURNACE DETAIL

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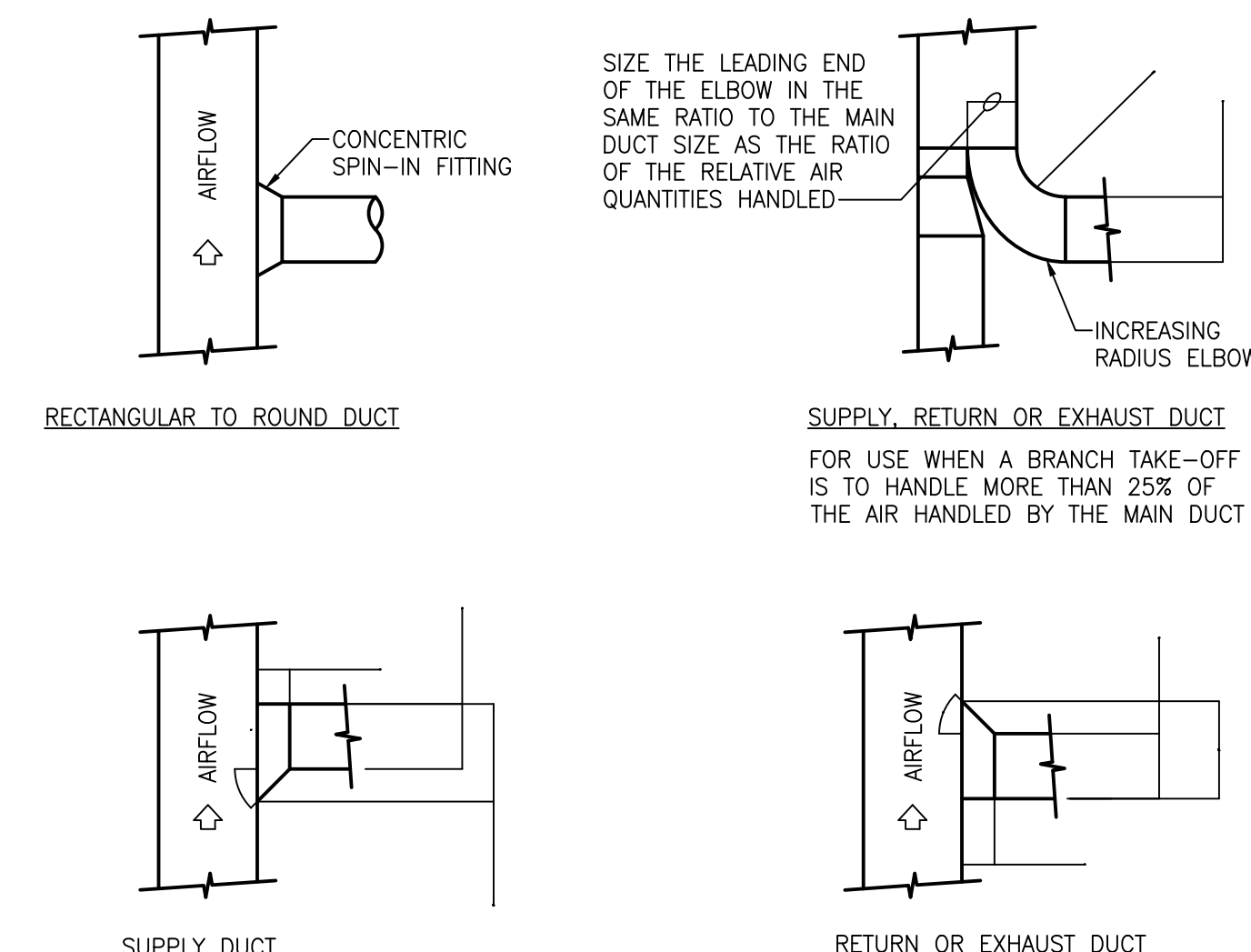
EXHAUST DUCT THRU ROOF DETAIL

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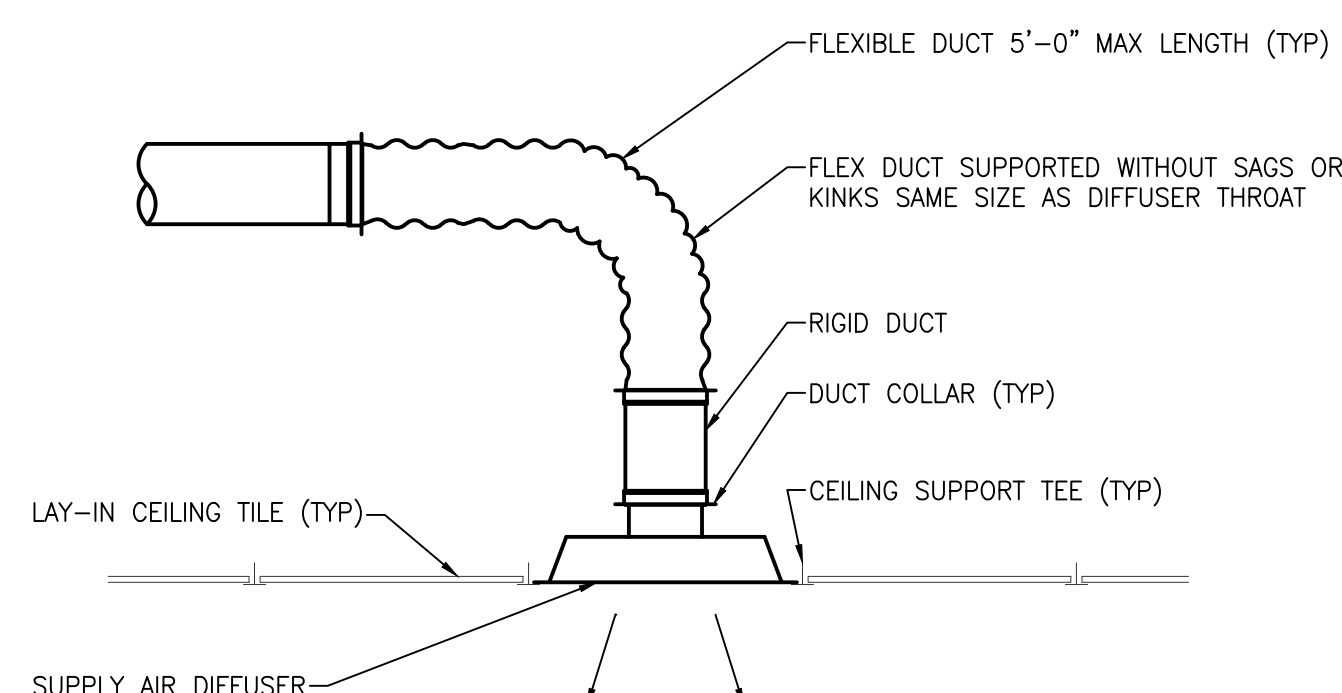
RECTANGULAR SHEET-METAL ELBOW S

NO SCALE



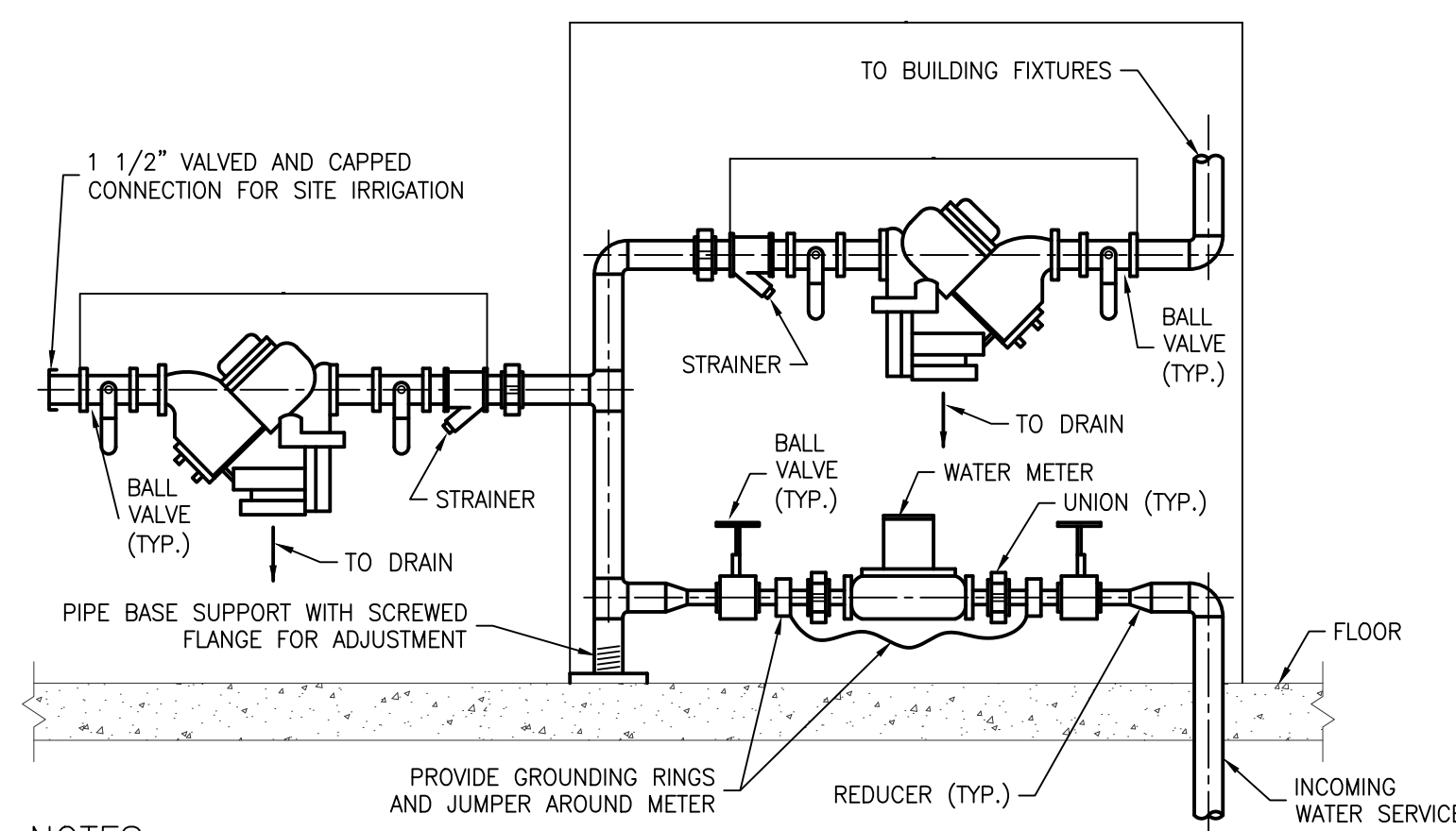
RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS

NO SCALE



SUPPLY AIR DIFFUSER DETAIL

NO SCALE



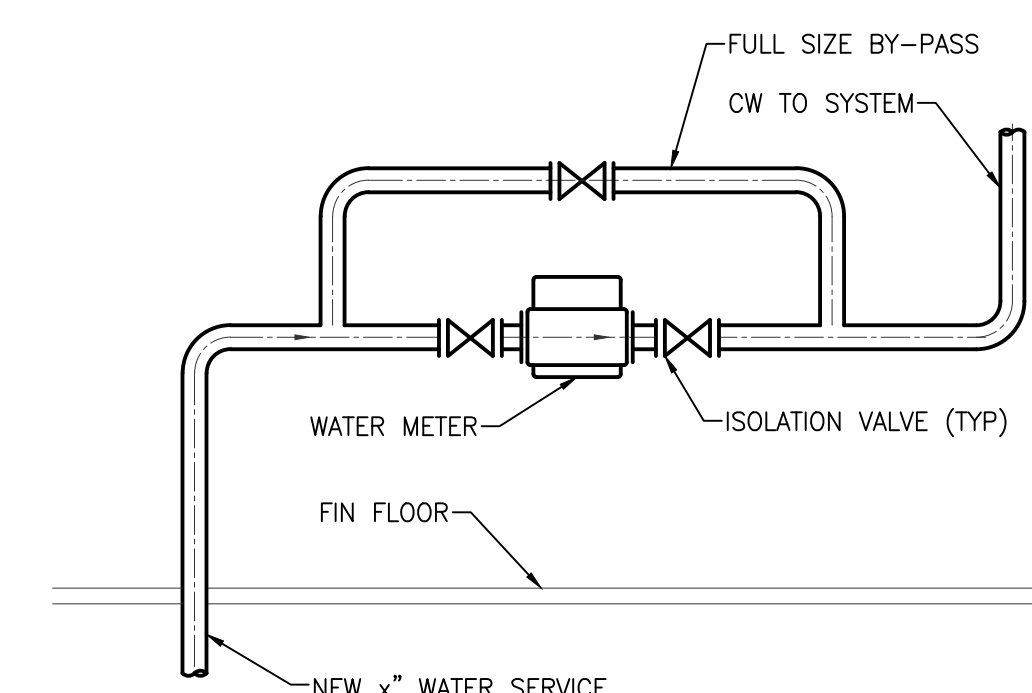
NOTES:

1. WATER METER & BFP SHALL BE SUPPORTED FROM THE FLOOR/WALL.
2. BACKFLOW PREVENTER TO BE EQUAL TO WATTS LF909M1 WITH OUTLET BALL VALVES, TEST COCKS & STRAINER.

WATER METER/BAC FLOOR PRE-ENTER DETAIL

NO SCALE

FARMER'S MARKET



WATER METER PIPING DETAIL

NO SCALE

AMPHITHEATER

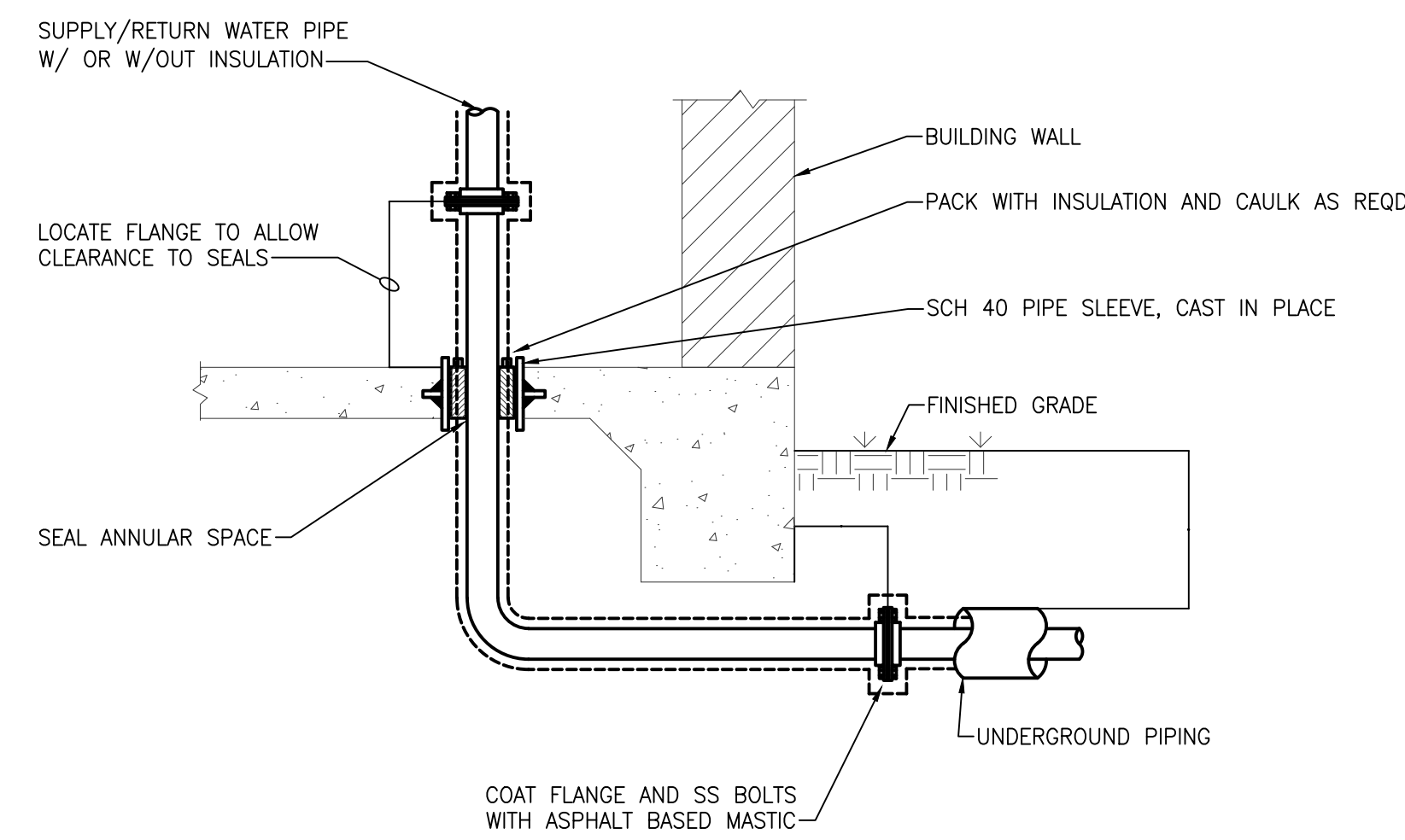
Issue / revision date	Owner Review
5-09-17	Owner Review
6-06-17	Coordination
6-16-17	Bids

drawn by	checked by
RHM	JDK

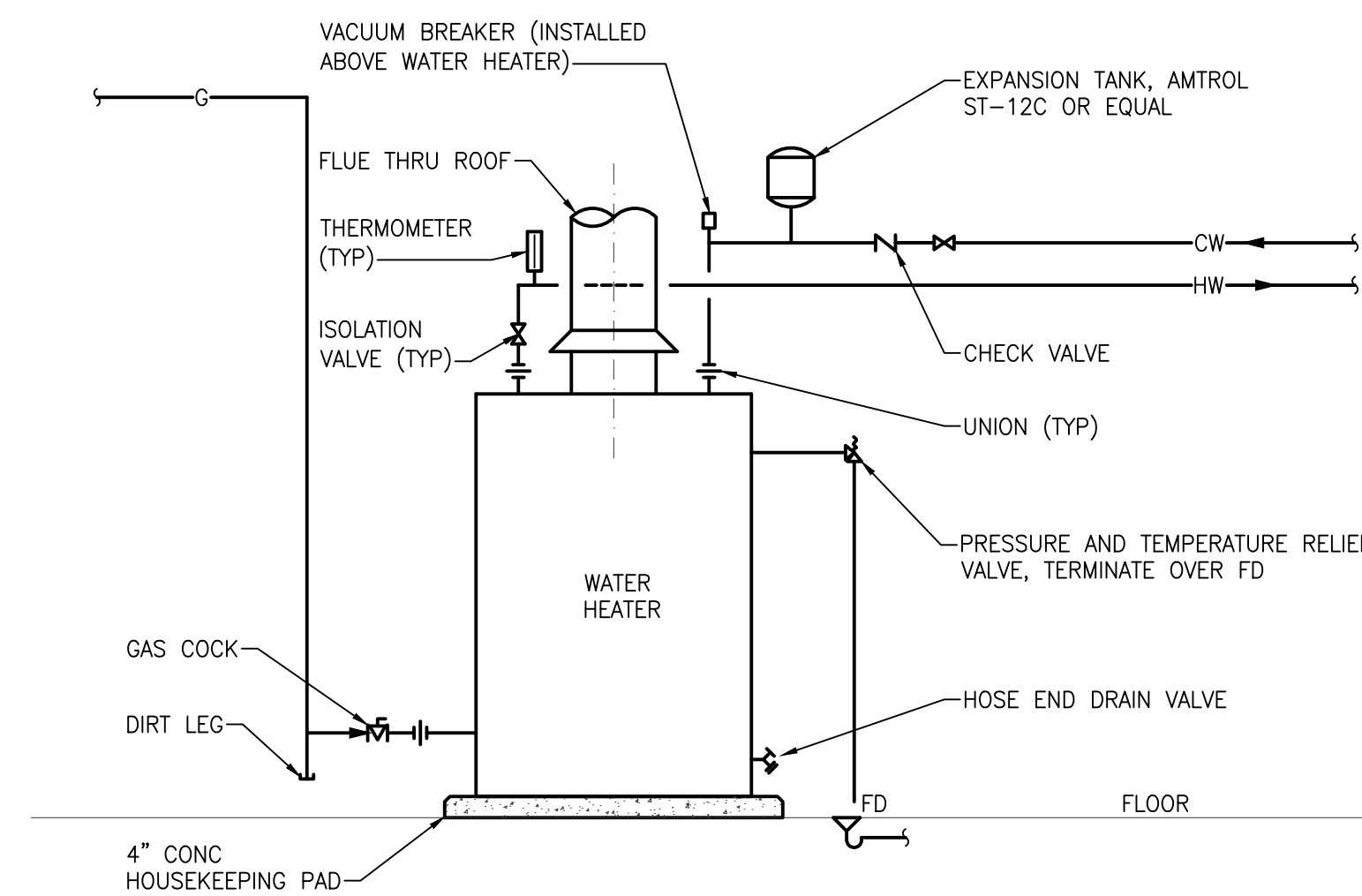
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Sterling Heights, Michigan
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Fax: (248) 557-1231

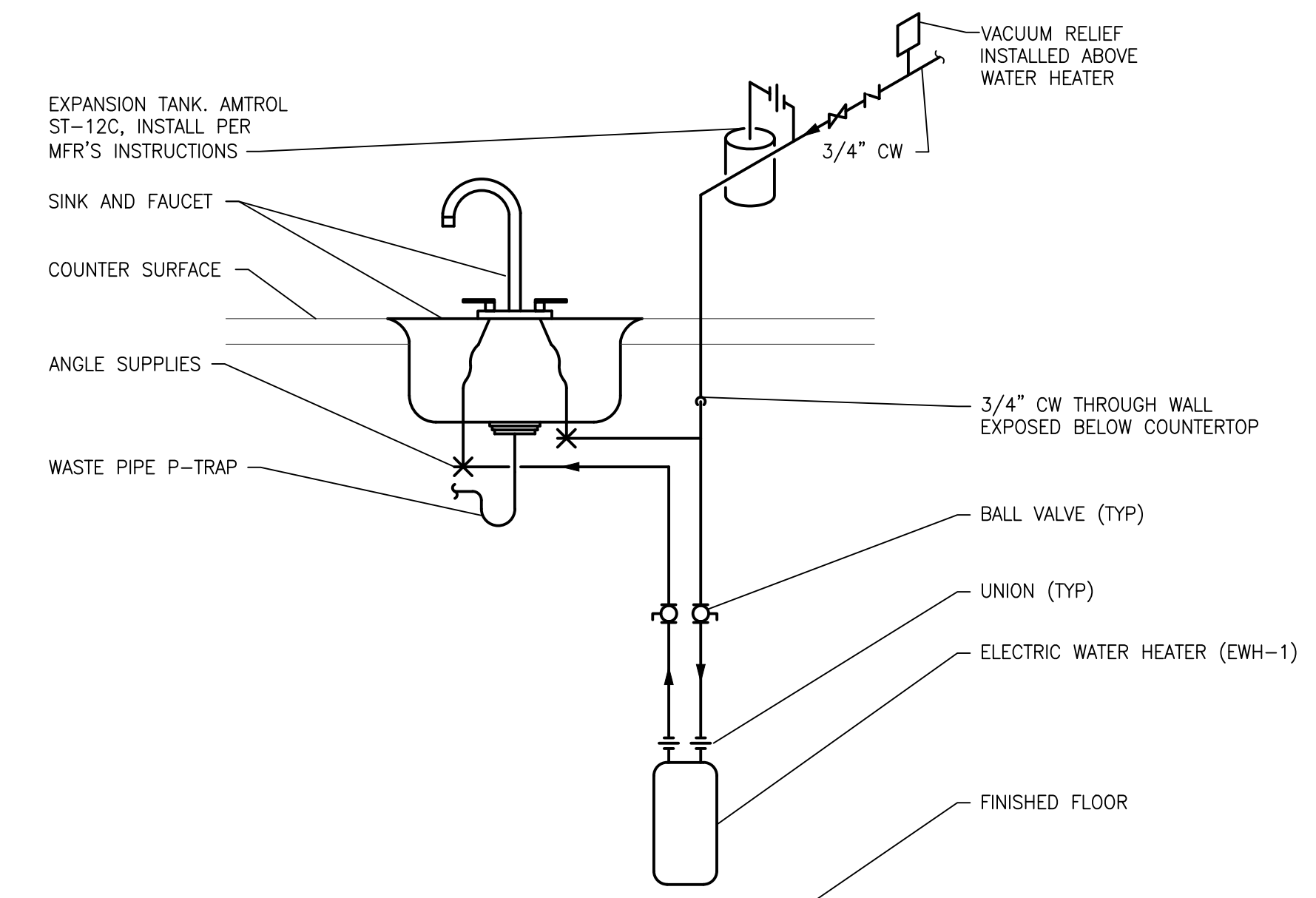
job no.	sheet no.
16078A	M7.1



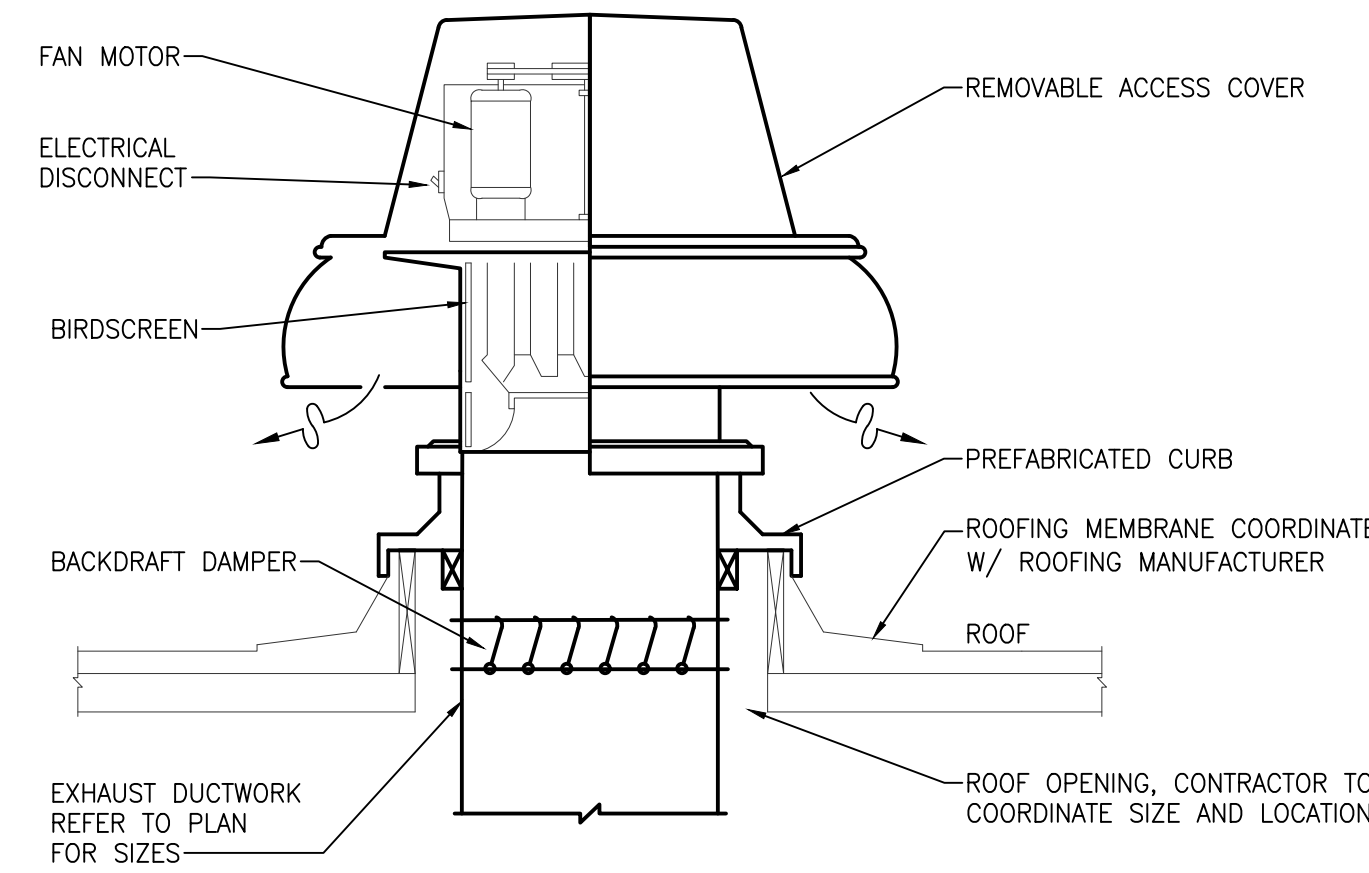
PIPE PENETRATION THRU CONCRETE FLOOR
NO SCALE



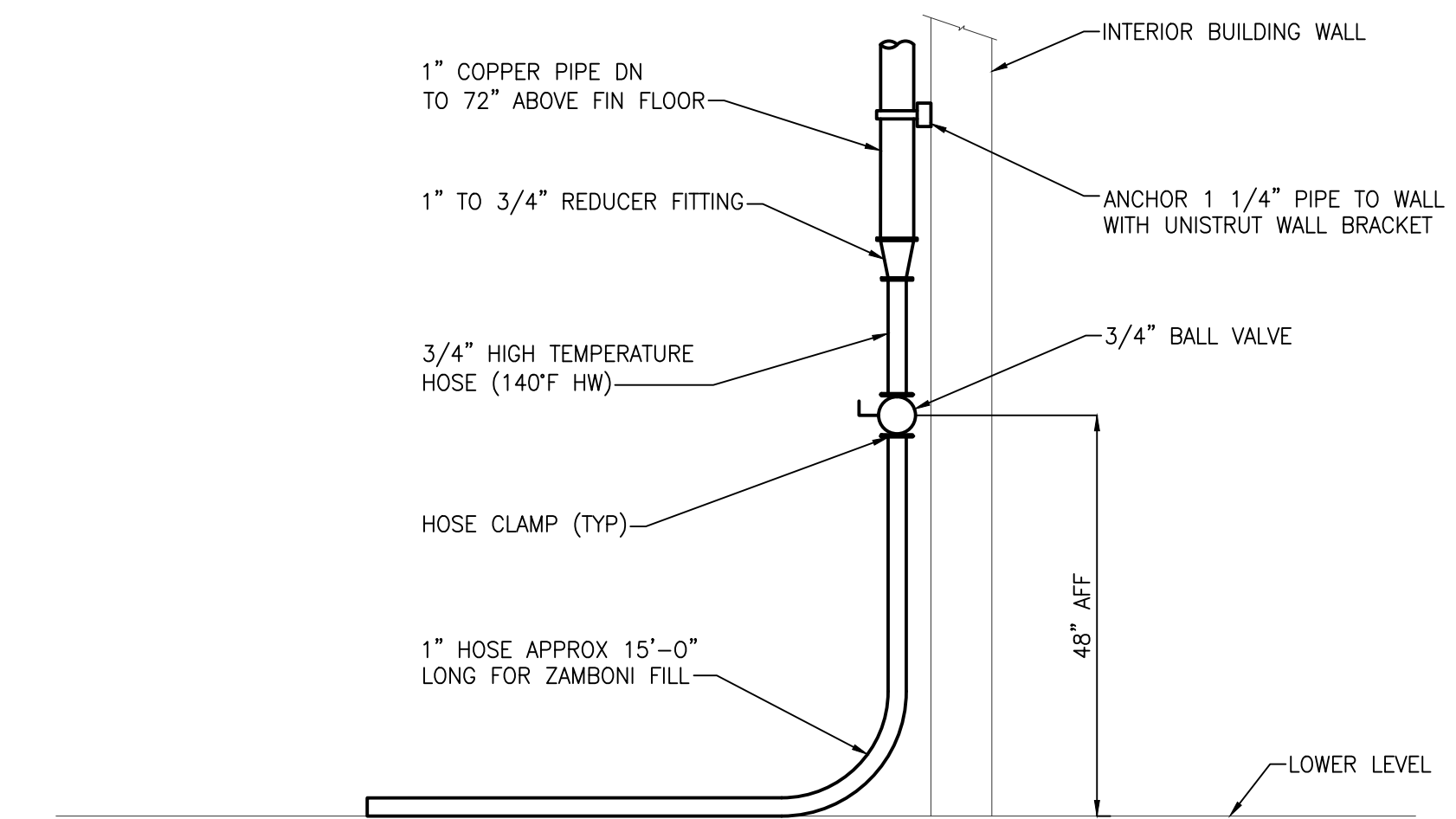
GAS FIRED DOMESTIC WATER HEATER PIPING DIAGRAM
NO SCALE W/ EXPANSION TANK



ELECTRIC WATER HEATER PIPING DETAIL
NO SCALE PAVILIONS



ROOF EXHAUST FAN MOUNTING DETAIL
NO SCALE



ZAMBONI FILL PIPE DIAGRAM
NO SCALE



LUMINAIRE SCHEDULE table with columns: FIXTURE MARK, DESCRIPTION, MANUFACTURER(S), LAMP DESCRIPTION. Rows include linear cable mounted, surface mounted, utility fixture, exterior fixture, pendant fixture, and theaterical fixtures.

LIGHTING SYMBOL LIST table with columns: SYMBOL, DESCRIPTION. Includes symbols for light fixture, emergency light, wall mounted light, downlight, wall sconce, surface mounted, interior wall mounted, track and track mounted, ceiling mounted exit, wall mounted exit, emergency battery unit, exterior pole mounted, exterior wall mounted, exterior post top, bollard, and single/three/four way switches.

FIRE ALARM SYMBOL LIST table with columns: SYMBOL, DESCRIPTION. Includes symbols for audible device, combination audible/visual device, ceiling mounted audible/visual device, visual device, ceiling mounted visual device, fire department communication outlet, manual pull station, door holder, smoke detector, photoelectric smoke detector, heat detector, tamper switch, flow switch, duct mounted smoke detector, fire alarm annunciator panel, and fire alarm control panel.

POWER SYMBOL LIST table with columns: SYMBOL, DESCRIPTION. Includes symbols for time clock, contactor, hard wire connection, single/duplex receptacle outlet, ceiling mounted duplex receptacle outlet, emergency duplex receptacle outlet, dedicated duplex receptacle outlet, quad receptacle outlet, dedicated quad receptacle outlet, floor mounted duplex receptacle outlet, NEMA receptacle outlet, plug strip, junction box, receptacle panel, lighting panel, distribution/equipment power panel, transformer, single/three phase motor, conduit down/up, grounding rod, grounding bar, meter, non-fused/fused disconnect switch, combination magnetic motor starter, motor rated switch, and transient voltage surge suppressor.

ELECTRICAL ABBREVIATIONS table with columns: ABBREV., DESCRIPTION. Lists abbreviations for amp fuse, above finished floor, available interrupting current, automatic transfer switch, circuit breaker, existing electrical equipment, electric water cooler, fire alarm, fire alarm control panel, full load amps, ground, ground fault interrupter, hand-off-auto, isolated ground, lighting panel, main circuit breaker, main distribution panel, main lug only, national electrical manufacturers association, not in contract, pole, relocated existing electrical equipment, remove and reinstall, bell, rigid metallic conduit, receptacle panel, telephone backboard, typical, wire guard, and weatherproof.

LIGHTING CONTROLS LEGEND table with columns: SYMBOL, DESCRIPTION. Includes symbols for digital timer switch, wall occupancy sensor, occupancy sensor, daylight sensor, and photocell.

NOTES: 1. DRAWINGS INDICATE DESIGN INTENT ONLY. 2. SENSOR SELECTION, QUANTITY AND LOCATION TO BE DETERMINED BY MANUFACTURER BASED ON AREA TO BE COVERED.

DRAWING INDEX table with columns: SHT. NO., DESCRIPTION. Lists sheets E0.0 through E7.1 covering electrical general information, site demolition plans, new work plans, and electrical details.

DRAWING NOTATION table with columns: SYMBOL, DESCRIPTION. Includes symbols for lighting fixture tag, construction/demolition key note numbers, equipment designation, existing/modifying devices or equipment, and existing system components to be removed.

APPLICABLE CODES AND REGULATIONS table with columns: YEAR, CODE. Lists codes from 2009 to 2014 including Michigan Electrical Code, NFPA 70, NFPA 72, NFPA 101, and ICC A117.1.

AUXILIARY SYMBOL LIST table with columns: SYMBOL, DESCRIPTION. Includes symbols for telephone outlet, floor mounted telephone outlet box, telephone outlet mounted 6 inches above finished counter, data outlet, combination outlet, ceiling mounted outlet box, push button, bell, card reader, magnetic door hold, television outlet, wall clock, double sided wall clock, combination wall clock/speaker, speaker, and camera.

LUMINAIRE SCHEDULE GENERAL NOTES

- 1. REFER TO ELECTRICAL SPECIFICATIONS FOR MORE INFORMATION.
2. ALL LIGHT FIXTURES SHALL BE UL LABELED.
3. FIRST MANUFACTURER LISTED IS BASIS OF DESIGN. OTHER MANUFACTURERS LISTED ARE APPROVED MANUFACTURERS.
4. ELECTRICAL TRADES SHALL PROVIDE COMPLETE SUBMITTALS (SHOP DRAWINGS) ON ALL LIGHT FIXTURES, LAMPS, CONTROLS AND ACCESSORIES, ETC. REFER TO SPECIFICATION FOR SUBMITTAL FORMAT AND PROCESS.
5. ALL LUMINARIES AND CONTROLS SHALL COMPLY WITH THE MICHIGAN UNIFORM ENERGY CODE AND ASHRAE 90.1.

Issue / revision date
5-09-17 Owner Review
6-06-17 Coordination
6-16-17 Bids

drawn by checked by
CEM PDH

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
project sheet title
ELECTRICAL GENERAL INFORMATION



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5-09-17 Owner Review
6-06-17 Coordination
6-16-17 Bids

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CEM	PDH

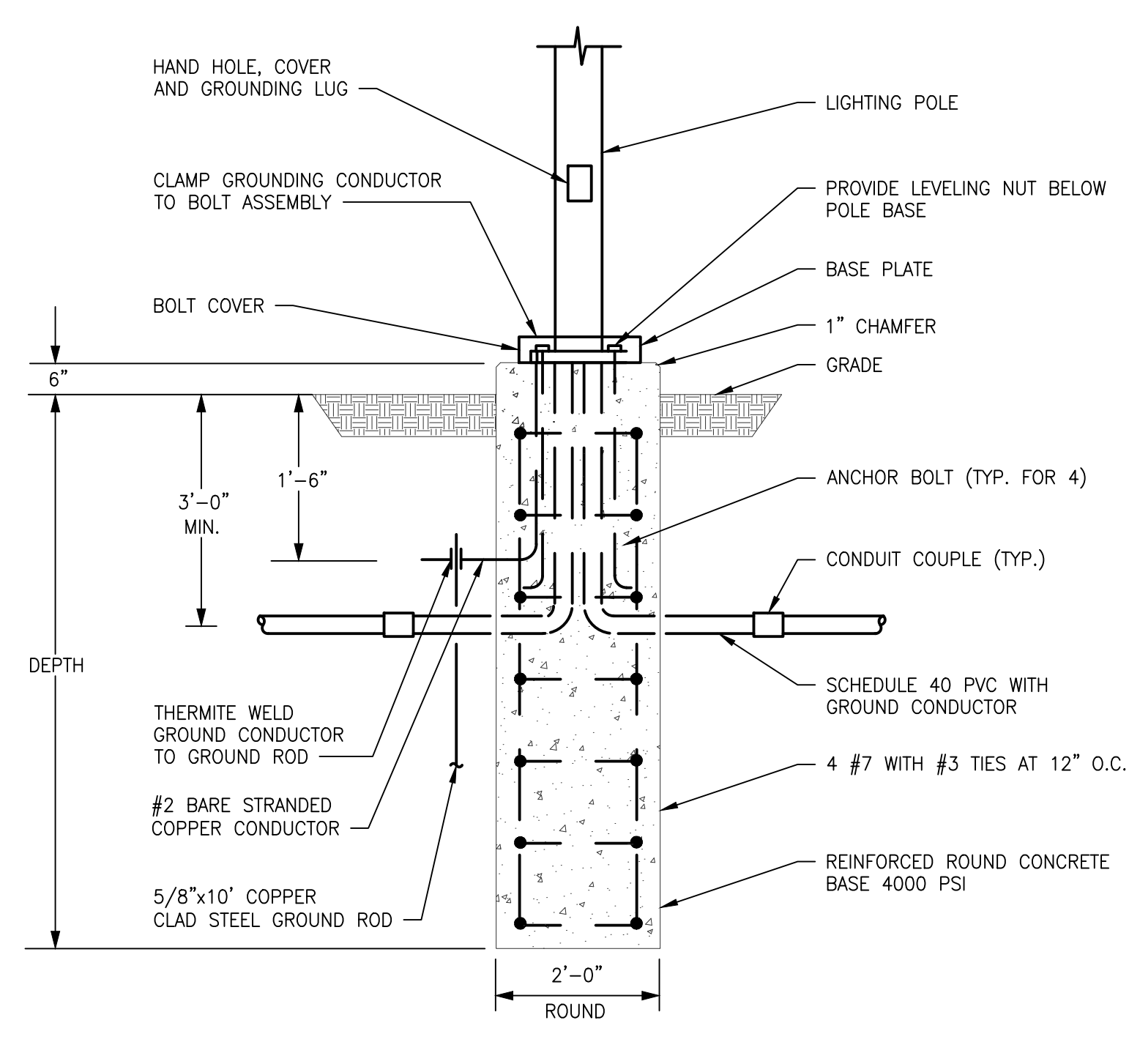
City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
project sheet title
ELECTRICAL DETAILS



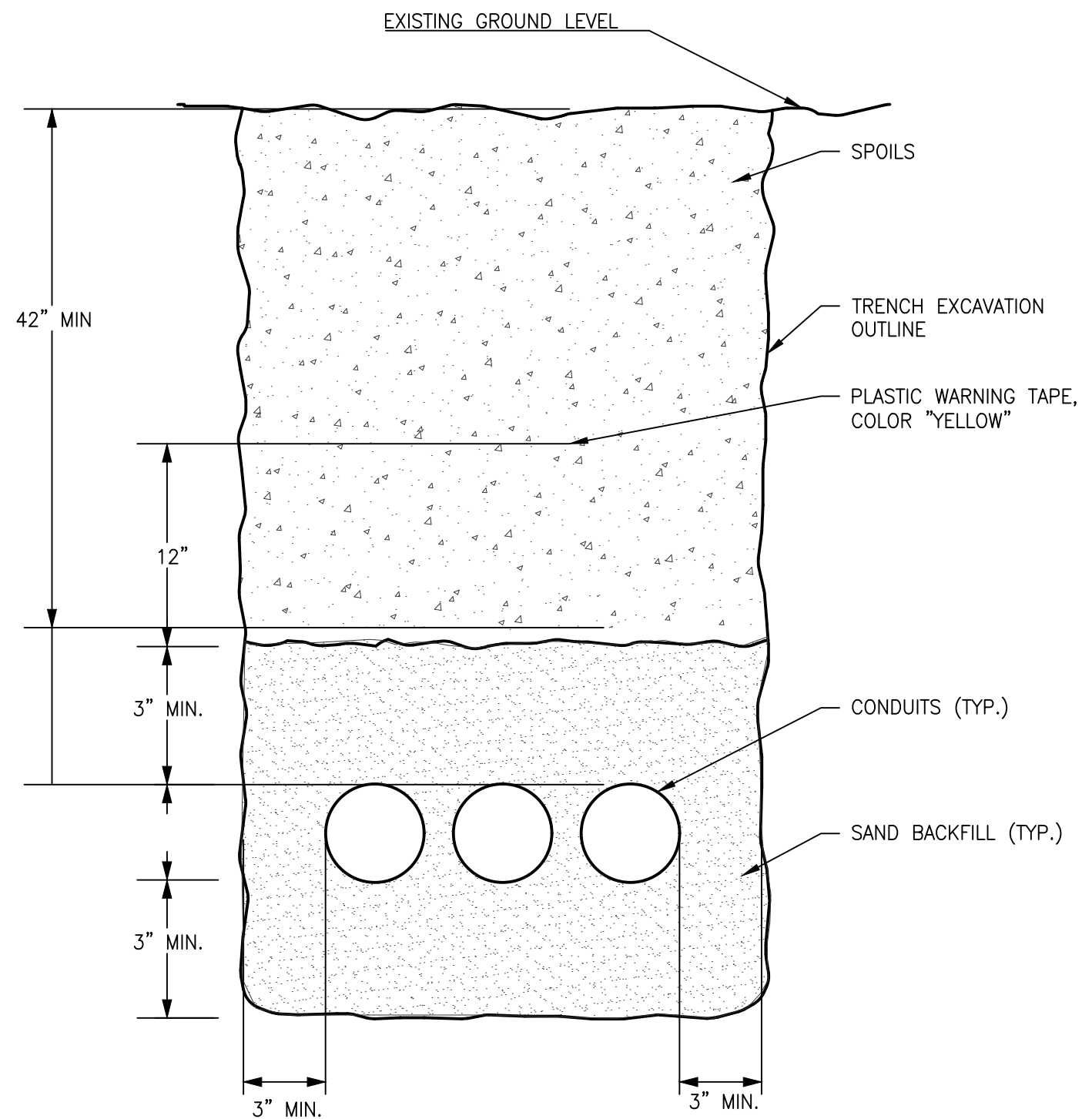
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Architects/Planners
29895 Greenfield Rd., Suite 107
Southfield, Michigan 48076
(248) 557-1062
Fax: (248) 557-1231

job no.	sheet no.
16078A	E7.1

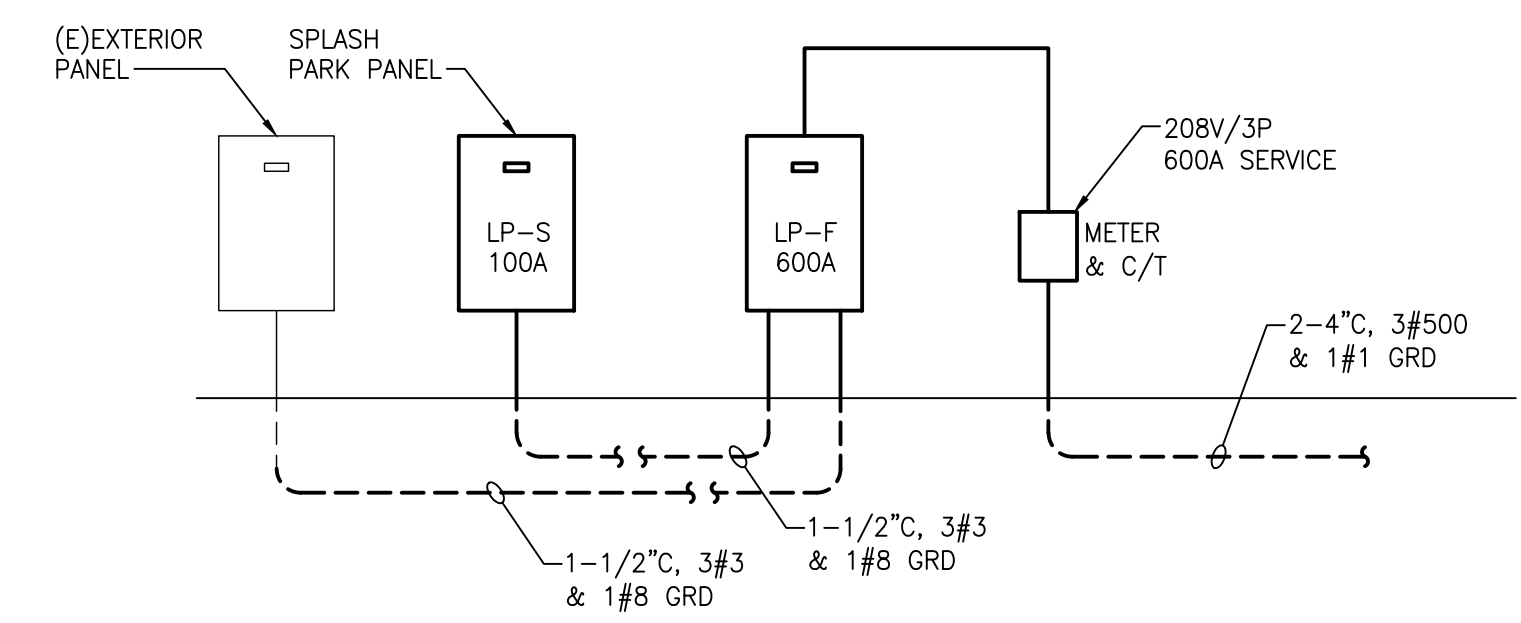
Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks	
LIGHTING - PAVILION	1680				20	1	X			2			40000				
LIGHTING - PAVILION	1680				20	3	X			4	450		40000				ICE RINK REFRIGERATION UNIT
LIGHTING - PAVILION	1680				20	5	X			6			40000				
LIGHTING - PAVILION	1680				20	7	X			8			2400				GLYCOL CIRCULATION PUMP
LIGHTING - PAVILION	1680				20	9	X			10	25		2400				
LIGHTING - PAVILION	1680				20	11	X			12			2400				
LIGHTING - INTERIOR	400				20	13	X			14	20	200					ICE RINK CONTROLS
LIGHTING - EXTERIOR + PHOTOCCELL	400				20	15	X			16	20						SPARE
SPLASH PARK PANEL			9000		20	17	X			18	20		1200				CEILING FAN
			9000		100	19	X			20	20		1200				CEILING FAN
			9000		20	21	X			22	20		1200				CEILING FAN
VENDING	1200				20	23	X			24	20	500					HAND DRYER
VENDING	1200				20	25	X			26	20	500					HAND DRYER
VENDING	1200				20	27	X			28	20			720			RECEPTACLES - GARAGE
VENDING	1200				20	29	X			30	20			180			BIKE RENTAL
REFRIGERATOR - CONCESSIONS	1000				20	31	X			32	20			720			RECEPTACLES - PAVILION
FREEZER - CONCESSIONS	1000				20	33	X			34	20			720			RECEPTACLES - PAVILION
RECEPTACLES - CONCESSIONS	540				20	35	X			36	20			720			RECEPTACLES - PAVILION
RECEPTACLES - CONCESSIONS	360				20	37	X			38	20			720			RECEPTACLES - PAVILION
RECEPTACLES - CONCESSIONS	360				20	39	X			40	20			720			RECEPTACLES - PAVILION
RECEPTACLES - RESTROOMS, JC	360				20	41	X			42	20						SPARE



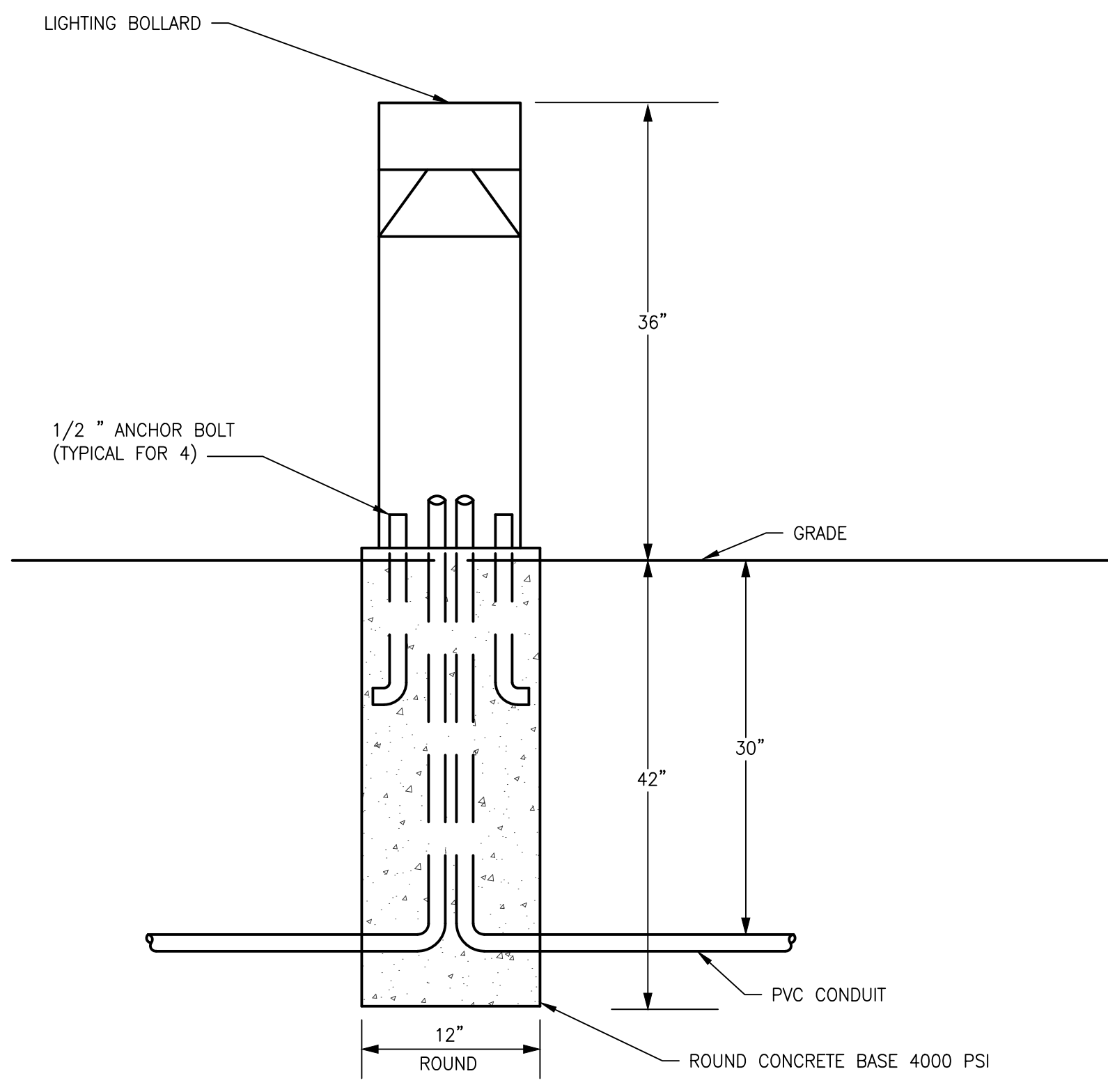
LIGHTING POLE BASE DETAIL 6" BASE
NO SCALE



DIRECT BURIAL CONDUIT DETAIL
NO SCALE

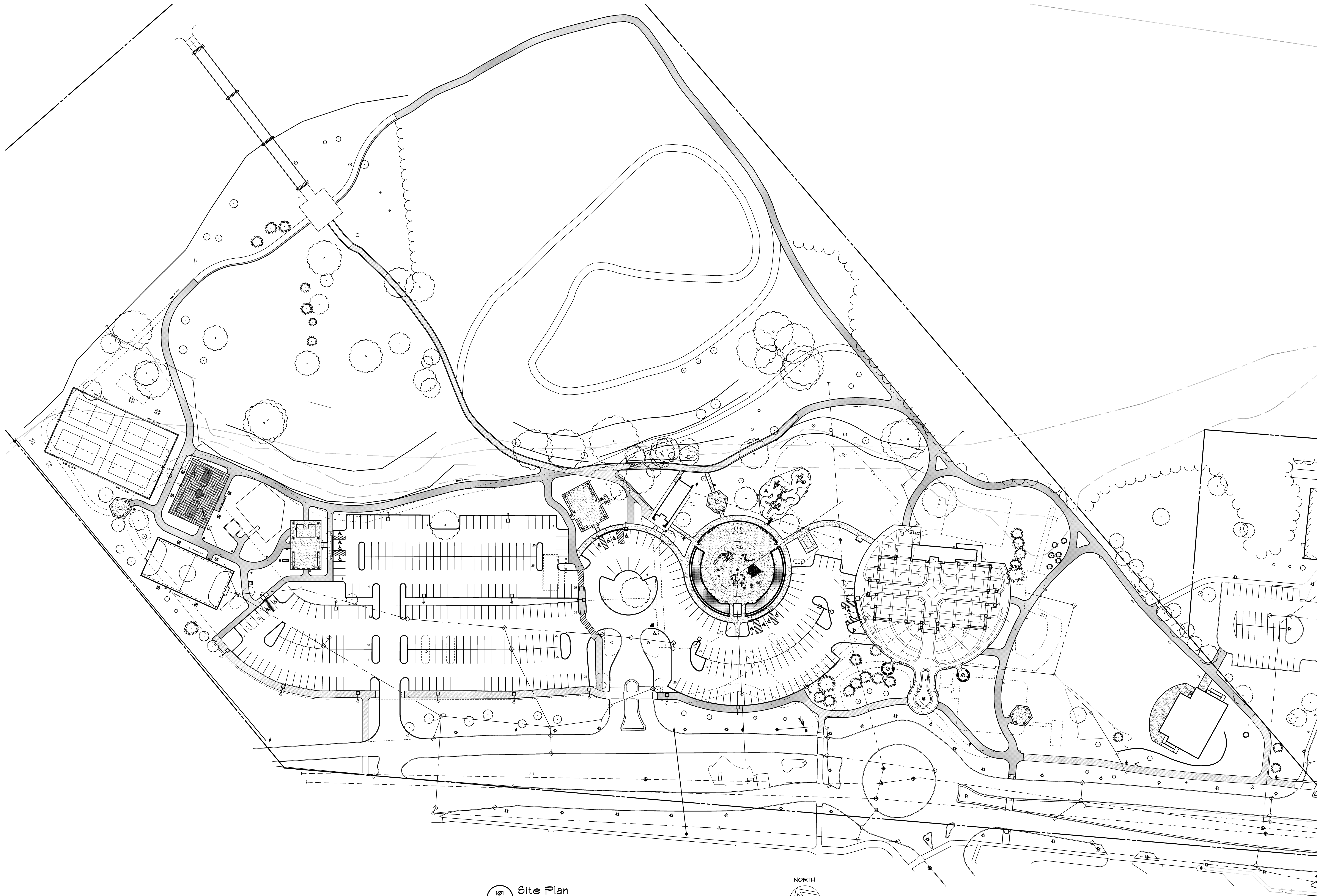


ELECTRIC ONE LINE DIAGRAM - FARMER'S MARKET
NO SCALE



BOLLARD BASE DETAIL
NO SCALE

Drawing: S:\17 0454 01 Sterling Heights Parks & Rec\CA\Drawings\17 0454 01_E7.1.dwg
Date: Jun 16, 2017, 9:22am
Layout: E7.1 Plotted by: pdh



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

drawn by

checked by

City of Sterling Heights
 Dodge Park Improvements
 Sterling Heights, Michigan

project

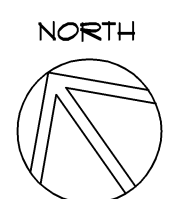
Site Plan

sheet title

Dorchen/Martin Associates, Inc.
 Architects/Planners
 2985 Greenfield Rd., Suite 107
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 (248) 557-1062
 Fax: (248) 557-1231

job no. 16078A
 sheet no. SP01

101 Site Plan
 SP01 Scale: 1" = 60'-0"



SEE ENLARGED PLANS ON SHEETS SP03-SP11 FOR MORE INFORMATION.



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

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City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
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Keyed Site Notes
Site Amenities
sheet title



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(248) 557-1062
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job no. sheet no.

16078A SP02

KEYED SITE NOTES

- ① NEW SAND VOLLEYBALL COURT WITH RECYCLED RUBBER VOLLEYBALL BORDER. SEE ENLARGED PLAN ON SHEET SP05 AND DETAILS ON SHEET SP14 FOR MORE INFORMATION.
- ② NEW HORSHOE FIT. SEE DETAILS ON SHEET SP12 FOR MORE INFORMATION.
- ③ NEW ASPHALT BASKETBALL COURT (SEE CIVIL ENGINEERING DRAWINGS) WITH MODULAR SURFACE TILES. MODULAR SURFACE TILES TO BE TITANIUM AND MUSTARD (N.I.C.) - SEE ENLARGED PLAN ON SHEET SP05.
- ④ 28' LANTERN STYLE HEXAGON PARK SHELTER (PARK SHELTER #1, 4 AND 5) BY POLIGON. FOUNDATIONS, SLAB, MASONRY AND DECORATIVE STONE INSTALLED BY GENERAL CONTRACTOR. PARK SHELTER STRUCTURE PURCHASED BY CITY AND INSTALLED BY POLIGON (N.I.C.) FRAME COLOR: SLATE, METAL ROOF COLOR: COLONIAL RED.
- ⑤ NEW 60'x120' MINI SOCCER FIELD WITH ARTIFICIAL TURF, CONCRETE CURB, SOCCER NETS, AND CUSTOM BACKERBOARDS WITH SQUARE CORNERS AND GALVANIZED STEEL FRAMEWORK TWO ACCESS GATES, FRP FIBERGLASS FACING, POLYETHYLENE KICKPLATE, AND 16" HIGH NETTING ON GOAL ENDS. SEE ENLARGED PLAN ON SHEET SP06 AND DETAILS ON SHEET SP13.
- ⑥ NEW 10' WIDE ASPHALT WALKWAY - SEE CIVIL ENGINEERING SITE PLAN FOR MORE INFORMATION.
- ⑦ NEW 8' WIDE ASPHALT WALKWAY - SEE CIVIL ENGINEERING SITE PLAN FOR MORE INFORMATION.
- ⑧ NEW MESH BALL CONTAINMENT SYSTEM. (N.I.C.)
- ⑨ NEW PLAYGROUND EQUIPMENT BY OTHERS. (N.I.C.)
- ⑩ EXISTING PLAY STRUCTURE TO REMAIN.
- ⑪ NEW PARK SHELTER #3 BY POLIGON. FOUNDATIONS, SLAB, MASONRY AND DECORATIVE STONE INSTALLED BY GENERAL CONTRACTOR. PARK SHELTER STRUCTURE PURCHASED BY CITY AND INSTALLED BY POLIGON (N.I.C.) FRAME COLOR: SLATE, METAL ROOF COLOR: COLONIAL RED.
- ⑫ NEW PARK SHELTER #2 BY POLIGON. FOUNDATIONS, SLAB, MASONRY AND DECORATIVE STONE INSTALLED BY GENERAL CONTRACTOR. PARK SHELTER STRUCTURE PURCHASED BY CITY AND INSTALLED BY POLIGON (N.I.C.) FRAME COLOR: SLATE, METAL ROOF COLOR: COLONIAL RED.
- ⑬ NEW PLAY STRUCTURE BY OTHERS (N.I.C.)
- ⑭ NEW TICKET BOOTH - SEE TB SHEETS FOR MORE INFORMATION.
- ⑮ NEW SPLASH PARK - SEE SHEETS SP08 AND SP15 FOR MORE INFORMATION.
- ⑯ NEW BARRIER FREE PARKING SIGN - SEE CIVIL ENGINEERING DRAWINGS.
- ⑰ EXISTING ASPHALT WALKWAY TO BE RESURFACED - SEE CIVIL ENGINEERING DRAWINGS.
- ⑱ NEW ORNAMENTAL STEEL FENCE. SEE DETAILS ON SHEET SP15 FOR MORE INFORMATION.
- ⑲ NEW EQUIPMENT ENCLOSURE BY POLIGON. (BY OTHERS) FRAME COLOR: SLATE, METAL ROOF COLOR: COLONIAL RED. (N.I.C.)
- ⑳ FUTURE BIKE RENTAL SYSTEM.
- ㉑ NEW FARMERS MARKET - SHEET SHEET SP09 AND R1 SHEETS FOR MORE INFORMATION.
- ㉒ NEW GAS FIRE PIT - SEE SHEETS SP10 AND SP12 FOR MORE INFORMATION.
- ㉓ NEW AMPHITHEATER - SEE SHEET SP11 AND AMP SHEETS FOR MORE INFORMATION.
- ㉔ EXISTING RESTROOM BUILDING TO BE REMODELED. SHEET RRB SHEETS FOR MORE INFORMATION.
- ㉕ NEW 8' WIDE CONCRETE WALK - SEE CIVIL ENGINEERING DRAWINGS FOR MORE INFORMATION.
- ㉖ NEW 5' WIDE CONCRETE WALK - SEE CIVIL ENGINEERING DRAWINGS FOR MORE INFORMATION.
- ㉗ NEW CONCRETE PAD FOR BIKE RACK.
- ㉘ EXISTING ASPHALT WALKWAY TO BE RESURFACED AND WIDENED TO 10' - SEE CIVIL ENGINEERING DRAWINGS.
- ㉙ SPLASH PAD EQUIPMENT BY SPLASH PAD VENDOR.
- ㉚ CONCRETE PAD BY SPLASH PAD VENDOR.
- ㉛ EXISTING POST MOUNTED ELECTRICAL SERVICE OUTLETS TO REMAIN.

SITE AMENITIES

QUANTITY:	DESCRIPTION:	PLAN KEY	COLOR:	PURCHASED/INSTALLED BY:
21	TUFFCLAD 6' BENCH WITH BACK (28009) *	⬠	FRAME: METALLIC SEAT & BACK: BLUE	OWNER/VENDOR
32	TUFFCLAD SINGLE PEDESTAL FOOD COURT TABLE (28021)	⬡	FRAME: METALLIC SEAT & TABLE: BLUE	OWNER/VENDOR
1	TUFFCLAD SINGLE PEDESTAL A.D.A. FOOD COURT TABLE (28022)	⬢	FRAME: METALLIC SEAT & TABLE: BLUE	OWNER/VENDOR
32	TUFFCLAD RECEPTACLE, FLAT LID, IN-GROUND (28026) *	⬤	BLUE	OWNER/VENDOR
5	TUFFCLAD RECEPTACLE, FLAT LID, IN-GROUND (28026) *	⬥	GREEN W/RECYCLE STICKERS	OWNER/VENDOR
4	TUFFCLAD 8' BACKLESS PARK BENCH, IN-GROUND (28006) *	⬦	FRAME: METALLIC SEAT: BLUE	OWNER/VENDOR
1	TUFFCLAD BIKE RACK (FT103) *	⬧	BLUE	OWNER/VENDOR
1	TUFFCLAD BIKE RACK (FT100) *	⬨	BLACK	OWNER/VENDOR
2	BASKETBALL PLAYGROUND SYSTEM	⬩	-	OWNER/VENDOR
4	BISON MATCH POINT COMPETITION VOLLEYBALL SYSTEM (5V5B000)	⬪	-	OWNER/CONTRACTOR
4	SUIVEL GRATE ADA GRILL	⬫	-	OWNER/CONTRACTOR
4	LARGE PARK GRILL	⬬	-	OWNER/CONTRACTOR
4	HOT COAL/ASH BIN	⬭	BLACK	OWNER/CONTRACTOR
1	WABASH VALLEY 46" ROUND TABLE - 5Y110 (P) ***	⬮	FRAME: BLUE SEAT & BACK: GRAY	OWNER/VENDOR
2	WABASH VALLEY A.D.A. ROUND TABLE - 5Y116 (P) ***	⬯	FRAME: BLUE SEAT & BACK: GRAY	OWNER/VENDOR
8	WABASH VALLEY MEMORIAL BENCH - SP405R (R) ***	⬰	BLACK	OWNER/VENDOR
8	WABASH VALLEY TRASH RECEPTACLE - FR500(R) WITH FT100 ***	⬱	BLACK	OWNER/VENDOR
3	WABASH VALLEY TRASH RECEPTACLE - FR500(R) WITH FT106 ***	⬲	GREEN	OWNER/VENDOR
1	DRINKING FOUNTAIN/BOTTLE FILLER/DOG BOWL (SEE PLUMBING DUGS.)	⬳	SEE PLUMBING DRAWINGS	SEE PLUMBING DRAWINGS
2	DRINKING FOUNTAIN/BOTTLE FILLER (SEE PLUMBING DUGS.)	⬴	SEE PLUMBING DRAWINGS	SEE PLUMBING DRAWINGS
8	USA SHADE STRUCTURE - COOLBRELLA (12' DIA, 8' ENTRY HEIGHT)	⬵	SHADESURE FABRIC: ROYAL BLUE FRAME: TELE-GRAY (FAS8-C0003)	OWNER/VENDOR
3	USA SHADE STRUCTURE - PEGASUS (12'x16')	⬶	SHADESURE FABRIC: ROYAL BLUE FRAME: TELE-GRAY (FAS8-C0003)	OWNER/VENDOR
1	WABASH VALLEY TRASH RECEPTACLE - FR500(P) WITH FT100 ***	⬷	BLUE	OWNER/VENDOR
1	WABASH VALLEY TRASH RECEPTACLE - FR500(P) WITH FT106 ***	⬸	GREEN	OWNER/VENDOR
8	WABASH VALLEY UPTOWN BENCH - UP425 (S) ***	⬹	FRAME: BLUE SEAT & BACK: GRAY	OWNER/VENDOR
1	OUTDOOR SHOWER (SEE PLUMBING DRAWINGS)	⬺	SEE PLUMBING DRAWINGS	SEE PLUMBING DRAWINGS
10	DUMOR CURVED BENCH (R193-120-6) ***	⬻	BLACK	OWNER/VENDOR
5	MAXIFORCE LIGHT REMOVABLE BOLLARD (MRRP-RS1-R)	⬼	BLACK	CONTRACTOR/CONTRACTOR
3	MAXIFORCE FIXED BOLLARD (MFRN-RS1-N8)	⬽	BLACK	CONTRACTOR/CONTRACTOR
4	VOLLEYBALL USA 2" PRO BOUNDARY LINES-ADJUSTABLE W/SAND PLATES	⬾	TO BE DETERMINED	OWNER/OWNER

* MINIMUM 8" DIAMETER x 42" DEEP FOUNDATION AT MOUNTING POSTS.

*** SURFACE MOUNT

architect seal

REFER TO SHEET SP02 FOR KEYED NOTES AND SITE AMENITIES.



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

drawn by

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City of Sterling Heights
 Dodge Park Improvements
 Sterling Heights, Michigan
 project

Partial Enlarged Site Plan
 sheet title

Dorchen/Martin Associates, Inc.
 Architects/Planners
 2985 Greenfield Rd., Suite 107
 Southfield, Michigan 48076
 (248) 557-1062
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job no.

sheet no.

16078A SP03

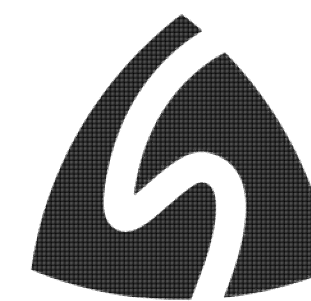


101 Partial Site Plan
 SP03 Scale: 1" = 30'-0"



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issue / revision date

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- 5-16-17 Prelim. Review
- 6-7-17 City Review
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Dodge Park Improvements
Sterling Heights, Michigan
project

Partial Enlarge Site Plan
sheet title

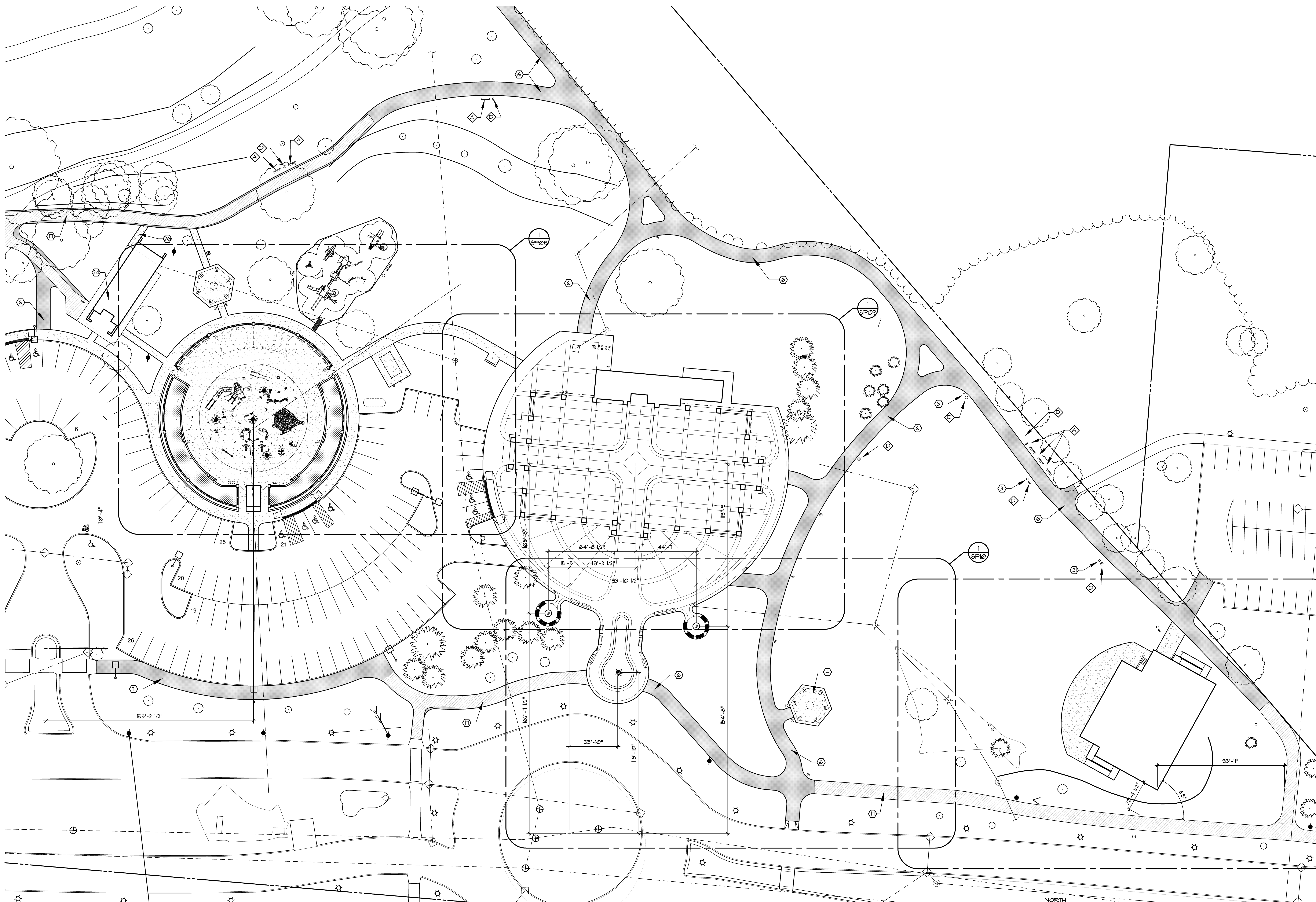
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29895 Greenfield Rd., Suite 107
Southfield, Michigan 48076
(248) 557-1002
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job no.

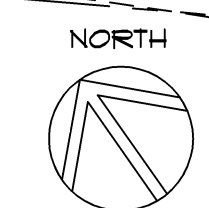
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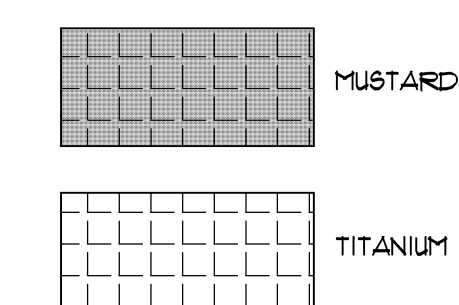
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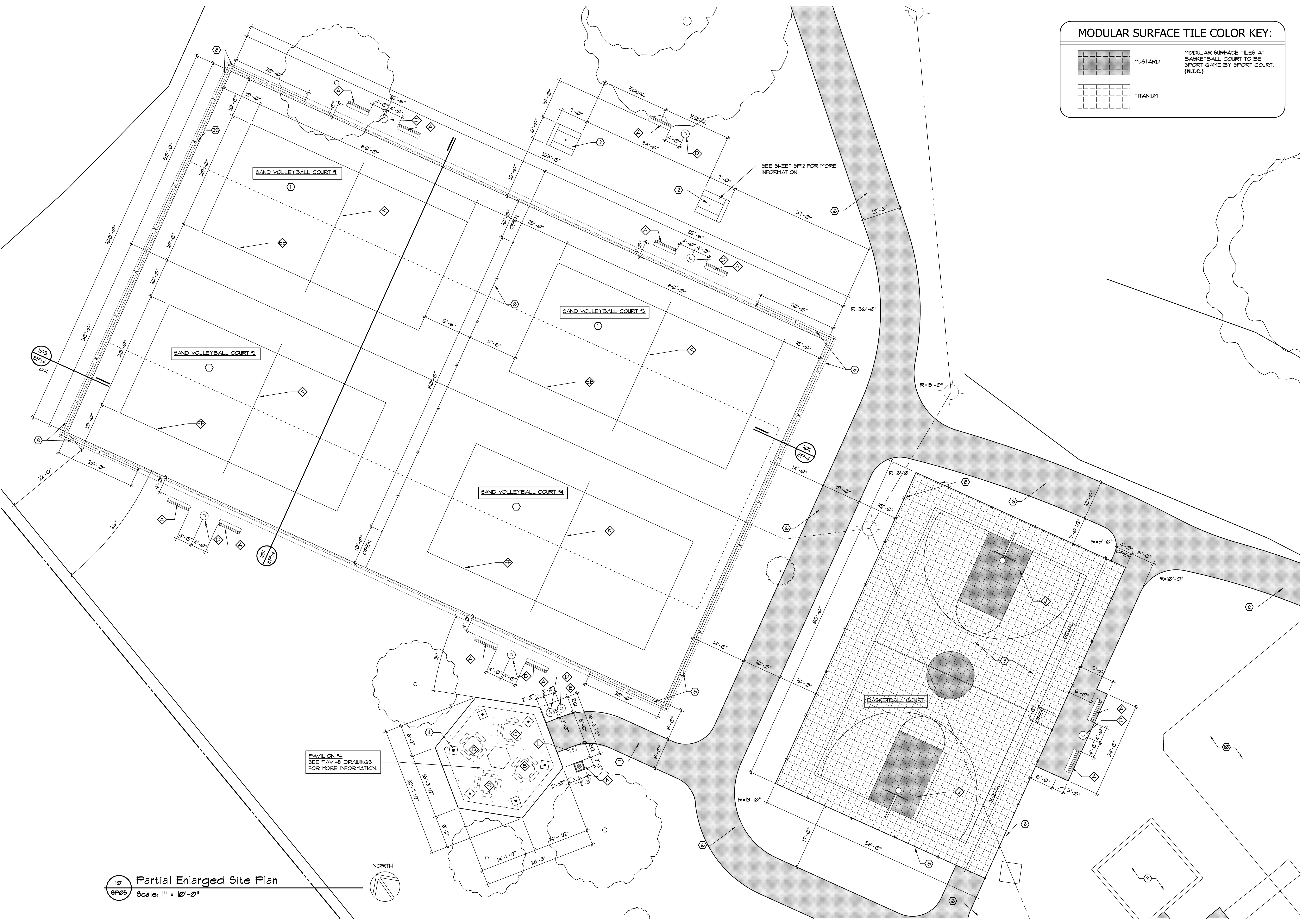
Partial Site Plan
Scale: 1" = 30'-0"



MODULAR SURFACE TILE COLOR KEY:



MODULAR SURFACE TILES AT BASKETBALL COURT TO BE SPORT GAME BY SPORT COURT. (N.I.C.)



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REFER TO SHEET SP02 FOR KEYED NOTES AND SITE AMENITIES.



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

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City of Sterling Heights
 Dodge Park Improvements
 Sterling Heights, Michigan

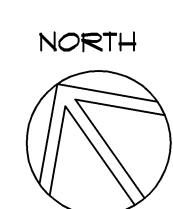
Partial Enlarged Site Plan
 Sand Volleyball Courts
 Basketball Court
 Pavilion #4

project sheet title



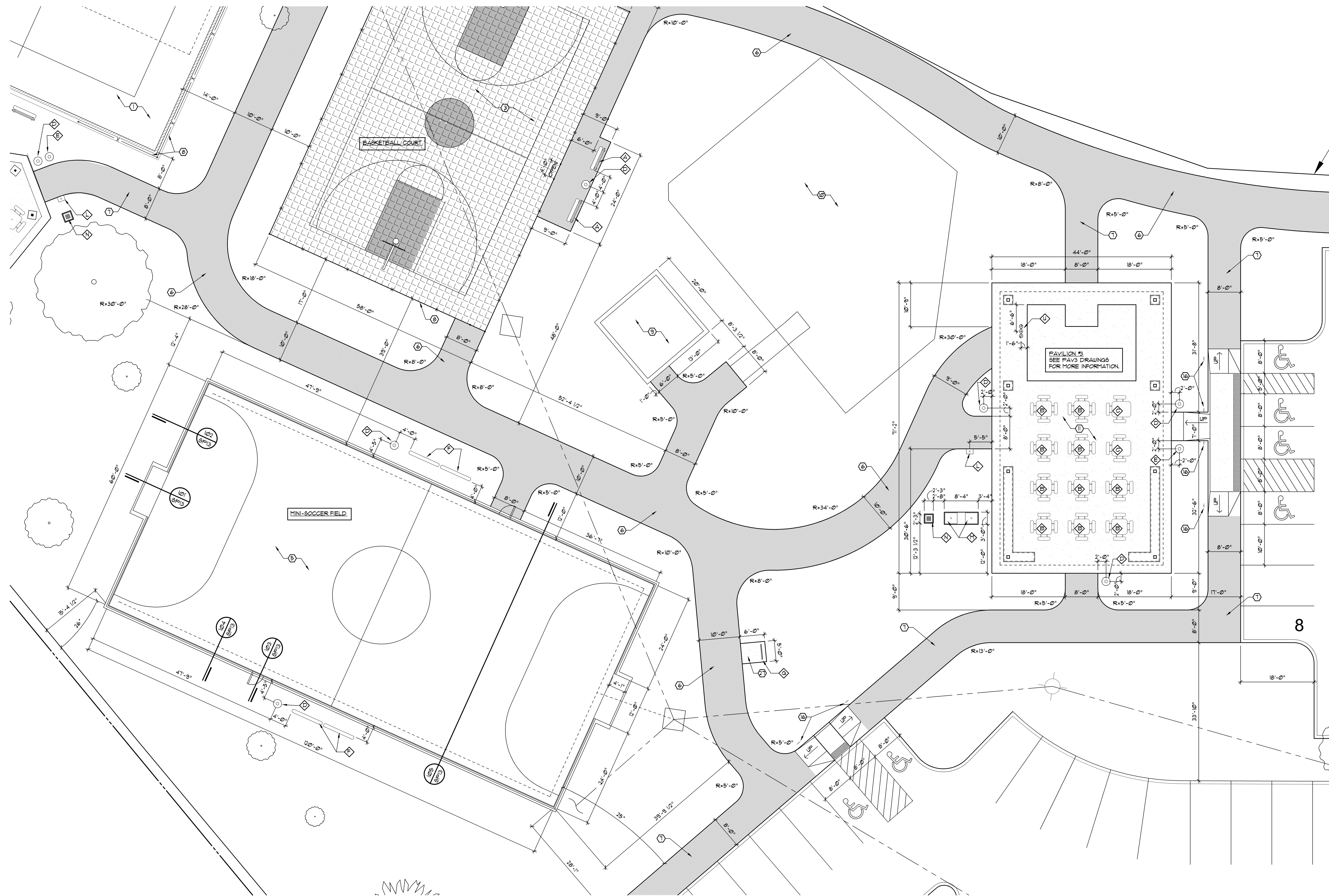
job no. 16078A sheet no. SP05

101 Partial Enlarged Site Plan Scale: 1" = 10'-0"



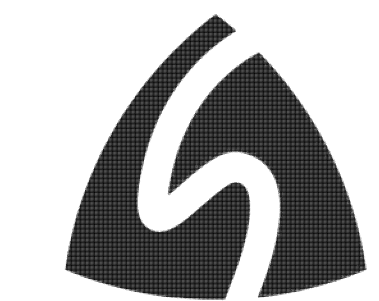
PAVILION #4 SEE PAV145 DRAWINGS FOR MORE INFORMATION.

SEE SHEET SP12 FOR MORE INFORMATION



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REFER TO SHEET SP02 FOR KEYED NOTES AND SITE AMENITIES.



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

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City of Sterling Heights
 Dodge Park Improvements
 Sterling Heights, Michigan

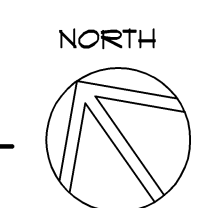
Partial Enlarged Site Plan
 Mini Soccer Field
 Pavilion #3

project sheet title



job no. sheet no.
 16078A SP06

101 Partial Enlarged Site Plan
 Scale: 1" = 10'-0"



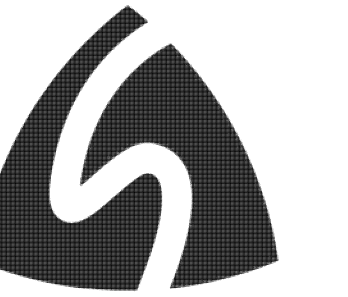


PAVILION #2
SEE PAV2 DRAWINGS
FOR MORE INFORMATION

RENOVATED RESTROOM
BUILDING
SEE RRB DRAWINGS
FOR MORE INFORMATION

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REFER TO SHEET SP02 FOR
KEYED NOTES AND SITE
AMENITIES.



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Sterling Heights, Michigan
project

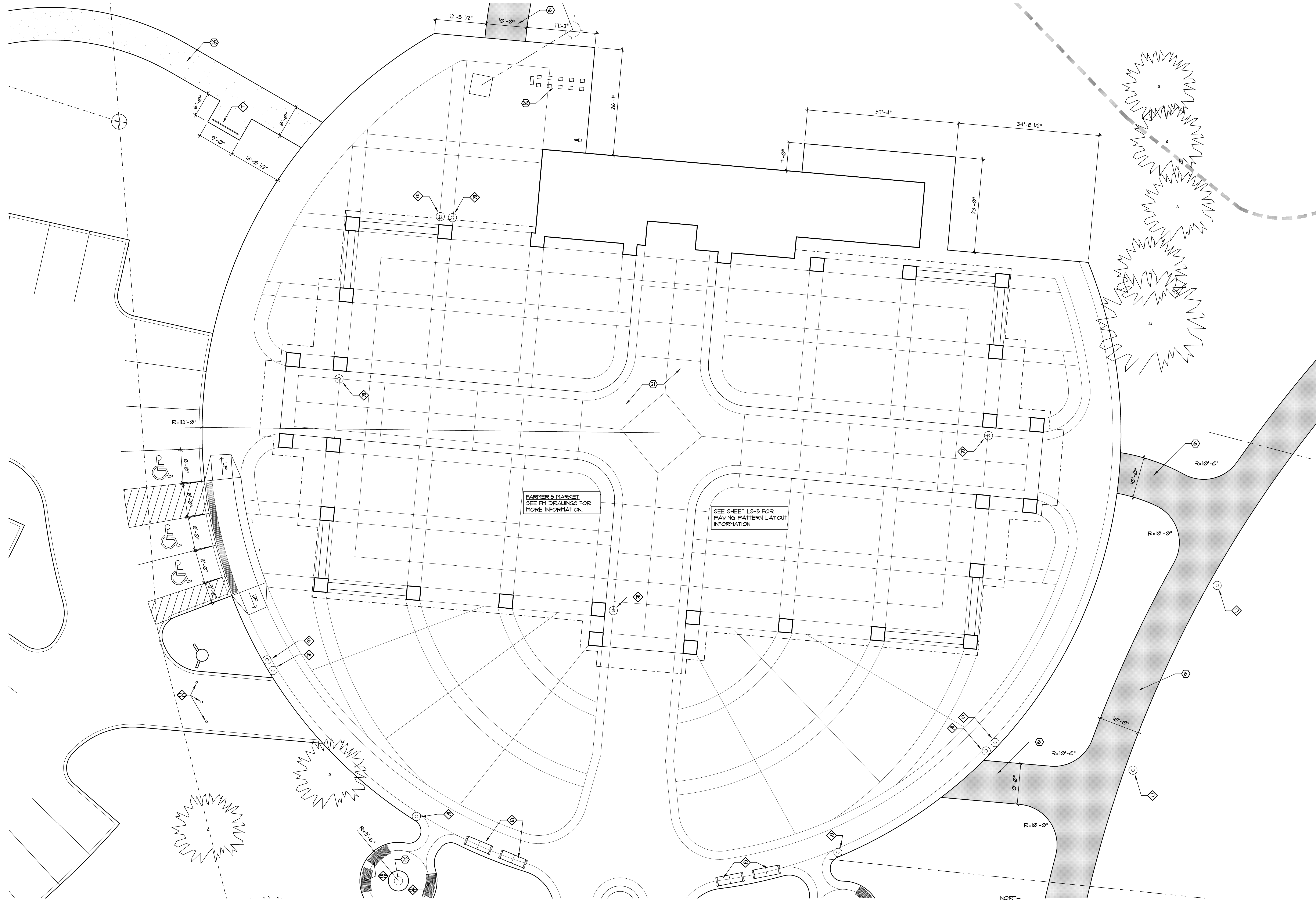
Partial Enlarged Site Plan
Pavilion #2
Existing Restroom Building
sheet title

Dorchen/Martin Associates, Inc.
Architects/Planners
2985 Greenfield Rd., Suite 107
Southfield, Michigan 48076
(248) 557-1062
Fax: (248) 557-1231

job no. 16078A
sheet no. SP07

Partial Enlarged Site Plan
Scale: 1" = 10'-0"

NORTH



architect seal

REFER TO SHEET SF02 FOR KEYED NOTES AND SITE AMENITIES.



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

drawn by

checked by

City of Sterling Heights
 Dodge Park Improvements
 Sterling Heights, Michigan
 project

Partial Enlarged Site Plan
 Farmer's Market
 sheet title

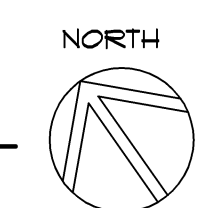
Dorchen/Martin Associates, Inc.
 Architects/Planners
 29895 Greenfield Rd., Suite 107
 Southfield, Michigan 48076
 (248) 557-1062
 Fax: (248) 557-1231

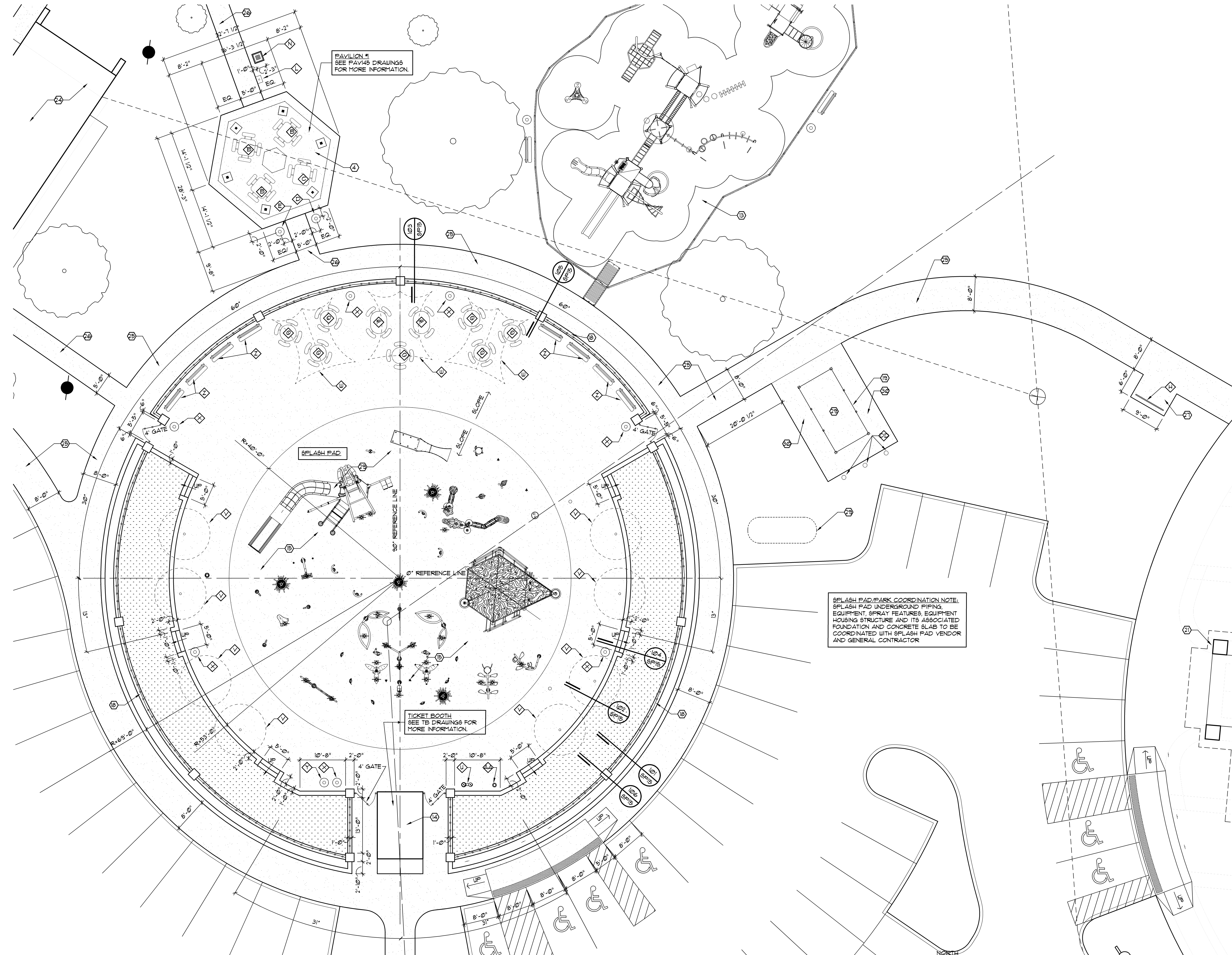
job no.

sheet no.

16078A SP09

Partial Enlarged Site Plan
 Scale: 1" = 10'-0"





PAVILION #1
SEE PAV#15 DRAWINGS
FOR MORE INFORMATION.

TICKET BOOTH
SEE TB DRAWINGS FOR
MORE INFORMATION.

SPLASH PAD/PARK COORDINATION NOTE:
SPLASH PAD UNDERGROUND PIPING,
EQUIPMENT, SPRAY FEATURES, EQUIPMENT
HOUSING STRUCTURE AND ITS ASSOCIATED
FOUNDATION AND CONCRETE SLAB TO BE
COORDINATED WITH SPLASH PAD VENDOR
AND GENERAL CONTRACTOR

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Use figured dimensions only

architect seal

REFER TO SHEET SP02 FOR
KEYED NOTES AND SITE
AMENITIES.



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

drawn by _____ checked by _____

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
project
Partial Enlarged Site Plan
Splash Pad/Park
Pavilion #1
sheet title

Dorchen/Martin Associates, Inc.
Architects/Planners
29895 Greenfield Rd., Suite 107
Southfield, Michigan 48076
(248) 557-1062
Fax: (248) 557-1231

job no. 16078A sheet no. SP08

101 Partial Enlarged Site Plan
SP08 Scale: 1" = 10'-0"

architect seal

REFER TO SHEET 6P02 FOR KEYED NOTES AND SITE AMENITIES.



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

drawn by

checked by

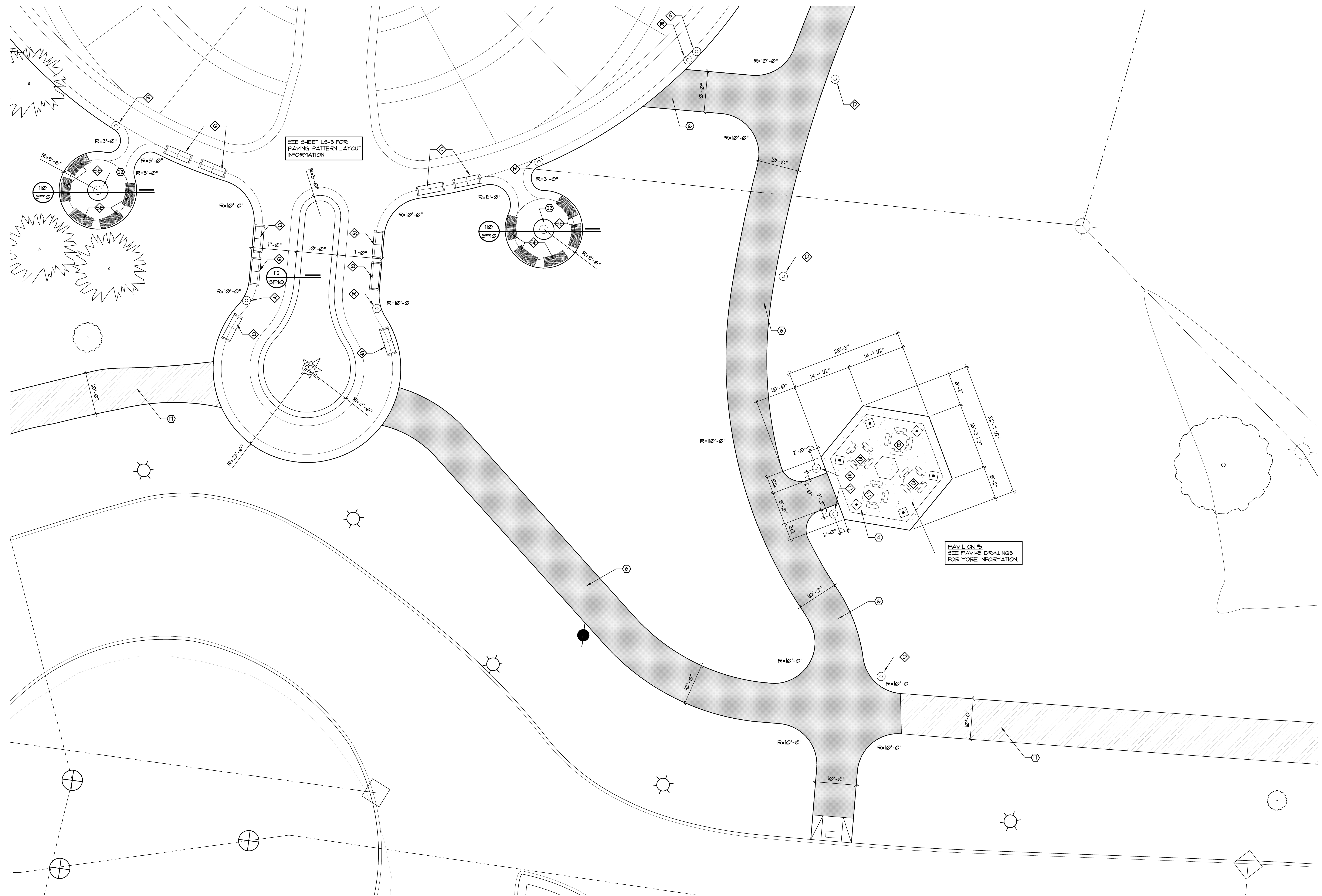
City of Sterling Heights
 Dodge Park Improvements
 Sterling Heights, Michigan

Partial Enlarged Site Plan
 Fire Pit Area
 Pavilion #5

project sheet title

Dorchen/Martin Associates, Inc.
 Architects/Planners
 2985 Greenfield Rd., Suite 107
 Southfield, Michigan 48076
 (248) 557-1062
 Fax: (248) 557-1231

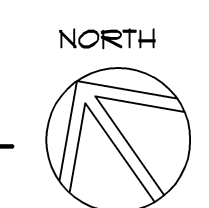
job no. sheet no.
16078A SP10



SEE SHEET LS-5 FOR PAVING PATTERN LAYOUT INFORMATION

PAVILION #5 SEE PAV#5 DRAWINGS FOR MORE INFORMATION

Partial Enlarged Site Plan Scale: 1" = 10'-0"



REFER TO SHEET SP02 FOR KEYED NOTES AND SITE AMENITIES.



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

drawn by

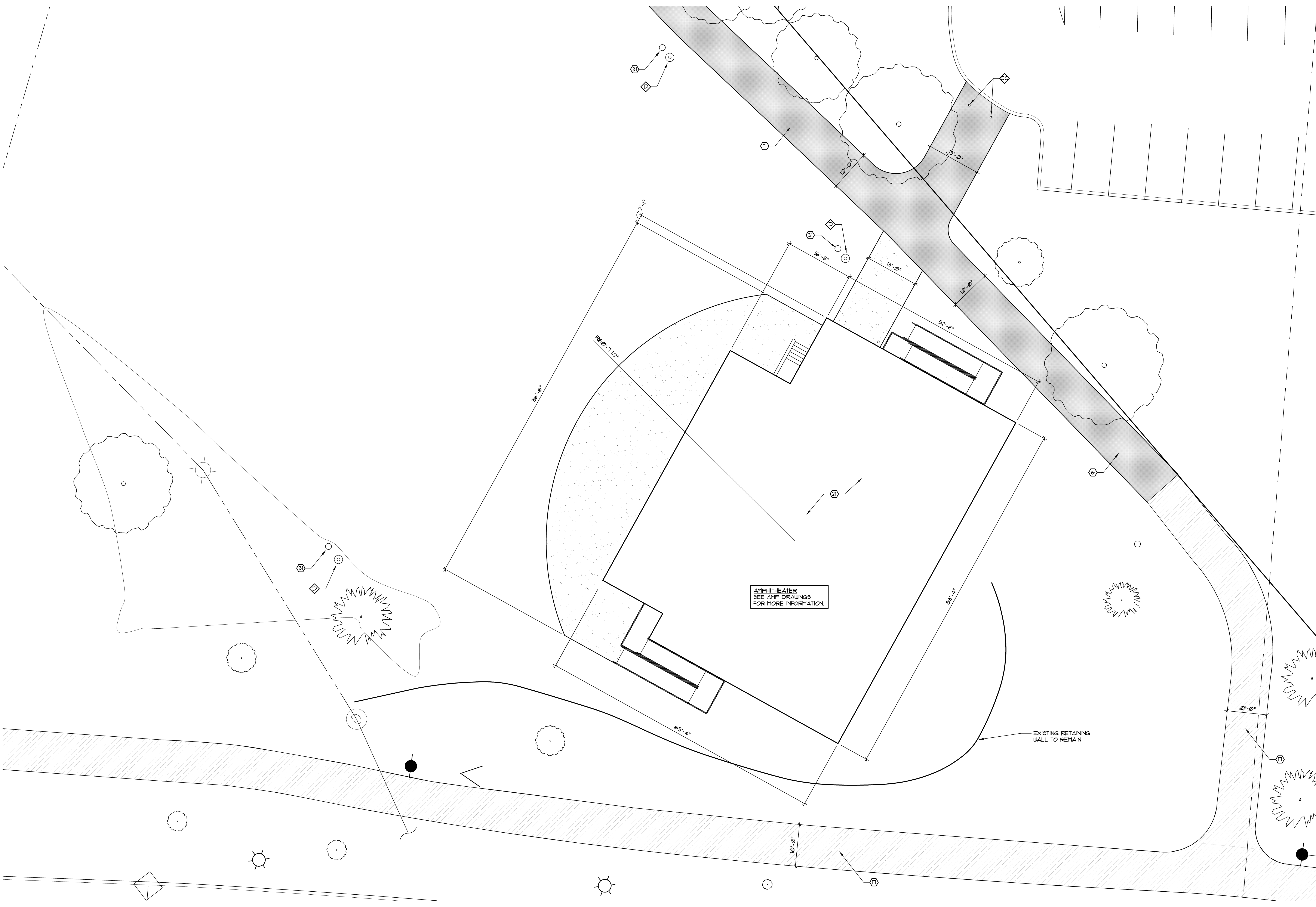
checked by

City of Sterling Heights
 Dodge Park Improvements
 Sterling Heights, Michigan
 project

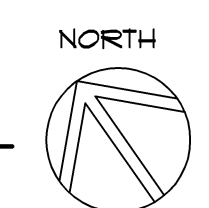
Partial Enlarged Site Plan
 Amphitheater
 sheet title

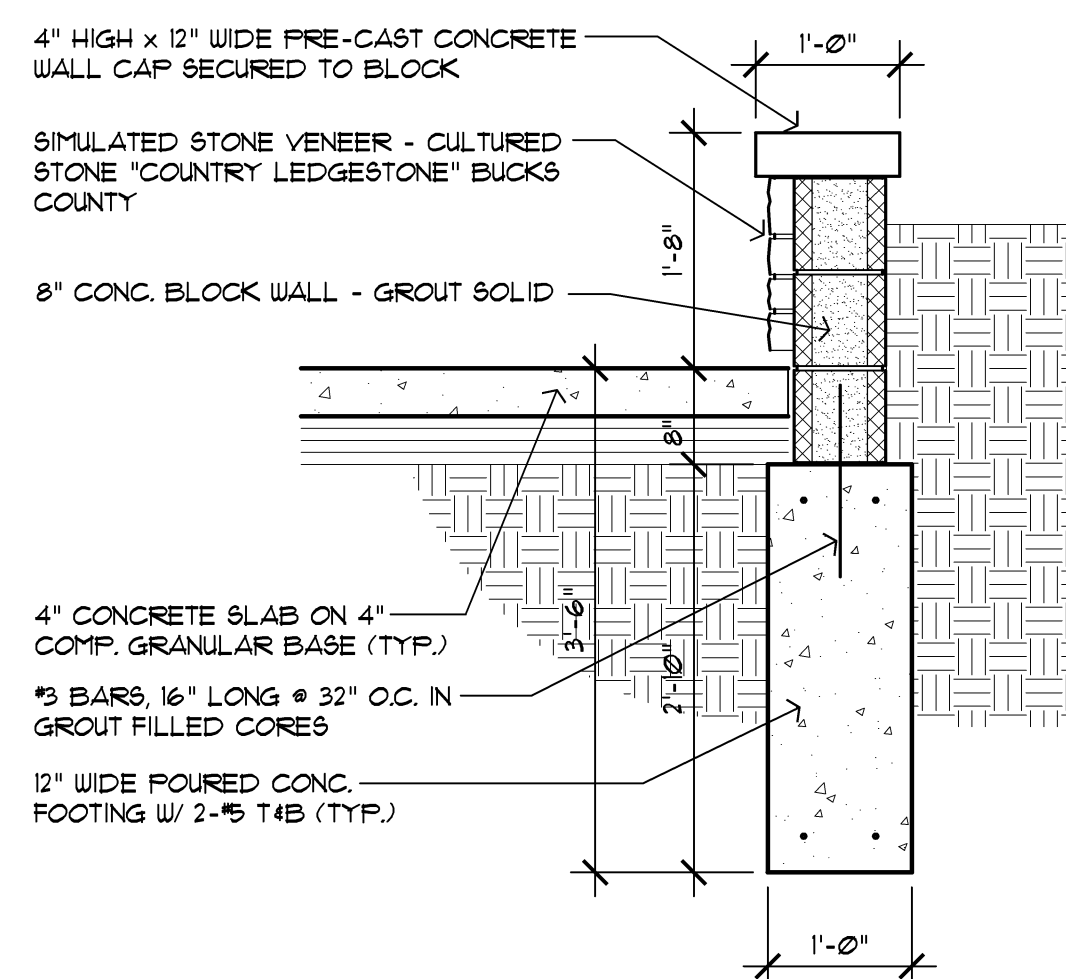
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 Southfield, Michigan 48076
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job no. 16078A
 sheet no. SP11

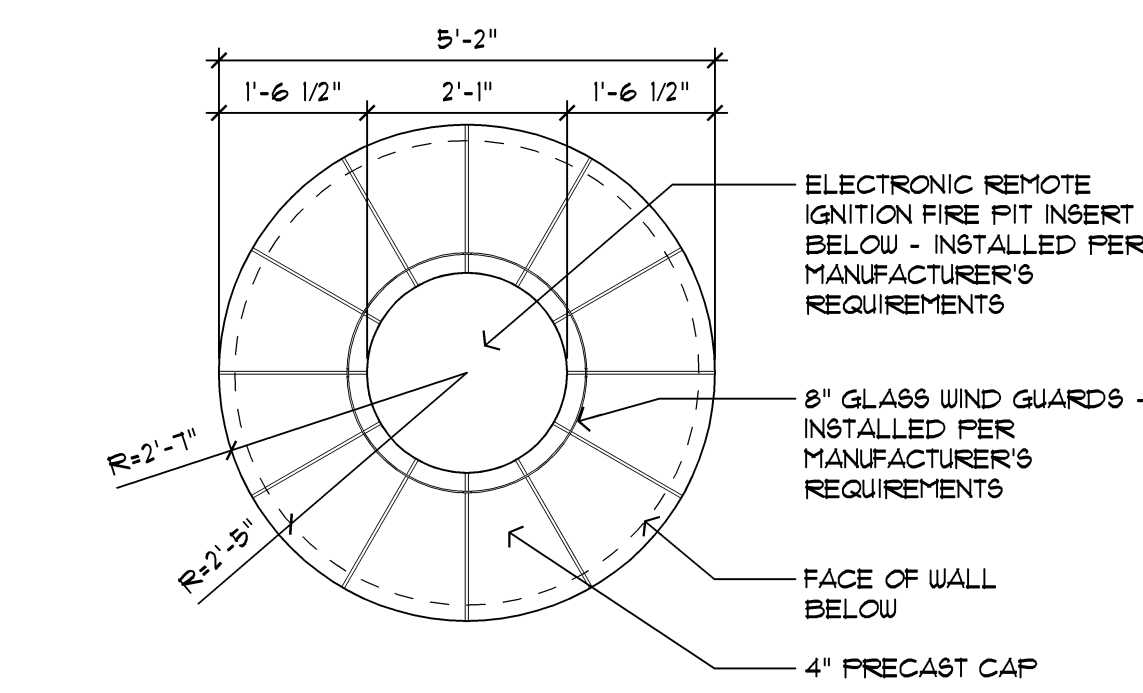


Partial Enlarged Site Plan
 Scale: 1" = 10'-0"

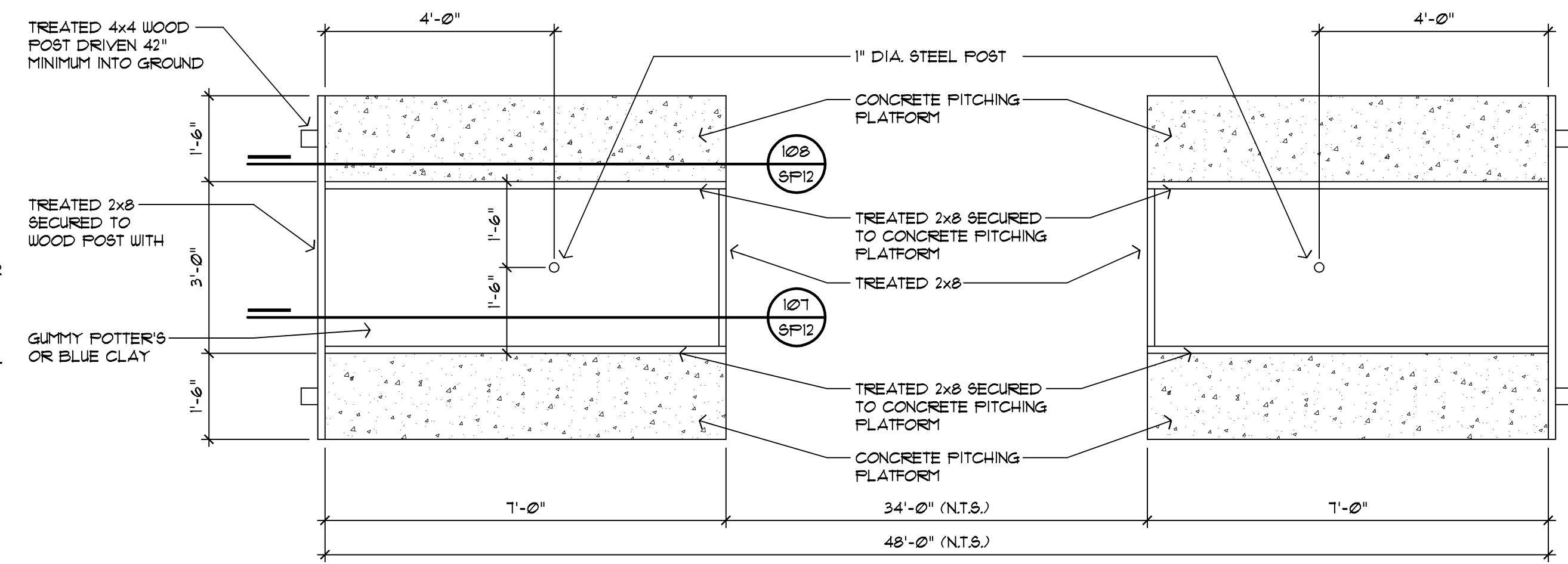




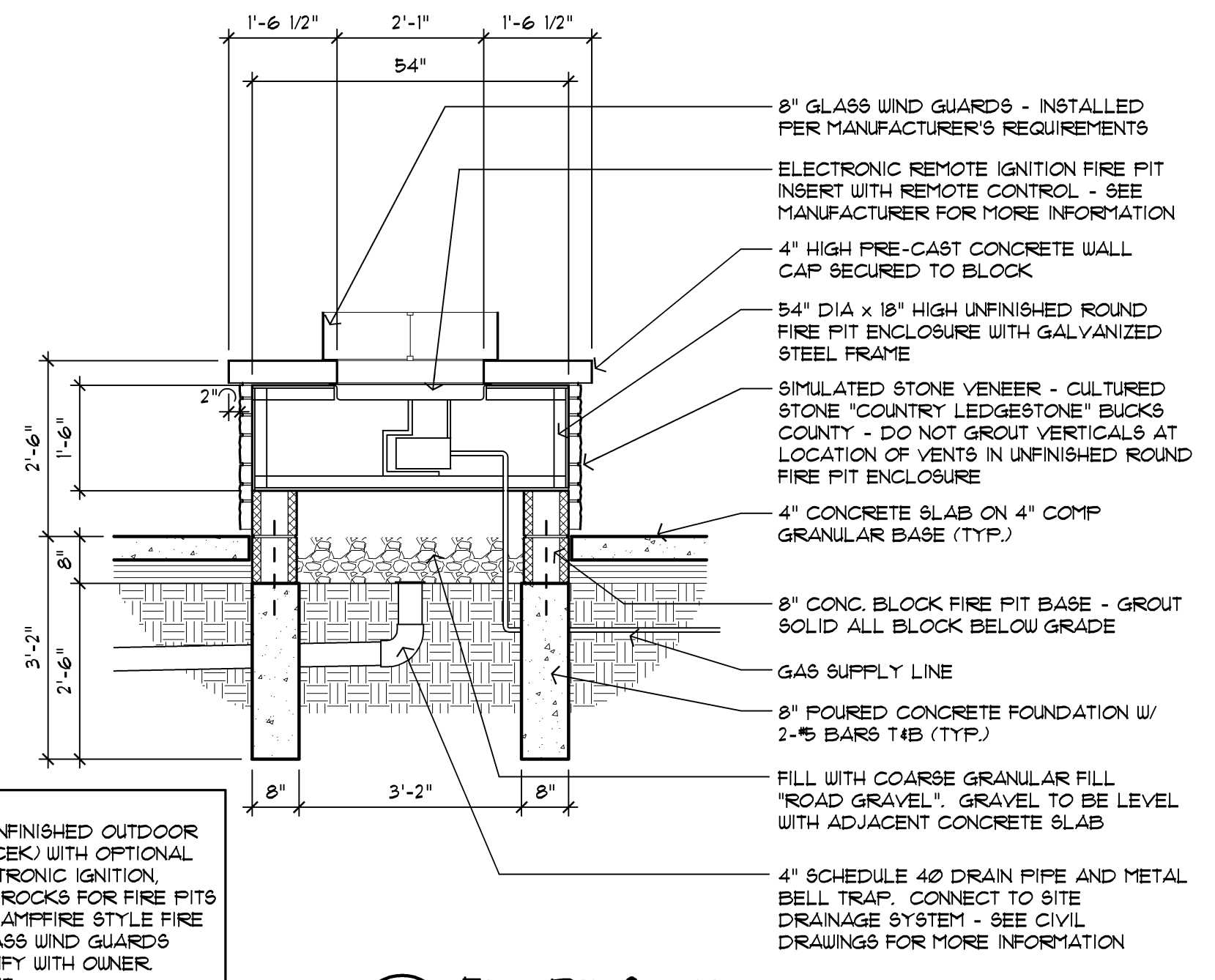
112 Raised Planter Wall Detail
Scale: 3/4"=1'-0"



113 Fire Pit Plan
Scale: 1/2"=1'-0"

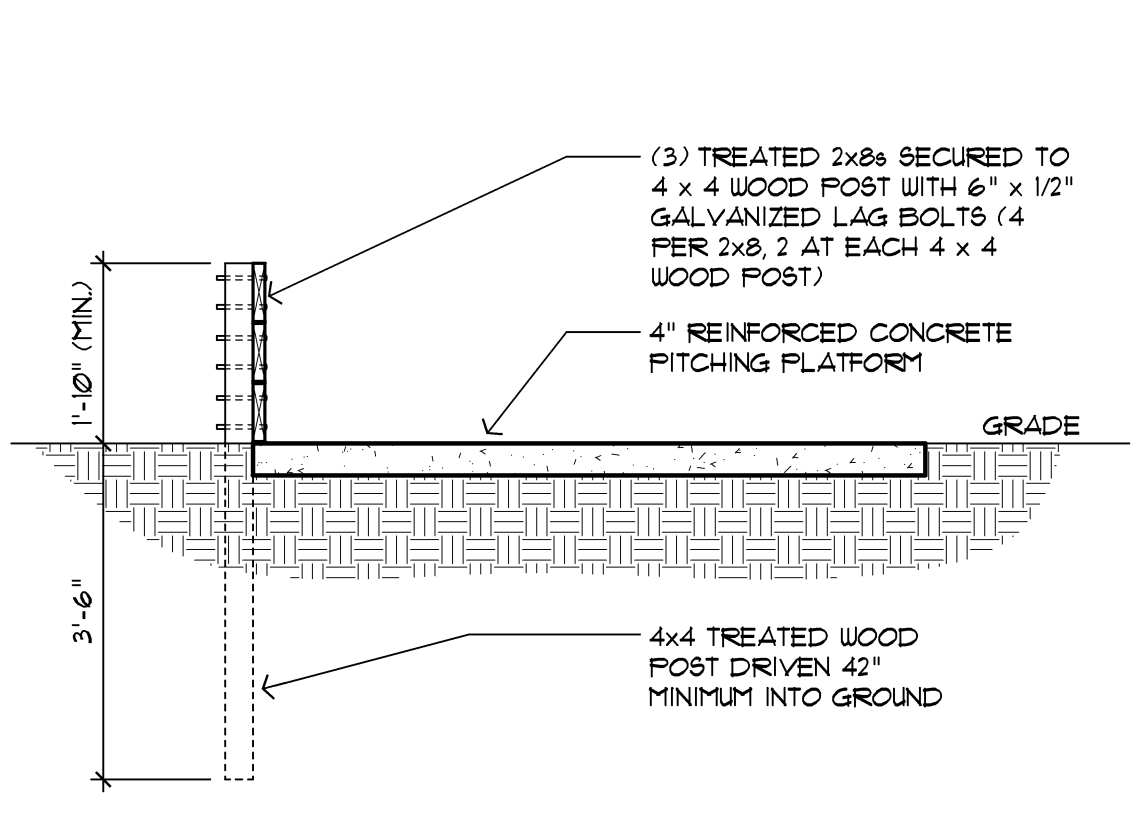


109 Enlarged Horseshoe Pit Plan
Scale: 1/2"=1'-0"

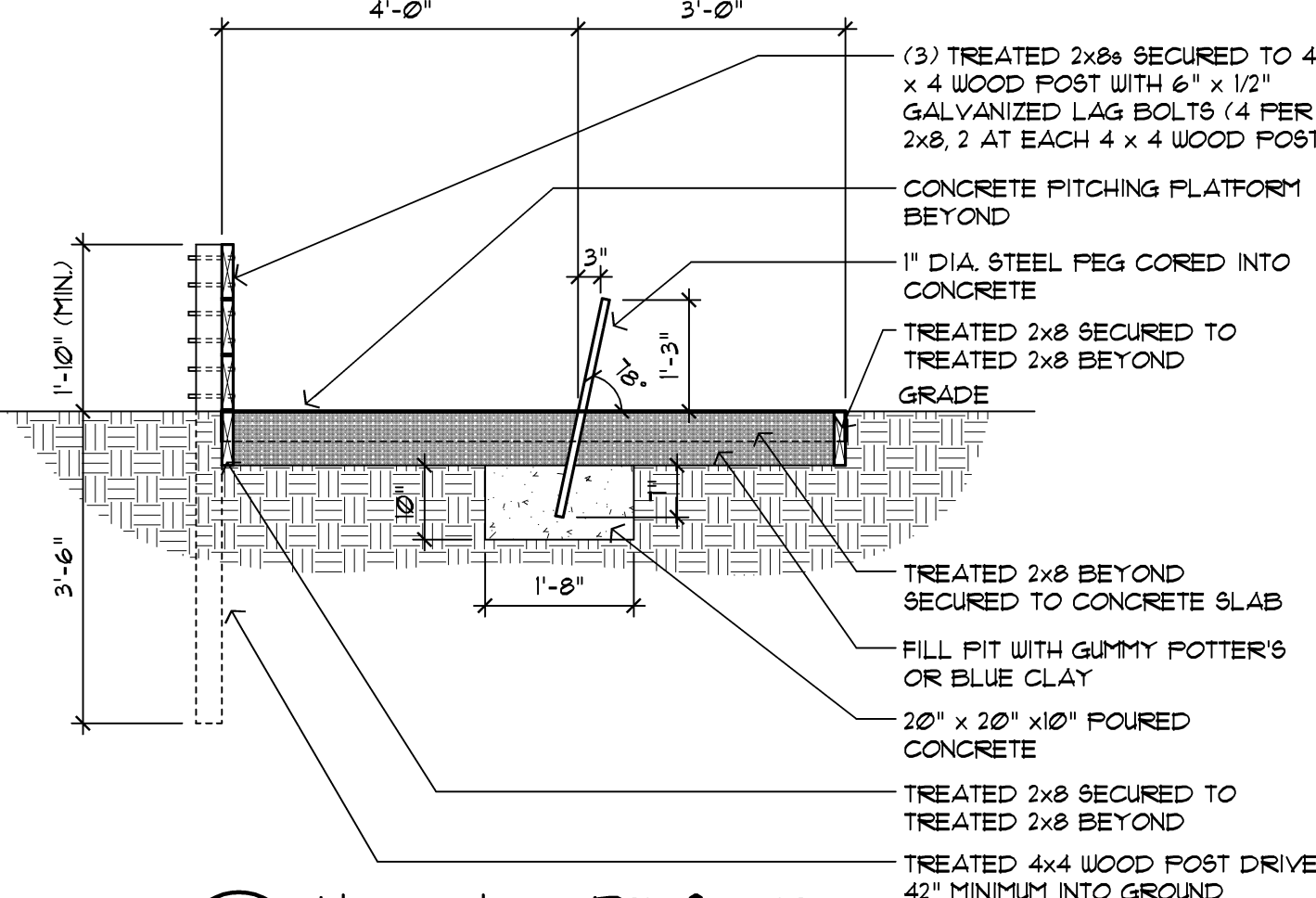


110 Fire Pit Section
Scale: 1/2"=1'-0"

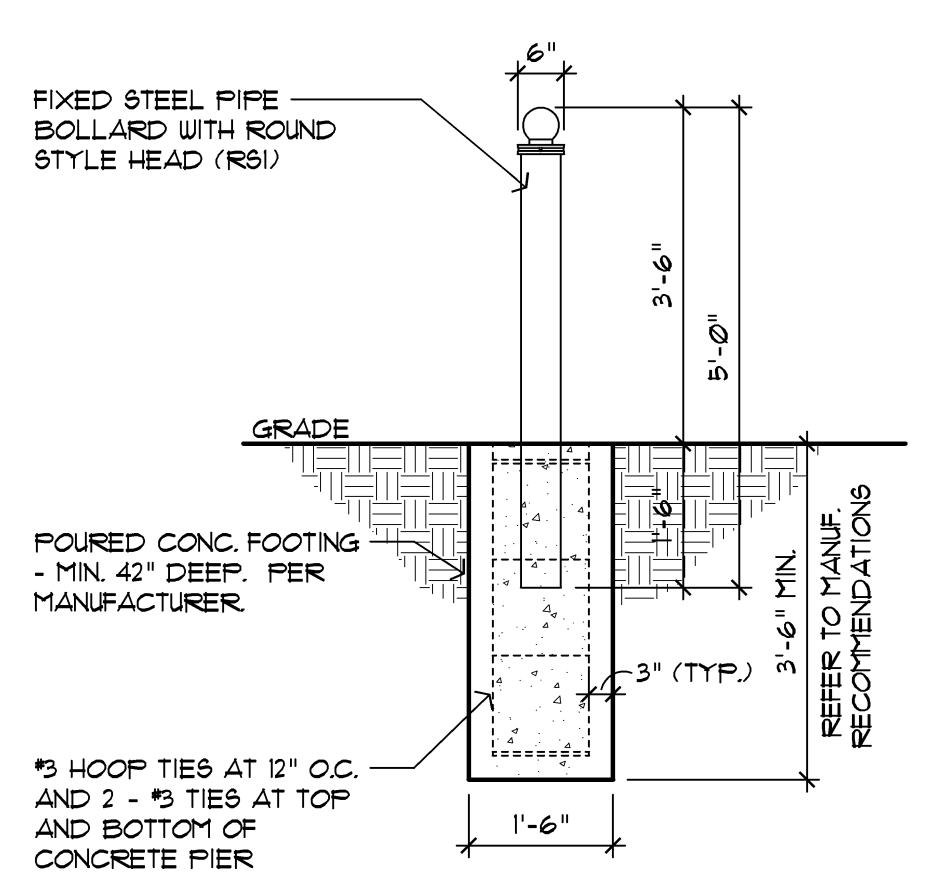
FIRE PIT NOTE:
HPC CONTROLS 54" ROUND UNFINISHED OUTDOOR GAS FIRE PIT KIT (US4R2595CEK) WITH OPTIONAL REMOTE CONTROL FOR ELECTRONIC IGNITION NATURAL GAS, BLACK RIVER ROCKS FOR FIRE PITS (FFR84BL), HPC CONTROLS CAMPFIRE STYLE FIRE LOG SET (FFL24C6), AND GLASS WIND GUARDS (UG30-RD) - OR EQUAL. VERIFY WITH OWNER. PROVIDE COVER FOR FIRE PIT.



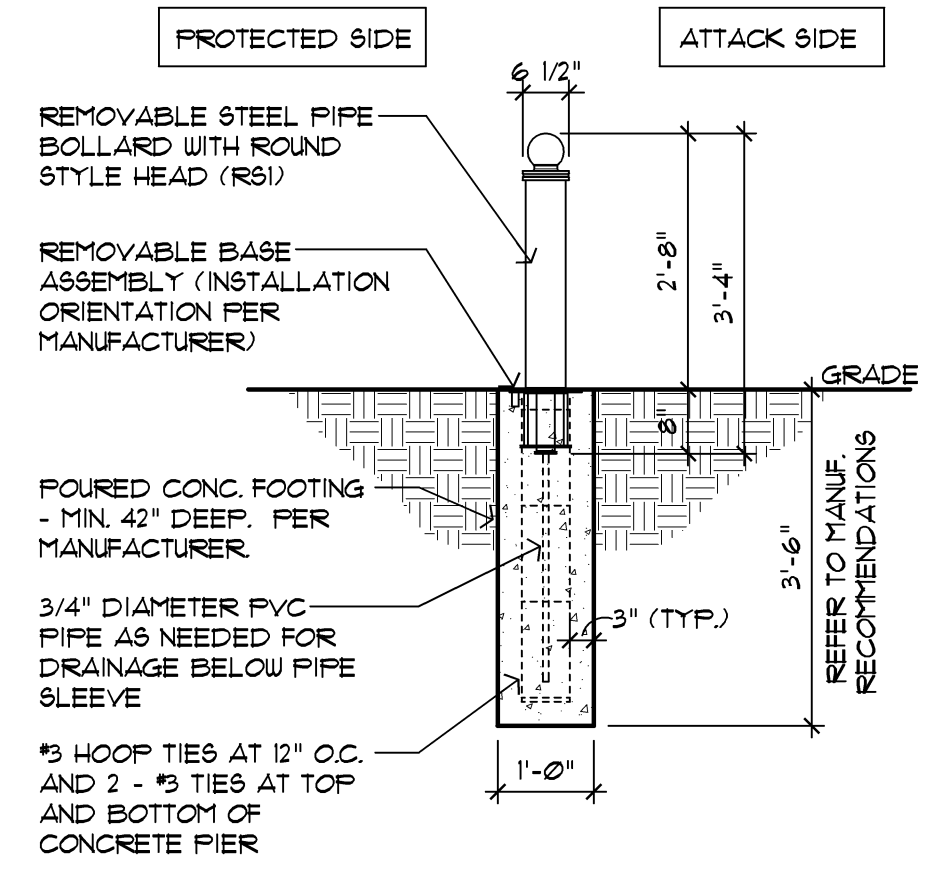
108 Horseshoe Pit Section
Scale: 1/2"=1'-0"



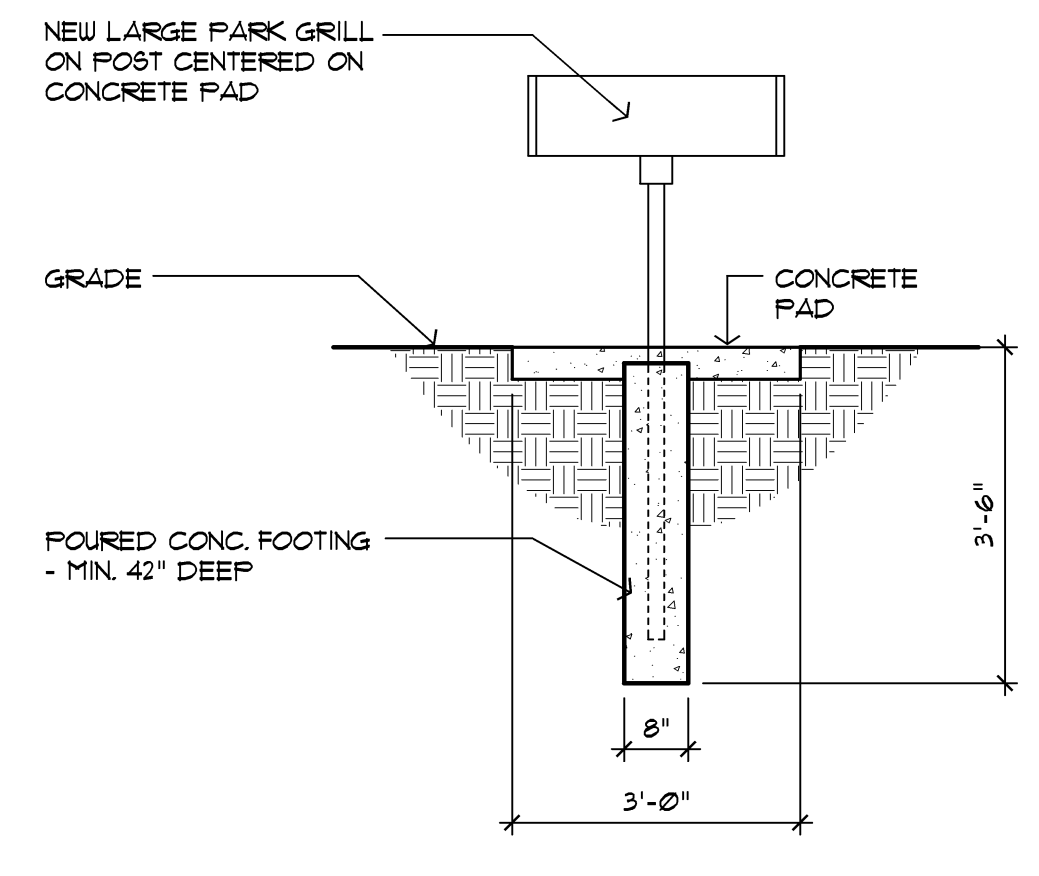
107 Horseshoe Pit Section
Scale: 1/2"=1'-0"



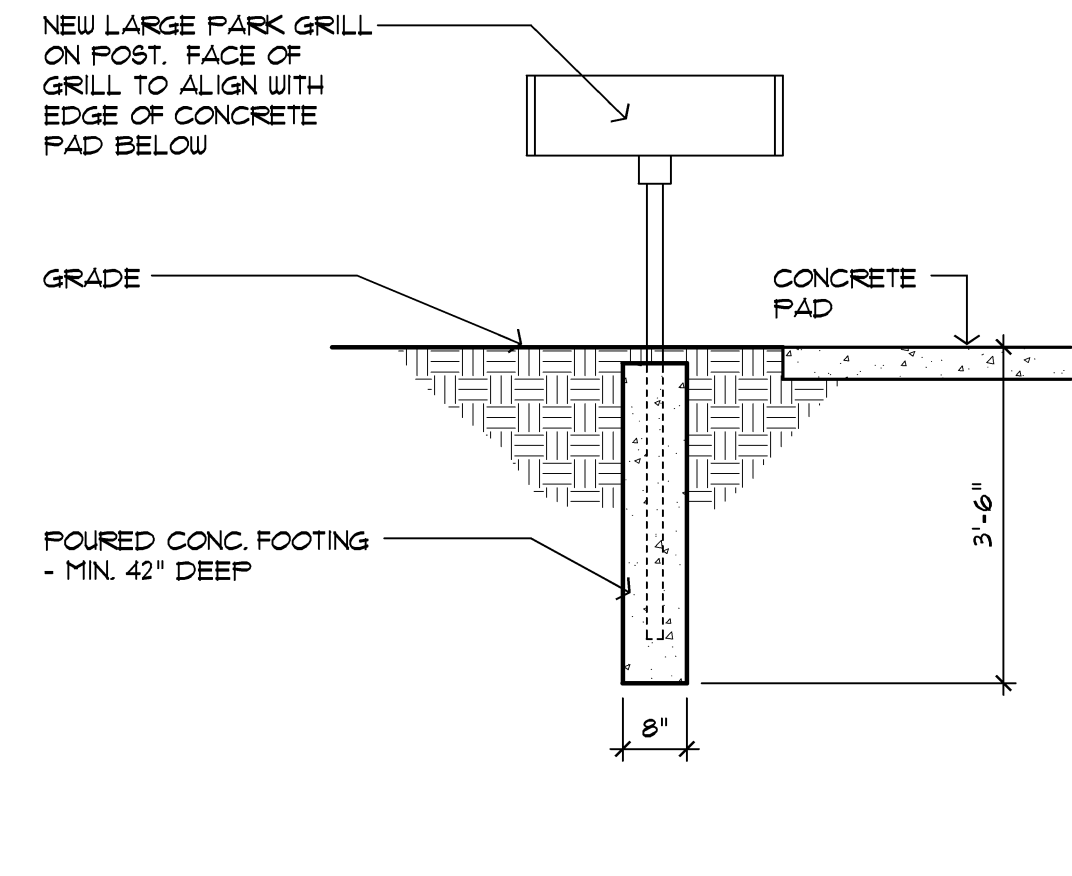
106 Fixed Bollard Detail
Scale: 1/2"=1'-0"



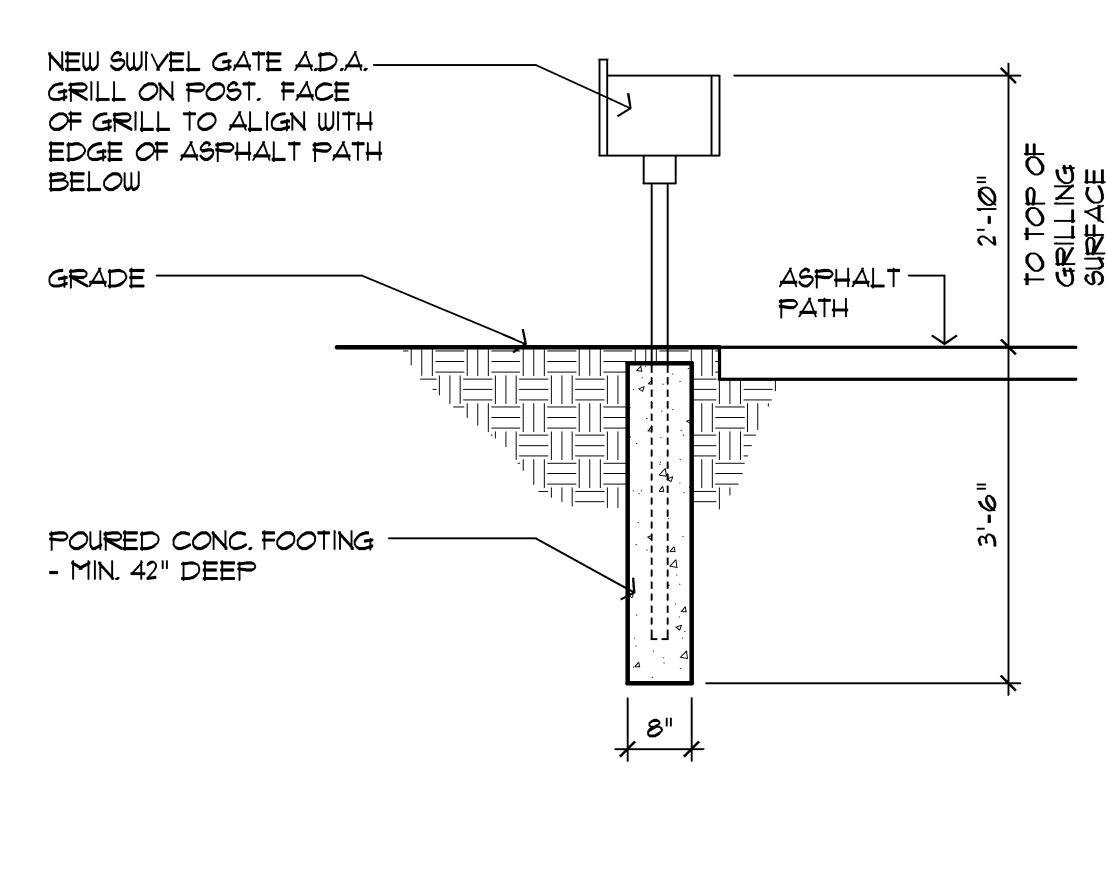
105 Removable Bollard Detail
Scale: 1/2"=1'-0"



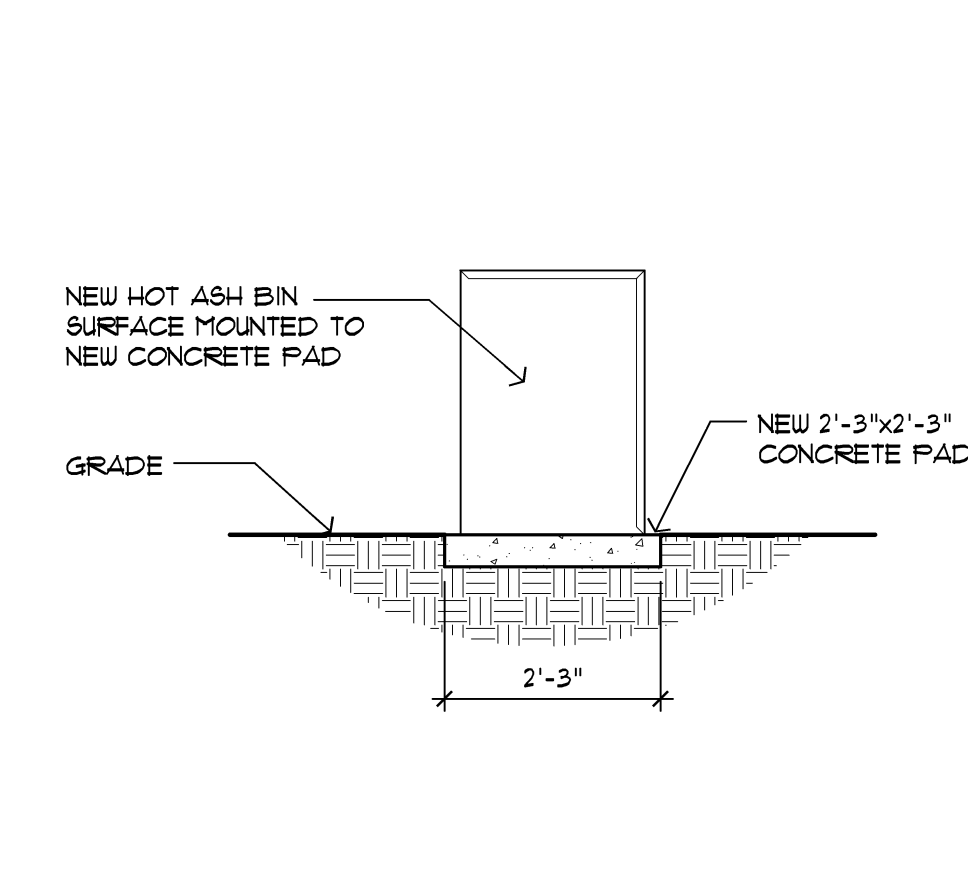
104 Large Park Grill Detail @ Shelter #3
Scale: 1/2"=1'-0"



103 Large Park Grill Detail @ Shelter #2
Scale: 1/2"=1'-0"



102 Swivel Grate ADA Grill Detail
Scale: 1/2"=1'-0"



101 Hot Ash Bin Detail
Scale: 1/2"=1'-0"

architect seal



Issue / Revision Date	Checked By
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

drawn by _____ checked by _____

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
Project _____ sheet title _____

Dorchen/Martin Associates, Inc.
Architects/Planners
2995 Greenfield Rd., Suite 107
Southfield, Michigan 48076
(248) 557-1062
Fax: (248) 557-1231

job no. _____ sheet no. _____
16078A SP12

REFER TO SHEET 8P01 FOR KEYED NOTES AND SITE AMENITIES.



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

drawn by

checked by

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
project
sheet title

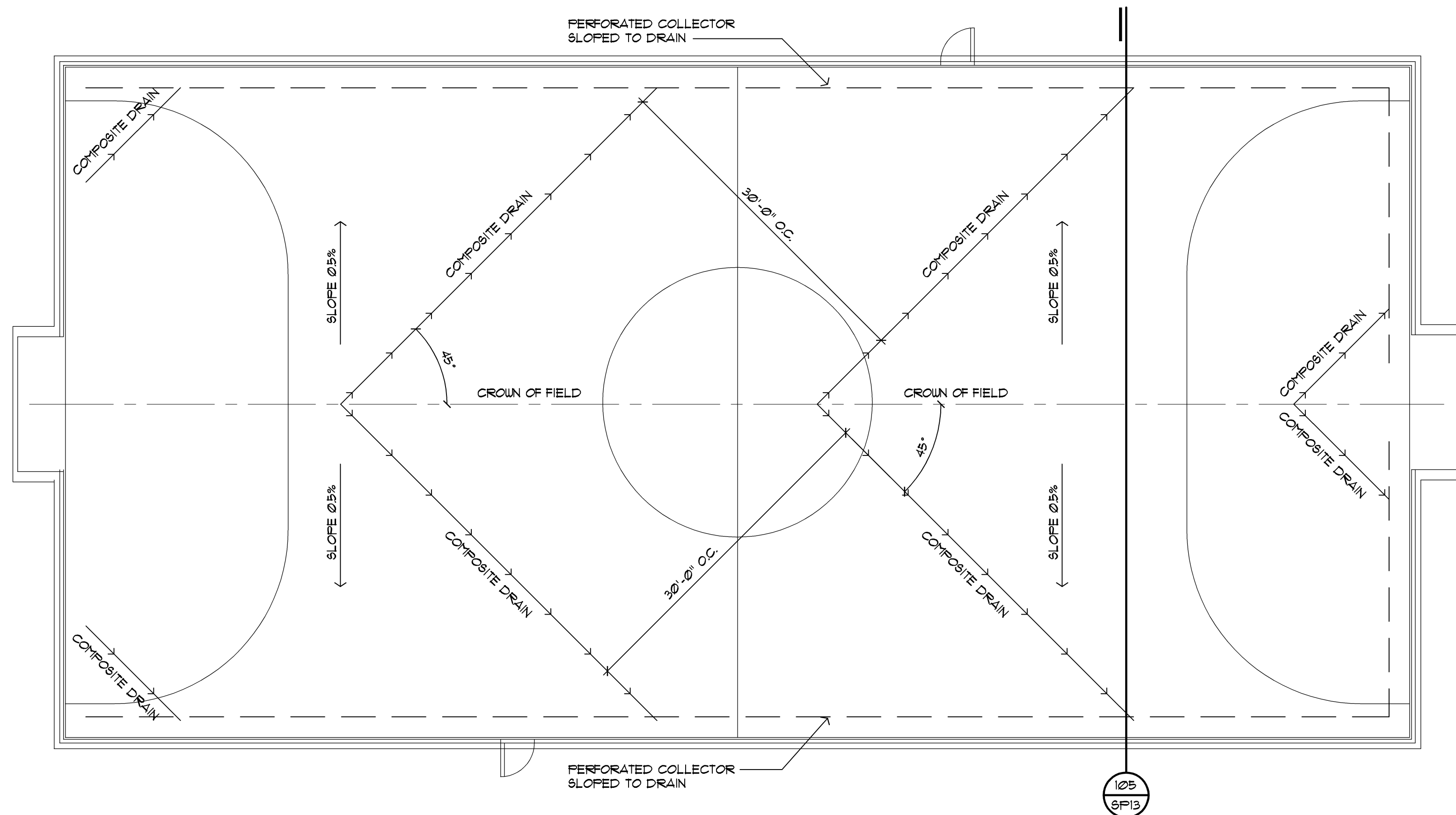


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Architects/Planners
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Southfield, Michigan 48076
(248) 557-1062
Fax: (248) 557-1231

job no.

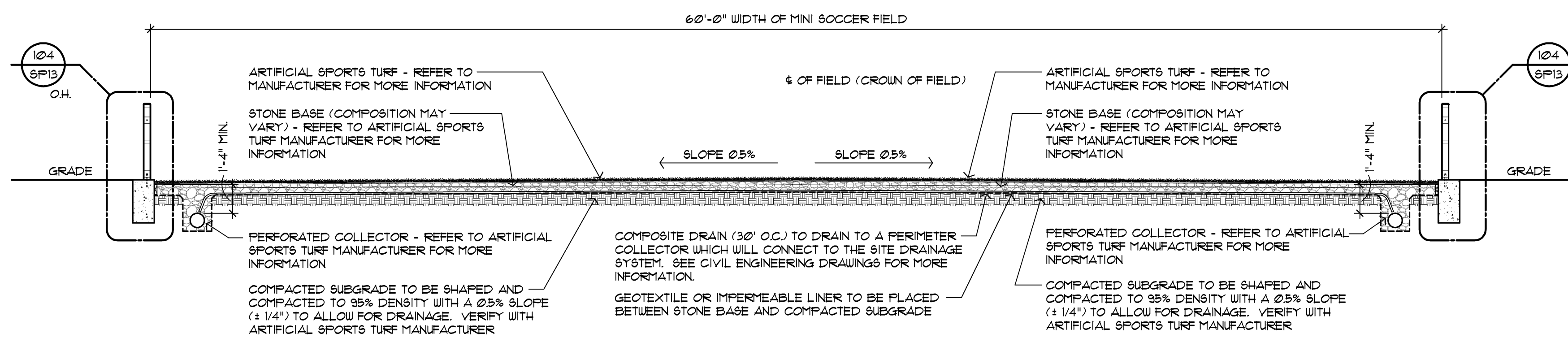
sheet no.

16078A SP13



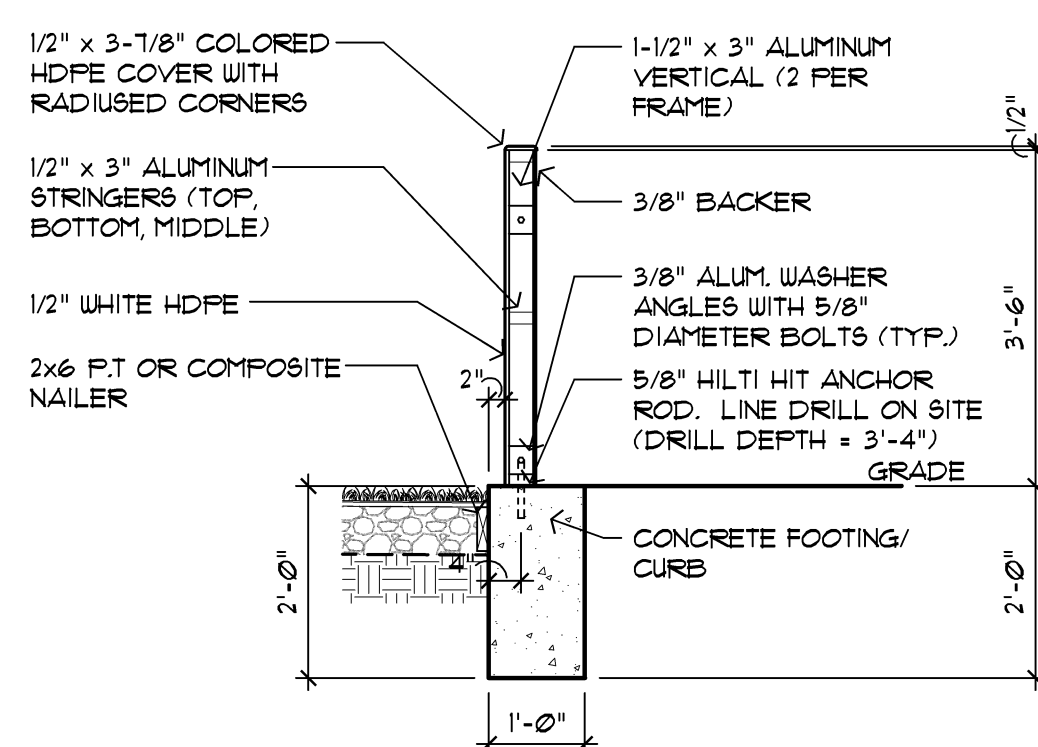
106 Mini Soccer Field Drainage Plan

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



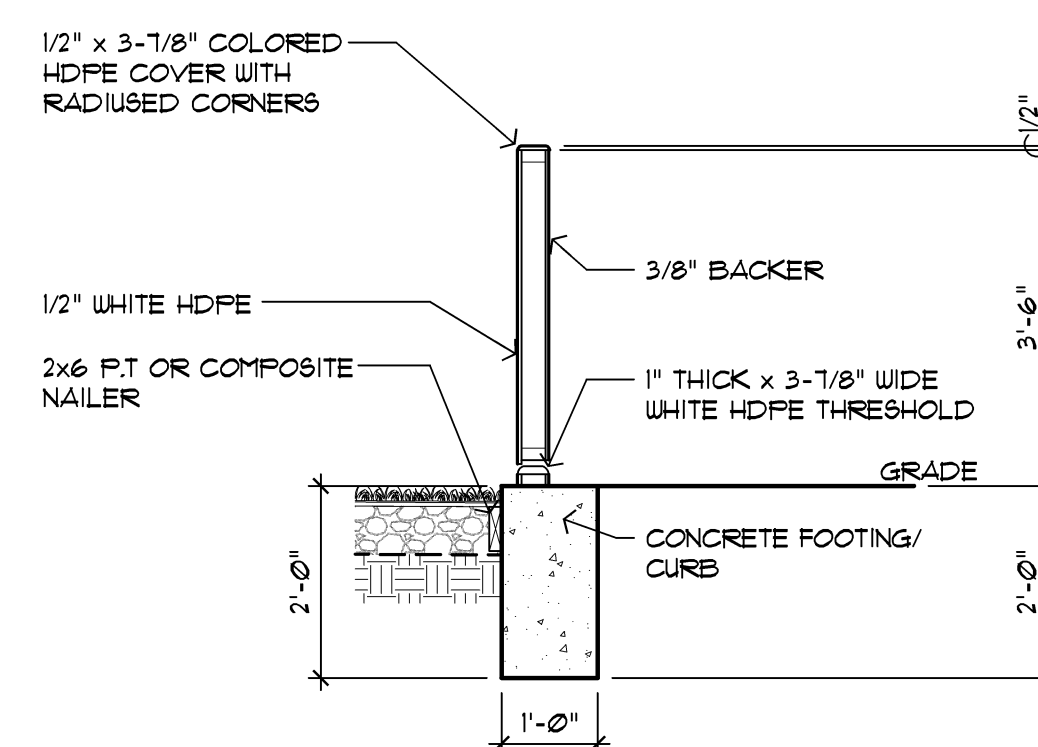
105 Mini Soccer Field Section

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



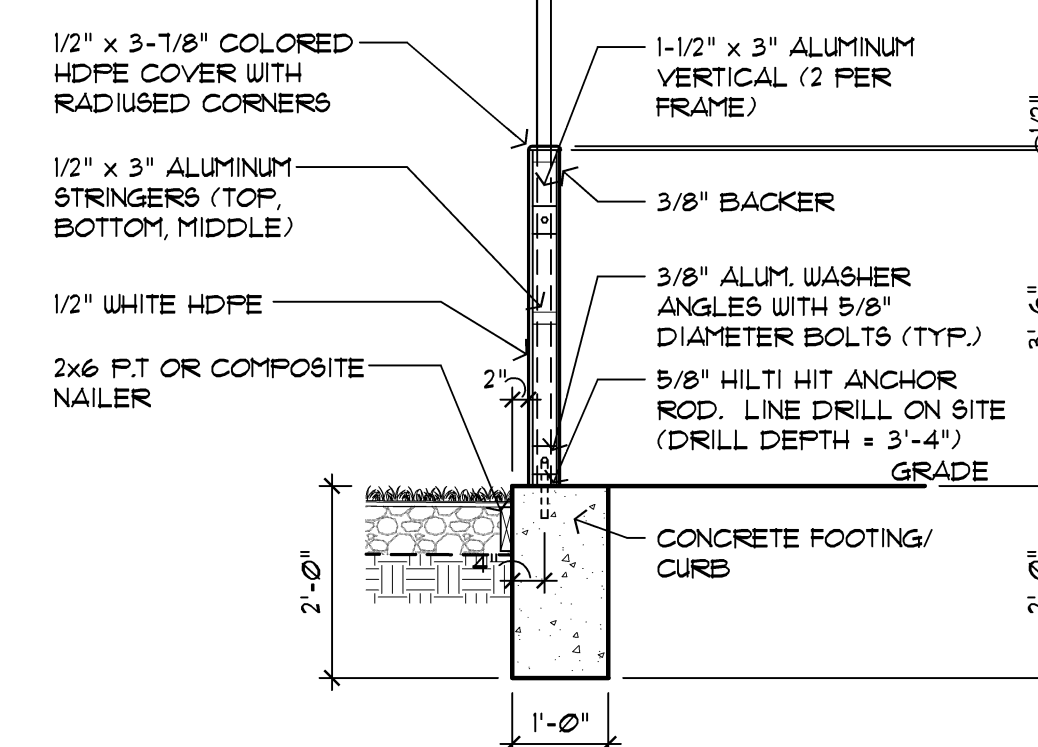
Mini Soccer Field Section Through Side Boards

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



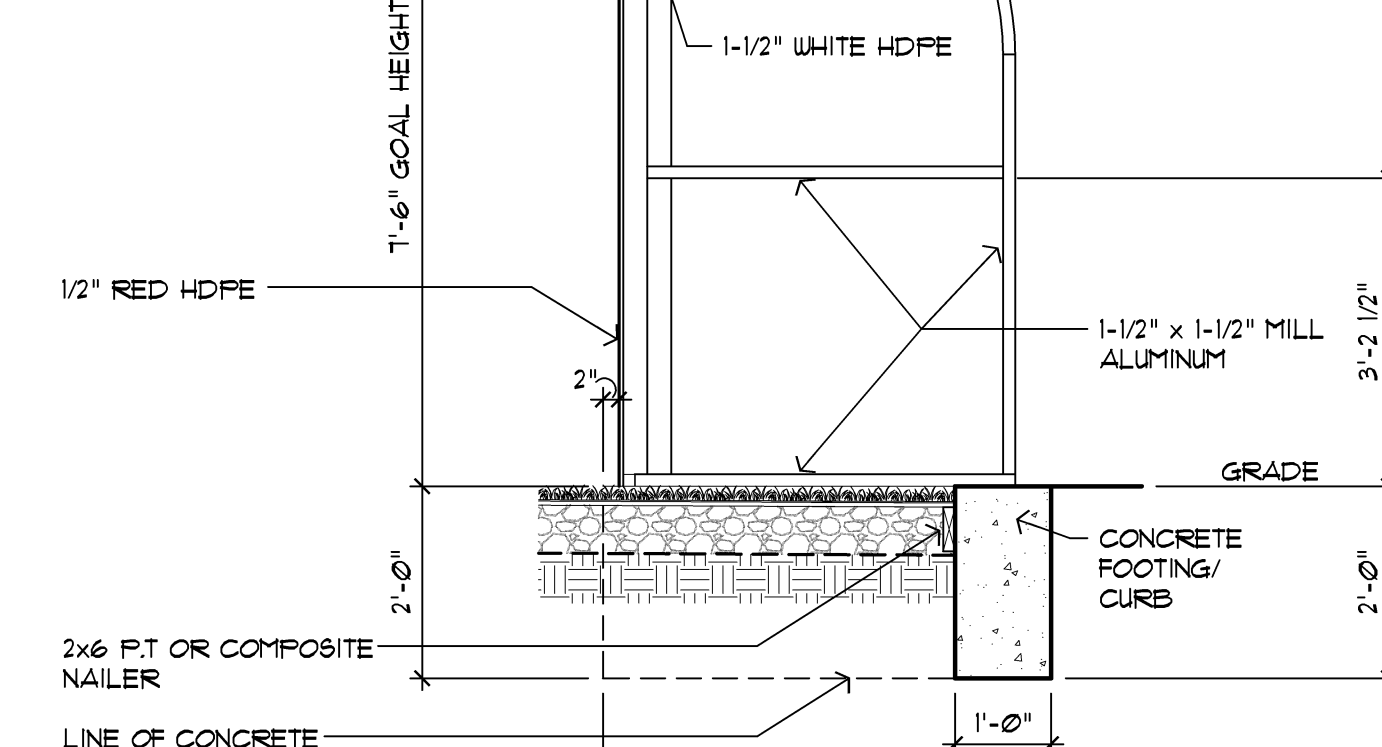
Mini Soccer Field Section Through Access Gate

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



Mini Soccer Field Section Through End Boards

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



Mini Soccer Field - Section Through Goal

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



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

drawn by checked by

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
project

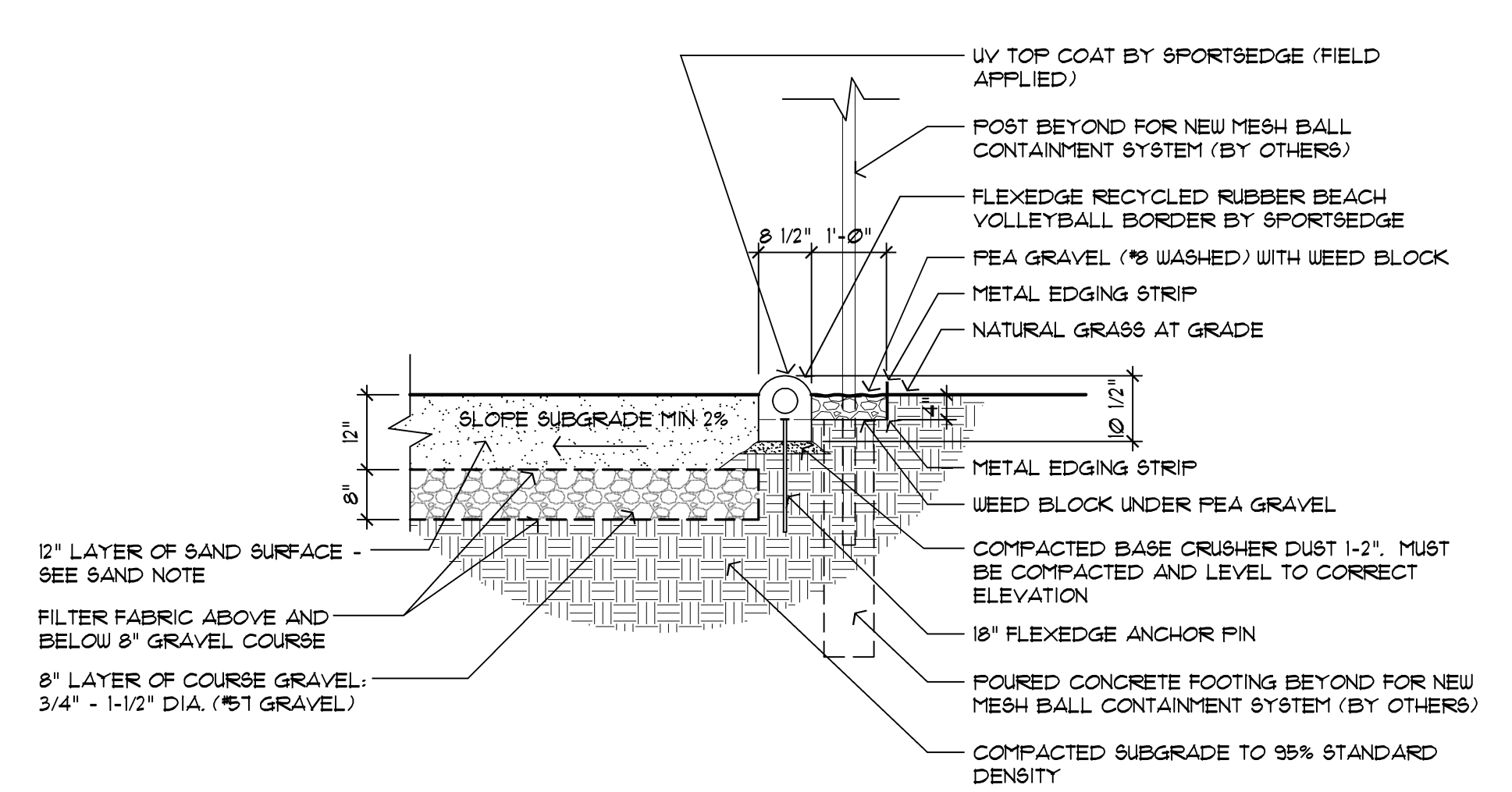
Sterling Heights
Site Details
Sand Volleyball Court
sheet title



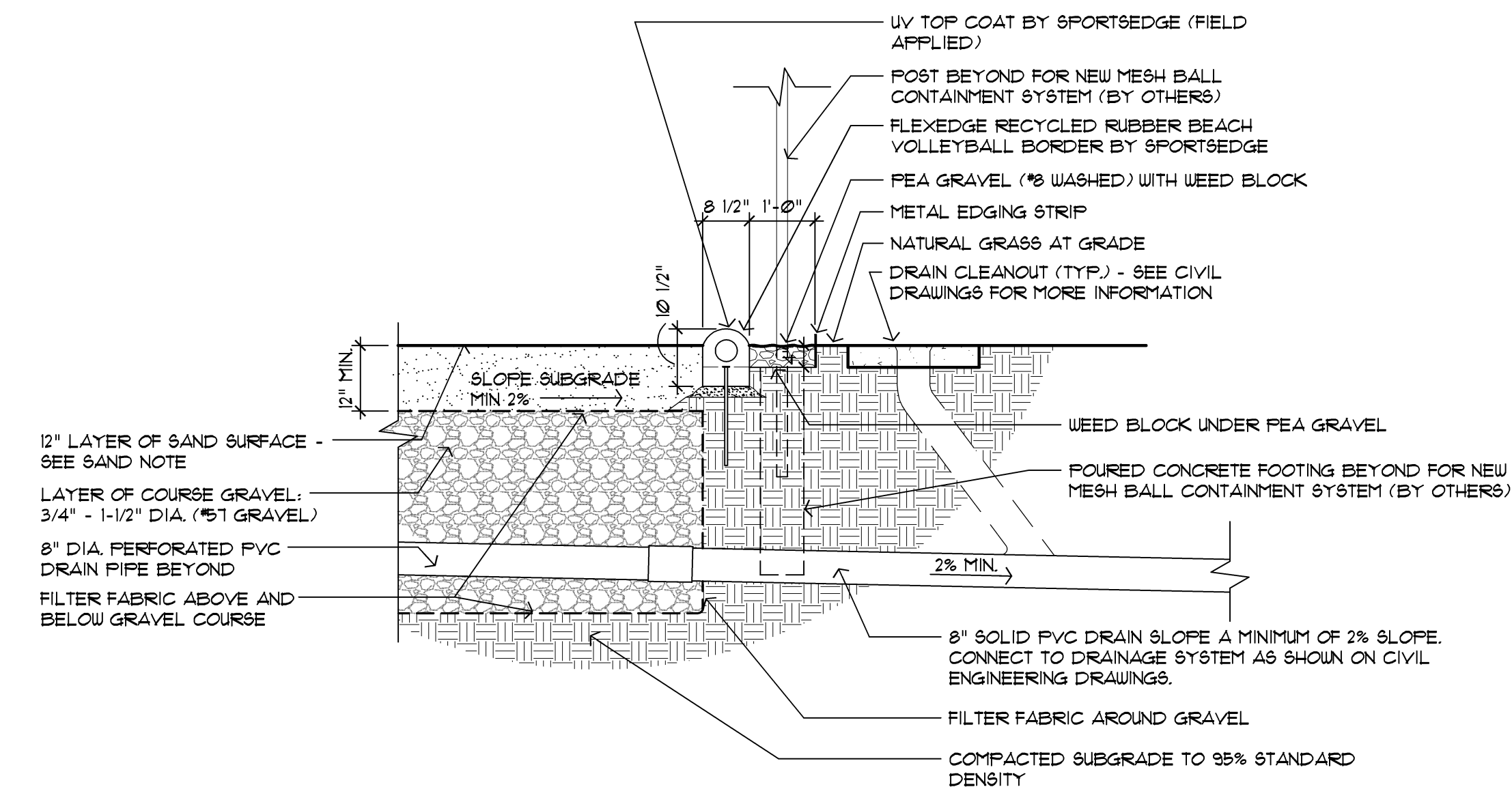
job no. sheet no.
16078A SP14

VOLLEYBALL SAND NOTE:

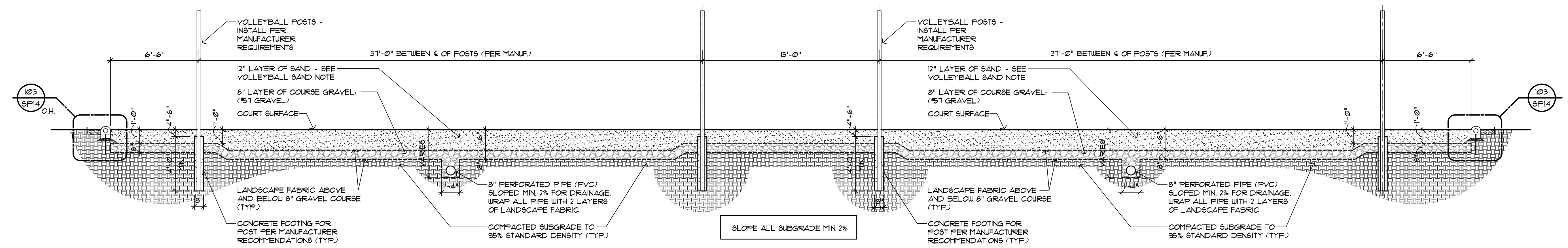
- 1) SAND TO BE DOUBLE WASHED AND FREE OF SILT AND CLAY.
- 2) PARTICLE SIZE TO BE 0.02" - 0.04" DIAMETER FOR PROPER DRAINAGE.
- 3) PARTICLE SHAPE TO BE SUB ANGULAR TO RESIST COMPACTION AND HELP WITH DRAINAGE.
- 4) SAND COLOR TO BE WHITE TO RESIST HEAT.
- 5) SAND SOURCE TO BE GRANITE BASED (NO CALCIUM OR LIMESTONE) DO NOT USE GOLF COURSE BUNKER SAND OR WASHED MASONRY SAND.



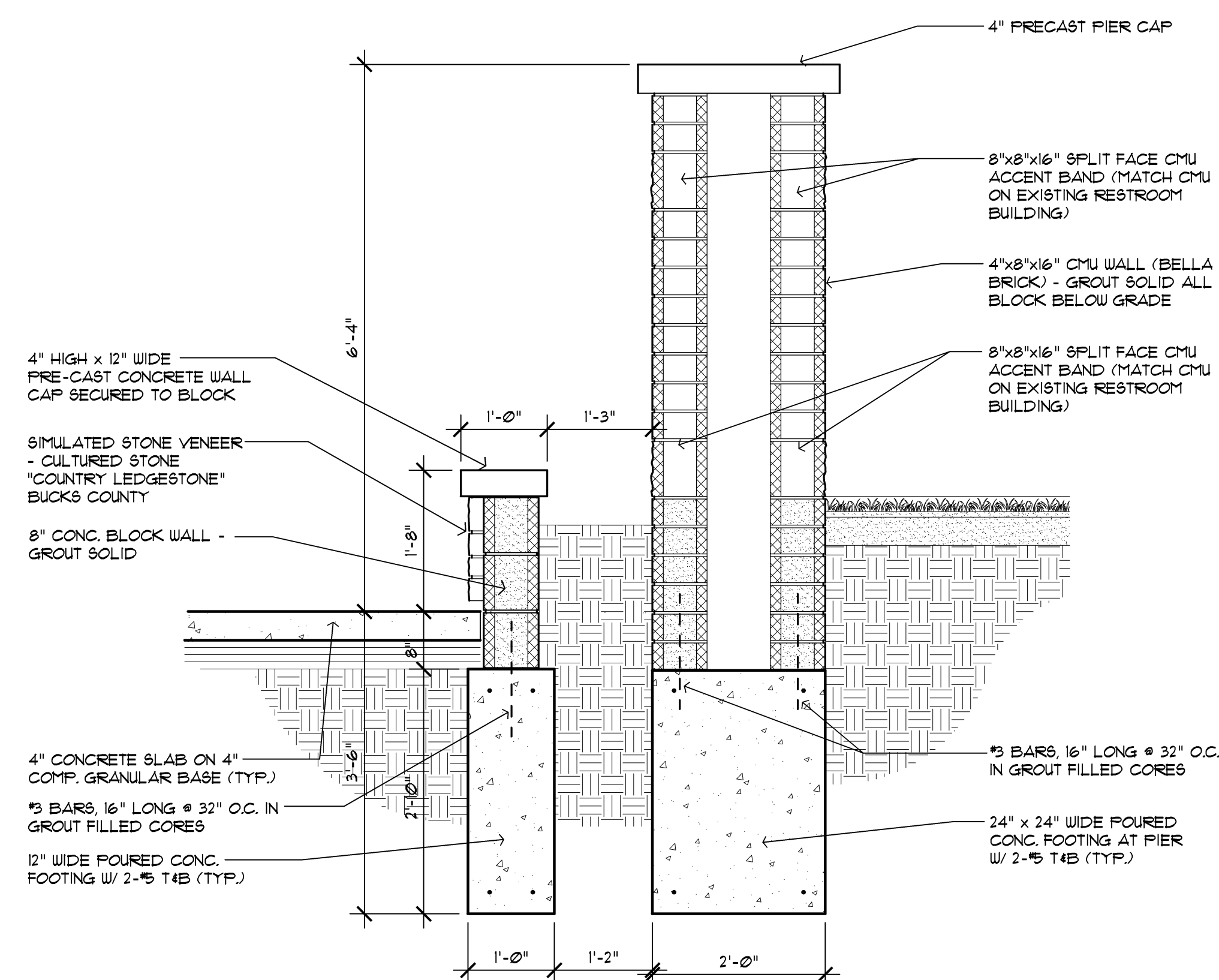
103 Section @ Volleyball Court Edge Detail
Scale: 1/2"=1'-0"



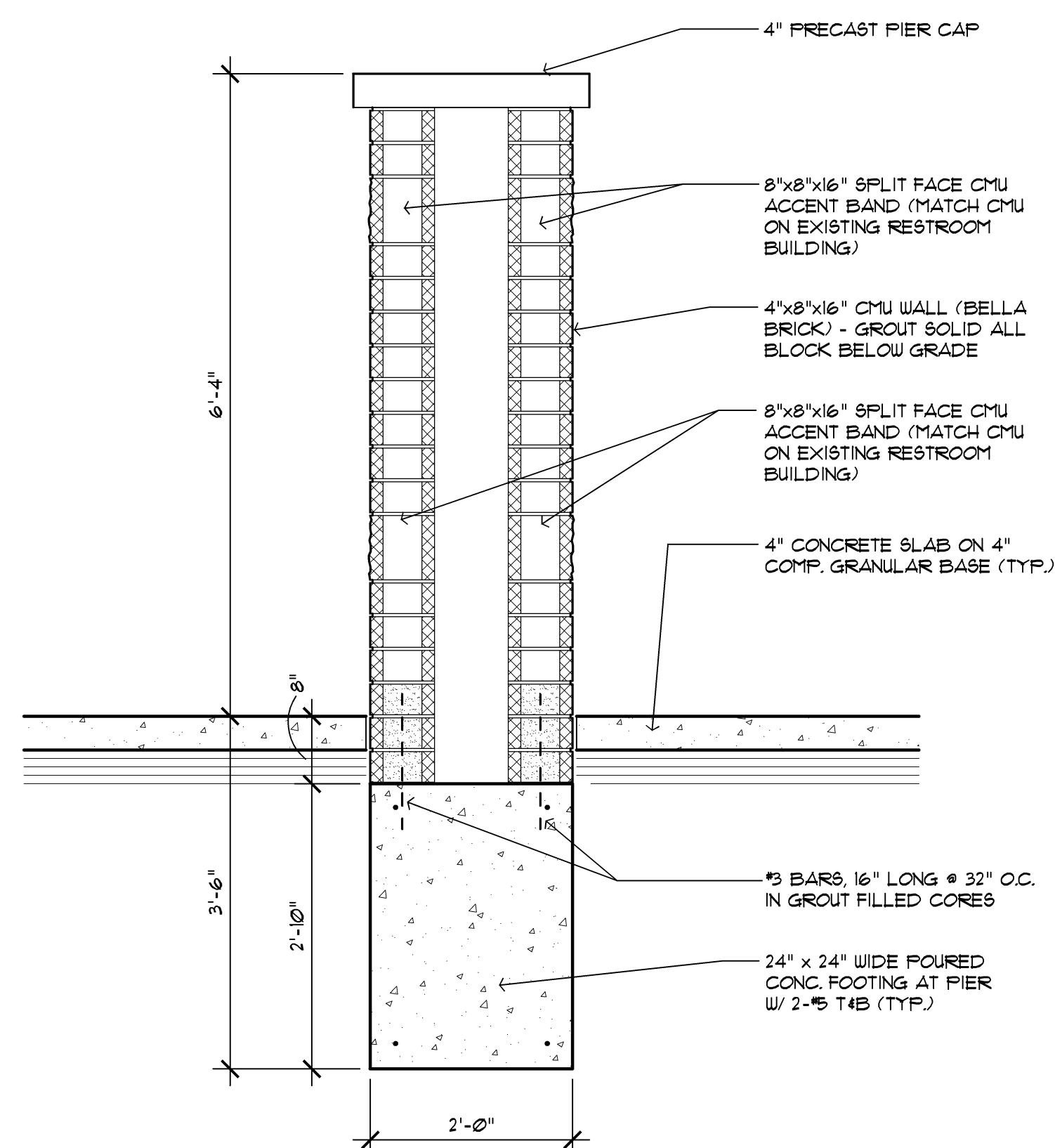
102 Section @ Volleyball Court Edge Detail
Scale: 1/2"=1'-0"



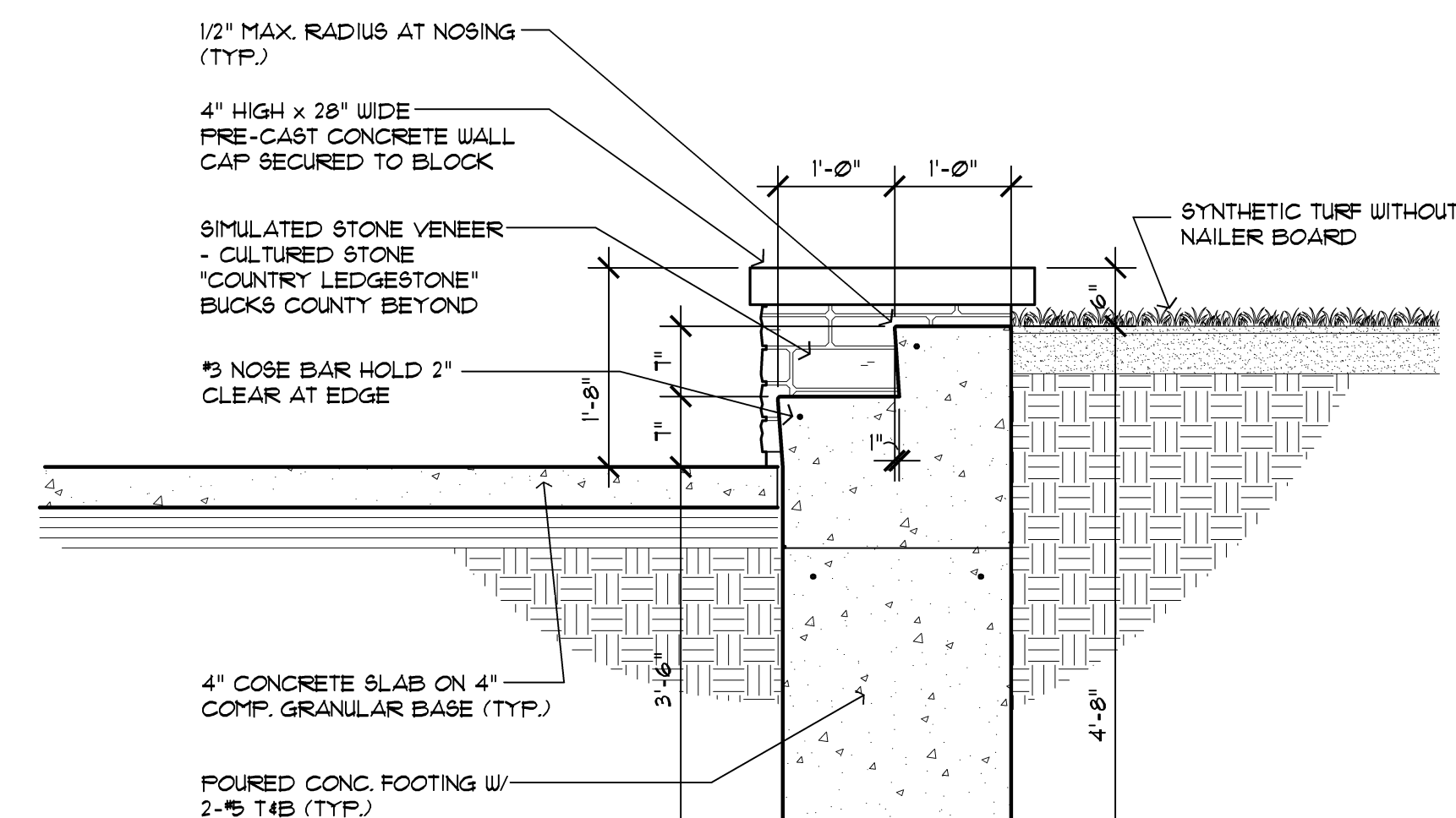
101 Section Through Sand Volleyball Courts
Scale: 1/4"=1'-0"



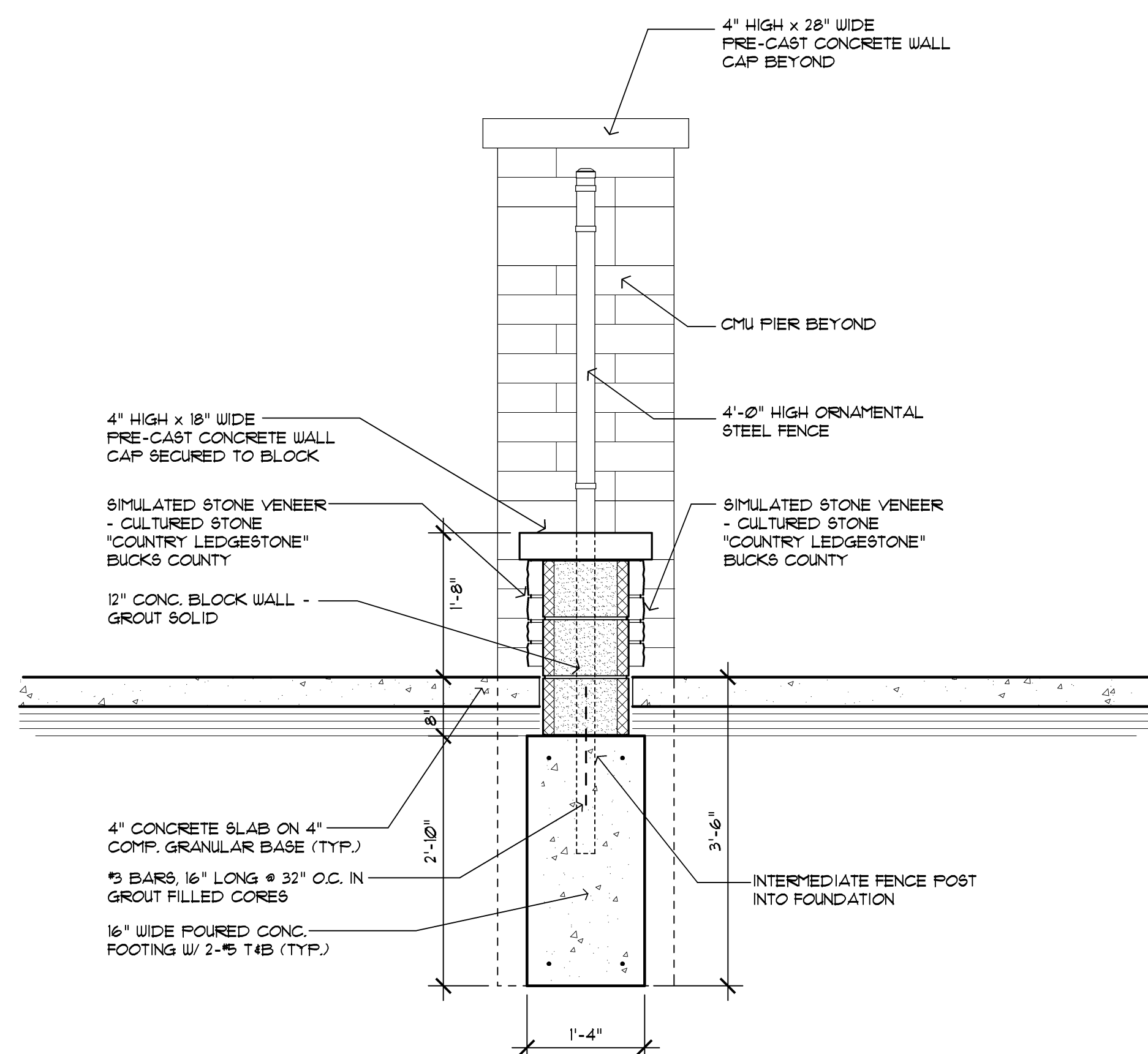
106 Splash Park Section @ Pier
Scale: 3/4"=1'-0"



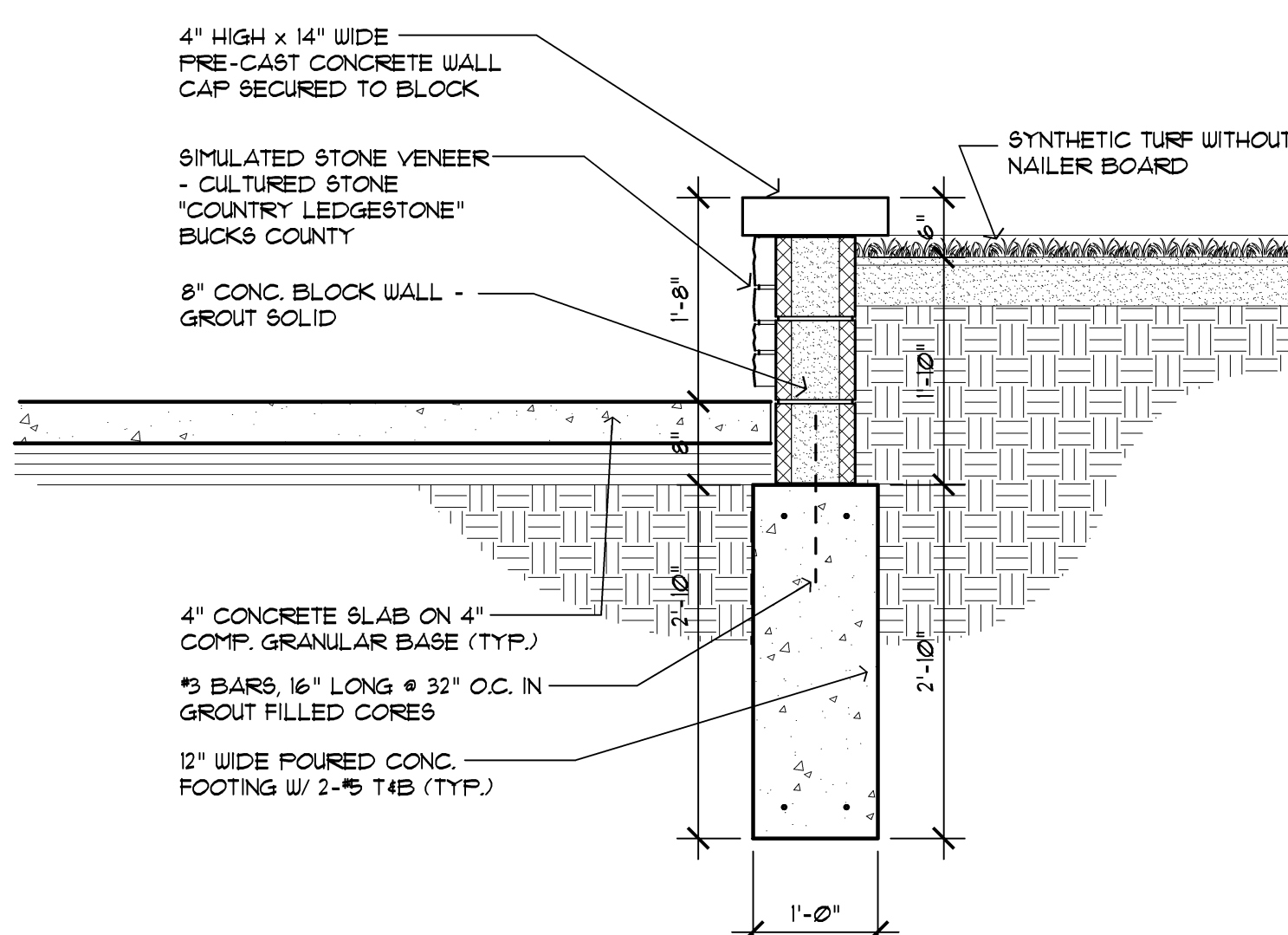
105 Splash Park Section @ Pier
Scale: 3/4"=1'-0"



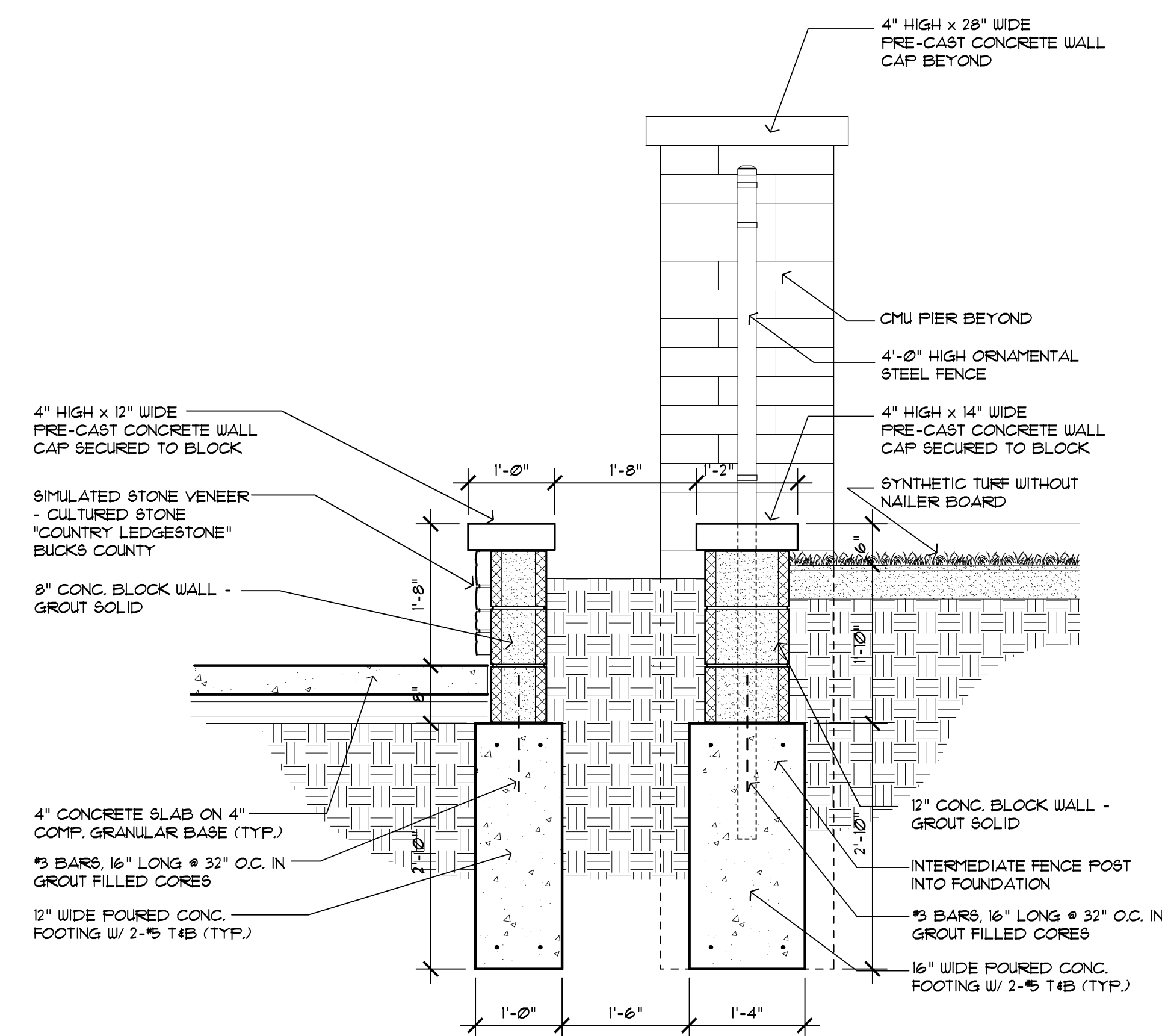
104 Splash Park Section @ Steps
Scale: 3/4"=1'-0"



103 Splash Park Section @ Fence Wall
Scale: 3/4"=1'-0"



102 Splash Park Section @ Seat Wall
Scale: 3/4"=1'-0"



101 Splash Park Section @ Landscape Wall & Fence Wall
Scale: 3/4"=1'-0"

REFER TO SHEET 9P01 FOR KEYED NOTES AND SITE AMENITIES.



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

drawn by checked by

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan

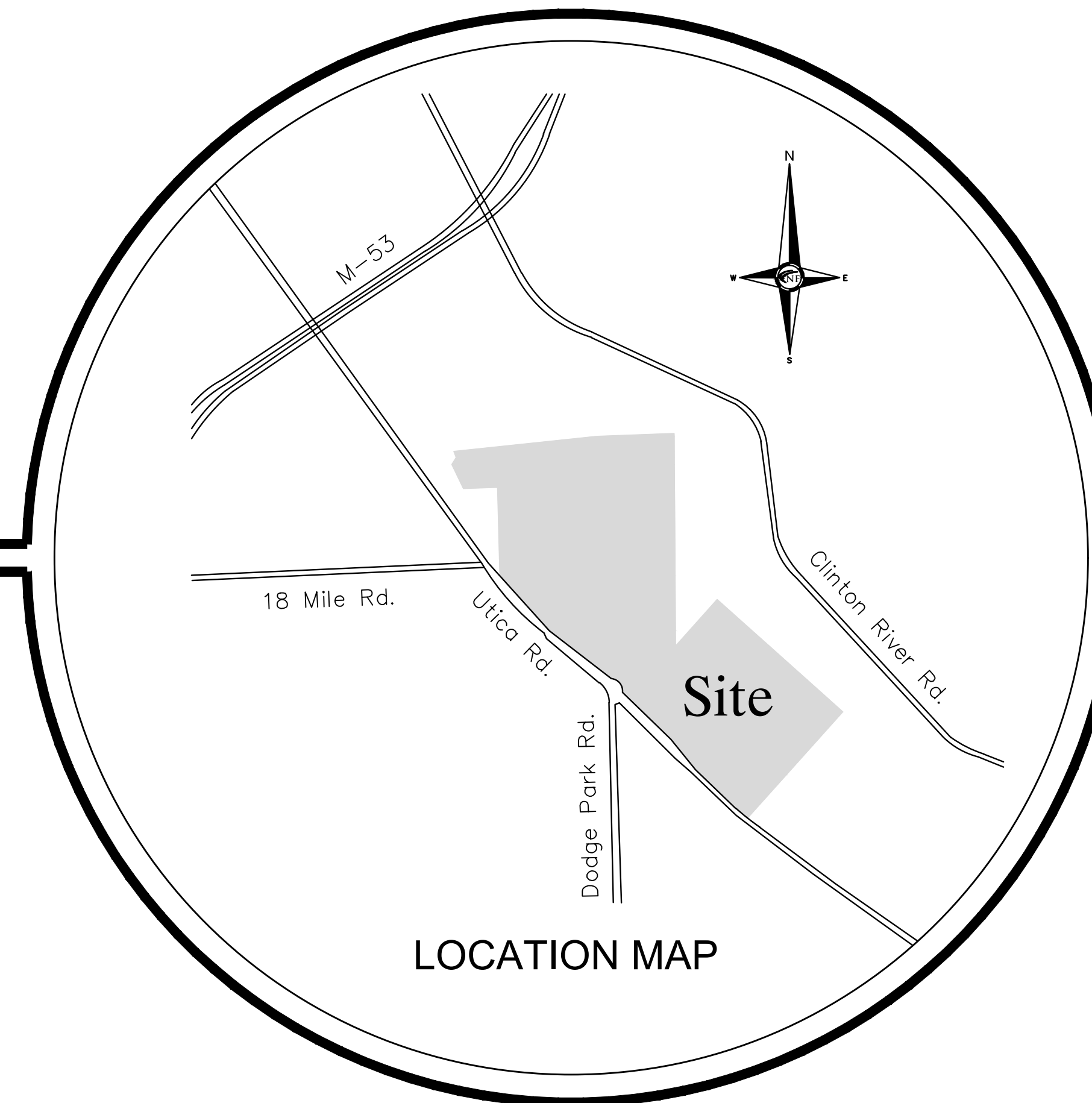
Site Details
Splash Park Details

project sheet title

Dorchen/Martin Associates, Inc.
Architects/Planners
29895 Greenfield Rd., Suite 107
Southfield, Michigan 48076
(248) 557-1062
Fax: (248) 557-1231

job no. sheet no.
16078A SP15

City of Sterling Heights,
Macomb County, Michigan
CONSTRUCTION DOCUMENTS



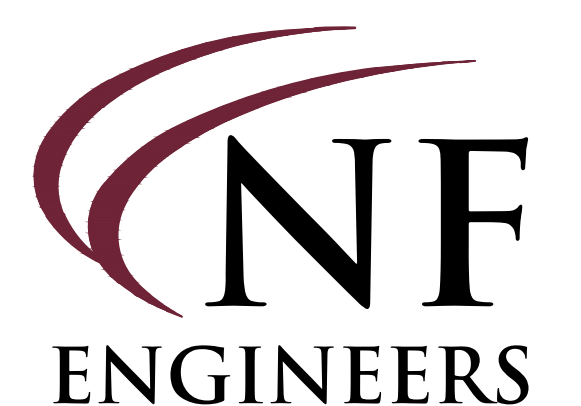
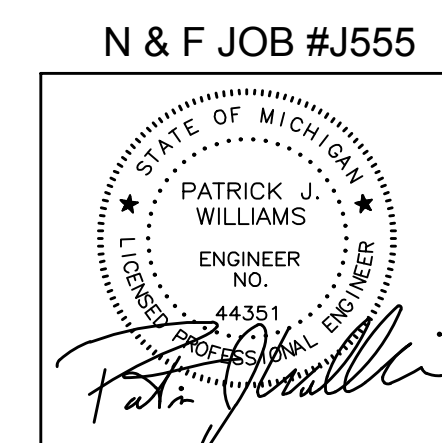
LOCATION MAP

Project Name

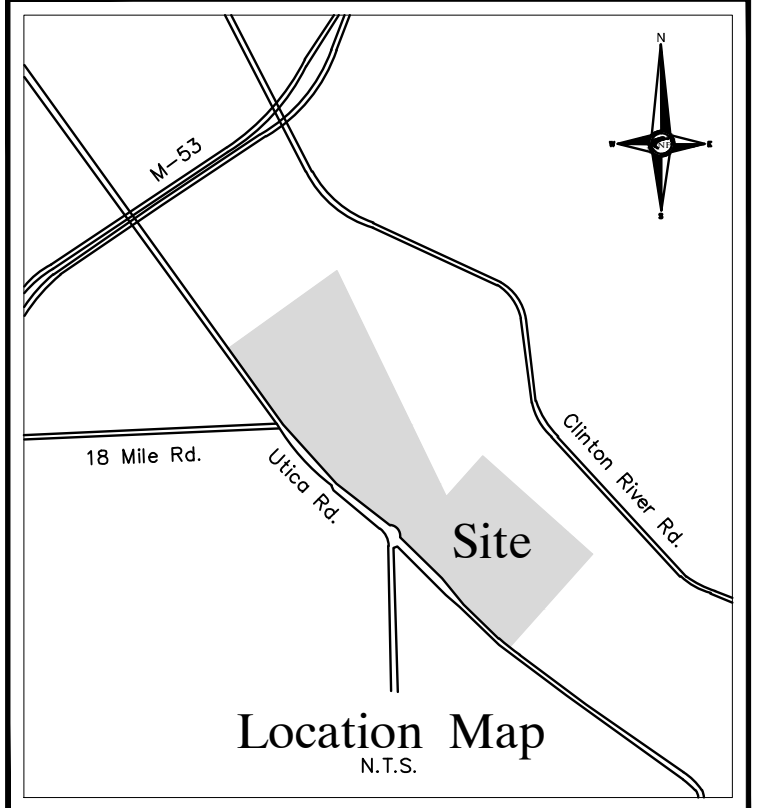
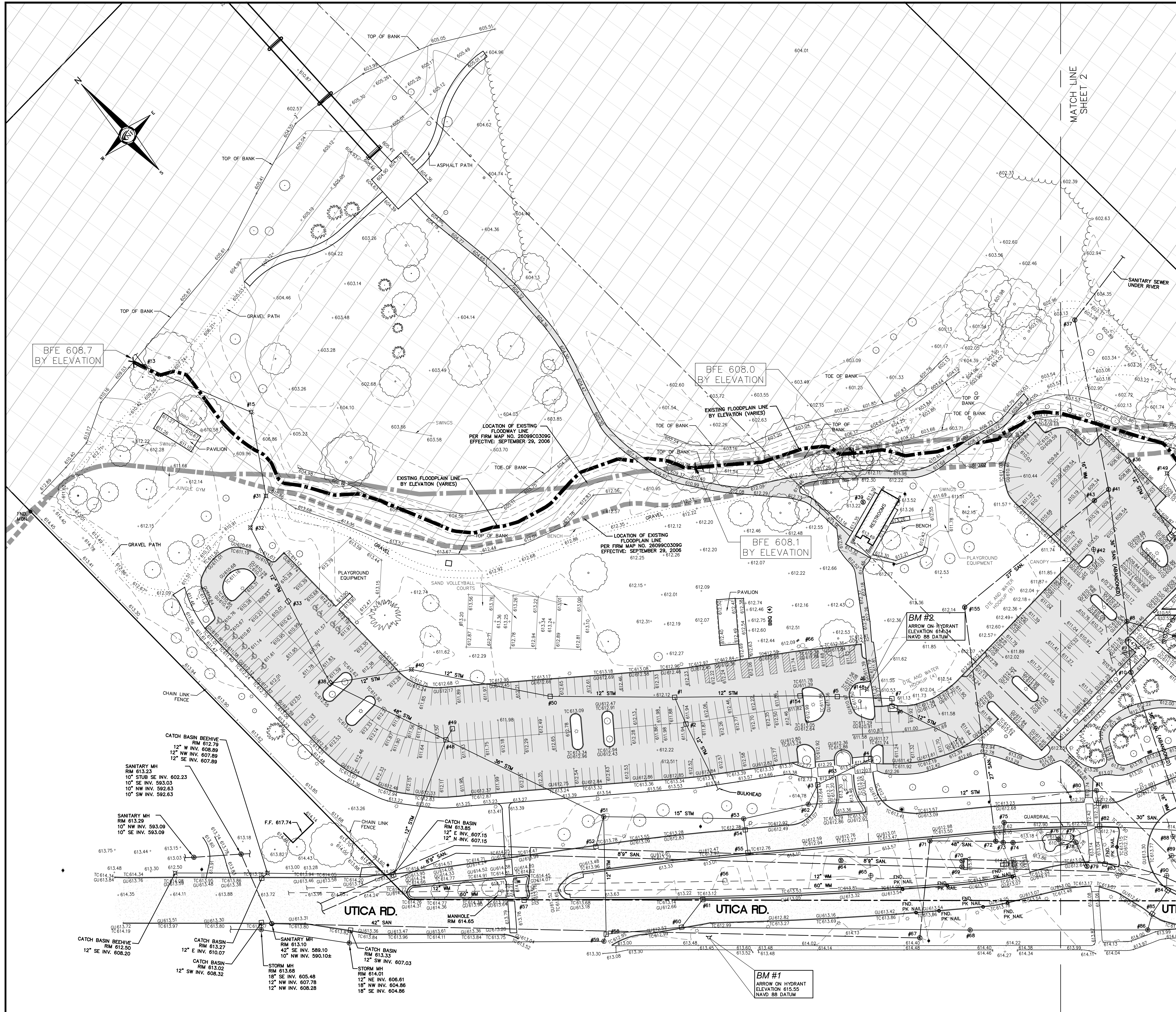
Dodge Park Improvements

SHEET INDEX

- 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

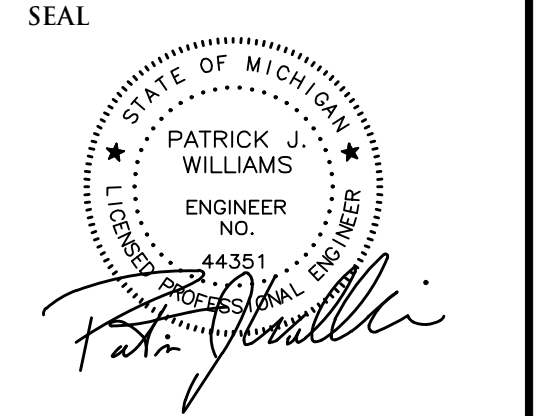


CIVIL ENGINEERS
LAND SURVEYORS
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46777 WOODWARD AVE.
PONTIAC, MI 48342
TEL. (248) 332-7931
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NOWAK & FRAUS ENGINEERS
 46777 WOODWARD AVE.
 PONTIAC, MI 48342-5032
 TEL. (248) 332-7931
 FAX. (248) 332-8257



PROJECT
Dodge Park Improvements
 40200 & 40620 Utica

CLIENT
Dorchen Martin Associates
 29895 Greenfield Road
 Suite 107
 Southfield, MI 48076

Contact: Sam Dorchen
 Ph: (248) 557-1062

PROJECT LOCATION
 Part of T. 2 North, R. 12 East
 City of Sterling Heights,
 Macomb County, Michigan

SHEET
 Topographic Survey



REVISIONS

NO.	DATE	DESCRIPTION
02-02-2017	Revised	Per NFE

DRAWN BY:
A. Eizember

DESIGNED BY:
P. Williams

APPROVED BY:
P. Williams

DATE:
January 10, 2017

SCALE: 1" = 50'
 50 25 0 25 50 75

NFE JOB NO. **J555** SHEET NO. **C-1**

BENCHMARK TABLE

BM #	DESCRIPTION	ELEVATION
BM #1	ARROW ON HYDRANT-SOUTH SIDE OF UTICA ROAD NEAR NORTH ENTRANCE	615.55
BM #2	ARROW ON HYDRANT-IN ISLAND NEAR NORTH ENTRANCE	614.34
BM #3	ARROW ON HYDRANT-NEAR AMPHITHEATRE	613.04
BM #4	ARROW ON HYDRANT-IN LARGE ISLAND IN FRONT OF SENIOR CENTER	614.15
BM #5	ARROW ON FLANGE-IN CENTER ISLAND OF UTICA ROAD NEAR SOUTH ENTRANCE	614.06
BM #6	BOLT SPIKE-SOUTH SIDE OF UTICA ROAD NEAR SOUTH ENTRANCE	610.38

FLOODPLAIN LEGEND

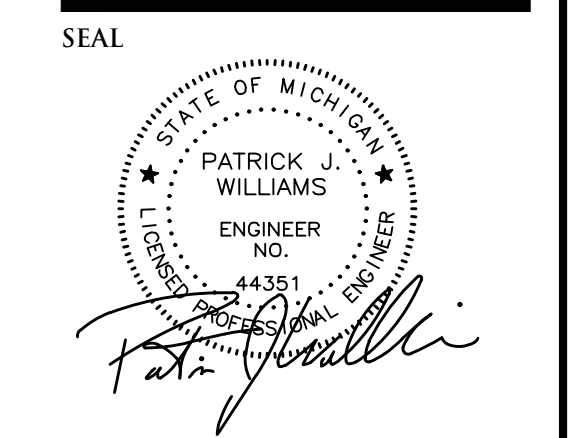
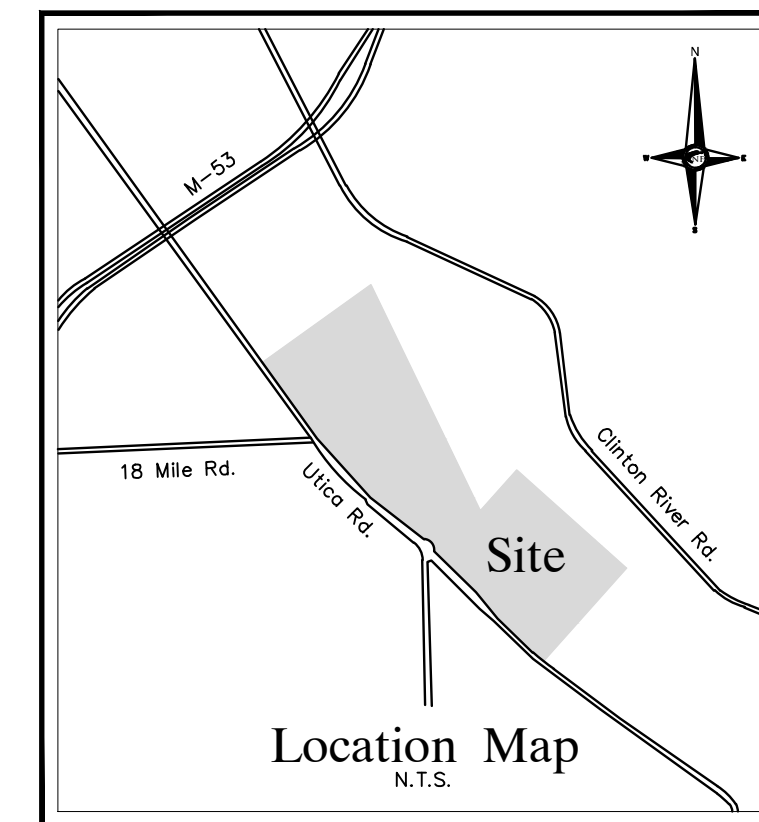
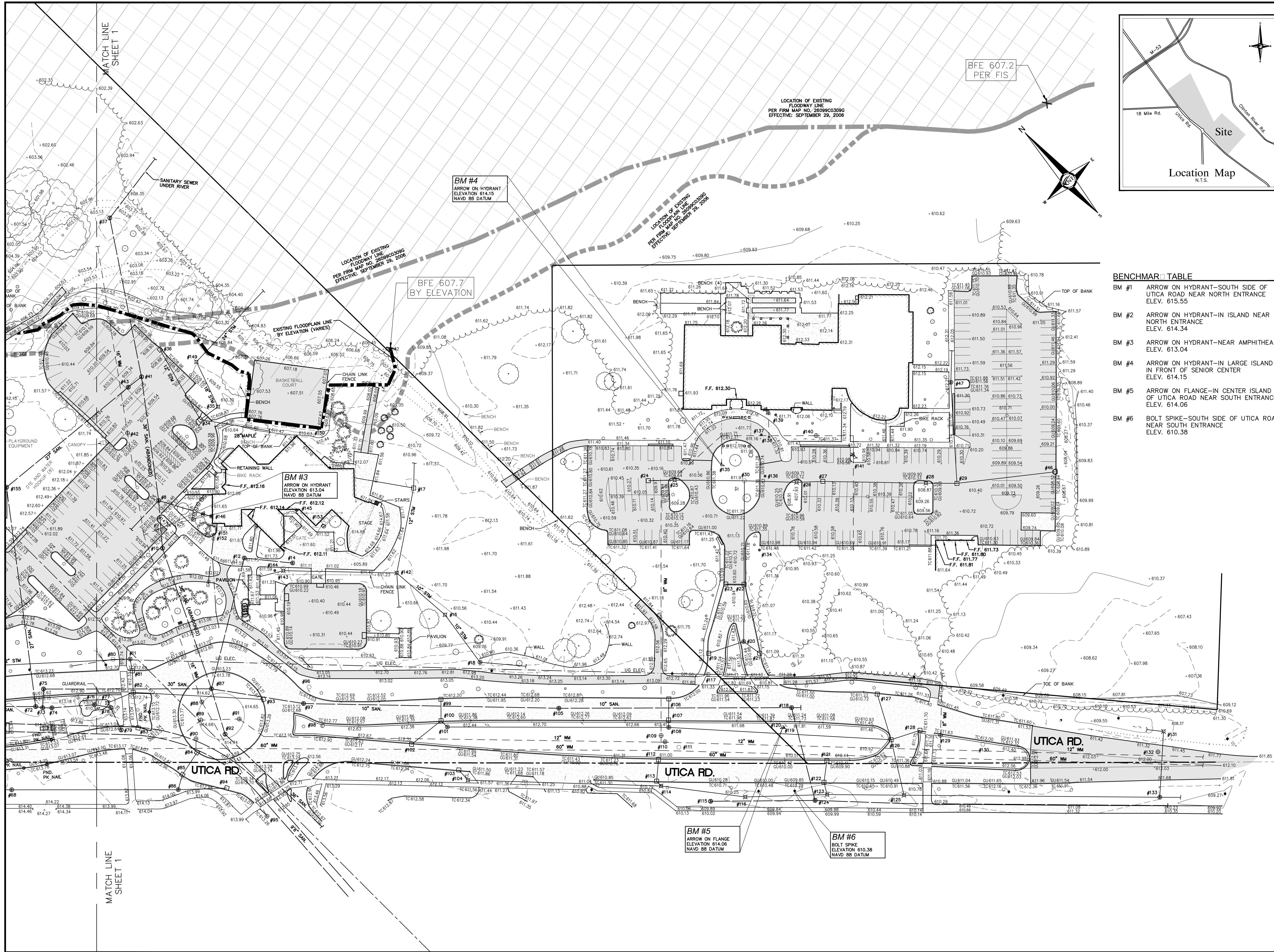
	DENOTES EXISTING FLOODPLAIN LINE PER FIRM MAP NO. 26099C0309G EFFECTIVE: SEPTEMBER 29, 2006
	DENOTES EXISTING FLOODPLAIN LINE PER FIRM MAP NO. 26099C0309G EFFECTIVE: SEPTEMBER 29, 2006
	DENOTES EXISTING FLOODPLAIN LINE BY ELEVATION (VARIES)
	DENOTES SFHA - FLOODPLAIN ELEVATION (VARIES) PER FEMA MAP 26099C0309G SEPTEMBER 29, 2006
	DENOTES SFHA - FLOODPLAIN ELEVATION (VARIES) PER FEMA MAP 26099C0309G SEPTEMBER 29, 2006

TOPOGRAPHIC SURVEY NOTES

ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.
 UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.
 THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.

LEGEND

	MANHOLE		EXISTING SANITARY SEWER
	HYDRANT		EXISTING SAN. CLEAN OUT
	GATE VALVE		EXISTING WATER MAIN
	MANHOLE		EXISTING STORM SEWER
	CATCH BASIN		EX. R.Y. CATCH BASIN
	CATCH BASIN		EXISTING BURIED CABLES
	UTILITY POLE		OVERHEAD LINES
	GUY POLE		LIGHT POLE
	GUY WIRE		SIGN
	SIGN		EXISTING GAS MAIN



PROJECT
Dodge Park Improvements
40200 & 40620 Utica

CLIENT
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PROJECT LOCATION
Part of T. 2 North, R. 12 East
City of Sterling Heights,
Macomb County, Michigan

SHEET
Topographic Survey



REVISIONS
02-02-2017 Revised Per NFE

DRAWN BY:
A. Eizember
DESIGNED BY:

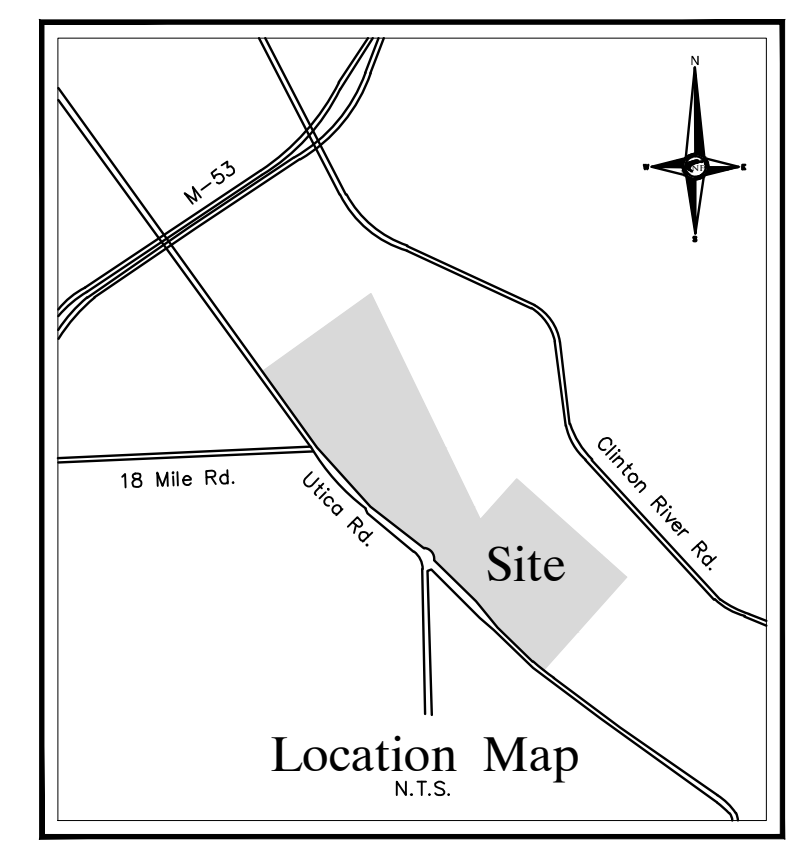
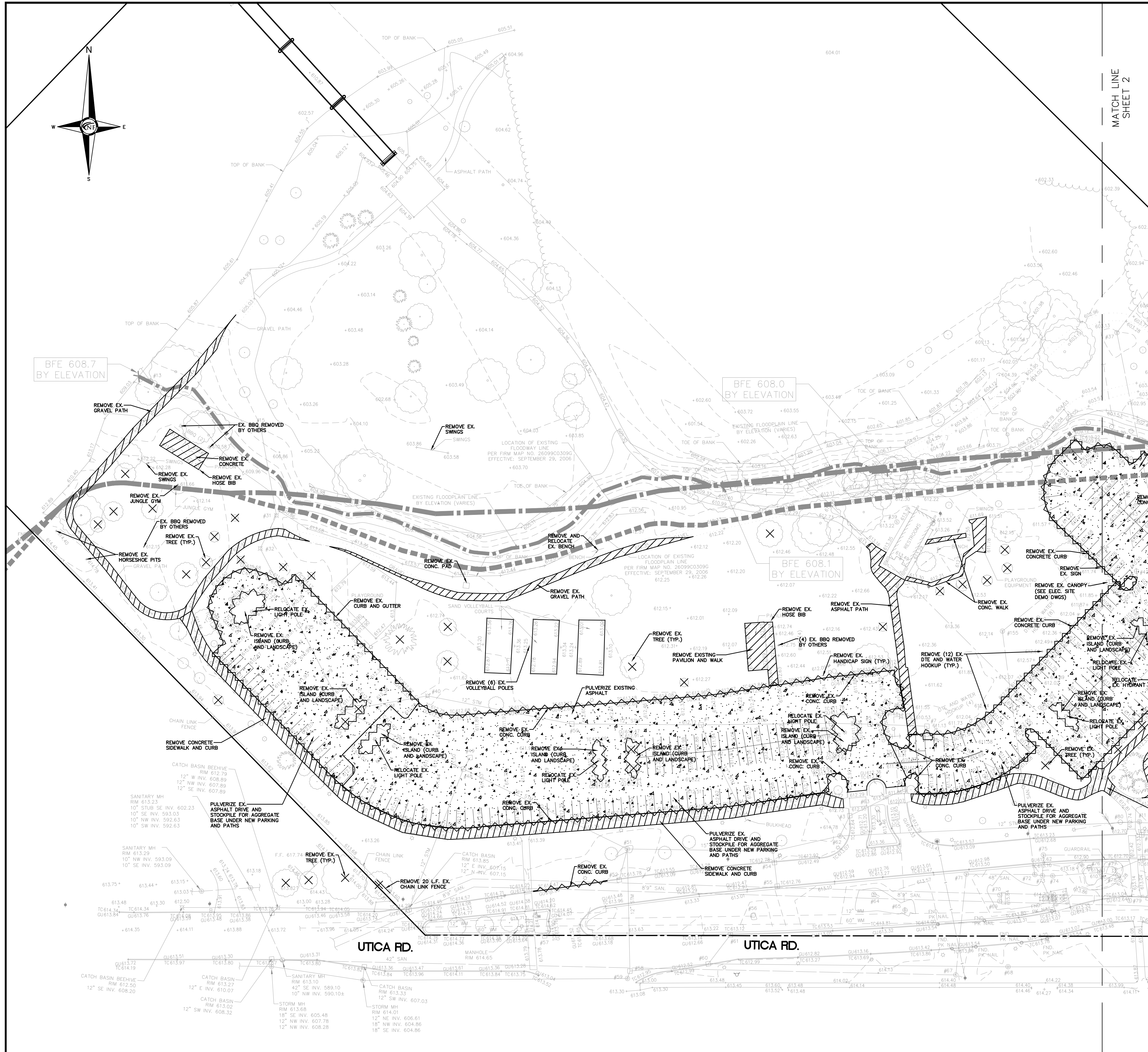
APPROVED BY:
P. Williams
DATE:
January 10, 2017

SCALE: 1" = 50'
0 25 0 25 50 75

NFE JOB NO. SHEET NO.
J555 C-2

BENCHMARK TABLE

BM #1	ARROW ON HYDRANT-SOUTH SIDE OF UTICA ROAD NEAR NORTH ENTRANCE ELEV. 615.55
BM #2	ARROW ON HYDRANT-IN ISLAND NEAR NORTH ENTRANCE ELEV. 614.34
BM #3	ARROW ON HYDRANT-NEAR AMPHITHEATRE ELEV. 613.04
BM #4	ARROW ON HYDRANT-IN LARGE ISLAND IN FRONT OF SENIOR CENTER ELEV. 614.15
BM #5	ARROW ON FLANGE-IN CENTER ISLAND OF UTICA ROAD NEAR SOUTH ENTRANCE ELEV. 614.06
BM #6	BOLT SPIKE-SOUTH SIDE OF UTICA ROAD NEAR SOUTH ENTRANCE ELEV. 610.38



DEMOLITION NOTES

DEMOLITION OF SITE IMPROVEMENTS SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE PUBLIC AGENCY HAVING JURISDICTION OVER SAID DEMOLITION.

FOR ANY DEMOLITION WITHIN PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR, AND SECURE, ALL NECESSARY PERMITS AND LIKEWISE SHALL ARRANGE FOR ALL SITE INSPECTIONS.

SITE DEMOLITION INCLUDES THE COMPLETE REMOVAL OF SITE IMPROVEMENTS AND OFF-SITE DISPOSAL. DEBRIS SHALL BE TRANSPORTED TO AN APPROPRIATE DISPOSAL FACILITY THAT IS LICENSED FOR THAT TYPE OF DEBRIS.

THE CONTRACTOR SHALL COORDINATE TRUCK ROUTES WITH THE MUNICIPALITY PRIOR TO COMMENCEMENT OF SITE DEMOLITION. ALL TRUCKS SHALL BE TARPED OR PROPERLY SECURED TO CONTAIN DEMOLITION DEBRIS PRIOR TO LEAVING SITE.

EXISTING ON-SITE UNDERGROUND UTILITIES AND BUILDING SERVICES HAVE BEEN INDICATED BASED UPON THE BEST AVAILABLE UTILITY RECORDS AND/OR ON-SITE INSPECTION. NO GUARANTEE IS MADE BY THE DESIGN ENGINEER AS TO THE COMPLETENESS OR ACCURACY OF UTILITY DATA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF UTILITY INFORMATION (THE DESIGN ENGINEER MAKES NO GUARANTEE NOR ASSUMES ANY LIABILITY AS TO THE COMPLETENESS AND/OR ACCURACY OF UTILITY DATA).

PRIOR TO THE REMOVAL OR ABANDONMENT OF ANY EXISTING UNDERGROUND UTILITY OR BUILDING SERVICE LINES CALLED FOR IN THE PLANS OR DISCOVERED DURING EXCAVATION, THE CONTRACTOR MUST DETERMINE IF THE UTILITY LINE OR BUILDING SERVICE IS STILL IN USE. IF THE UTILITY LINE OR BUILDING SERVICE IS STILL IN USE/ACTIVE, THE CONTRACTOR MUST TAKE ALL THE NECESSARY STEPS TO GUARANTEE THAT THE UTILITY LINE OR BUILDING SERVICE IS RECONNECTED WITHOUT AN INTERRUPTION IN SERVICE. THE RECONNECTION OF THE UTILITY LINE OR BUILDING SERVICE MUST BE IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF THE APPROPRIATE GOVERNMENT AGENCY OR PRIVATE UTILITY COMPANY.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO SITE DEMOLITION.

* THE CONTRACTOR SHALL NOTIFY MISS DIG (1-800-482-7171) A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF THE SITE DEMOLITION.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH THE DETROIT EDISON COMPANY. REMOVAL OF DETROIT EDISON ELECTRICAL SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF DETROIT EDISON.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH CONSUMERS ENERGY/MICHCON. REMOVAL OF CONSUMERS ENERGY/MICHCON GAS SERVICES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF CONSUMERS ENERGY/MICHCON.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH AMERITECH COMMUNICATION SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF AMERITECH.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH THE APPROPRIATE CABLE MEDIA COMPANY. REMOVAL OF CABLE SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF THE CABLE COMPANY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF PRIVATE UTILITY COMPANIES AND COORDINATE UTILITY SERVICE SHUT OFF/DISCONNECT, PRIOR TO DEMOLITION OF EXISTING STRUCTURES OR PROPERTIES.

ALL UTILITY METERS SHALL BE REMOVED BY THE APPROPRIATE UTILITY COMPANY.

ANY ON-SITE STORM SEWER FACILITIES LOCATED DURING DEMOLITION SHALL BE REMOVED AND BULK HEADED AT THE PROPERTY LINE IF INDICATED FOR REMOVAL ON THE PLANS.

PRIOR TO BUILDING DEMOLITION, ALL HAZARDOUS MATERIAL SHALL BE REMOVED BY OTHERS. THE DEMOLITION CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUSPICIOUS MATERIAL BE FOUND.

WATER SERVICES AND/OR STOP-BOX SHALL BE PRESERVED AND BULK HEADED AT THE PROPERTY LINE OR AS DIRECTED BY THE OWNER'S REPRESENTATION.

WHERE EXISTING BUILDINGS PLANNED FOR DEMOLITION FALL WITHIN PROPOSED BUILDING FOOT PRINTS, BASEMENT FLOOR SLABS, FOUNDATION WALLS AND FOOTINGS SHALL BE COMPLETELY REMOVED AND BACK FILLED WITH #40 CLASS II GRANULAR MATERIAL AND BE MACHINE COMPACTED TO A MINIMUM OF 98% OF MATERIALS MAXIMUM DENSITY.

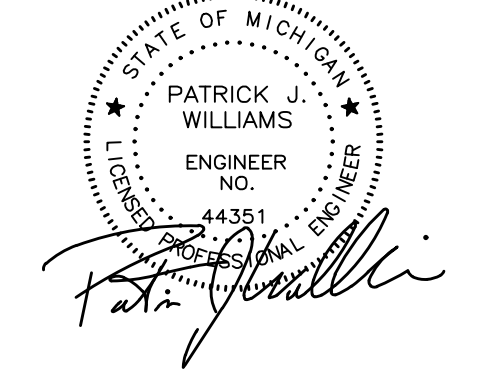
ESTIMATED QUANTITIES DEMOLITION

DESCRIPTION	QUANTITY	UNITS
REMOVE CONCRETE	3,650	S.Y.
REMOVE CURB AND GUTTER	4,250	L.F.
REMOVE HANDICAP SIGN	17	E.A.
REMOVE LIGHT POLE	7	E.A.
REMOVE PAVILION	2	E.A.
REMOVE TREES	57	S.Y.
REMOVE ASPHALT	2,300	S.Y.
REMOVE DTE AND WATER HOOKUP	12	E.A.
REMOVE VOLLEYBALL POLES	6	E.A.
PULVERIZE EXISTING ASPHALT	17,200	S.Y.
REMOVE HOSE BIB	2	E.A.
REMOVE HORSESHOE PITS	3	E.A.
REMOVE BENCH	3	E.A.
REMOVE BASKETBALL COURT	1	E.A.

LEGEND

	MANHOLE	EXISTING SANITARY SEWER
	HYDRANT	EXISTING SAN. CLEAN OUT
	MANHOLE	EXISTING WATER MAIN
	CATCH BASIN	EXISTING STORM SEWER
	EX. R. Y. CATCH BASIN	
	UTILITY POLE	EXISTING BURIED CABLES
	GUY POLE	OVERHEAD LINES
	GUY WIRE	
	LIGHT POLE	
	SIGN	
	EXISTING GAS MAIN	
	EXISTING CURB TO BE REMOVED	
	EXISTING UTILITY TO BE REMOVED	
	EXISTING UTILITY TO BE ABANDONED	
	12" MAPLE	INDICATES EXISTING TREE TO BE REMOVED
		INDICATES AREAS OF PAVEMENT, BUILDINGS, ETC. TO BE REMOVED
		INDICATES AREAS OF PAVEMENT TO BE PULVERIZED

SEAL



PROJECT
 Dodge Park Improvements
 40200 & 40620 Utica

CLIENT
 Dorchon Martin Associates
 29895 Greenfield Road
 Suite 107
 Southfield, MI 48076

Contact: Sam Dorchon
 Ph: (248) 557-1062

PROJECT LOCATION
 Part of T. 2 North, R. 12 East
 City of Sterling Heights,
 Macomb County, Michigan

SHEET
 Demolition Plan



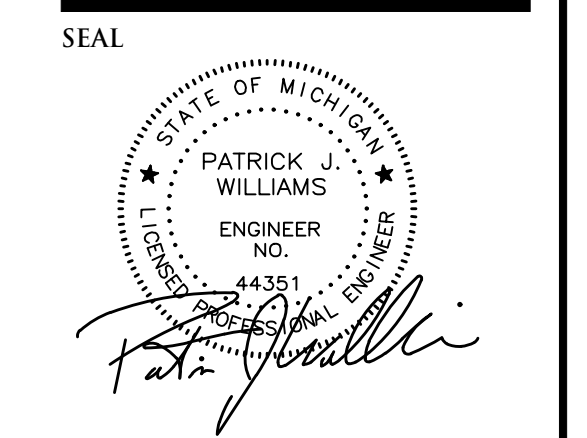
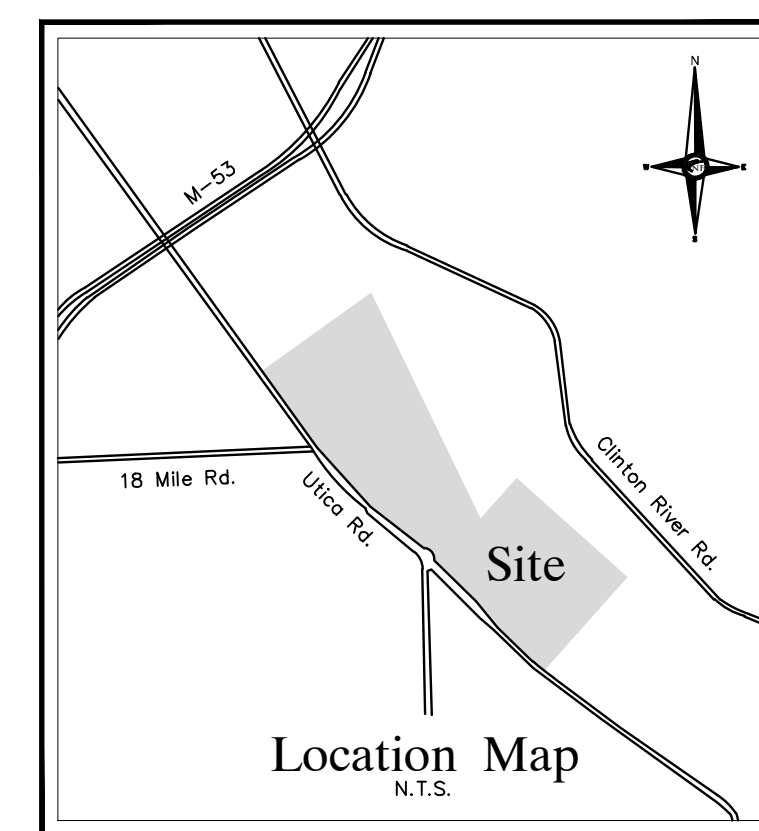
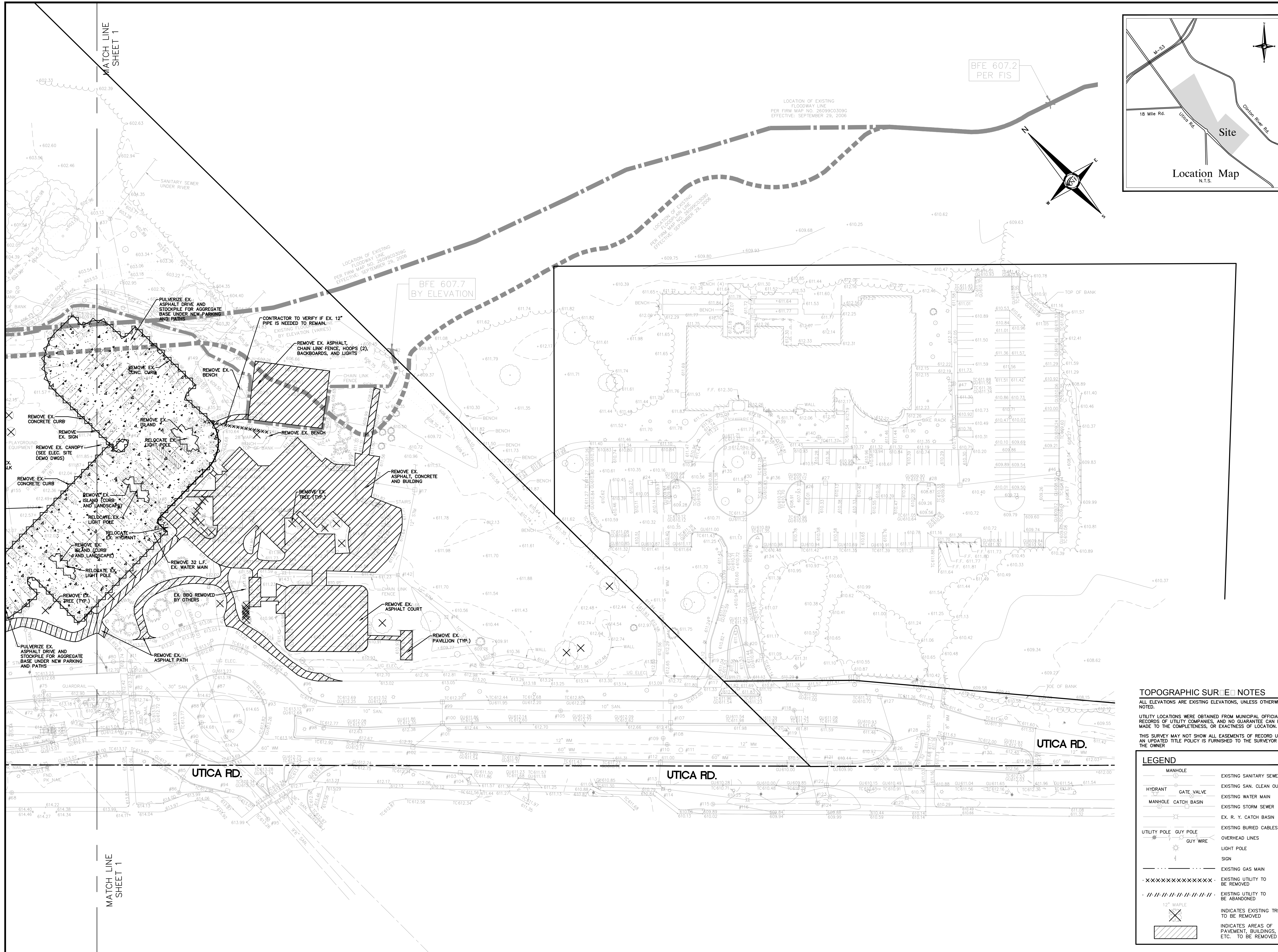
REVISIONS
 00-00-00

DRAWN BY:
 A. Eizember
 DESIGNED BY:
 P. Williams
 APPROVED BY:
 P. Williams

DATE:
 June 14, 2017

SCALE: 1" = 50'

NFE JOB NO. SHEET NO.
J555 C-4



PROJECT
Dodge Park Improvements
40200 & 40620 Utica

CLIENT
Dorchen Martin Associates
29895 Greenfield Road
Suite 107
Southfield, MI 48076

Contact: Sam Dorchen
Ph: (248) 557-1062

PROJECT LOCATION
Part of T. 2 North, R. 12 East
City of Sterling Heights,
Macomb County, Michigan

SHEET
Demolition Plan



TOPOGRAPHIC SURVEY NOTES

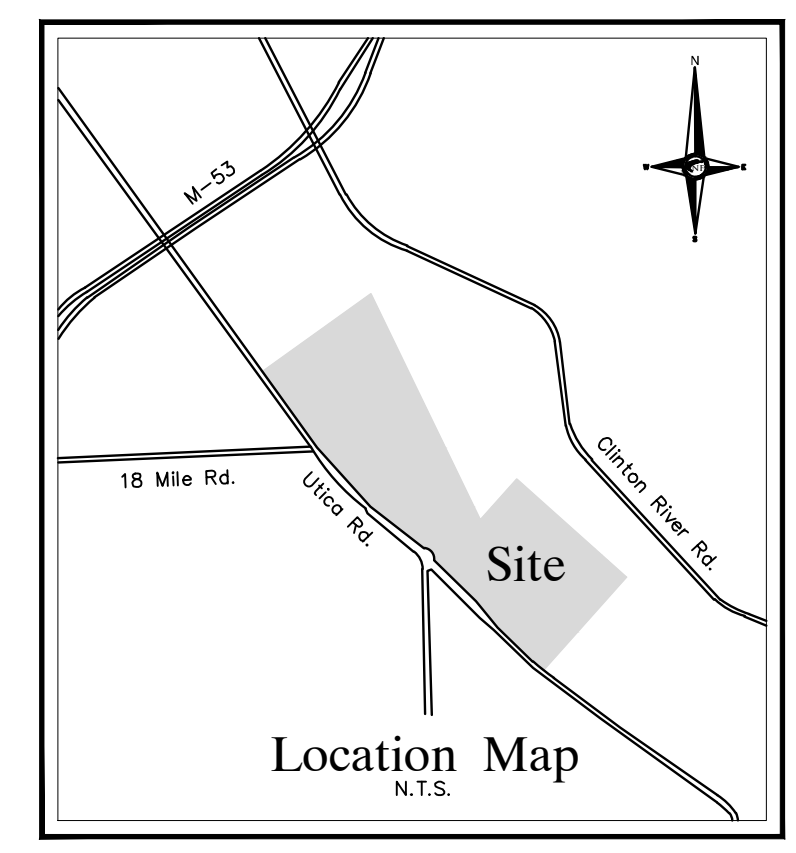
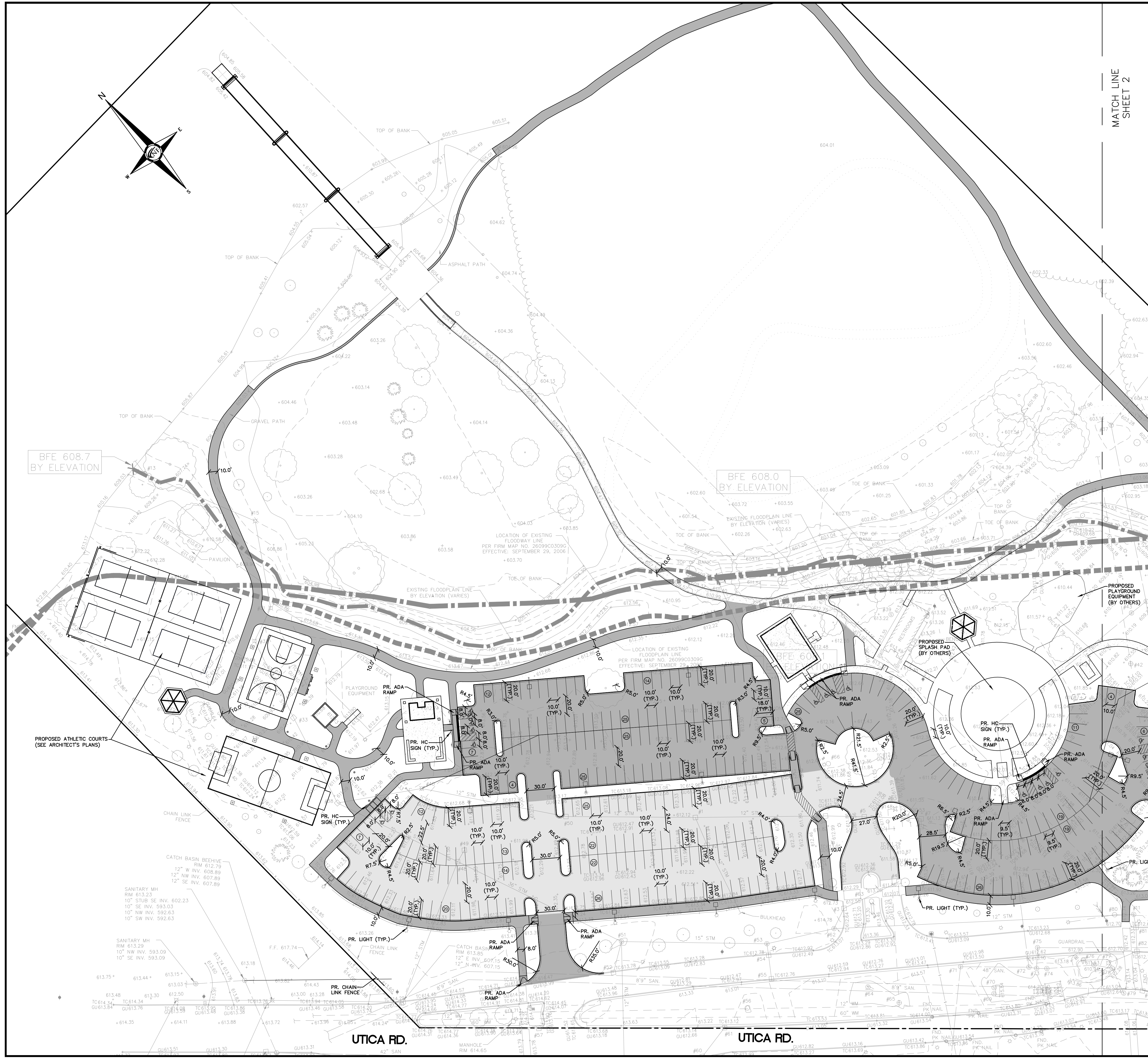
ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.
UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS OR EXACTNESS OF LOCATION.
THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER

LEGEND	
	EXISTING SANITARY SEWER
	EXISTING SAN. CLEAN OUT
	EXISTING WATER MAIN
	EXISTING STORM SEWER
	EX. R. Y. CATCH BASIN
	EXISTING BURIED CABLES
	OVERHEAD LINES
	LIGHT POLE
	SIGN
	EXISTING GAS MAIN
	EXISTING UTILITY TO BE REMOVED
	EXISTING UTILITY TO BE ABANDONED
	12" MAPLE INDICATES EXISTING TREE TO BE REMOVED
	INDICATES AREAS OF PAVEMENT, BUILDINGS, ETC. TO BE REMOVED

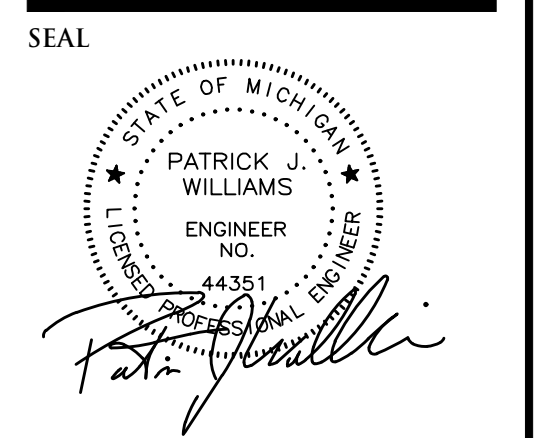
REVISIONS

NO.	DATE	DESCRIPTION
00-00-00		

DRAWN BY:
A. Eizember
DESIGNED BY:
P. Williams
APPROVED BY:
P. Williams
DATE:
June 14, 2017
SCALE: 1" = 50'
50 25 0 25 50 75
NFE JOB NO. SHEET NO.
J555 C-5



NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257



PROJECT
Dodge Park Improvements
40200 & 40620 Utica

CLIENT
Dorchen Martin Associates
29895 Greenfield Road
Suite 107
Southfield, MI 48076

Contact: Sam Dorchen
Ph: (248) 557-1062

PROJECT LOCATION
Part of T. 2 North, R. 12 East
City of Sterling Heights,
Macomb County, Michigan

SHEET
Dimensional Site Plan

SITE DATA
PARKING PROVIDED: 390 SPACES PROVIDED
INCLUDES: 17 BARRIER-FREE SPACES

PAVING LEGEND

	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT REPAVING
	PROPOSED ASPHALT PAVEMENT

LEGEND

	MANHOLE		EXISTING SANITARY SEWER
	HYDRANT		SAN. CLEAN OUT
	MANHOLE CATCH BASIN		EXISTING WATERMAIN
	UTILITY POLE		EXISTING STORM SEWER
	GUY POLE		EX. R. Y. CATCH BASIN
	LIGHT POLE		EXISTING BURIED CABLES
	SIGN		OVERHEAD LINES
	EXISTING GAS MAIN		PROPOSED LIGHT POLE
	PR. SANITARY SEWER		PR. TOP OF CURB ELEVATION
	PR. WATER MAIN		PR. GUTTER ELEVATION
	PR. STORM SEWER		PR. TOP OF WALK ELEVATION
	PR. R. Y. CATCH BASIN		PR. TOP OF PMT. ELEVATION
	PROPOSED LIGHT POLE		FINISH GRADE ELEVATION

REVISIONS

00-00-00	

DRAWN BY:
A. Eizember

DESIGNED BY:
P. Williams

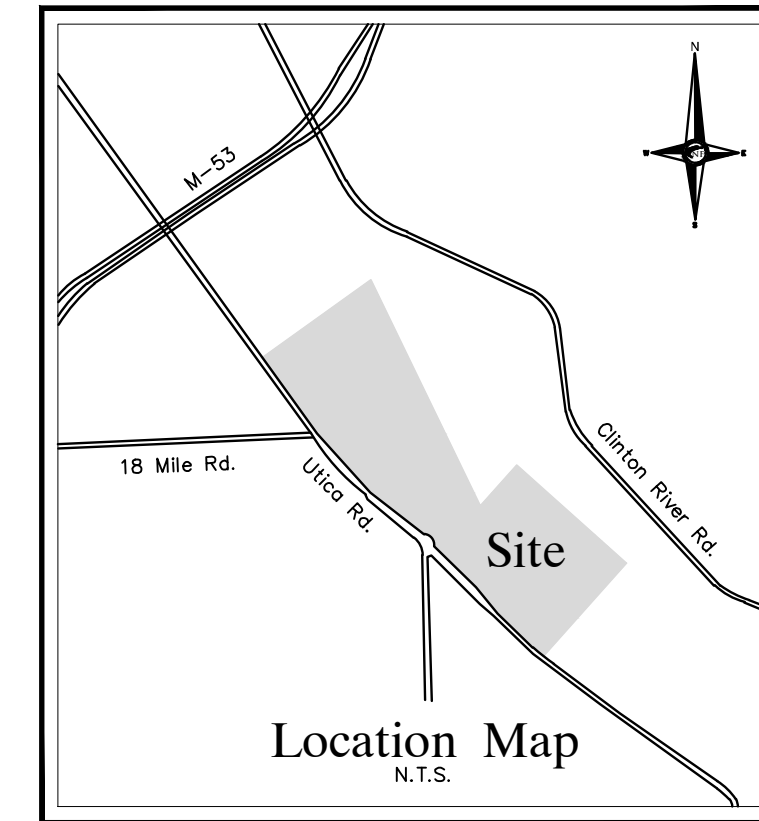
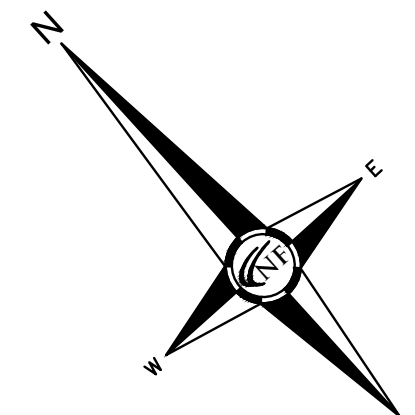
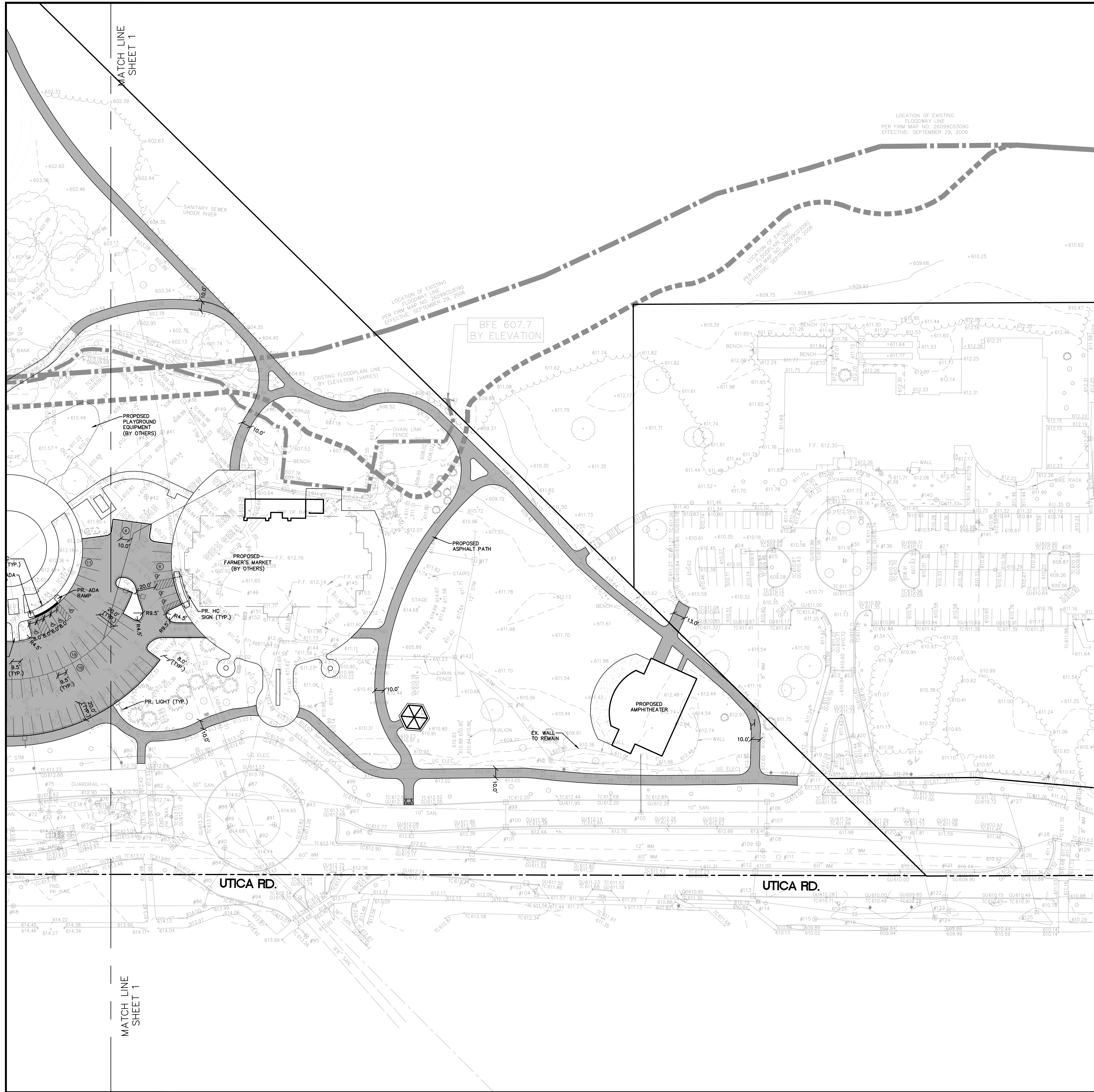
APPROVED BY:
P. Williams

DATE:
June 14, 2017

SCALE: 1" = 50'

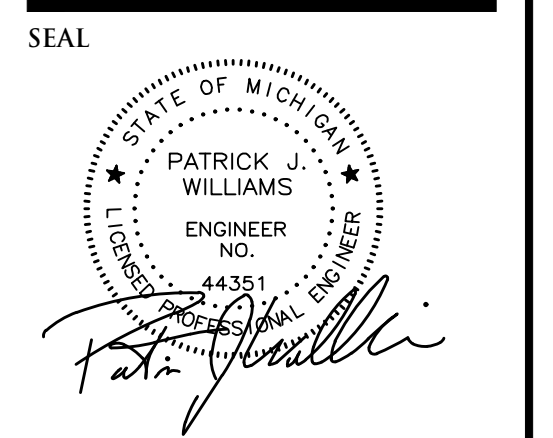
NFE JOB NO. **J555** SHEET NO. **C-6**





**CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS**

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257



PROJECT
Dodge Park Improvements
40200 & 40620 Utica

CLIENT
Dorchen Martin Associates
29895 Greenfield Road
Suite 107
Southfield, MI 48076

Contact: Sam Dorchen
Ph: (248) 557-1062

PROJECT LOCATION
Part of T. 2 North, R. 12 East
City of Sterling Heights,
Macomb County, Michigan

SHEET
Dimensional Site Plan



REVISIONS
00-00-00

PAVING LEGEND

	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT REPAVING
	PROPOSED ASPHALT PAVEMENT

LEGEND

	MANHOLE		EXISTING SANITARY SEWER
	HYDRANT		SAN. CLEAN OUT
	MANHOLE		EXISTING WATERMAIN
	MANHOLE		EXISTING STORM SEWER
	UTILITY POLE		EX. R. Y. CATCH BASIN
	GUY POLE		EXISTING BURIED CABLES
	GUY WIRE		OVERHEAD LINES
	LIGHT POLE		SIGN
	C.O. MANHOLE		EXISTING GAS MAIN
	HYDRANT		PR. SANITARY SEWER
	INLET		PR. WATER MAIN
	C.B. MANHOLE		PR. STORM SEWER
	MANHOLE		PR. R. Y. CATCH BASIN
	PROPOSED LIGHT POLE		
	TC 600.00		PR. TOP OF CURB ELEVATION
	GU 600.00		PR. GUTTER ELEVATION
	TW 600.00		PR. TOP OF WALK ELEVATION
	TP 600.00		PR. TOP OF P.W.M. ELEVATION
	FG 600.00		FINISH GRADE ELEVATION

DRAWN BY:
A. Eizember

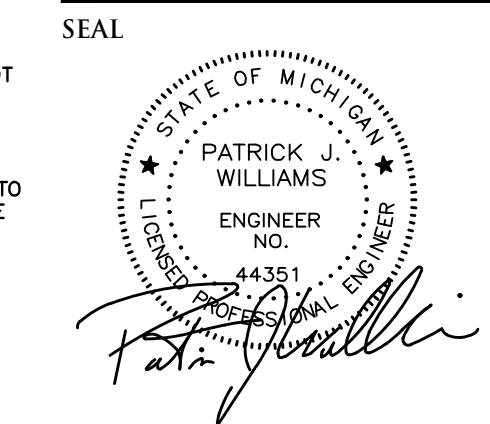
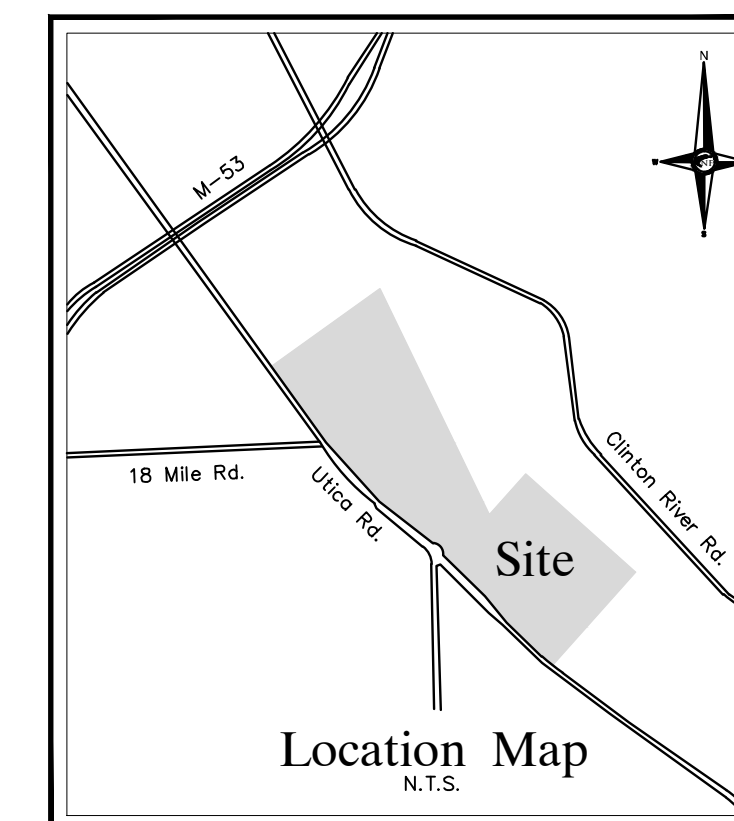
DESIGNED BY:
P. Williams

APPROVED BY:
P. Williams

DATE:
June 14, 2017

SCALE: 1" = 50'

NFE JOB NO. **J555** SHEET NO. **C-7**



PROJECT
Dodge Park Improvements
40200 & 40620 Utica

CLIENT
Dorchen Martin Associates
29895 Greenfield Road
Suite 107
Southfield, MI 48076

Contact: Sam Dorchen
Ph: (248) 557-1062

PROJECT LOCATION
Part of T. 2 North, R. 12 East
City of Sterling Heights,
Macomb County, Michigan

SHEET
Paving/Grading Plan



Know what's below
Call before you dig.

REVISIONS
00-00-00

DRAWN BY:
A. Eizember
DESIGNED BY:
P. Williams
APPROVED BY:
P. Williams

DATE:
June 14, 2017

SCALE: 1" = 50'

NFE JOB NO. SHEET NO.

J555 C-8

PAVING AND GRADING PAI ITEM NOTES

- 1) ALL IMPORTED MATERIAL SHALL BE PAID FOR AS "FILL". MATERIAL NOT TO BE IMPORTED IF AVAILABLE ELSEWHERE ON SITE.
- 2) ALL EXPORTED MATERIAL SHALL BE PAID FOR AS "EARTH EXCAVATION". MATERIAL IS NOT TO BE EXPORTED IF AVAILABLE FOR USE ELSEWHERE ON SITE.
- 3) ALL LAND BALANCING SHALL BE PAID FOR AS "MASS GRADING". "MASS GRADING" DOES NOT INCLUDE PAVEMENT SUBGRADE PREPARATION.
- 4) ALL AGGREGATE BASE SHALL BE PULVERIZED MATERIAL UNTIL ALL PULVERIZED MATERIAL IS UTILIZED. ONLY THEN SHALL 21AA AGGREGATE BASE BE USED. 21AA SHALL BE PAID FOR AS "21AA CRUSHED CONCRETE, AGGREGATE BASE (C.I.P.)".
- 5) "SUBGRADE UNDERCUT" INCLUDES REMOVAL AND EXPORTING OF UNDESIRABLE MATERIAL. FILLING OF UNDERCUT SHALL BE WITH PULVERIZED MATERIAL (IF AVAILABLE) OR 21AA (IF PULVERIZED MATERIAL IS NOT AVAILABLE). THIS SHALL BE PAID FOR AS, "FILL, PULVERIZED MATERIAL" OR "21AA CRUSHED CONCRETE, AGGREGATE BASE (C.I.P.)", RESPECTIVELY.

NOTE

MACOMB COUNTY DEPARTMENT OF ROADS PERMIT IS REQUIRED FOR ALL WORK WITHIN THE UTICA ROAD RIGHT-OF-WAY.

NOTE

1 LANE OF UTICA RD. MUST REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.

GENERAL PAVING NOTES

PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

CONCRETE: PORTLAND CEMENT TYPE IA (AIR-ENTRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES.

ASPHALT: BASE COURSE - MDOT BITUMINOUS MIXTURE NO. 1100L, 20AA; SURFACE COURSE - MDOT BITUMINOUS MIXTURE NO. 1100T, 20AA; ASPHALT CEMENT PENETRATION GRADE 85-100, BOND COAT - MDOT SS-1H EMULSION AT 0.10 GALLON PER SQUARE YARD; MAXIMUM 2 INCH LIFT.

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS-S164.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.

ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.

CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION.

EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS.

EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADIUS.

SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.

ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.

FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.

**ESTIMATED QUANTITIES
PAVING AND GRADING**

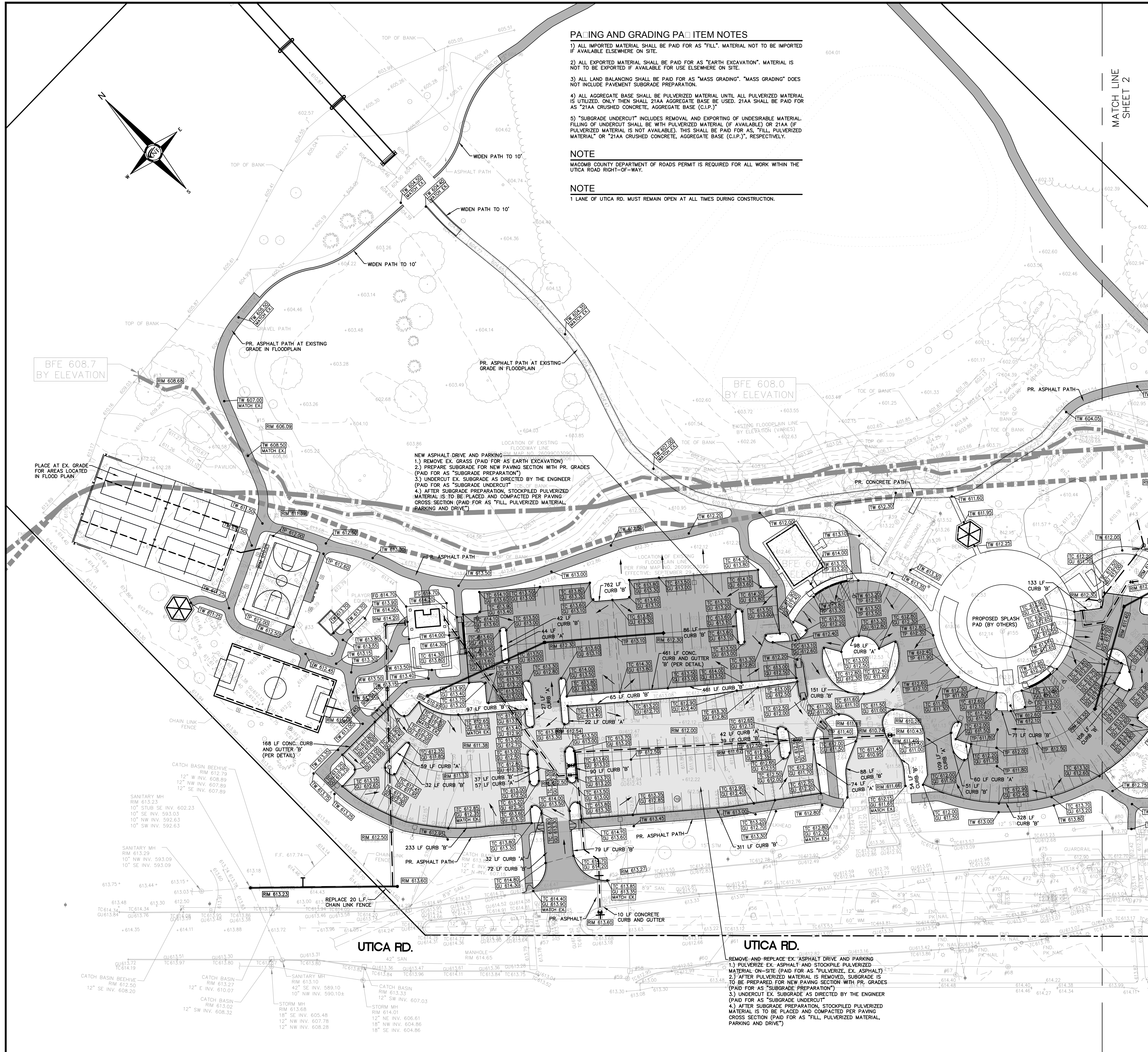
DESCRIPTION	QUANTITY	UNITS
HMA, 1100L	2,800	TONS
HMA, 1300T	2,800	TONS
21" AA CRUSHED CONCRETE, AGGREGATE BASE (C.I.P.)	1,075	C.Y.
FILL, PULVERIZED MATERIAL, PARKING, DRIVE AND PATH	23,750	S.Y.
SUBGRADE PREPARATION	23,750	S.Y.
6" CONCRETE CURB AND GUTTER 'A'	675	L.F.
6" CONCRETE CURB AND GUTTER 'B'	3,510	L.F.
4" CONCRETE SIDEWALK	21,750	S.F.
HANDICAP PARKING SIGN	17	E.A.
PAVEMENT MARKINGS	1	L.S.
FILL	1,000	C.Y.
EXCAVATION	1,000	C.Y.
SUBGRADE UNDERCUT	250	C.Y.
MASS GRADING	1	L.S.

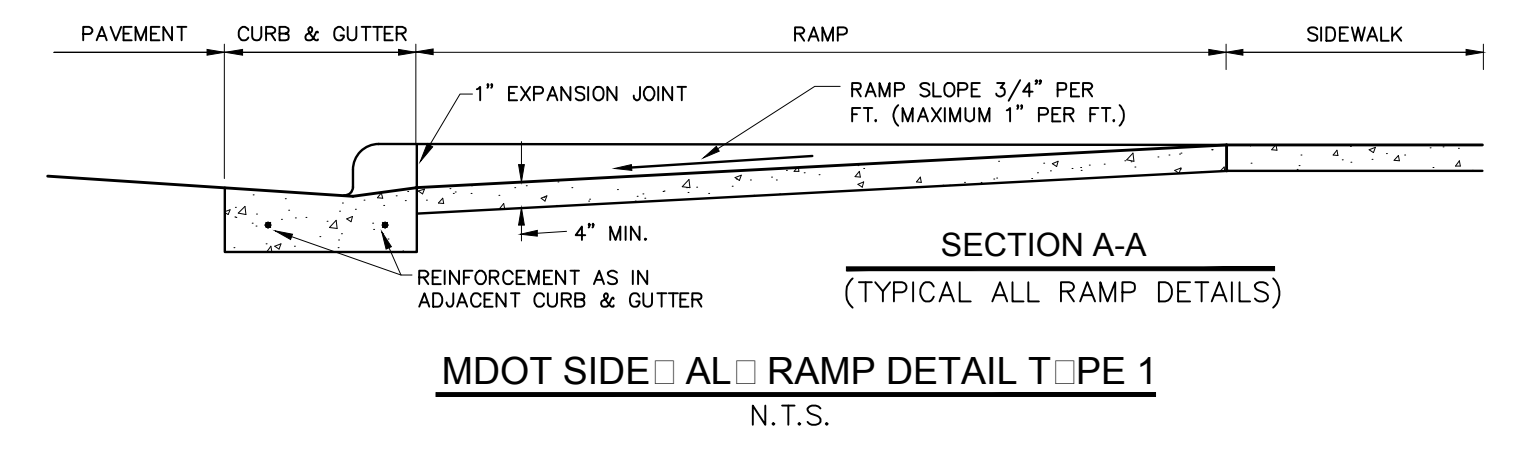
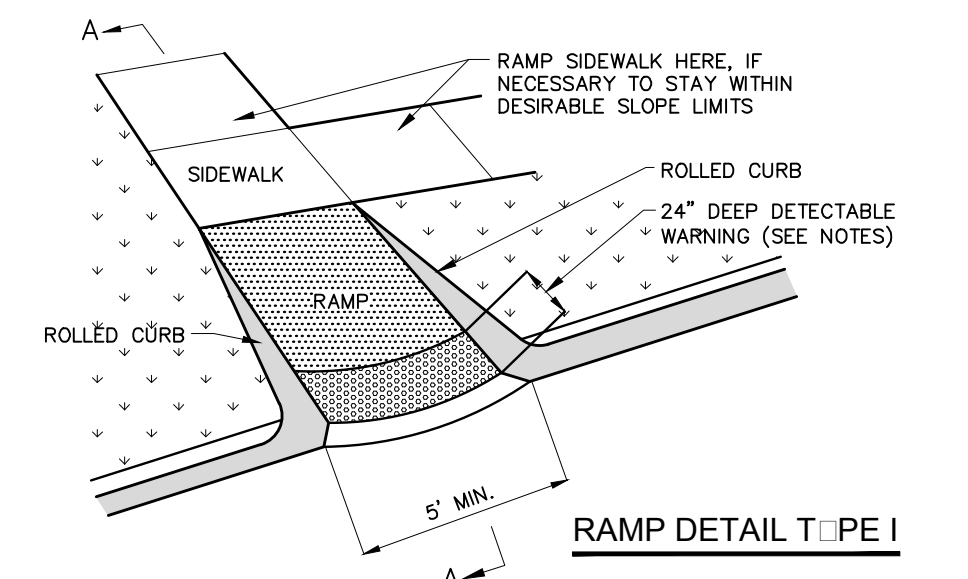
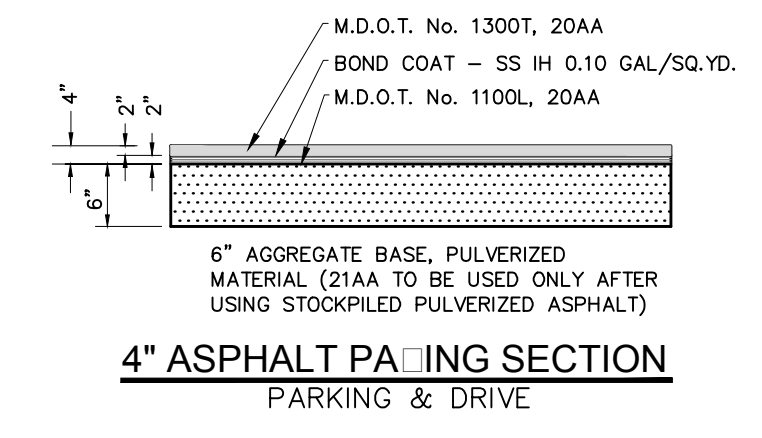
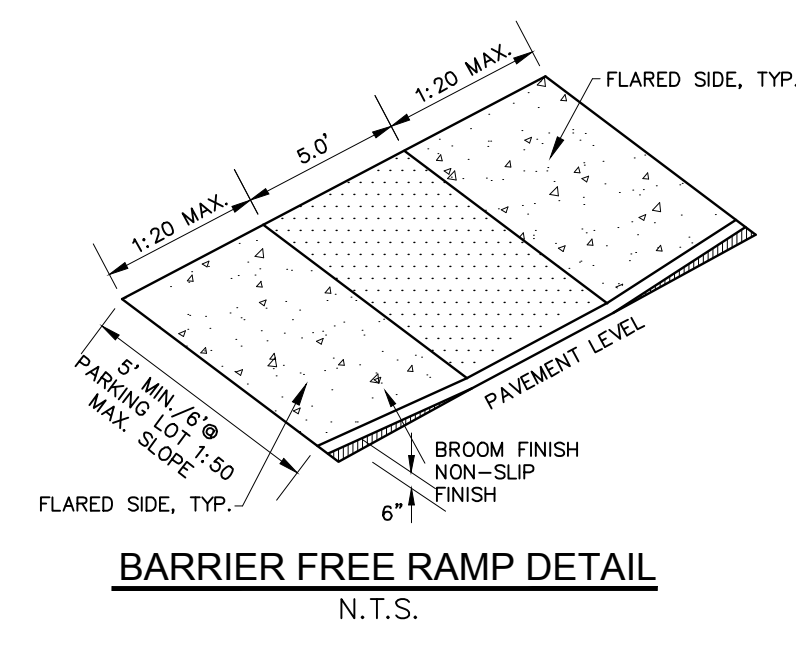
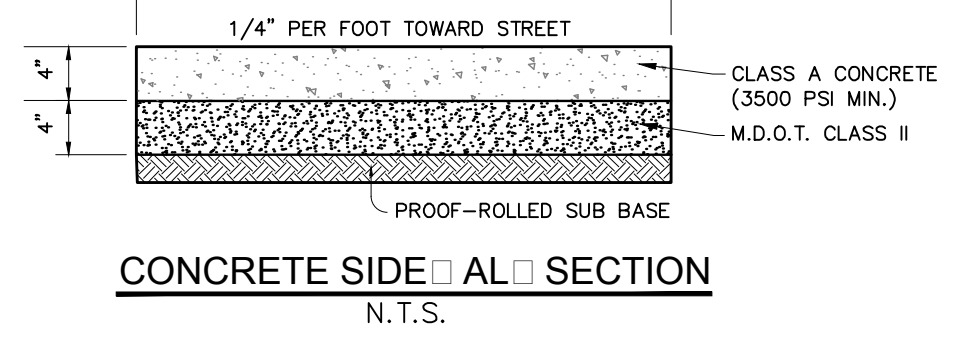
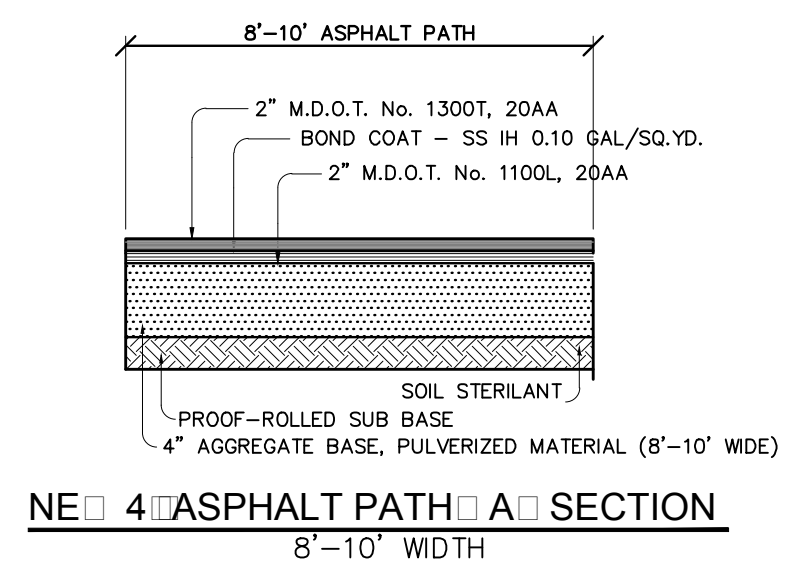
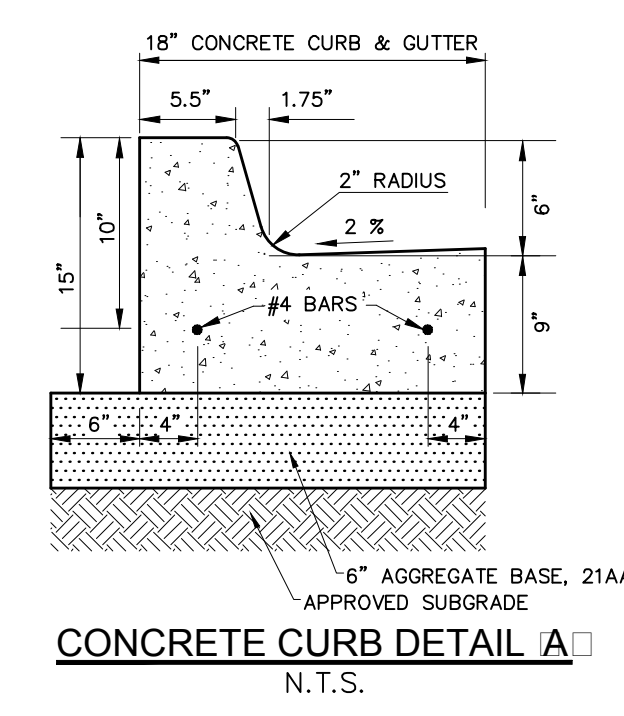
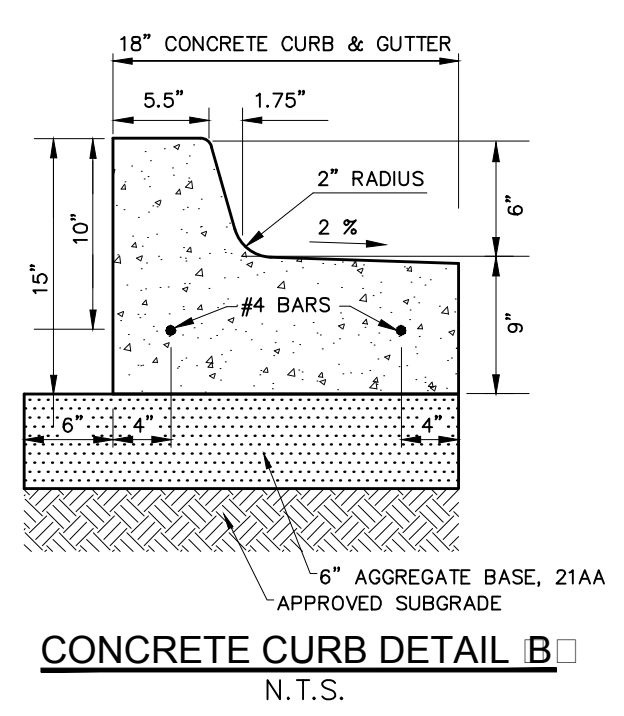
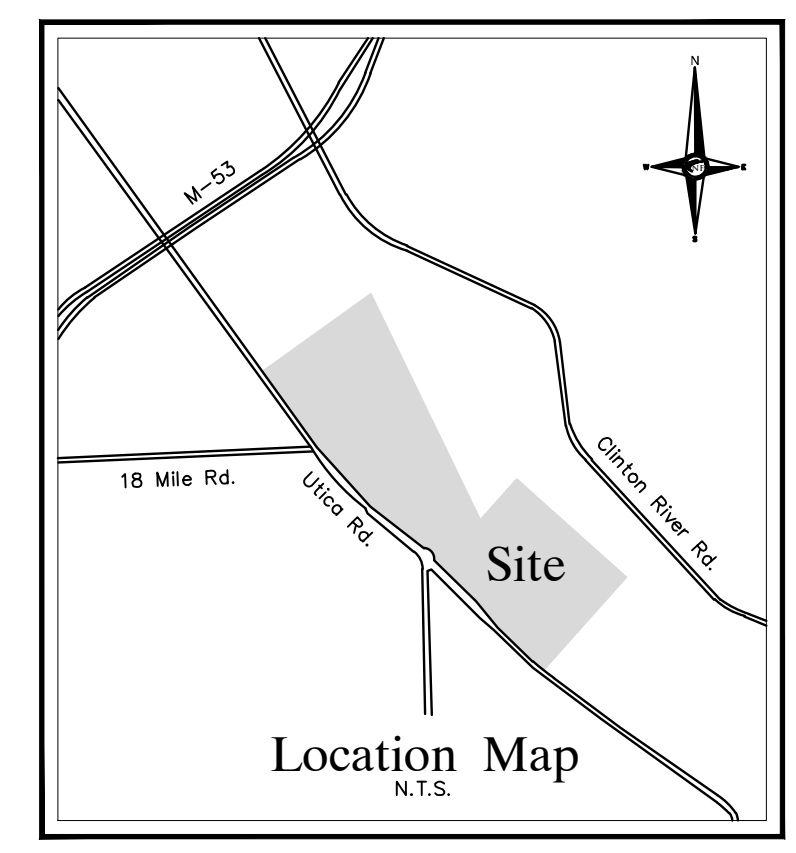
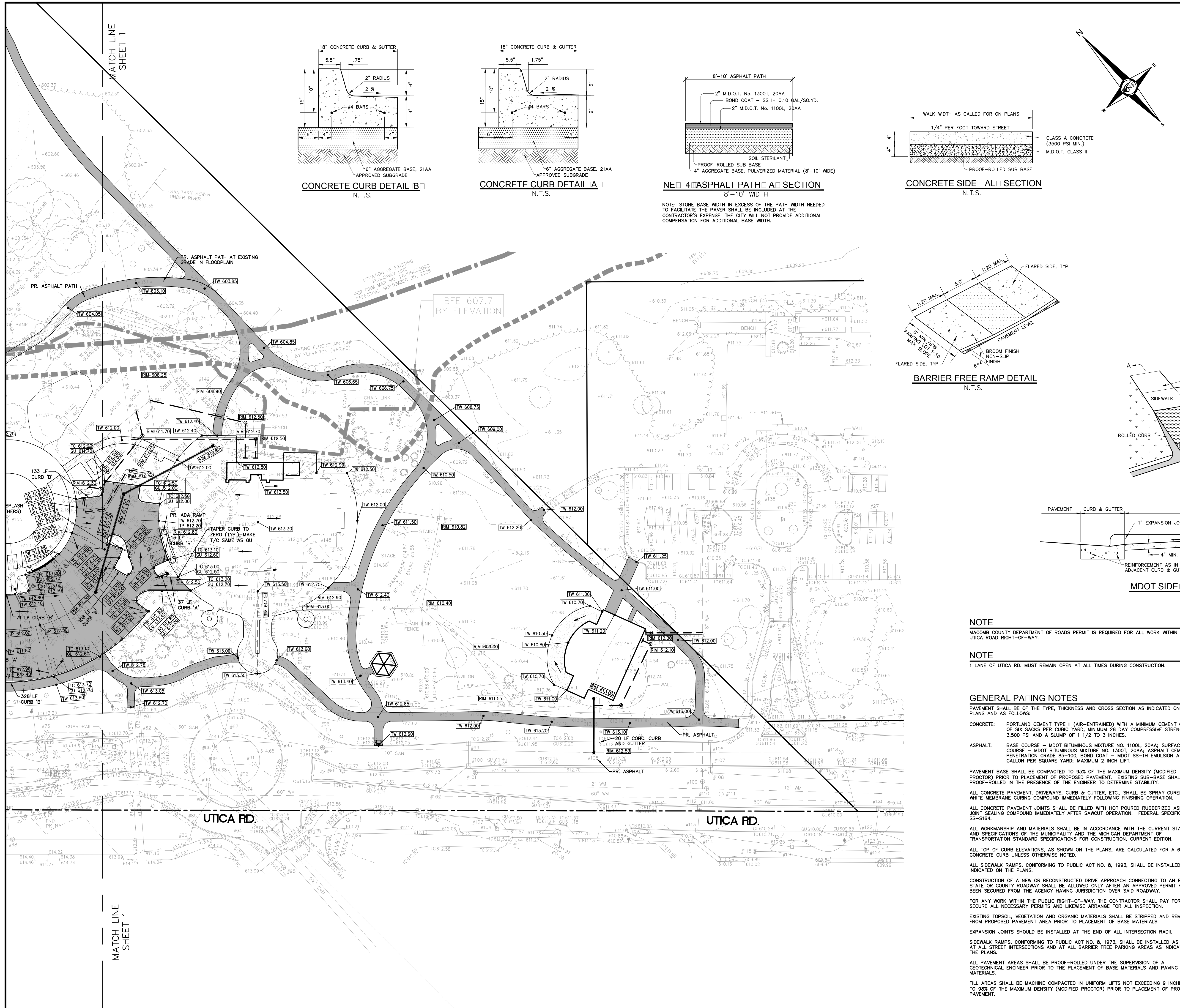
PAVING LEGEND

	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT REPAVING
	PROPOSED ASPHALT PAVEMENT

LEGEND

	MANHOLE		EXISTING SANITARY SEWER
	HYDRANT		SAN. CLEAN OUT
	MANHOLE CATCH BASIN		EXISTING WATERMAIN
	UTILITY POLE		EXISTING STORM SEWER
	GUY WIRE		EX. R. Y. CATCH BASIN
	LIGHT POLE		EXISTING BURIED CABLES
	SIGN		OVERHEAD LINES
	C.O. MANHOLE		EXISTING GAS MAIN
	HYDRANT GATE VALVE		PR. SANITARY SEWER
	INLET C.S.B.		PR. WATER MAIN
	C.S.B.		PR. STORM SEWER
	C.S.B.		PR. R. Y. CATCH BASIN
	PROPOSED LIGHT POLE		
	PR. TOP OF CURB ELEVATION		
	PR. GUTTER ELEVATION		
	PR. TOP OF WALK ELEVATION		
	PR. TOP OF PMT. ELEVATION		
	FINISH GRADE ELEVATION		





NOTE
MACOMB COUNTY DEPARTMENT OF ROADS PERMIT IS REQUIRED FOR ALL WORK WITHIN THE UTICA ROAD RIGHT-OF-WAY.

NOTE
1 LANE OF UTICA RD. MUST REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.

GENERAL PAVING NOTES

PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:
CONCRETE: PORTLAND CEMENT TYPE II (AIR-ENTRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES.
ASPHALT: BASE COURSE - MDT BITUMINOUS MIXTURE NO. 1100L, 20AA; SURFACE COURSE - MDT BITUMINOUS MIXTURE NO. 1300T, 20AA; ASPHALT CEMENT PENETRATION GRADE 85-100, BOND COAT - MDT SS-1H EMULSION AT 0.10 GALLON PER SQUARE YARD; MAXIMUM 2 INCH LIFT.

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.
ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS-5164.
ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6\"/>

ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.
CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LICENSES AND ARRANGE FOR ALL INSPECTION.
EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS.

EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.
SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.
ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.
FILL AREAS SHALL BE MACHINE COMPACTED TO UNIFORMITY NOT EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.

PAVING LEGEND

	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT REPAVING
	PROPOSED ASPHALT PAVEMENT

LEGEND

	MANHOLE		EXISTING SANITARY SEWER
	HYDRANT		SAN. CLEAN OUT
	GATE VALVE		EXISTING WATERMAIN
	MANHOLE CATCH BASIN		EXISTING STORM SEWER
	UTILITY POLE		EX. R. Y. CATCH BASIN
	GUY POLE		EXISTING BURIED CABLES
	GUY WIRE		OVERHEAD LINES
	LIGHT POLE		SIGN
	EXISTING GAS MAIN		C.O.
	MANHOLE C.S.B.		PR. SANITARY SEWER
	HYDRANT		PR. WATER MAIN
	INLET C.S.B.		PR. STORM SEWER
	C.S.B.		PR. R. Y. CATCH BASIN
	PROPOSED LIGHT POLE		PR. TOP OF CURB ELEVATION
	TC 600.00		PR. GUTTER ELEVATION
	TP 600.00		PR. TOP OF WALK ELEVATION
	FG 600.00		PR. TOP OF PMNT. ELEVATION
	PR. TOP OF PMNT. ELEVATION		FINISH GRADE ELEVATION

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
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FAX. (248) 332-8257

PROJECT
Dodge Park Improvements
40200 & 40620 Utica

CLIENT
Dorchen Martin Associates
29895 Greenfield Road
Suite 107
Southfield, MI 48076

Contact: Sam Dorchen
Ph: (248) 557-1062

PROJECT LOCATION
Part of T. 2 North, R. 12 East
City of Sterling Heights,
Macomb County, Michigan

SHEET
Paving & Grading Plan

811
Know what's below
Call before you dig.

REVISIONS
00-00-00

DRAWN BY:
A. Eizember

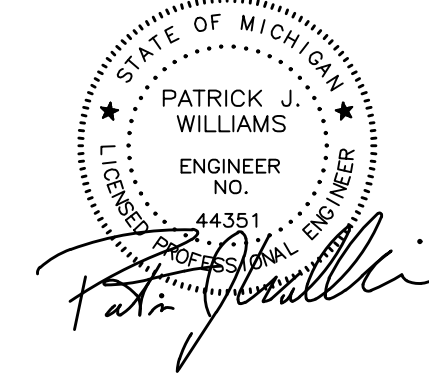
DESIGNED BY:
P. Williams

APPROVED BY:
P. Williams

DATE:
June 14, 2017

SCALE: 1" = 50'
NFE JOB NO. J555 SHEET NO. C-9

SEAL



PROJECT
Dodge Park Improvements
40200 & 40620 Utica

CLIENT
Dorchen Martin Associates
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Suite 107
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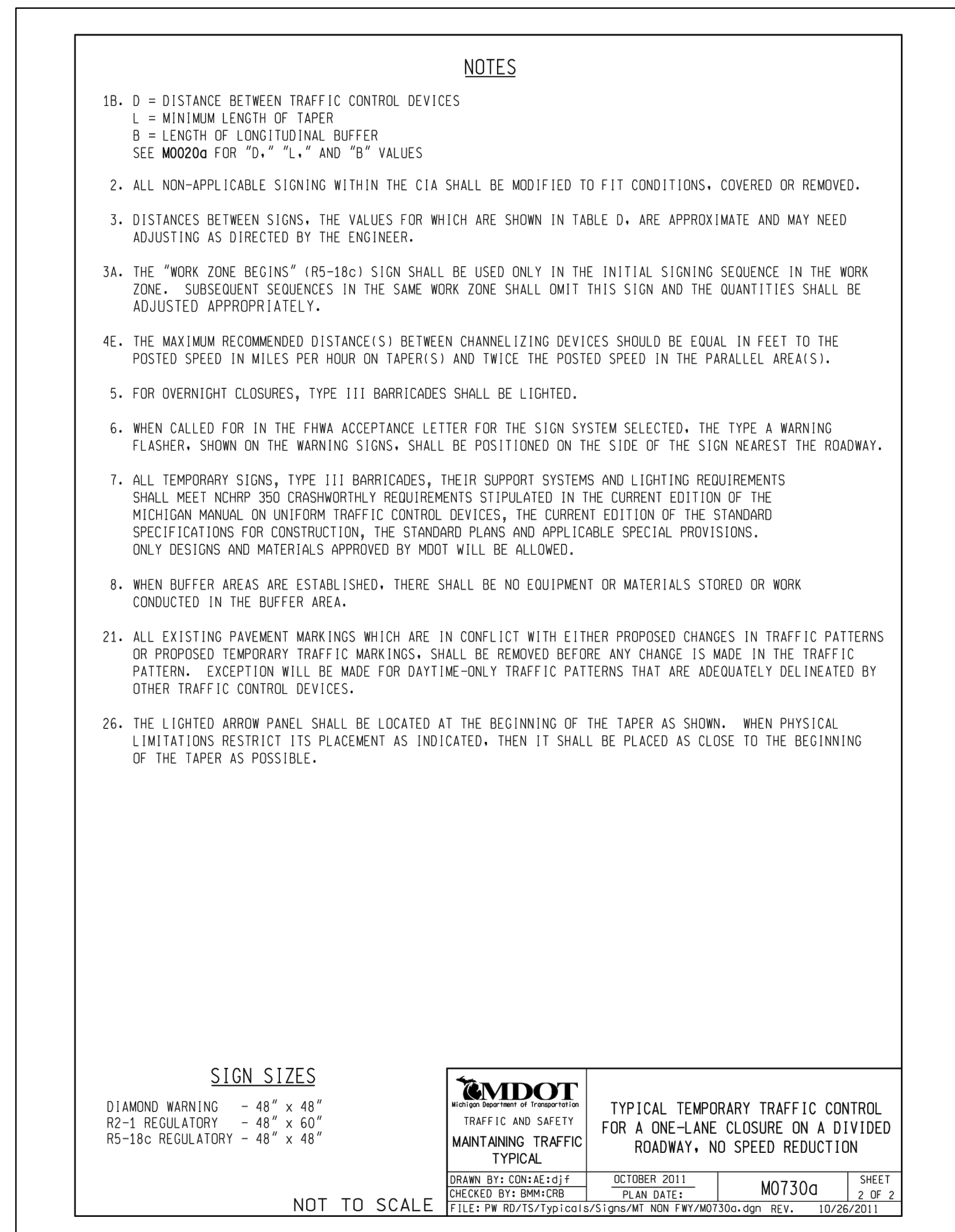
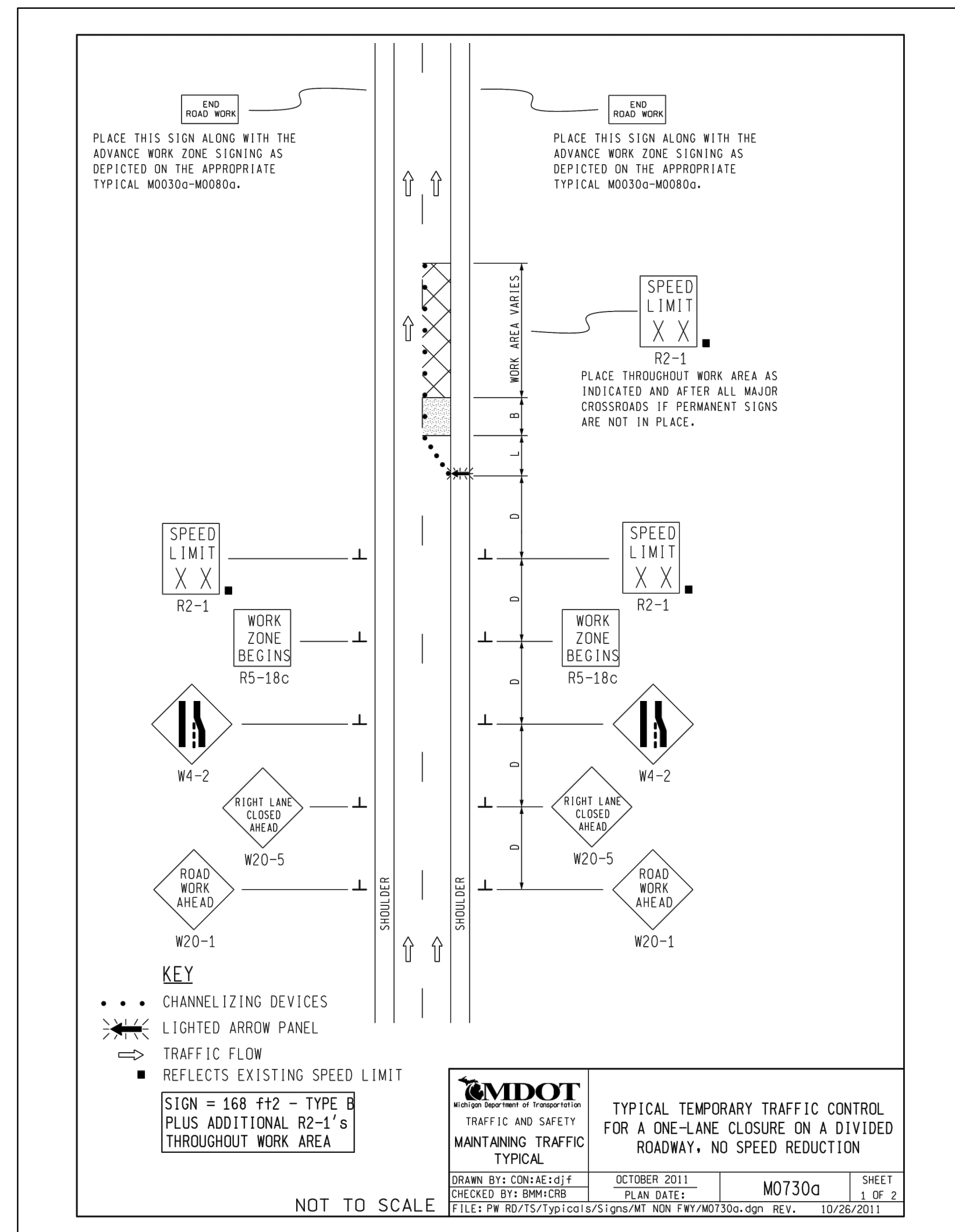
PROJECT LOCATION
Part of T. 2 North, R. 12 East
City of Sterling Heights,
Macomb County, Michigan

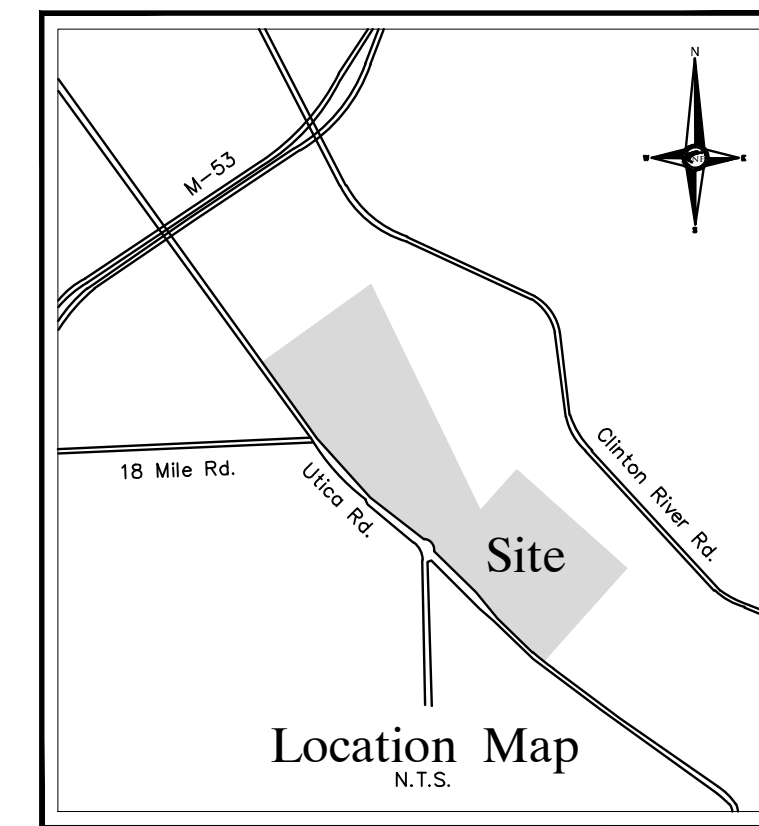
SHEET
MDOT Traffic Detail



REVISIONS
00-00-00

DRAWN BY:
A. Eizember
DESIGNED BY:
P. Williams
APPROVED BY:
P. Williams
DATE:
June 14, 2017
SCALE: 1" = 50'
NFE JOB NO. SHEET NO.
J555 C-10





SEAL



PROJECT
Dodge Park Improvements
40200 & 40620 Utica

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Dorchen Martin Associates
29895 Greenfield Road
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Contact: Sam Dorchen
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PROJECT LOCATION
Part of T. 2 North, R. 12 East
City of Sterling Heights,
Macomb County, Michigan

SHEET
Utility Plan



Know what's below
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REVISIONS

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DRAWN BY:
A. Eizember

DESIGNED BY:
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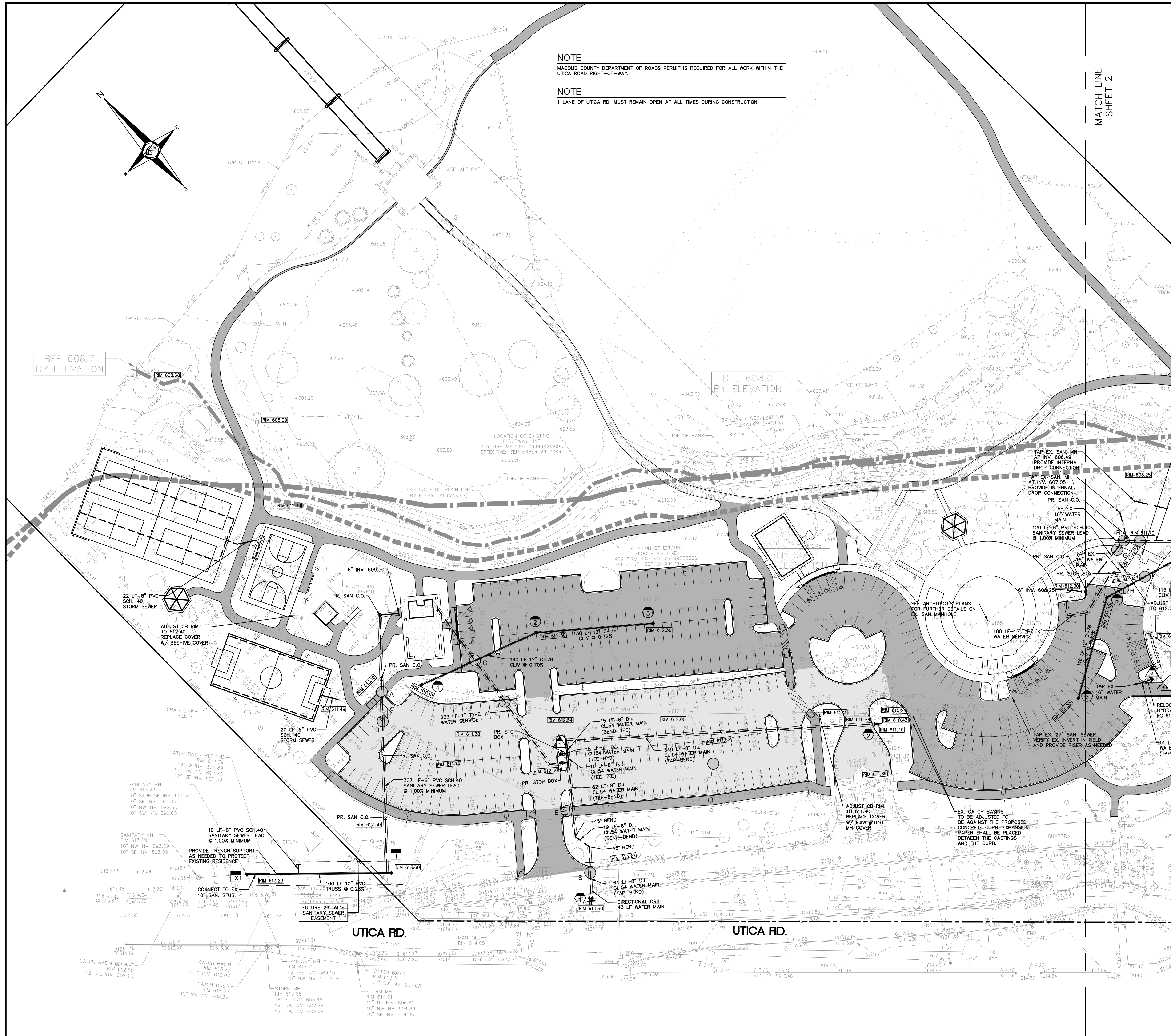
APPROVED BY:
P. Williams

DATE:
June 14, 2017

SCALE: 1" = 50'

NFE JOB NO. SHEET NO.

J555 C-11



NOTE
MACOMB COUNTY DEPARTMENT OF ROADS PERMIT IS REQUIRED FOR ALL WORK WITHIN THE UTICA ROAD RIGHT-OF-WAY.

NOTE
1 LANE OF UTICA RD. MUST REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.

HYDRANT SCHEDULE

1	6" STANDARD FIRE HYDRANT F.G. 613.40	2	RELOCATED 6" STANDARD FIRE HYDRANT F.G. 613.10
---	---	---	---

GATE VALVE SCHEDULE

1	8" TAPPING SLEEVE, GATE VALVE IN WELL RM 613.60	2	8" TAPPING SLEEVE, GATE VALVE IN WELL RM 611.70
---	--	---	--

SAN MANHOLE SCHEDULE

1	4" DIA. MANHOLE RM 613.60 10" NW INV. 602.65 6" NE INV. 606.44
---	---

STORM STRUCTURE SCHEDULE

1	4" DIA CATCH BASIN W/2" SUMP E/W #5105 COVER RM 610.91 EX. 12" SE INV. 606.71 EX. 12" NW INV. 606.71 PR. 12" W INV. 604.78	4	4" DIA CATCH BASIN W/2" SUMP E/W #5105 COVER RM 612.60 EX. 12" N INV. 604.78 EX. 12" SE INV. 604.78 EX. 18" CMP E INV. 604.58 PR. 12" W INV. 604.58
2	4" DIA CATCH BASIN W/2" SUMP E/W #5105 COVER RM 612.30 12" SE INV. 607.69 12" SW INV. 607.69	5	4" DIA CATCH BASIN W/2" SUMP E/W #5105 COVER RM 611.60 12" SE INV. 605.39 12" E INV. 605.39
3	4" DIA CATCH BASIN W/2" SUMP E/W #5105 COVER RM 612.30 12" NW INV. 608.11	6	4" DIA CATCH BASIN W/2" SUMP E/W #5105 COVER RM 611.60 12" E INV. 605.76

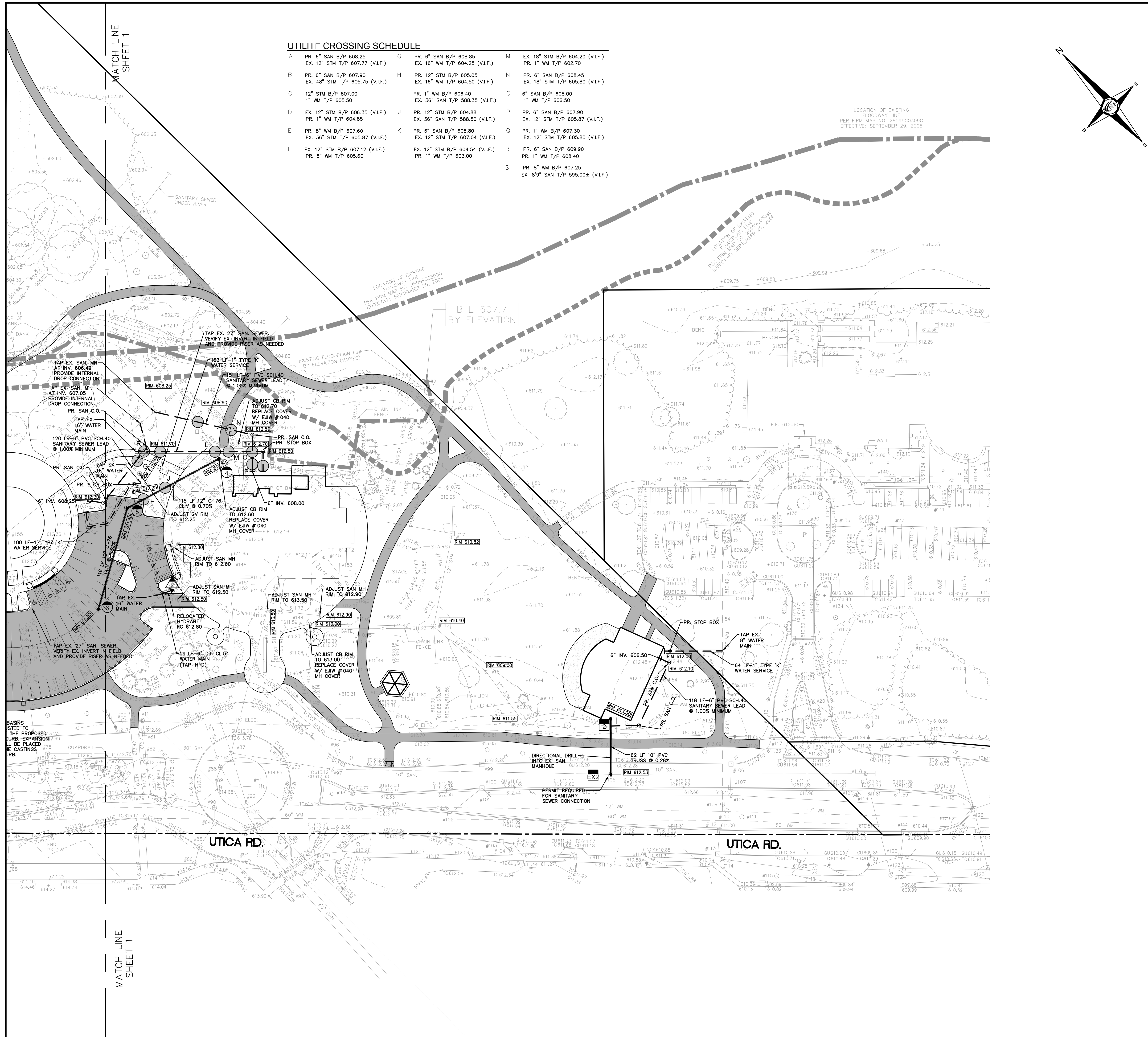
NOTE
HYDRANT CONNECTION PERMIT REQUIRED PRIOR TO CONNECTING TO HYDRANT (CONTRACTOR TO PAY ALL FEES).

PAVING LEGEND

[Pattern]	PROPOSED CONCRETE PAVEMENT
[Pattern]	PROPOSED ASPHALT REPAVING
[Pattern]	PROPOSED ASPHALT PAVEMENT

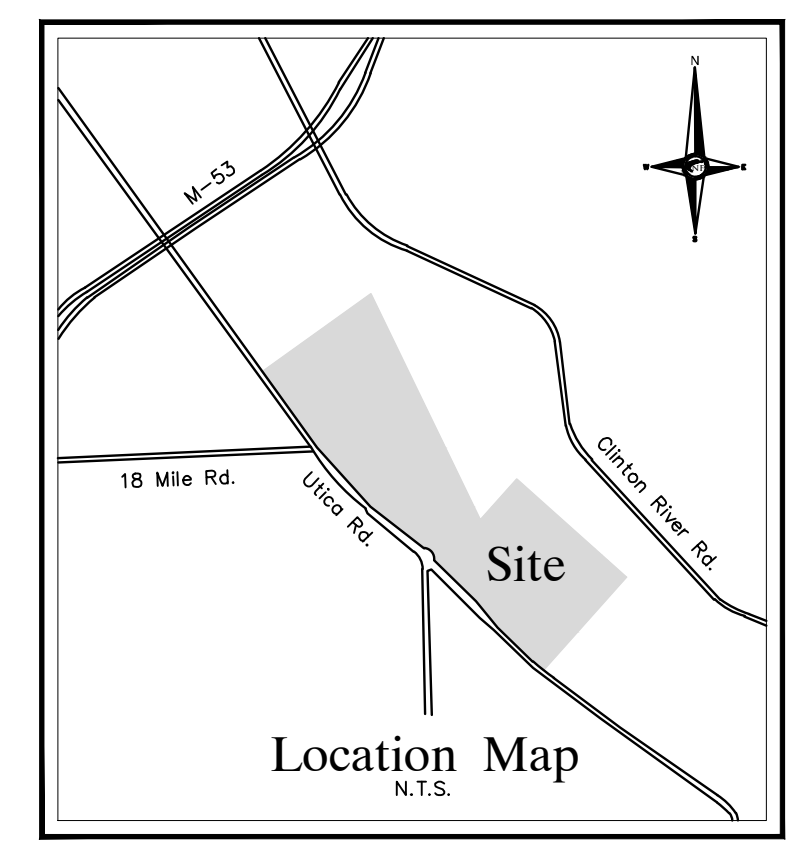
LEGEND

[Symbol]	MANHOLE	[Symbol]	EXISTING SANITARY SEWER
[Symbol]	HYDRANT	[Symbol]	SAN. CLEAN OUT
[Symbol]	MANHOLE	[Symbol]	EXISTING WATERMAIN
[Symbol]	MANHOLE	[Symbol]	EXISTING STORM SEWER
[Symbol]	UTILITY POLE	[Symbol]	EX. R. Y. CATCH BASIN
[Symbol]	GUY POLE	[Symbol]	EXISTING BURIED CABLES
[Symbol]	GUY WIRE	[Symbol]	OVERHEAD LINES
[Symbol]	LIGHT POLE	[Symbol]	SIGN
[Symbol]	EXISTING GAS MAIN	[Symbol]	PR. SANITARY SEWER
[Symbol]	PR. WATER MAIN	[Symbol]	PR. STORM SEWER
[Symbol]	PR. R. Y. CATCH BASIN	[Symbol]	PROPOSED LIGHT POLE
[Symbol]	PR. TOP OF CURB ELEVATION	[Symbol]	PR. GUTTER ELEVATION
[Symbol]	PR. TOP OF WALK ELEVATION	[Symbol]	PR. TOP OF PMWT. ELEVATION
[Symbol]	PR. FINISH GRADE ELEVATION	[Symbol]	



UTILITY CROSSING SCHEDULE

A	PR. 6" SAN B/P 608.25 EX. 12" STM T/P 607.77 (V.I.F.)	G	PR. 6" SAN B/P 608.85 EX. 16" WM T/P 604.25 (V.I.F.)	M	EX. 18" STM B/P 604.20 (V.I.F.) PR. 1" WM T/P 602.70
B	PR. 6" SAN B/P 607.90 EX. 48" STM T/P 605.75 (V.I.F.)	H	PR. 12" STM B/P 605.05 EX. 16" WM T/P 604.50 (V.I.F.)	N	PR. 6" SAN B/P 608.45 EX. 18" STM T/P 605.80 (V.I.F.)
C	EX. 12" STM B/P 607.00 PR. 1" WM T/P 605.50	I	PR. 1" WM B/P 606.40 EX. 36" SAN T/P 588.35 (V.I.F.)	O	6" SAN B/P 608.00 1" WM T/P 606.50
D	EX. 12" STM B/P 606.35 (V.I.F.) PR. 1" WM T/P 604.85	J	PR. 12" STM B/P 604.88 EX. 36" SAN T/P 588.50 (V.I.F.)	P	PR. 6" SAN B/P 607.90 EX. 12" STM T/P 605.87 (V.I.F.)
E	PR. 8" WM B/P 607.60 EX. 36" STM T/P 605.87 (V.I.F.)	K	PR. 6" SAN B/P 608.80 EX. 12" STM T/P 607.04 (V.I.F.)	Q	PR. 1" WM B/P 607.30 EX. 12" STM T/P 605.80 (V.I.F.)
F	EX. 12" STM B/P 607.12 (V.I.F.) PR. 8" WM T/P 605.60	L	EX. 12" STM B/P 604.54 (V.I.F.) PR. 1" WM T/P 603.00	R	PR. 6" SAN B/P 609.90 PR. 1" WM T/P 608.40
				S	PR. 8" WM B/P 607.25 EX. 8 3/4" SAN T/P 595.00± (V.I.F.)



NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
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FAX. (248) 332-8257

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NOTE
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NOTE
HYDRANT CONNECTION PERMIT REQUIRED PRIOR TO CONNECTING TO HYDRANT (CONTRACTOR TO PAY ALL FEES).

ESTIMATED QUANTITIES

STORM SEWER

DESCRIPTION	QUANTITY	UNITS
12" C-76, CLASS IV, SEWER PIPE	501	L.F.
CONNECT TO EX. MANHOLE	4	EA.
4' DIA. CATCH BASIN W/ 2' SUMP	4	EA.
REPLACE STRUCTURE COVER, BEEHIVE	1	EA.
ADJUST EX. STRUCTURE RIM	7	EA.
8" PVC, SCH. 40, STORM SEWER	42	L.F.

SANITARY SEWER

DESCRIPTION	QUANTITY	UNITS
6" PVC, SCH 40, SEWER PIPE	706	L.F.
SANITARY CLEANOUT	9	EA.
SEWER TAP/CONNECTION	4	EA.
ADJUST EX. STRUCTURE RIM	4	EA.
SANITARY MANHOLE	2	EA.
10" PVC TRUSS, SEWER PIPE	212	L.F.
DIRECTIONAL DRILL 10" SANITARY	47	L.F.

WATER MAIN

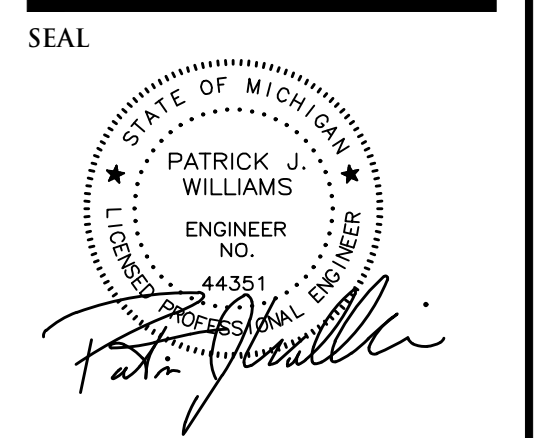
DESCRIPTION	QUANTITY	UNITS
1" TYPE 'K' COPPER BUILDING SERVICE	560	L.F.
RELOCATE 6" HYDRANT ASSEMBLY	1	EA.
1" STOP BOX	4	EA.
6" STOP BOX	1	EA.
WATER MAIN CONNECTION	6	EA.
ADJUST EX. STRUCTURE RIM	1	EA.
8" TAPPING SLEEVE, GV IN WELL	2	EA.
6" HYDRANT ASSEMBLY	1	EA.
6" D.I. CL54 WATER MAIN	22	L.F.
8" D.I. CL54 WATER MAIN	534	L.F.
DIRECTIONAL DRILL 8" WATER MAIN	43	L.F.

PAVING LEGEND

	PROPOSED CONCRETE PAVING
	PROPOSED ASPHALT REPAVING
	PROPOSED ASPHALT PAVING

LEGEND

	MANHOLE		EXISTING SANITARY SEWER
	HYDRANT		SAN. CLEAN OUT
	MANHOLE CATCH BASIN		EXISTING WATERMAIN
	UTILITY POLE		EXISTING STORM SEWER
	GUY WIRE		EX. R. Y. CATCH BASIN
	LIGHT POLE		EXISTING BURIED CABLES
	SIGN		OVERHEAD LINES
	C.O.		EXISTING GAS MAIN
	HYDRANT		PR. SANITARY SEWER
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	C.S.B.		PR. STORM SEWER
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	PROPOSED LIGHT POLE		PR. TOP OF CURB ELEVATION
	TC 600.00		PR. GUTTER ELEVATION
	TW 600.00		PR. TOP OF WALK ELEVATION
	TP 600.00		PR. TOP OF PMVT. ELEVATION
	FG 600.00		FINISH GRADE ELEVATION



PROJECT
Dodge Park Improvements
40200 & 40620 Utica

CLIENT
Dorchen Martin Associates
29895 Greenfield Road
Suite 107
Southfield, MI 48076

Contact: Sam Dorchen
Ph: (248) 557-1062

PROJECT LOCATION
Part of T. 2 North, R. 12 East
City of Sterling Heights,
Macomb County, Michigan

SHEET
Utility Plan



REVISIONS

00-00-00	
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DRAWN BY:
A. Eizember

DESIGNED BY:
P. Williams

APPROVED BY:
P. Williams

DATE:
June 14, 2017

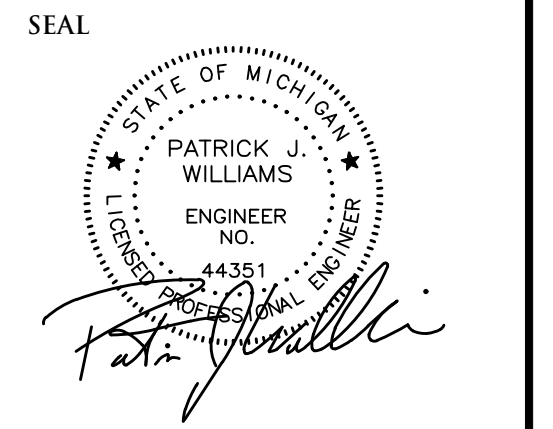
SCALE: 1" = 50'

NFE JOB NO. **J555** SHEET NO. **C-12**



**CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS**

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Dodge Park Improvements
40200 & 40620 Utica

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29895 Greenfield Road
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Ph: (248) 557-1062

PROJECT LOCATION
Part of T. 2 North, R. 12 East
City of Sterling Heights,
Macomb County, Michigan

SHEET
Storm and Sanitary Sewer
Profile Plan



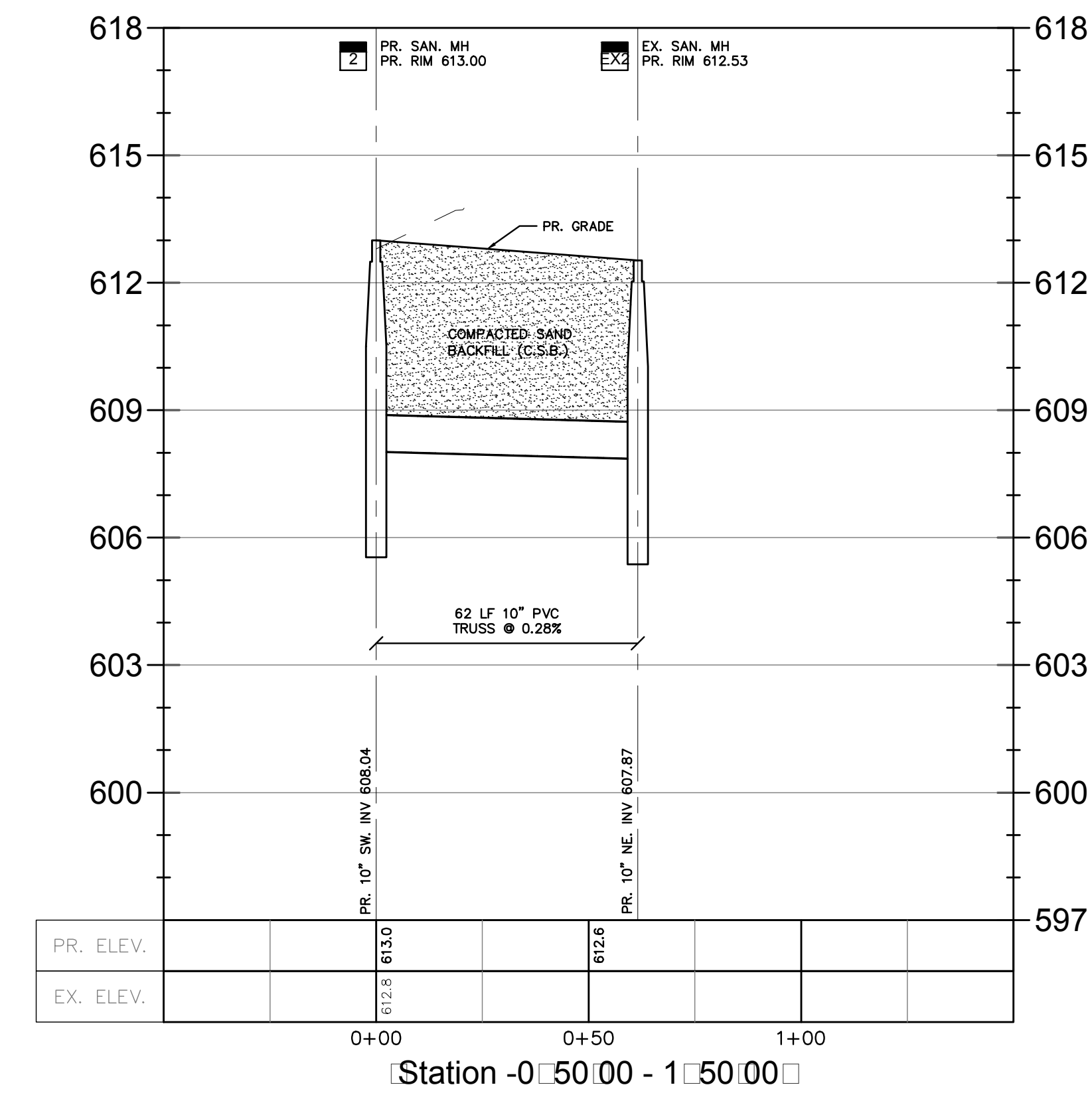
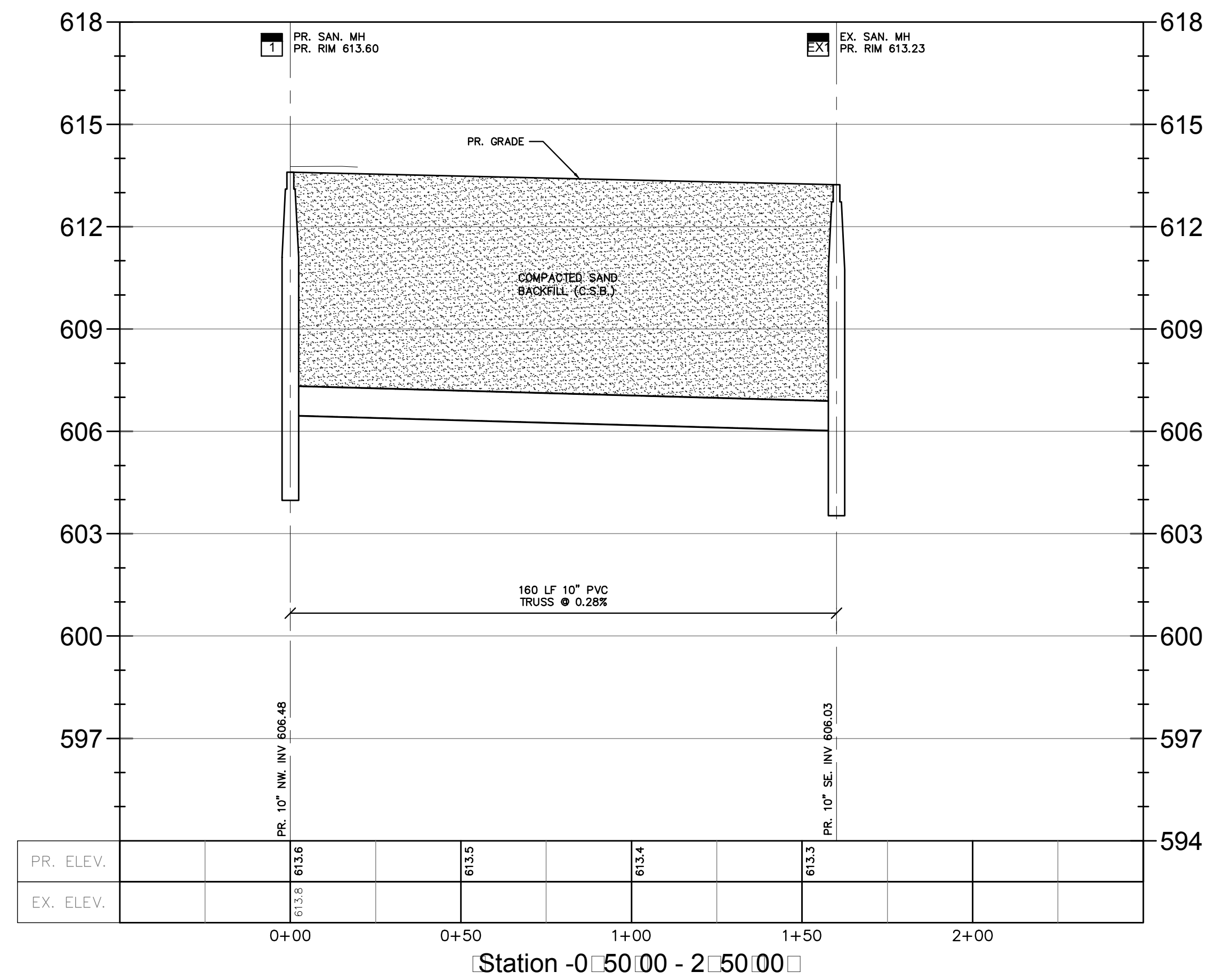
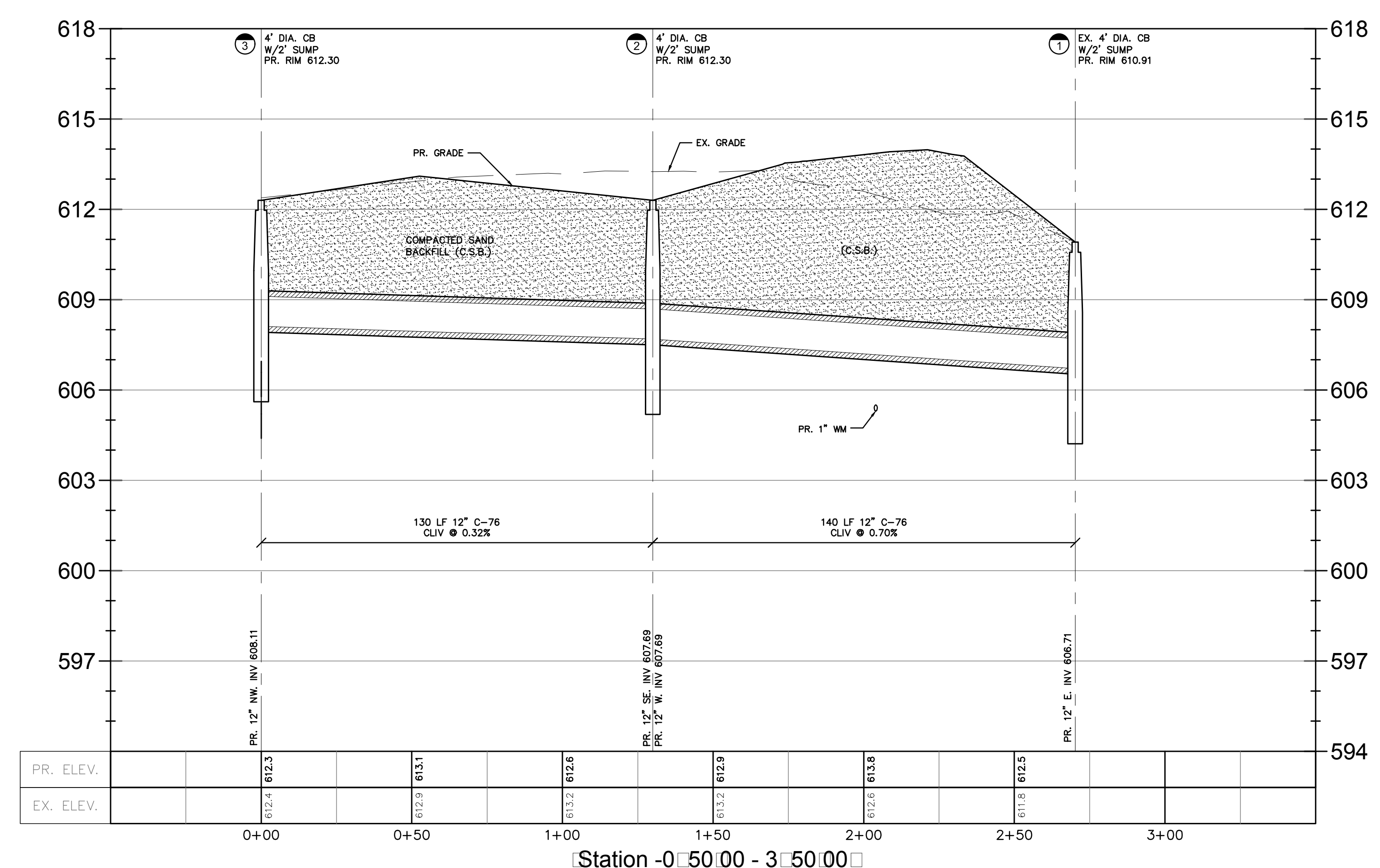
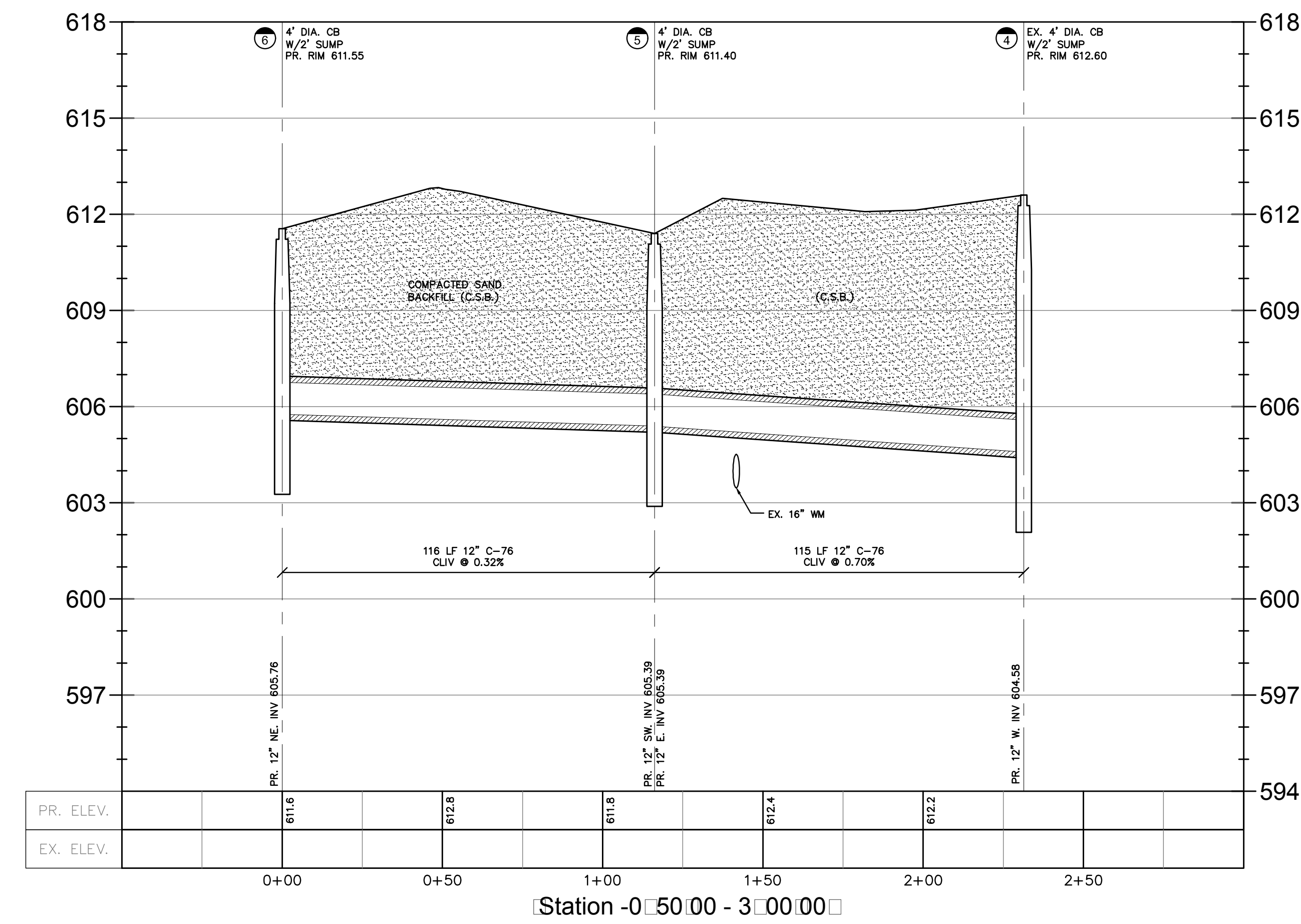
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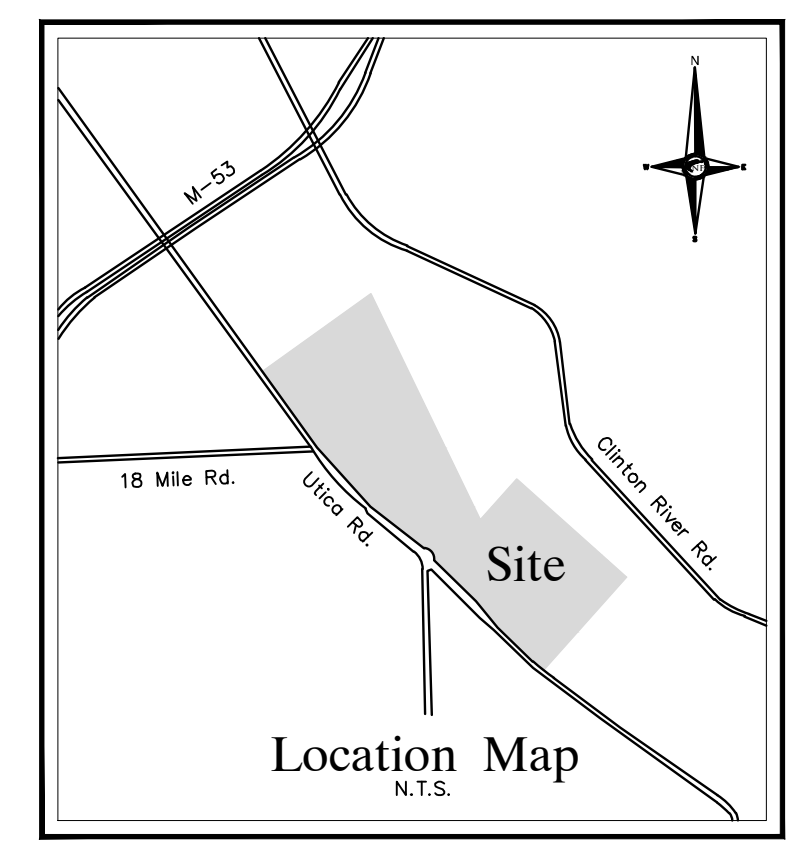
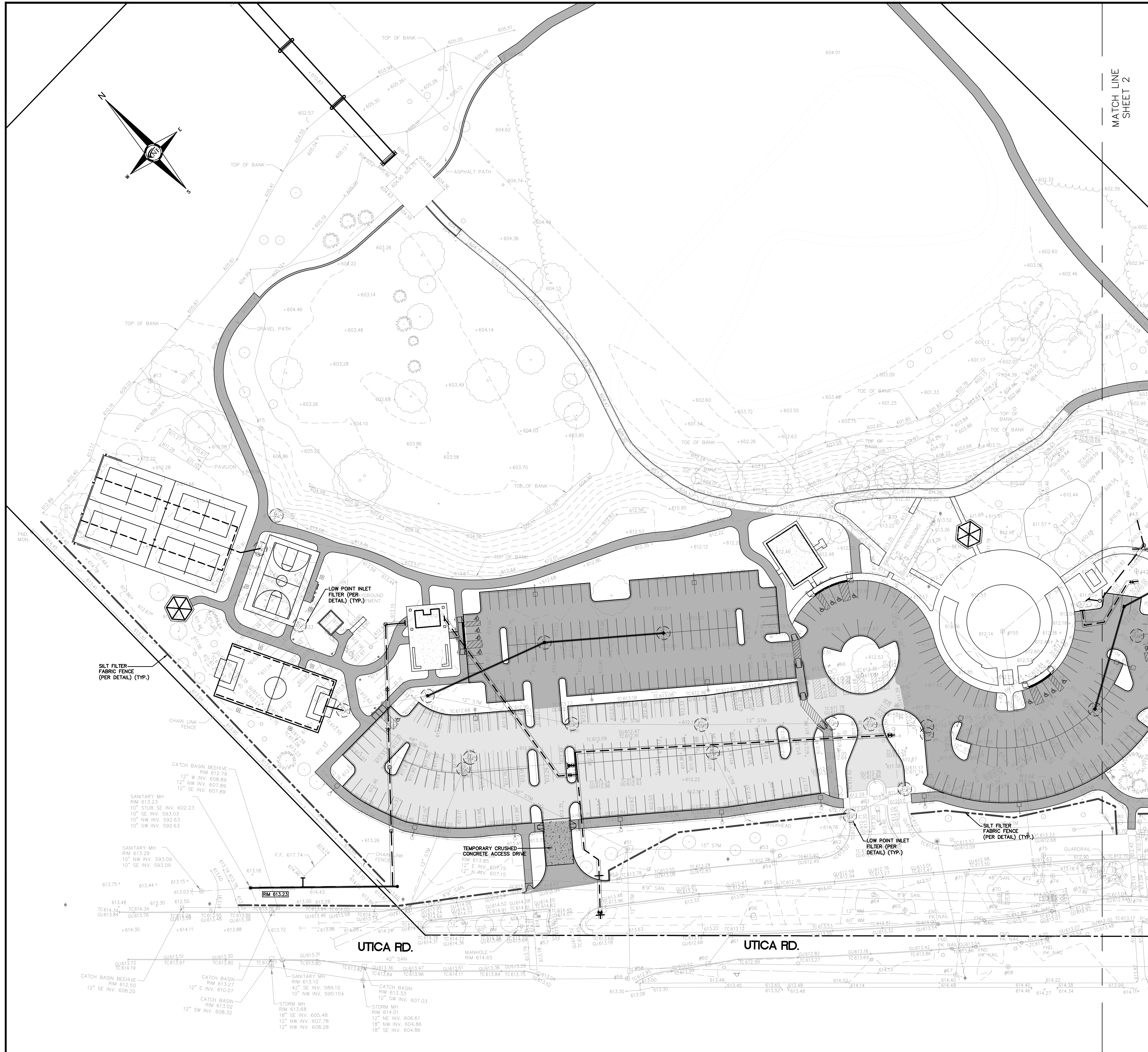
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DRAWN BY:
A. Eizember
DESIGNED BY:
P. Williams
APPROVED BY:
P. Williams
DATE:
June 14, 2017

SCALE: 1" = 50'

NFE JOB NO. SHEET NO.
J555 C-13





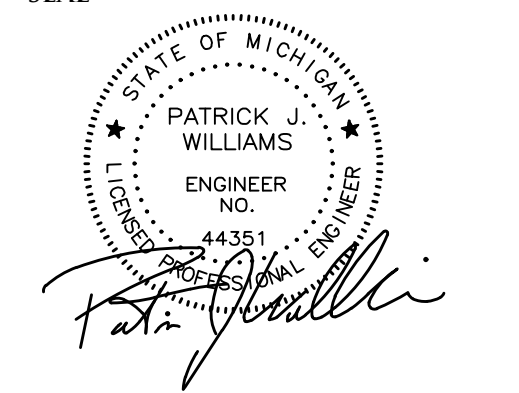
SOIL EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF STERLING HEIGHTS.
2. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES AND ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
3. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
4. EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SEDIMENTATION CONTROL PRACTICES SHALL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OR SOILS OFF THE SITE.
5. CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED AND AS DIRECTED ON THESE PLANS. HE SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED.
6. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAWN AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO STABILIZE A DISTURBED AREA AFTER THE EARTH CHANGE HAS BEEN COMPLETED, OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY HAS CEASED, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED FOR 30 CALENDAR DAYS. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.
7. ALL MUD/DIRT TRACKED ONTO EXISTING CITY/COUNTY/STATE ROADS FROM THIS SITE DUE TO CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR/BUILDER AT THE END OF THE WORK DAY OR IMMEDIATELY IF A DRIVING HAZARD IS PRESENT. ALL MUD/DIRT TRACKED OR SPILLED ON PAVED ROADS/SURFACES WITHIN THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR/BUILDER.
8. ALL ON-SITE AND OFF-SITE AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL EXISTING CONDITIONS. ALL RESTORATION SHALL CONSIST OF A MINIMUM OF 3" OF TOPSOIL WITH SEED AND MULCH OR 3" OF TOPSOIL AND CLASS "A" SOD WHERE EXISTING CONDITION REQUIRE SOD REPLACEMENT.

NOTE

SOIL EROSION DETAILS CAN BE FOUND ON ADDITIONAL "CITY OF STERLING HEIGHTS-SOIL EROSION STANDARD DETAILS" SHEET.

SEAL



PROJECT
Dodge Park Improvements
40200 & 40620 Utica

CLIENT
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Suite 107
Southfield, MI 48076

Contact: Sam Dorchen
Ph: (248) 557-1062

PROJECT LOCATION
Part of T. 2 North, R. 12 East
City of Sterling Heights,
Macomb County, Michigan

SHEET
Soil Erosion Plan



SOIL DATA

68.1%-AuB PIPESTONE SAND, LOAMY SUBSTRATUM, 0 TO 6 PERCENT SLOPES
17.9%-C1 CERESCO FINE SANDY LOAM
14.0%-OdB OAKVILLE FINE SAND, 0 TO 6 PERCENT SLOPES
PER USDA WEB SOIL SURVEY, 2013

NOTE

GROSS ACREAGE DISTURBED: 13.75 ACRES

NOTE

THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994 AS AMENDED. "THE SOIL EROSION & SEDIMENT CONTROL ACT."

NOTE

THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT.

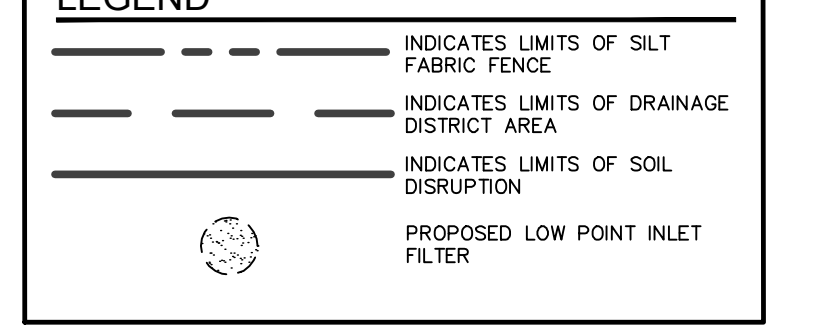
NEAREST WATERCOURSE

THE NEAREST WATERCOURSE IS THE CLINTON RIVER LOCATED ON SITE.

ESTIMATED QUANTITIES

DESCRIPTION	QUANTITY	UNITS
SILT FABRIC FENCING	2,100	L.F.
INLET FILTER	28	E.A.
TEMPORARY CRUSHED CONCRETE DRIVE	175	S.Y.

LEGEND



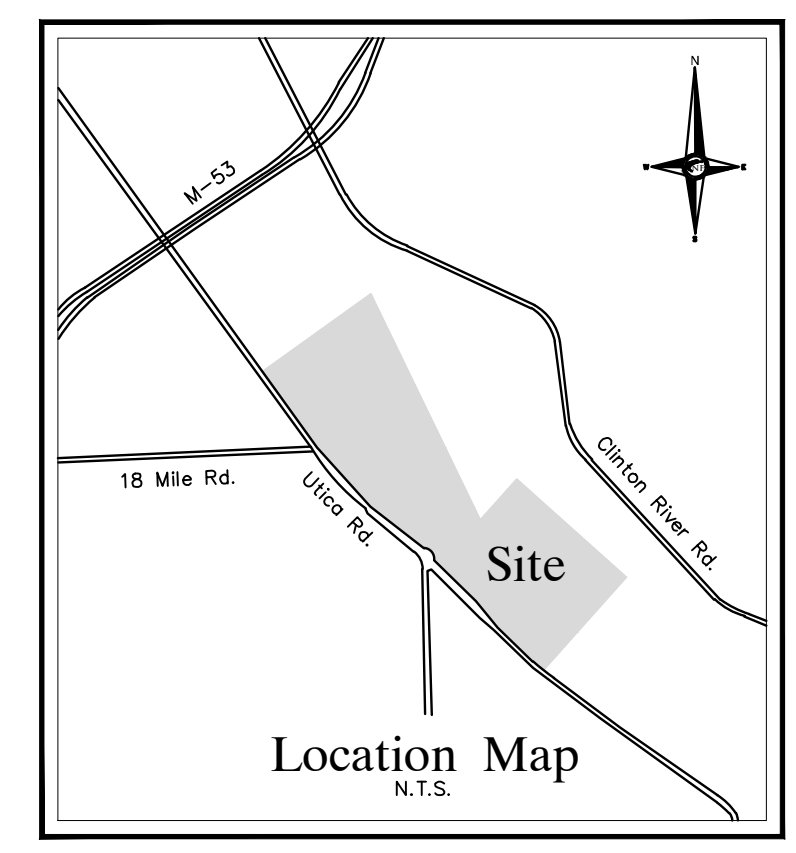
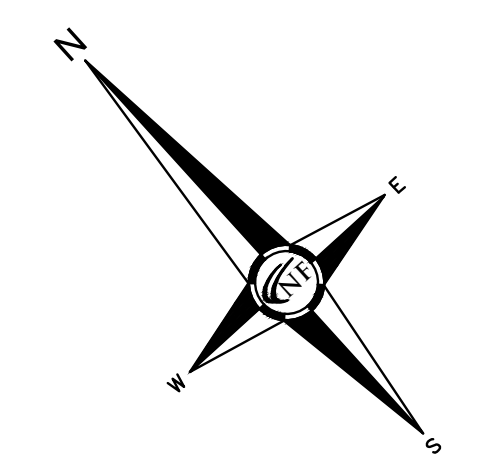
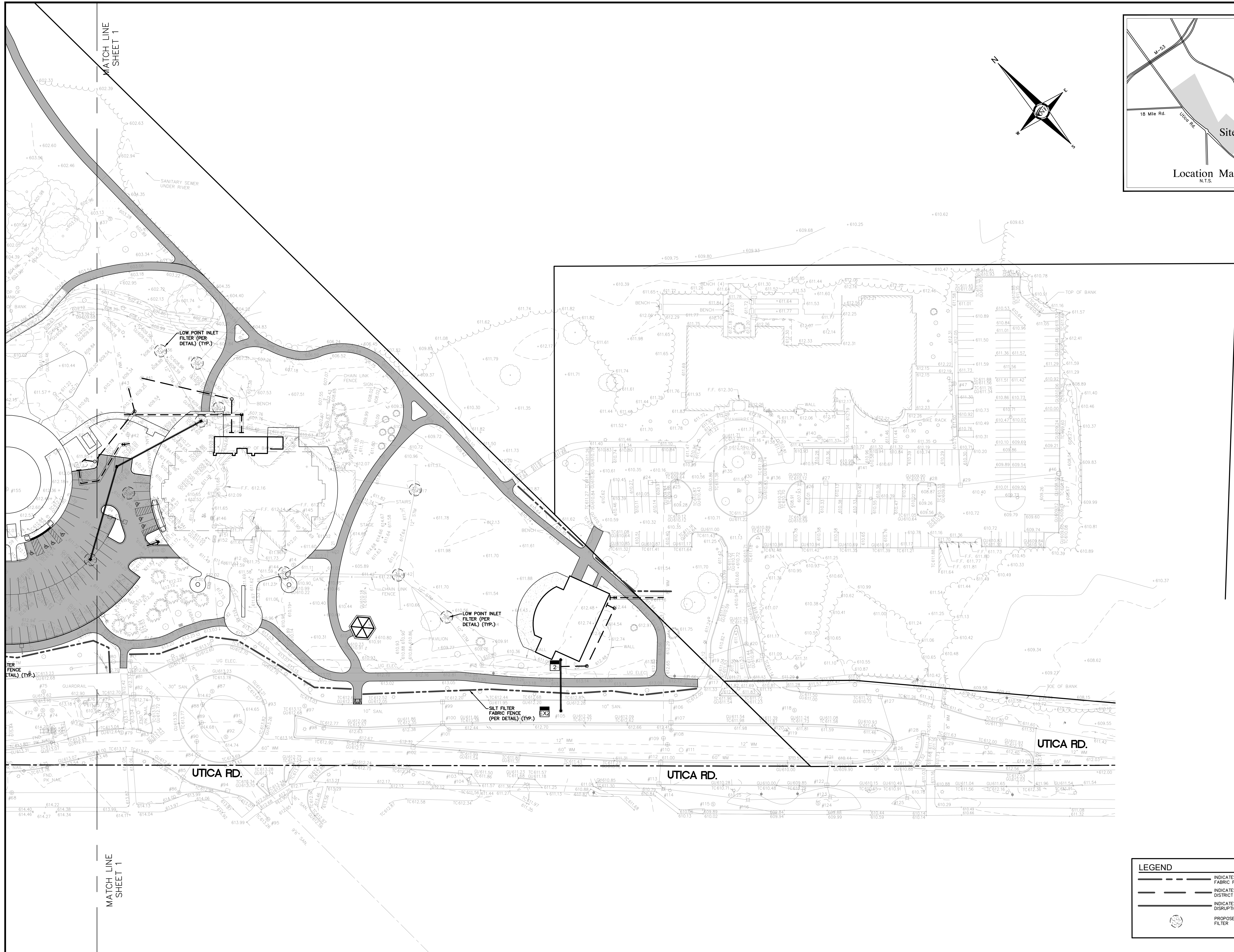
REVISIONS

NO.	DESCRIPTION
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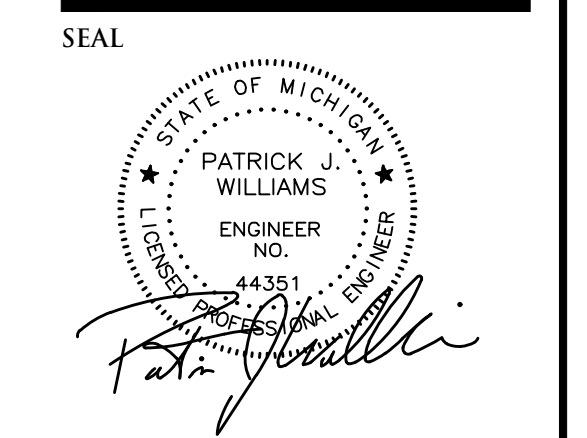
DRAWN BY:
A. Eizember
DESIGNED BY:
A. Eizember
APPROVED BY:
P. Williams

DATE:
June 14, 2017

SCALE: 1" = 50'
0 25 0 25 50 75



NOWAK & FRAUS ENGINEERS
 46777 WOODWARD AVE.
 PONTIAC, MI 48342-5032
 TEL. (248) 332-7931
 FAX. (248) 332-8257



PROJECT
 Dodge Park Improvements
 40200 & 40620 Utica

CLIENT
 Dorchon Martin Associates
 29895 Greenfield Road
 Suite 107
 Southfield, MI 48076

Contact: Sam Dorchon
 Ph: (248) 557-1062

PROJECT LOCATION
 Part of T. 2 North, R. 12 East
 City of Sterling Heights,
 Macomb County, Michigan

SHEET
 Soil Erosion Plan



REVISIONS

00-00-00	

LEGEND

	INDICATES LIMITS OF SILT FABRIC FENCE
	INDICATES LIMITS OF DRAINAGE DISTRICT AREA
	INDICATES LIMITS OF SOIL DISRUPTION
	PROPOSED LOW POINT INLET FILTER

DRAWN BY:
 A. Eizember

DESIGNED BY:
 A. Eizember

APPROVED BY:
 P. Williams

DATE:
 June 14, 2017

SCALE: 1" = 50'

NFE JOB NO. **J555** **SHEET NO.** **C-15**



GENERAL DEMOLITION NOTES

1. ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
3. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.
4. ALL DEMOLITION OF THE EXISTING MECHANICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONTROLS, SUPPORTS, HANGERS, AND EQUIPMENT SHALL BE UNDER SCOPE OF DIVISION 20 THRU 23 OF THE SPECIFICATIONS.
5. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED.

DEMOLITION SCHEDULED NOTES

- △ REMOVE HOSE BIBS AND ASSOCIATED UNDERGROUND PIPING.



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Phone 248.399.1900 Fax 248.399.1901
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SES Project # 17 0454 01



Issue / revision date	Owner Review
5-09-17	Owner Review
6-06-17	Coordination
6-16-17	Bids

drawn by	checked by
RHM	JDK

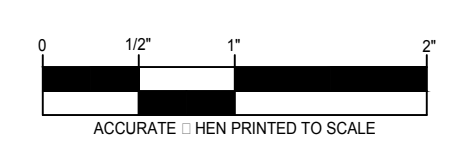
City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
project

MECHANICAL SITE
DEMOLITION PLAN
sheet title

Dorchen/Martin Associates, Inc.
Architects/Planners
29895 Greenfield Rd., Suite 107
Southfield, Michigan 48076
(248) 557-1062
Fax: (248) 557-1231

job no.	sheet no.
16078A	MDO.1

MECHANICAL SITE DEMOLITION PLAN
SCALE: #####



Drawing: S:\17 0454 01 Sterling Heights Parks & Rec\CAD\Mech\17 0454 01_MDO.1.dwg
Date: Jun 16, 2017, 8:18am
Layout: MDO.1
Plotted by: psh

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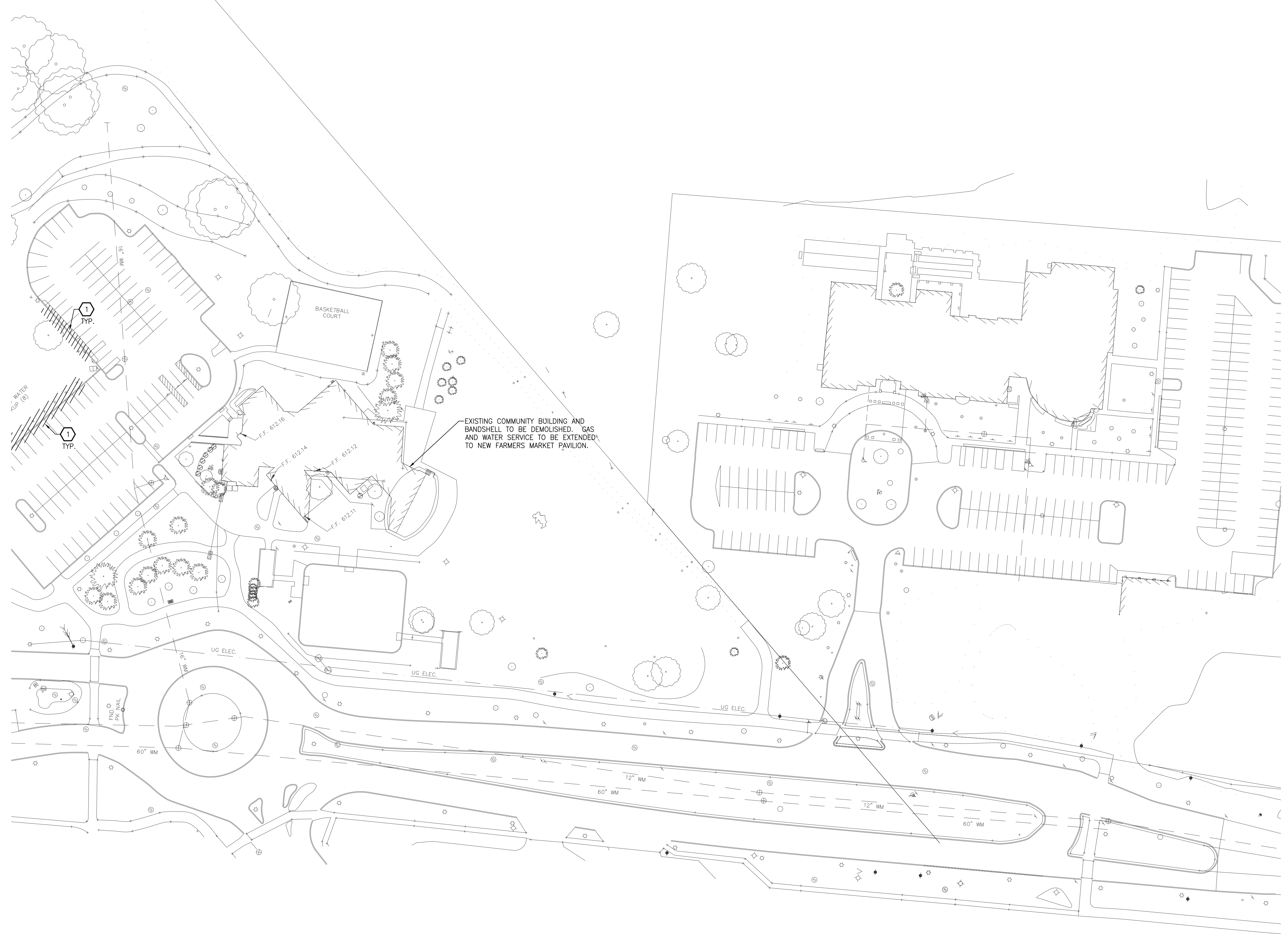
drawn by	checked by
RJM	JDK

City of Sterling Heights
 Dodge Park Improvements
 Sterling Heights, Michigan
 project

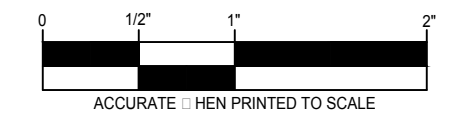
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job no.	sheet no.
16078A	MD0.2



MECHANICAL SITE DEMOLITION PLAN
 SCALE: 1"=50' ISES



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Issue / revision date	Owner Review
5-09-17	Owner Review
6-06-17	Coordination
6-16-17	Bids

drawn by	checked by
RHM	JDK

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan

MECHANICAL SITE
NEW WORK PLAN

project sheet title

Dorchen/Martin Associates, Inc.
Architects/Planners
29895 Greenfield Rd., Suite 107
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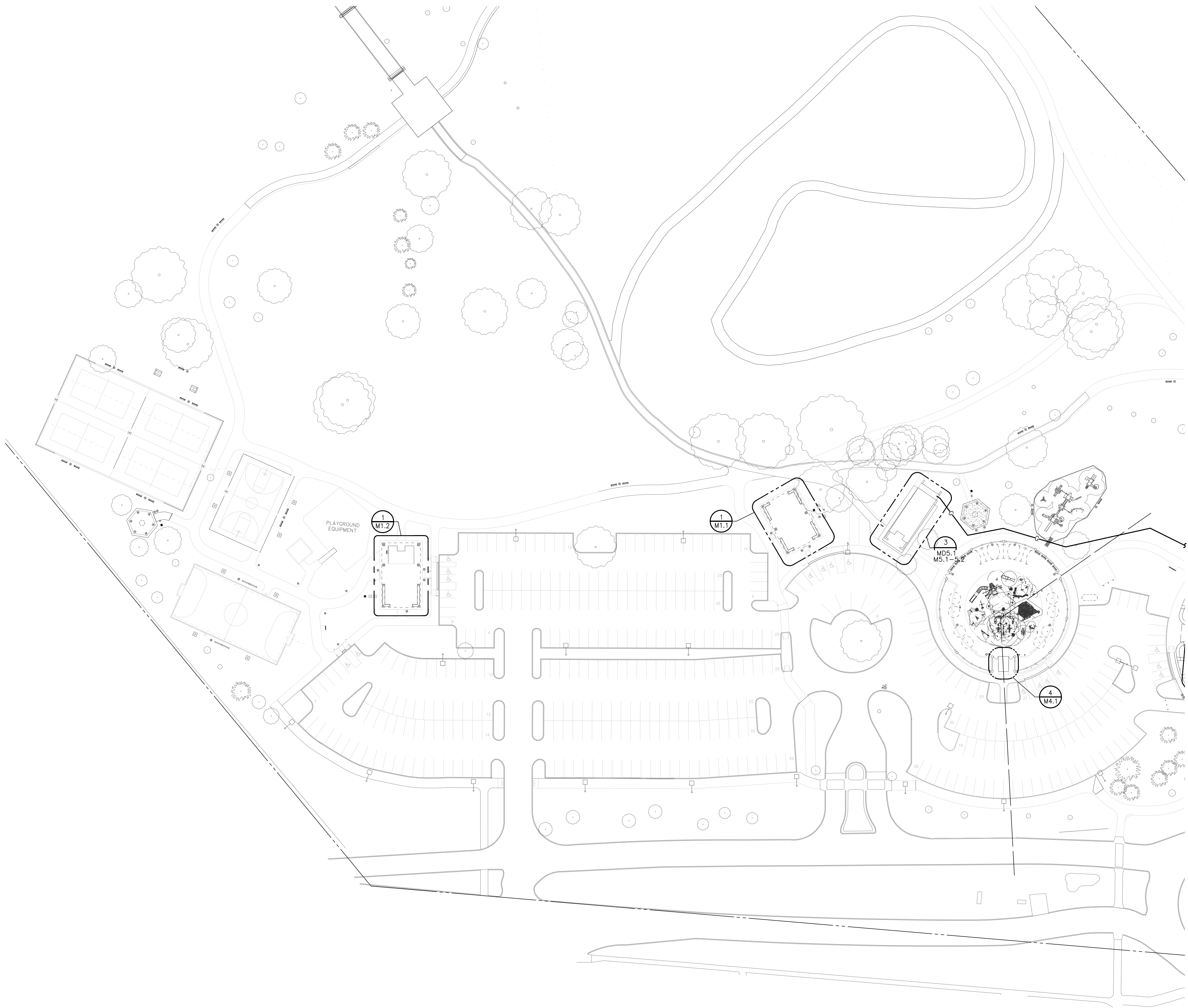
job no.	sheet no.
16078A	MO.1

MECHANICAL GENERAL NOTES

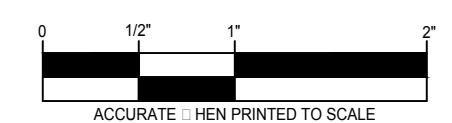
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2. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3. DUCTWORK/PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
5. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS ETC. WITH ARCHITECTURAL TRADES.
6. 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, ACCESSORIES, AND ADDITIONAL INFORMATION.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
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10. HOT AND COLD WATER PIPING RUN-OUTS TO LAVS AND SINKS SHALL BE 3/4" UNLESS NOTED OTHERWISE. REFER TO PLUMBING FIXTURE SCHEDULE FOR 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.
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12. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS, VALVES, AND 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. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES.
13. FOR EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT, REFER TO PIPING DIAGRAMS AND DETAILS.
14. BRANCH DUCTWORK TO GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME SIZE AS THE GRILLE, REGISTER OR DIFFUSER NECK SIZE WHERE NO DUCT SIZE IS INDICATED ON PLAN.
15. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0".

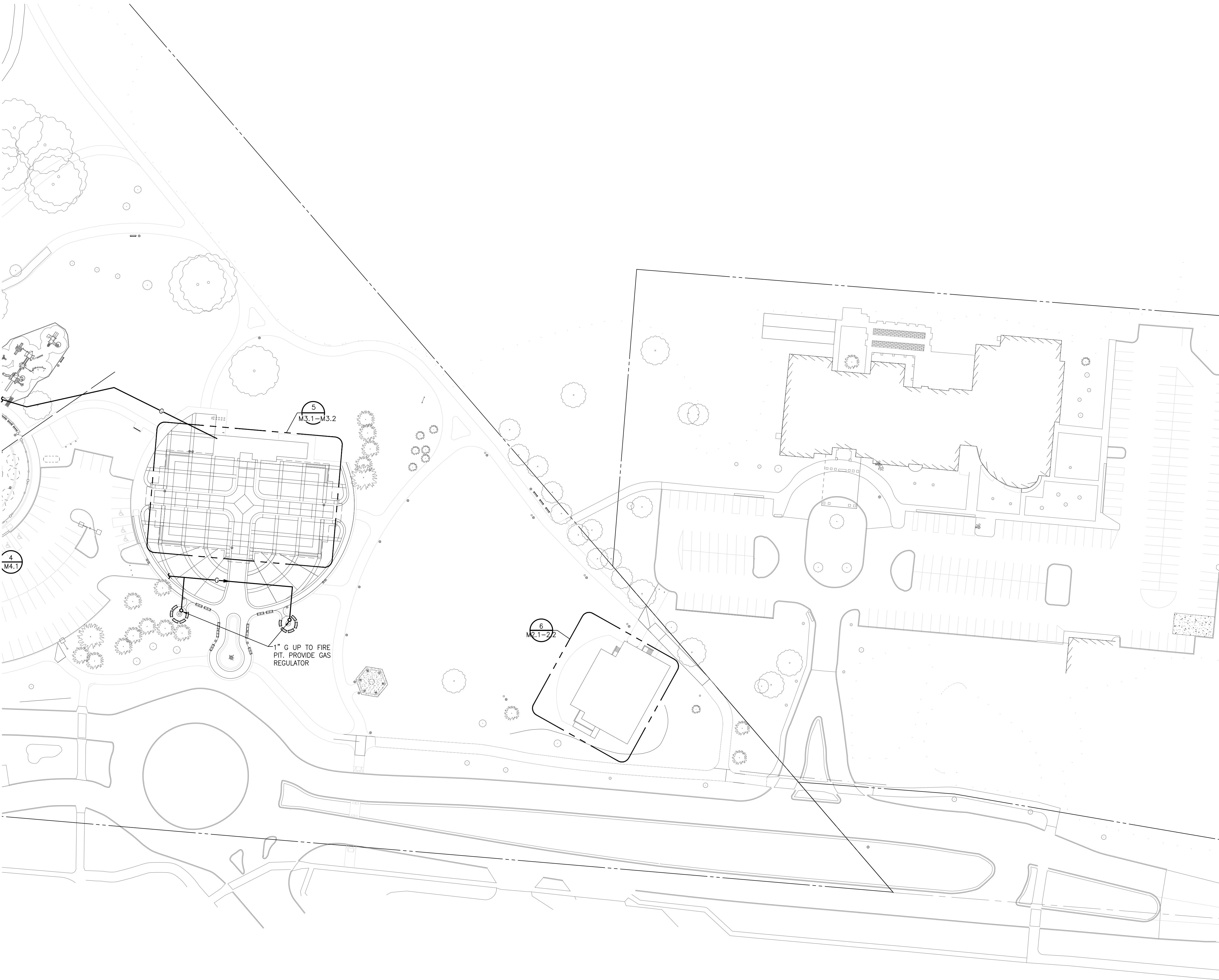
DELETED NOTES

- 1 XXX.
- XXX.



MECHANICAL SITE NE OR PLAN
SCALE: 1"=50' ISES





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REVISION NOTES

- ① XXX.
- XXX.

MECHANICAL SITE NETWORK PLAN
SCALE: 1"=50' ISES



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Issue / revision date	Owner Review
5-09-17	Owner Review
6-06-17	Coordination
6-16-17	Bids

drawn by	checked by
RHM	JDK

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan

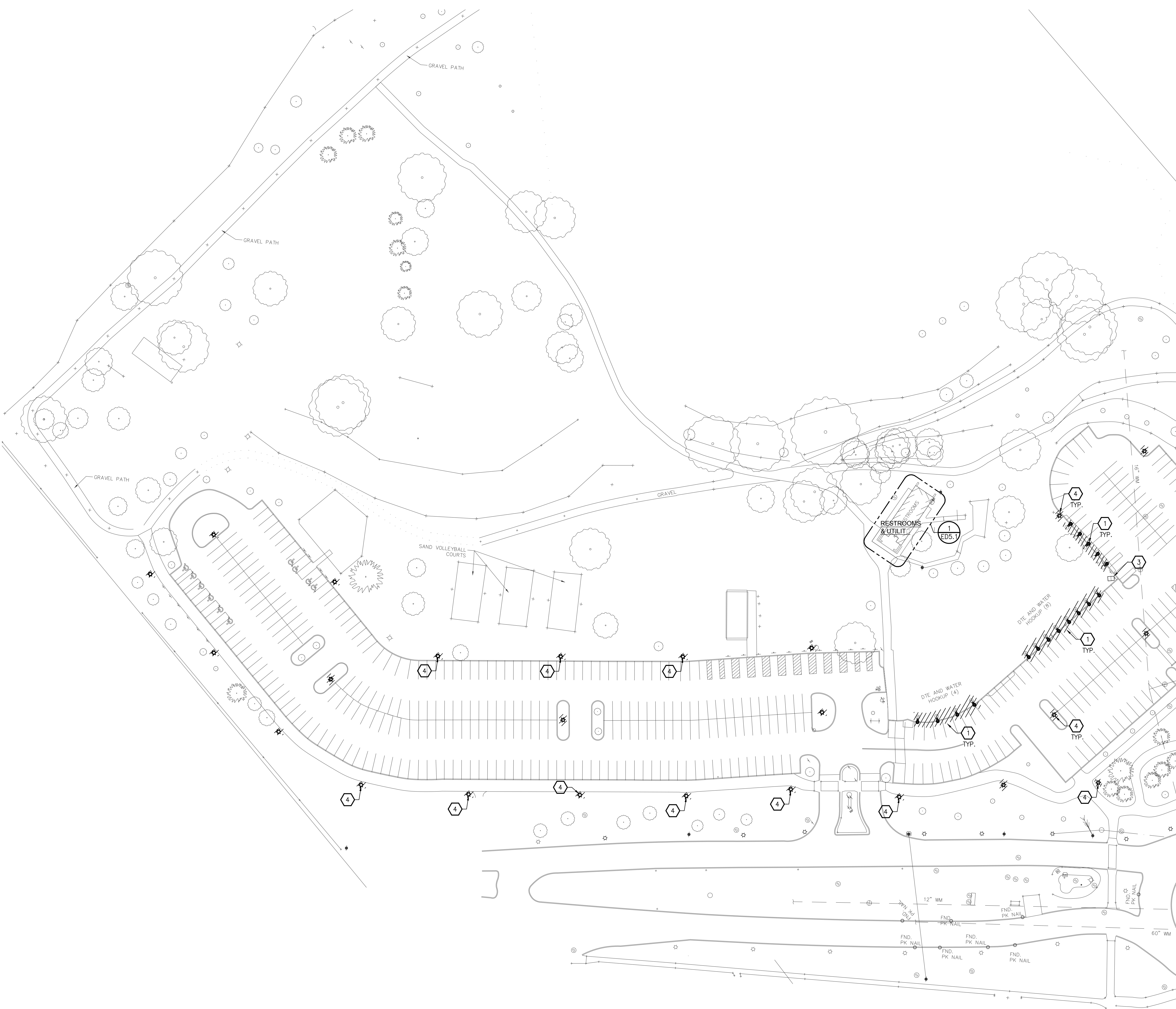
**MECHANICAL SITE
NEW WORK PLAN**

project sheet title

DM
Dorchen/Martin Associates, Inc.
Architects/Planners
29895 Greenfield Rd., Suite 107
Southfield, Michigan 48076
(248) 557-1062
Fax: (248) 557-1231

job no.	sheet no.
16078A	MO.2

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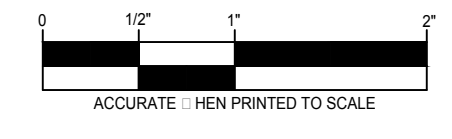
ELECTRICAL GENERAL NOTES

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4. WHERE MORE THEN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
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FIELD NOTES

- 1 REMOVE POWER RECEPTACLE BOXES, CONDUIT, WIRING, AND CONTROLS BACK TO SOURCE.
- 2 REMOVE ELECTRICAL POST, CONDUIT, WIRING, AND CONTROLS BACK TO SOURCE.
- 3 REMOVE EXISTING PANEL. REMOVE ELECTRICAL CONDUIT, WIRING, AND CONTROLS TO AREAS BEING FED FROM PANEL.
- 4 EXISTING LIGHT POLE TO BE REPLACED WITH NEW FIXTURE.

ELECTRICAL SITE DEMOLITION PLAN
SCALE: 1"=50'



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drawn by	checked by
CEM	PDH

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
project
sheet title
ELECTRICAL SITE DEMOLITION PLAN
sheet title

Dorchen/Martin Associates, Inc.
Architects/Planners
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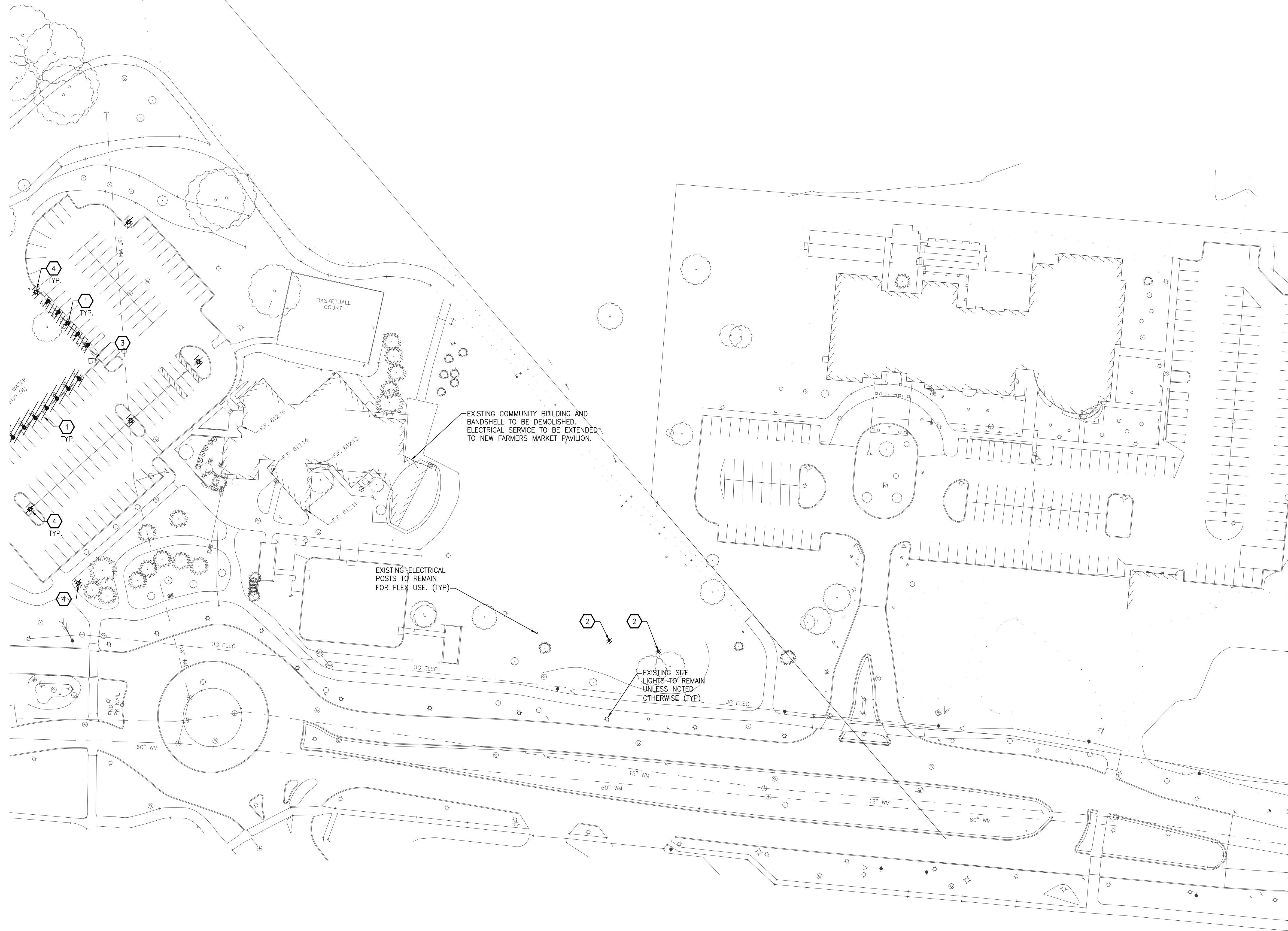
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CEM	PDH

City of Sterling Heights
 Dodge Park Improvements
 Sterling Heights, Michigan
ELECTRICAL SITE DEMOLITION PLAN
 project sheet title

DM
 Dorchen/Martin Associates, Inc.
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job no.	sheet no.
16078A	ED0.2

ELECTRICAL SITE DEMOLITION PLAN
 SCALE: 1"=50'



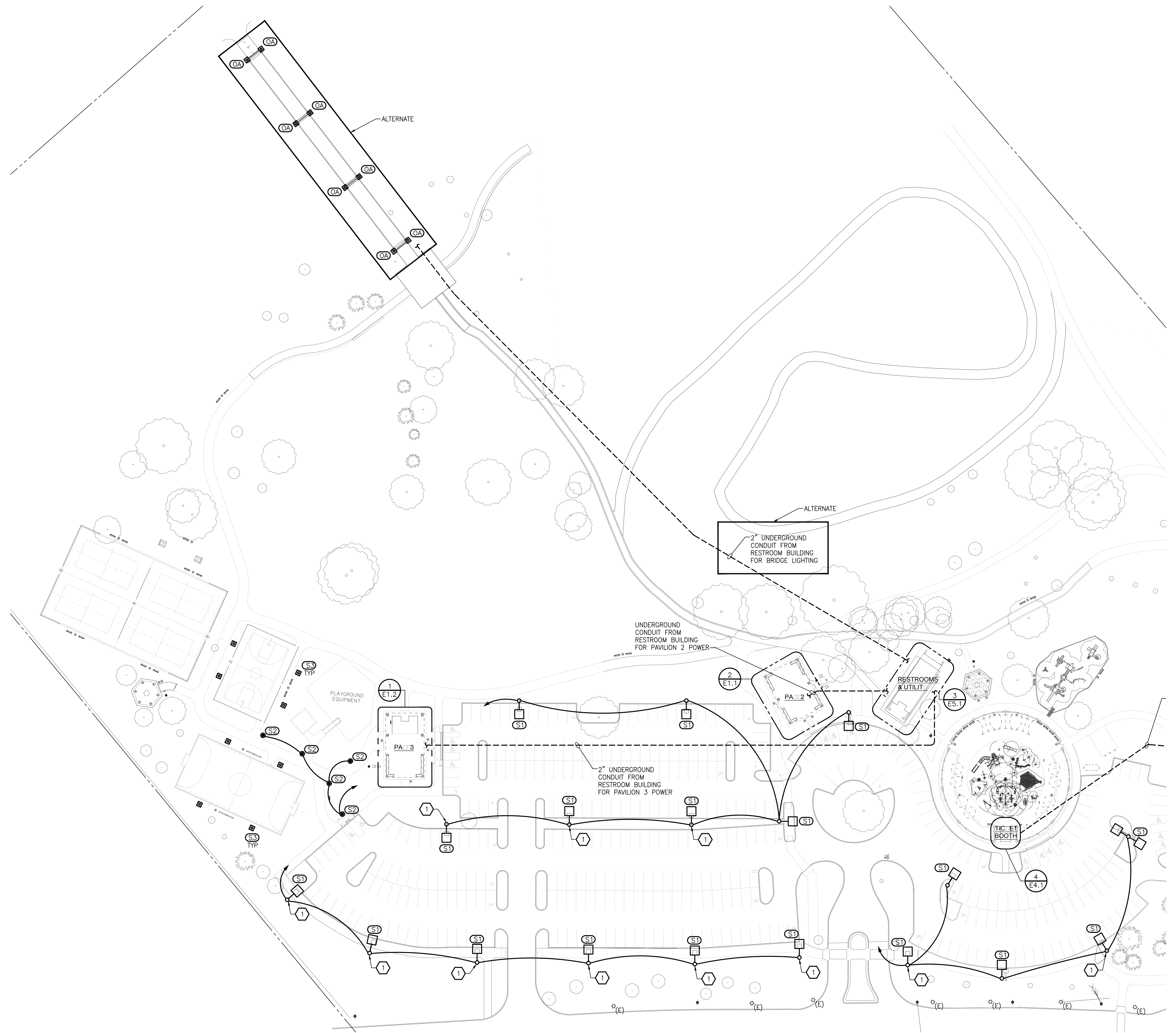


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FIELD NOTES

- NEW LIGHT POLE IN EXISTING LIGHT LOCATION.



ELECTRICAL SITE NETWORK OR PLAN
SCALE: 1"=50'



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drawn by	checked by
CEM	PDH

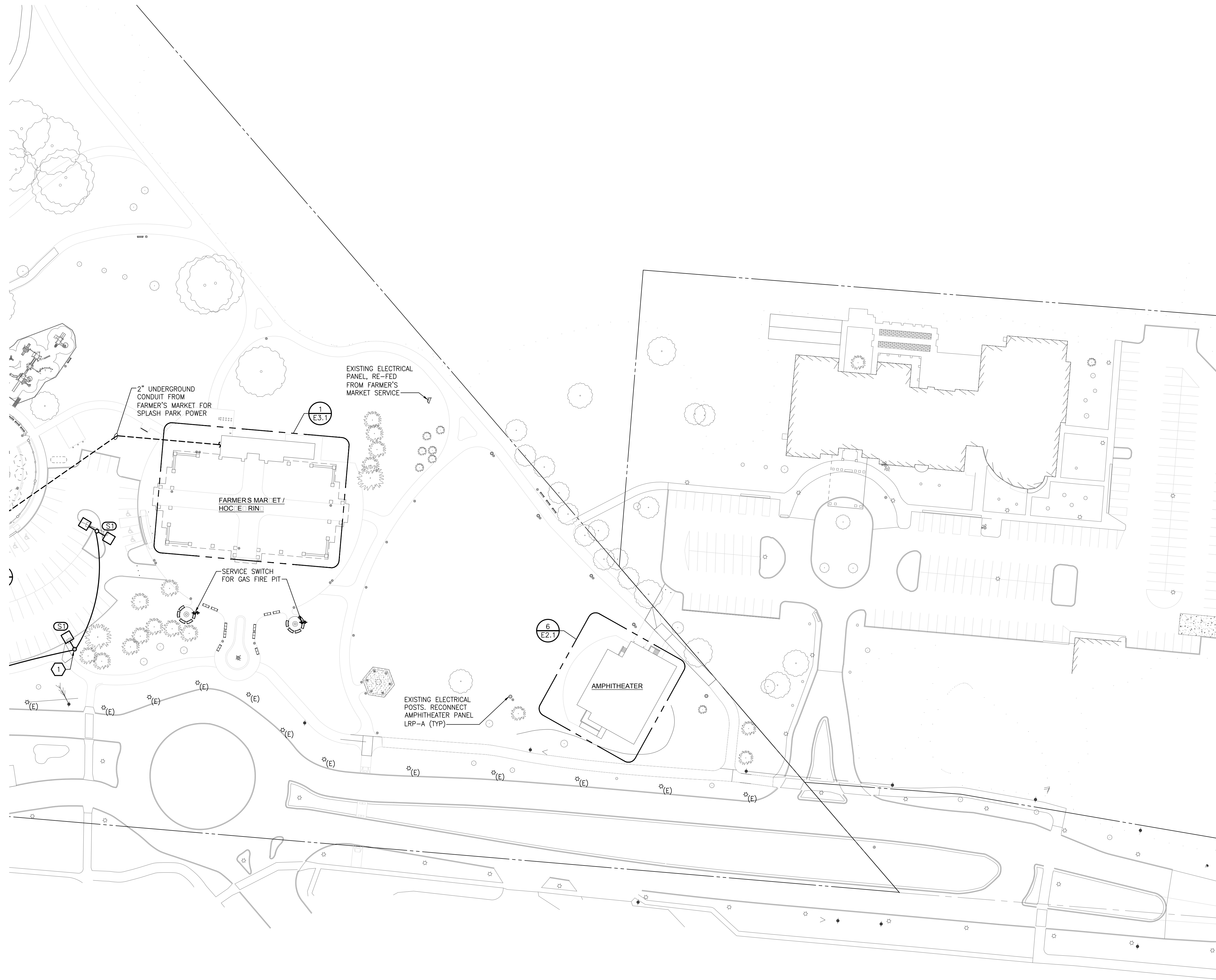
City of Sterling Heights
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Sterling Heights, Michigan
project

ELECTRICAL SITE NEW
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16078A	E0.1

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Date: Jun 16, 2017, 9:22am Layout: E0.1 Plotted by: pph



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 OF DEVICES.
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 WIRE.
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.

FIELD NOTES

- ① NEW LIGHT POLE IN EXISTING LIGHT LOCATION.

ELECTRICAL SITE NETWORK PLAN
SCALE: 1"=50'



Issue / revision date	Owner Review
5-09-17	Owner Review
6-06-17	Coordination
6-16-17	Bids

drawn by	checked by
CEM	PDH

City of Sterling Heights
Dodge Park Improvements
Sterling Heights, Michigan
project

ELECTRICAL SITE NEW
WORK PLAN
sheet title

Drawing: S:\17 0454 01 Sterling Heights Parks & Rec\CAD\Elec\17 0454 01_E001.dwg
Date: Jun 16, 2017, 9:22am Layout: E0.2 Plotted by: pph



project location:

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:
overall landscape planting view

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

drawn by:
KM
 checked by:
FP
 date:
5-12-2017

notice:
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project no:
LS17.011.05

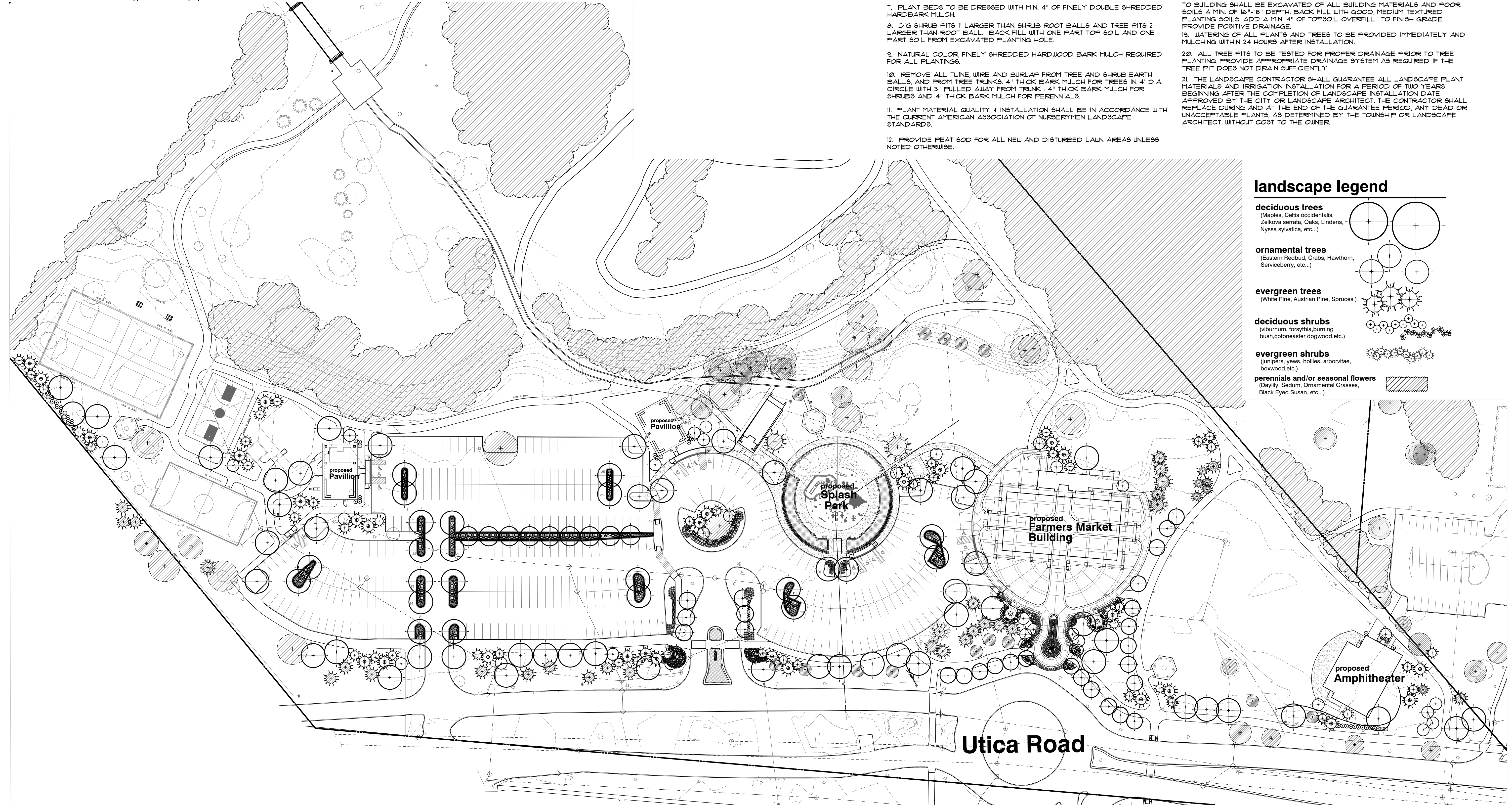
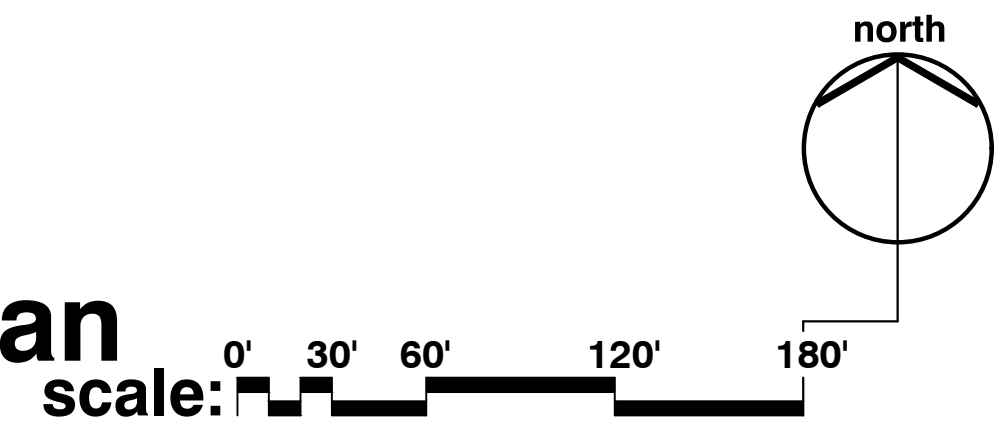
sheet no:
LS-1 of 5

general landscape notes:

1. LANDSCAPE CONTRACTOR SHALL VISIT THE SITE, INSPECT EXISTING CONDITIONS, REVIEW PROPOSED PLANTINGS AND RELATED WORK, CONTACT THE OWNER AND/OR LANDSCAPE ARCHITECT WITH ANY CONCERNS OR DISCREPANCY BETWEEN THE PLAN, PLANT MATERIAL LIST, AND/OR SITE CONDITIONS.
2. PRIOR TO BEGINNING OF CONSTRUCTION ON ANY WORK, CONTRACTORS SHALL VERIFY LOCATIONS OF ALL ON SITE UTILITIES, GAS, ELECTRIC, TELEPHONE, CABLE TO BE LOCATED BY CONTACTING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE ALL RELATED WORK ACTIVITIES WITH OTHER TRADES AND REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER PRIOR TO COMMENCING.
3. NUMERICAL VALUE ON THE LANDSCAPE QUANTITIES SPECIFIED ON THE PLAN TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION. VERIFY ANY CONCERN-DISCREPANCY WITH LANDSCAPE ARCHITECT.
4. ALL CONSTRUCTION AND PLANT MATERIAL LOCATION TO BE ADJUSTED ON SITE IF NECESSARY.
5. ALL SUBSTITUTIONS OR DEVIATIONS FROM THE LANDSCAPE PLAN MUST BE APPROVED BY STERLING HEIGHTS AND LANDSCAPE ARCHITECT.
6. ALL LARGE TREES AND EVERGREENS TO BE STAKED, GUYED AND WRAPPED AS DETAIL SHOWN ON PLAN.
7. PLANT BEDS TO BE DRESSED WITH MIN. 4" OF FINELY DOUBLE SHREDDED HARDBARK MULCH.
8. DIG SHRUB PITS 1' LARGER THAN SHRUB ROOT BALLS AND TREE PITS 2' LARGER THAN ROOT BALL. BACK FILL WITH ONE PART TOP SOIL AND ONE PART SOIL FROM EXCAVATED PLANTING HOLE.
9. NATURAL COLOR FINELY SHREDDED HARDWOOD BARK MULCH REQUIRED FOR ALL PLANTINGS.
10. REMOVE ALL TWINE, WIRE AND BURLAP FROM TREE AND SHRUB EARTH BALLS, AND FROM TREE TRUNKS. 4" THICK BARK MULCH FOR TREES IN 4" DIA. CIRCLE WITH 3" PULLED AWAY FROM TRUNK. 4" THICK BARK MULCH FOR SHRUBS AND 4" THICK BARK MULCH FOR PERENNIALS.
11. PLANT MATERIAL QUALITY & INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT AMERICAN ASSOCIATION OF NURSEYMEN LANDSCAPE STANDARDS.
12. PROVIDE PEAT 60D FOR ALL NEW AND DISTURBED LAWN AREAS UNLESS NOTED OTHERWISE.
13. ALL PLANTING AREAS TO BE PREPARED WITH APPROPRIATE SOIL MIXTURES AND FERTILIZER BEFORE PLANT INSTALLATION.
14. PLANT TREES AND SHRUBS GENERALLY NO CLOSER THEN THE FOLLOWING DISTANCES FROM SIDEWALKS, CURBS AND PARKING STALLS:
 - a) SHADE TREES _____ 5 FT.
 - b) ORNAMENTAL AND EVERGREEN TREES (CRAB, PINE, SPRUCE, ETC.) _____ 10 FT.
 - c) SHRUBS THAT ARE LESS THAN 1 FOOT TALL AND WIDE AT MATURITY _____ 2 FT.
15. NO TREES OR EVERGREENS TO BE INSTALLED OVER ANY PROPOSED OR EXISTING UTILITY LINES AS SHOWN ON THE OVERALL LANDSCAPE PLAN. SEE ENGINEERING PLANS FOR LOCATION AND DETAILS.
16. ALL LAWN AREAS AND LANDSCAPE BEDS TO BE FULLY IRRIGATED WITH A AUTOMATIC UNDERGROUND SYSTEMS. IRRIGATION SYSTEM TO HAVE SEPARATE ZONES FOR LAWN AREAS, PARKING ISLANDS, AND SHRUB BEDS WITH DIFFERENT CONTROL MOISTURE LEVEL ADJUSTMENT PER ZONE AS REQUIRED.
17. UNLESS NOTED OTHERWISE, LANDSCAPE BEDS ADJACENT TO LAWN TO RECEIVE EDGING. EDGING SHALL BE 4" X 1/8" METAL (FINISH BLACK OR GREEN) OR APPROVED EQUAL AND TO BE INSTALLED WITH HORIZONTAL METAL STAKES AT 32" O.C. OR PER MANUFACTURER'S SPECIFICATION.
18. ALL NEW PARKING ISLANDS AND LANDSCAPE BEDS ADJACENT AND NEXT TO BUILDING SHALL BE EXCAVATED OF ALL BUILDING MATERIALS AND POOR SOILS A MIN. OF 16"-18" DEPTH. BACK FILL WITH GOOD, MEDIUM TEXTURED PLANTING SOILS. ADD MIN. 4" OF TOPSOIL OVERFILL TO FINISH GRADE. PROVIDE POSITIVE DRAINAGE.
19. WATERING OF ALL PLANTS AND TREES TO BE PROVIDED IMMEDIATELY AND MULCHING WITHIN 24 HOURS AFTER INSTALLATION.
20. ALL TREE PITS TO BE TESTED FOR PROPER DRAINAGE PRIOR TO TREE PLANTING. PROVIDE APPROPRIATE DRAINAGE SYSTEM AS REQUIRED IF THE TREE PIT DOES NOT DRAIN SUFFICIENTLY.
21. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE PLANT MATERIALS AND IRRIGATION INSTALLATION FOR A PERIOD OF TWO YEARS BEGINNING AFTER THE COMPLETION OF LANDSCAPE INSTALLATION DATE APPROVED BY THE CITY OR LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL REPLACE DURING AND AT THE END OF THE GUARANTEE PERIOD, ANY DEAD OR UNACCEPTABLE PLANTS, AS DETERMINED BY THE TOWNSHIP OR LANDSCAPE ARCHITECT, WITHOUT COST TO THE OWNER.

landscape plan for:
"Dodge Park"
 City of Sterling Heights, Michigan

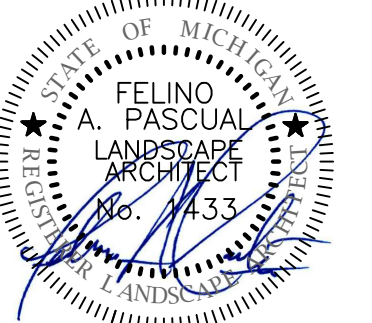
note
 preliminary concept plan for inspection purposes only and in no way a construction document or approved for record purposes.



landscape legend

- deciduous trees**
 (Maples, Celtis occidentalis, Zelkova serrata, Oaks, Lindens, Nyssa sylvatica, etc...)
- ornamental trees**
 (Eastern Redbud, Crabs, Hawthorn, Serviceberry, etc...)
- evergreen trees**
 (White Pine, Austrian Pine, Spruces)
- deciduous shrubs**
 (viburnum, forsythia, burning bush, cotoneaster dogwood, etc.)
- evergreen shrubs**
 (Junipers, yews, hollies, arborvitae, boxwood, etc.)
- perennials and/or seasonal flowers**
 (Daylily, Sedum, Ornamental Grasses, Black Eyed Susan, etc...)

seal:



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

drawn by:

KM

checked by:

FP

date:

5-12-2017

notice:

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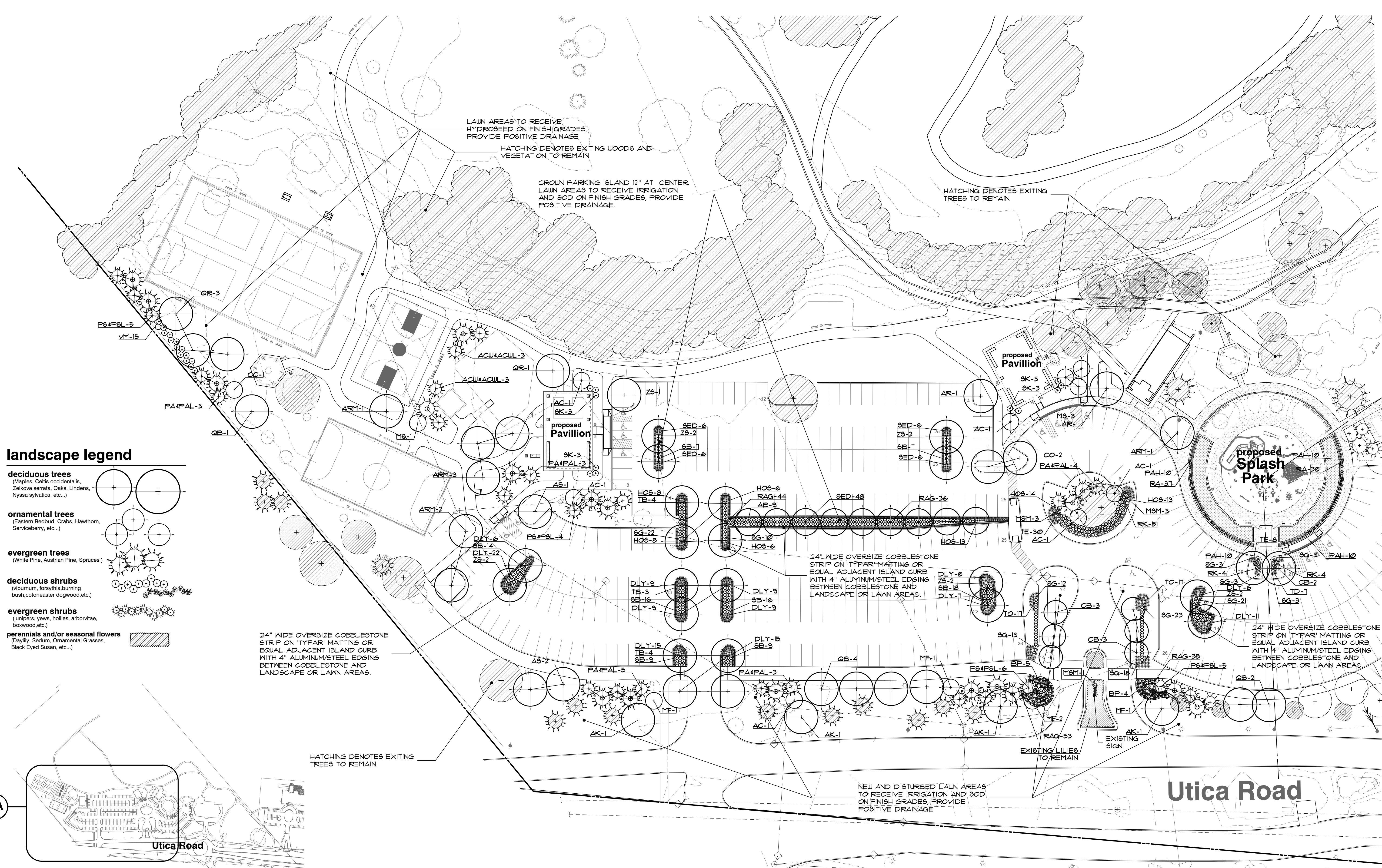
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project no.:

LS17.011.05

sheet no.:

LS-2 of 5



landscape legend

- deciduous trees**
 (Maples, Celtis occidentalis, Zelkova serrata, Oaks, Lindens, Nyssa sylvatica, etc...)
- ornamental trees**
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 (Daylily, Sedum, Ornamental Grasses, Black Eyed Susan, etc...)

24" WIDE OVERSIZE COBBLESTONE STRIP ON TYFAR MATTING OR EQUAL ADJACENT ISLAND CURB WITH 4" ALUMINUM/STEEL EDGING BETWEEN COBBLESTONE AND LANDSCAPE OR LAWN AREAS.

24" WIDE OVERSIZE COBBLESTONE STRIP ON TYFAR MATTING OR EQUAL ADJACENT ISLAND CURB WITH 4" ALUMINUM/STEEL EDGING BETWEEN COBBLESTONE AND LANDSCAPE OR LAWN AREAS.

24" WIDE OVERSIZE COBBLESTONE STRIP ON TYFAR MATTING OR EQUAL ADJACENT ISLAND CURB WITH 4" ALUMINUM/STEEL EDGING BETWEEN COBBLESTONE AND LANDSCAPE OR LAWN AREAS.

2A

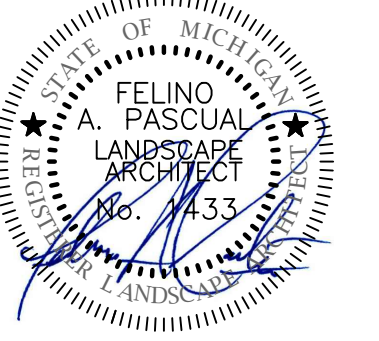
location map

NO SCALE

2A landscape planting detail

SCALE: 1"=30'-0"

seal:



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**

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 LS17.011.05 CITY 6-17-2017

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project no.:

LS17.011.05

sheet no.:

LS-3 of 5

LAWN AREAS TO RECEIVE HYDROSEED
 ON FINISH GRADES, PROVIDE POSITIVE
 DRAINAGE

HATCHING DENOTES EXISTING
 TREES TO REMAIN

NEW AND DISTURBED LAWN AREAS
 TO RECEIVE IRRIGATION AND SOD
 ON FINISH GRADES, PROVIDE
 POSITIVE DRAINAGE

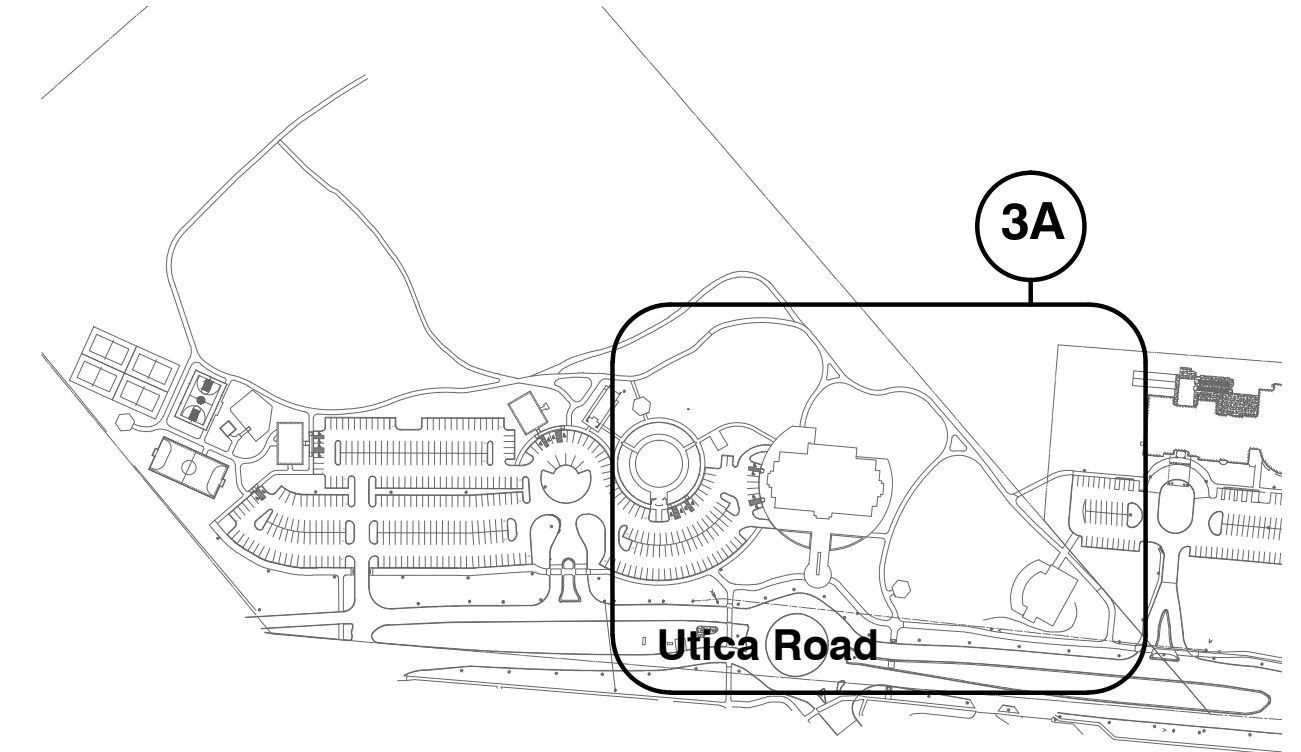
LAWN AREAS TO RECEIVE HYDROSEED
 ON FINISH GRADES, PROVIDE POSITIVE
 DRAINAGE

HATCHING DENOTES EXISTING WOODS AND
 VEGETATION TO REMAIN

NEW AND DISTURBED LAWN AREAS
 TO RECEIVE IRRIGATION AND SOD
 ON FINISH GRADES, PROVIDE
 POSITIVE DRAINAGE

HATCHING DENOTES EXISTING
 TREES TO REMAIN

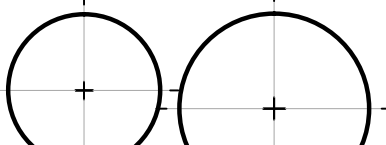
location map



landscape legend

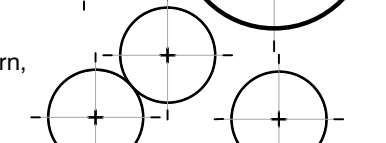
deciduous trees

(Maples, Celtis occidentalis,
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 Nyssa sylvatica, etc.)



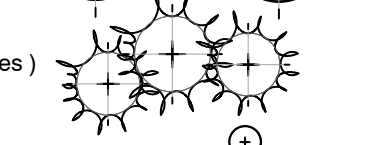
ornamental trees

(Eastern Redbud, Crabs, Hawthorn,
 Serviceberry, etc.)



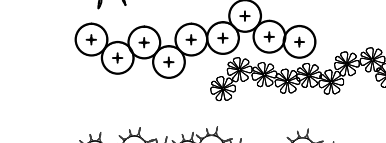
evergreen trees

(White Pine, Austrian Pine, Spruces)



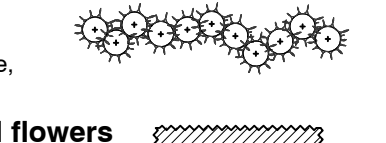
deciduous shrubs

(viburnum, forsythia, burning
 bush, cotoneaster, dogwood, etc.)



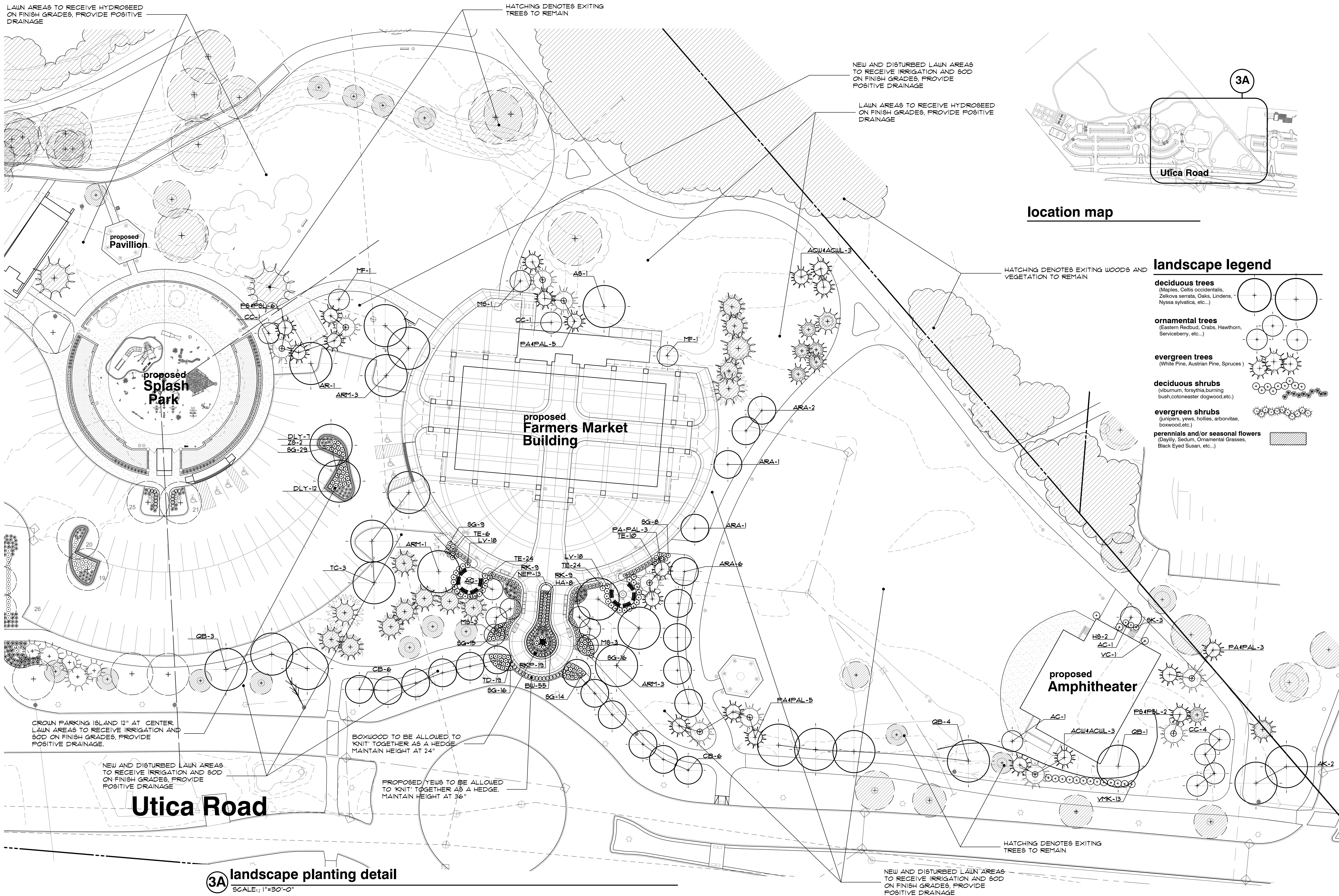
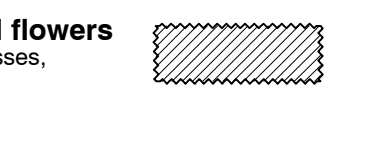
evergreen shrubs

(junipers, yews, hollies, arborvitae,
 boxwood, etc.)



perennials and/or seasonal flowers

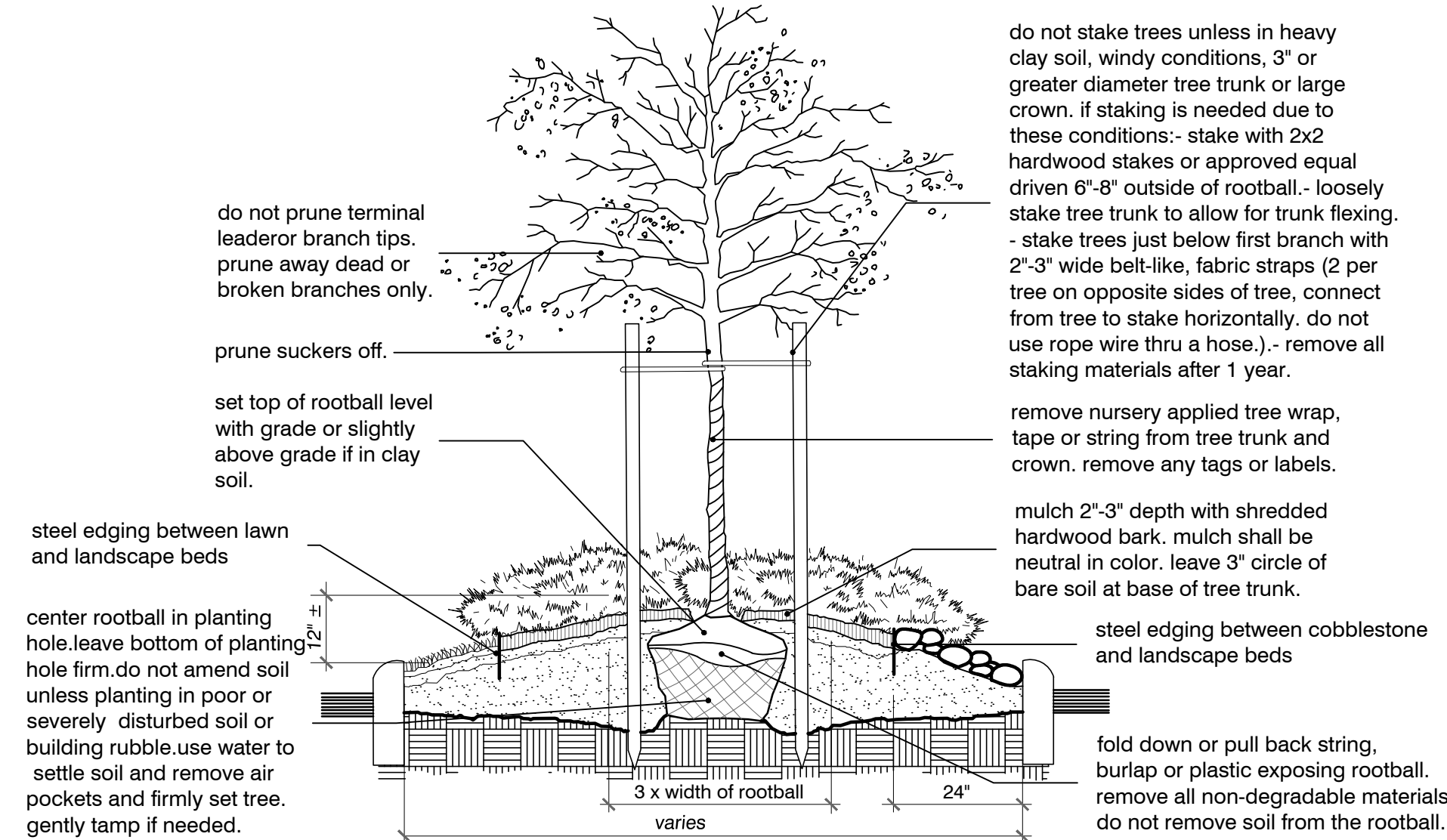
(Daylily, Sedum, Ornamental Grasses,
 Black Eyed Susan, etc.)



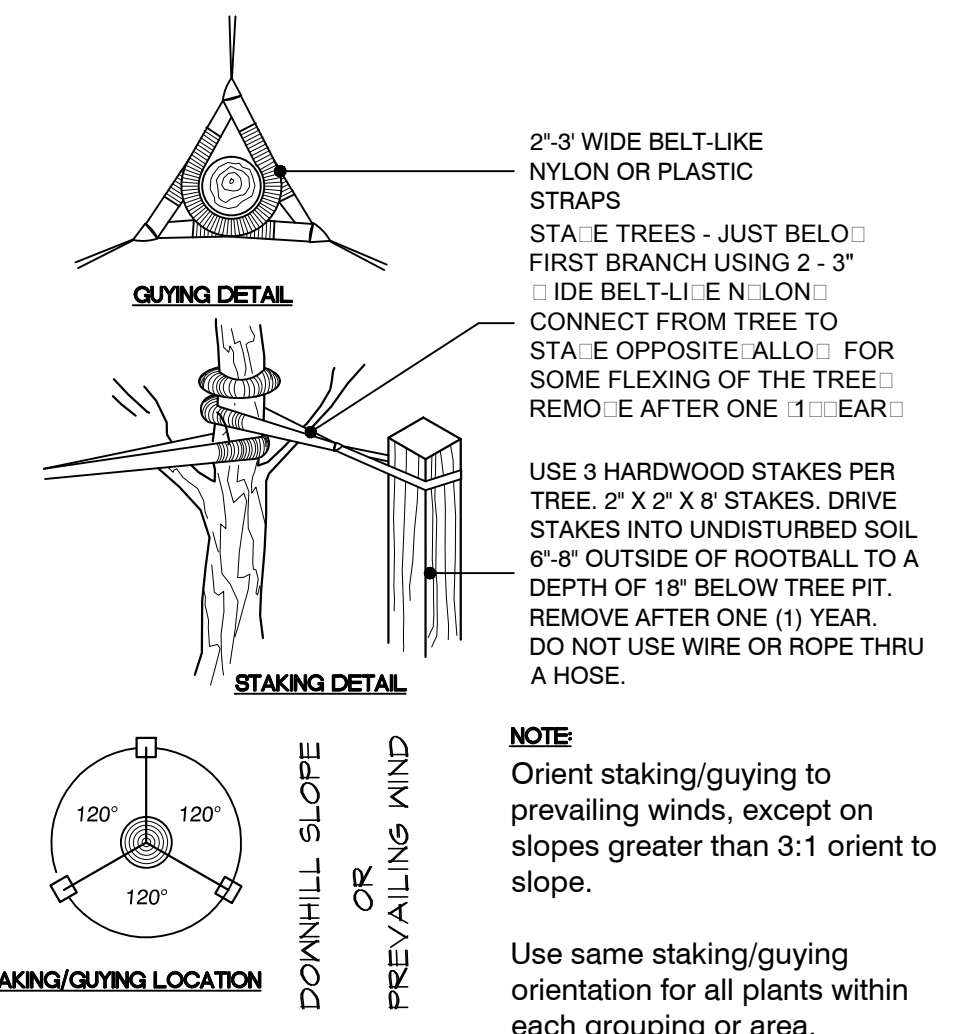
3A landscape planting detail
 SCALE: 1"=30'-0"

plant material list

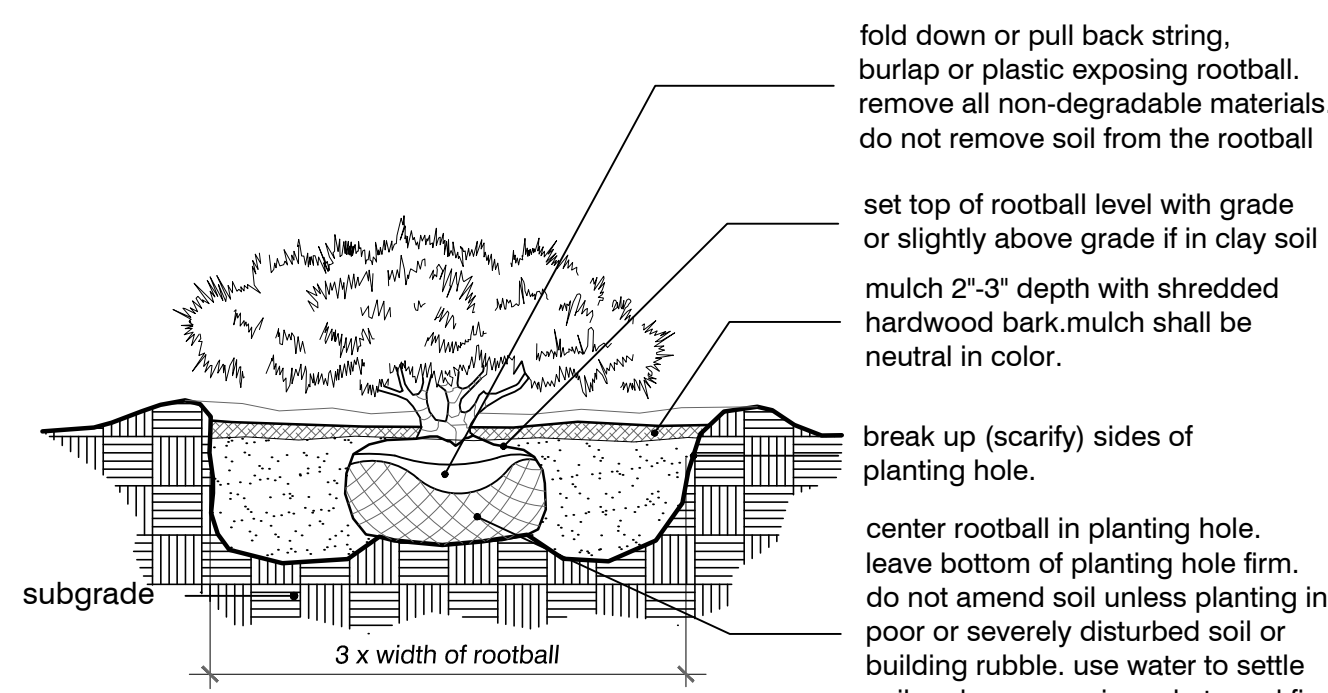
key	plant	plant	botanical name	common name	size	comments
LARGE AND SMALL DECIDUOUS TREES						
AS	3	1	ACER S. 'MAJESTY'	MAJESTY SUGAR MAPLE	3" BB	
AK	4	2	ACER F. 'CRIMSON KING'	CRIMSON KING NORWAY MAPLE	3" BB	
AR	2	1	ACER RUBRUM	RED MAPLE	3" BB	
ARM	1	1	ACER RUBRUM	RED MAPLE	3" BB	(MULTI-STEM)
ARA	-	10	ACER R. 'ARMSTRONG'	ARMSTRONG RED MAPLE	3" BB	
TB	11	-	TILIA CORDATA 'BOULEVARD'	BOULEVARD LINDEN	3" BB	
TC	-	3	TILIA CORDATA	LITTLELEAF LINDEN	3" BB	
QR	4	-	QUERCUS RUBRA	RED OAK	3" BB	
QB	1	8	QUERCUS BICOLOR	SWAMP WHITE OAK	3" BB	
LT	-	-	LIRIODENDRON TULIPIFERA	TULIPTREE	3" BB	
CB	8	12	CARPINUS BETULUS 'FASTIGIATA'	PYRAMIDAL EUROPEAN HORNBEAN	3" BB	
LB	-	-	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM	3" BB	
ZS	11	2	ZELKOYA BERRATA	JAPANESE ZELKOYA	3" BB	
CO	2	-	CELTIS OCCIDENTALIS	HACKBERRY	3" BB	
CC	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	
M8	4	1	MALUS SARGENTII	SNOWDRIFT CRABAPPLE	2" BB	
SHRUBS						
SK	12	3	SYRINGA PATULA 'MISS KIM'	MISS KIM DWARF LILAC	3" BB	
RKP	-	18	ROSA X. 'PINK KN'	PINK KNOCK-OUT ROSEA	5" CONT.	
RK	8	18	ROSA X. 'OSAEASY DOUBLE RED'	OSAEASY DOUBLE RED ROSEA	5" CONT.	
HA	-	8	HYDRANGEA A. 'ANNABELLE'	ANNABELLE HYDRANGEA	5" CONT.	
FI	-	-	FORSYTHIA X. 'INTERMEDIA'	BORDER FORSYTHIA	5" CONT.	
RA	15	-	RIBES ALPNUM	ALPINE CURRANT	5" CONT.	
VC	-	1	VIBURNUM CARLESII	KOREANSPICE VIBURNUM	3 1/2" BB	42" O.C. SPACING
VM	15	-	VIBURNUM F.T. 'MARIESII'	MARIESII DOUBLEFILE VIBURNUM	3 1/2" BB	
VMK	-	13	VIBURNUM X.B. 'MOHAUK'	MOHAUK VIBURNUM	3 1/2" BB	
SG	131	107	SPIRAEA X.B. 'BUMALDA' 'GOLDFLAME'	GOLDFLAME SPIRAEA	5" CONT.	
H5	-	2	HIBISCUS S. 'APHRODITE'	APHRODITE ALTHEA	5" CONT.	
RAG	16	-	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	5" CONT.	
BP	9	-	BERBERIS T. 'ROSE GLOW'	ROSE GLOW BARBERRY	5" CONT.	
LV	-	36	LIGUSTRUM X. 'VICARYI'	VICARYI PRIVET	5" CONT.	
LARGE AND SMALL EVERGREENS						
BW	-	55	BUXUS 'GREEN VELVET'	GREEN VELVET BOXWOOD	18" BB	24" O.C. SPACING
TD	1	18	TAXUS XM. 'DENSIFORMIS'	DENSIFORMIS YEW	24"-30" BB	24" O.C. SPACING
TE	38	64	TAXUS XM. 'EVERLOW'	EVERLOW YEW	24"-30" BB	32" O.C. SPACING
TO	34	-	THUJA OCCIDENTALIS 'HETZ MIDGET'	HETZ MIDGET ARBORVITAE	5" CONT.	
ACU	4	5	ABIES CONCOLOR	CONCOLOR WHITE FIR	8" BB	
ACUL	2	1	ABIES CONCOLOR	CONCOLOR WHITE FIR	10" BB	O
PS	11	5	PINUS STROBUS	EASTERN WHITE PINE	8" BB	
P8L	9	3	PINUS STROBUS	EASTERN WHITE PINE	10" BB	O
PA	11	10	PICEA ABIES	NORWAY SPRUCE	8" BB	
PAL	7	6	PICEA ABIES	NORWAY SPRUCE	10" BB	O
PERENNIALS AND GRASSES						
PAH	40	-	FENISSETUM ALOPECUROIDES 'HAMELIN'	DWARF FOUNTAIN GRASS	5" CONT.	
M8M	1	-	MISCANTHUS SINENSIS 'MORNING LIGHT'	MORNING LIGHT JAPANESE SILVER GRASS	5" CONT.	
NEP	-	13	NEPETA X. FAASSENII 'WALKERS LOW'	WALKERS LOW CATMINT	4" CONT.	
DLY	126	19	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	4" CONT.	
HOS	68	-	HOSTA 'PATRIOT'	PATRIOT HOSTA	4" CONT.	
SB	96	-	SPIRAEA X.B. 'ANTHONY WATERER'	ANTHONY WATERER SPIRAEA	5" CONT.	
SED	72	-	BEDUM SPECTABILE 'NEON'	NEON BEDUM	4" CONT.	



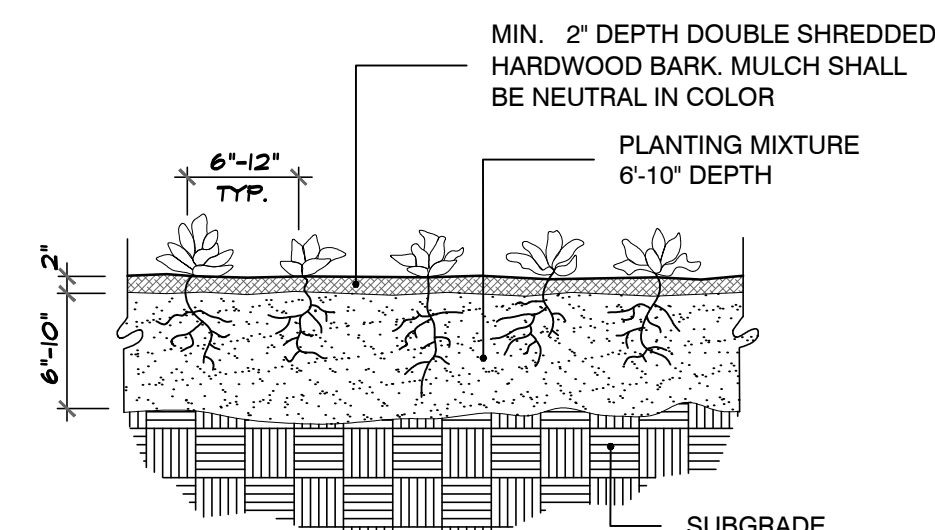
parking island planting detail
no scale



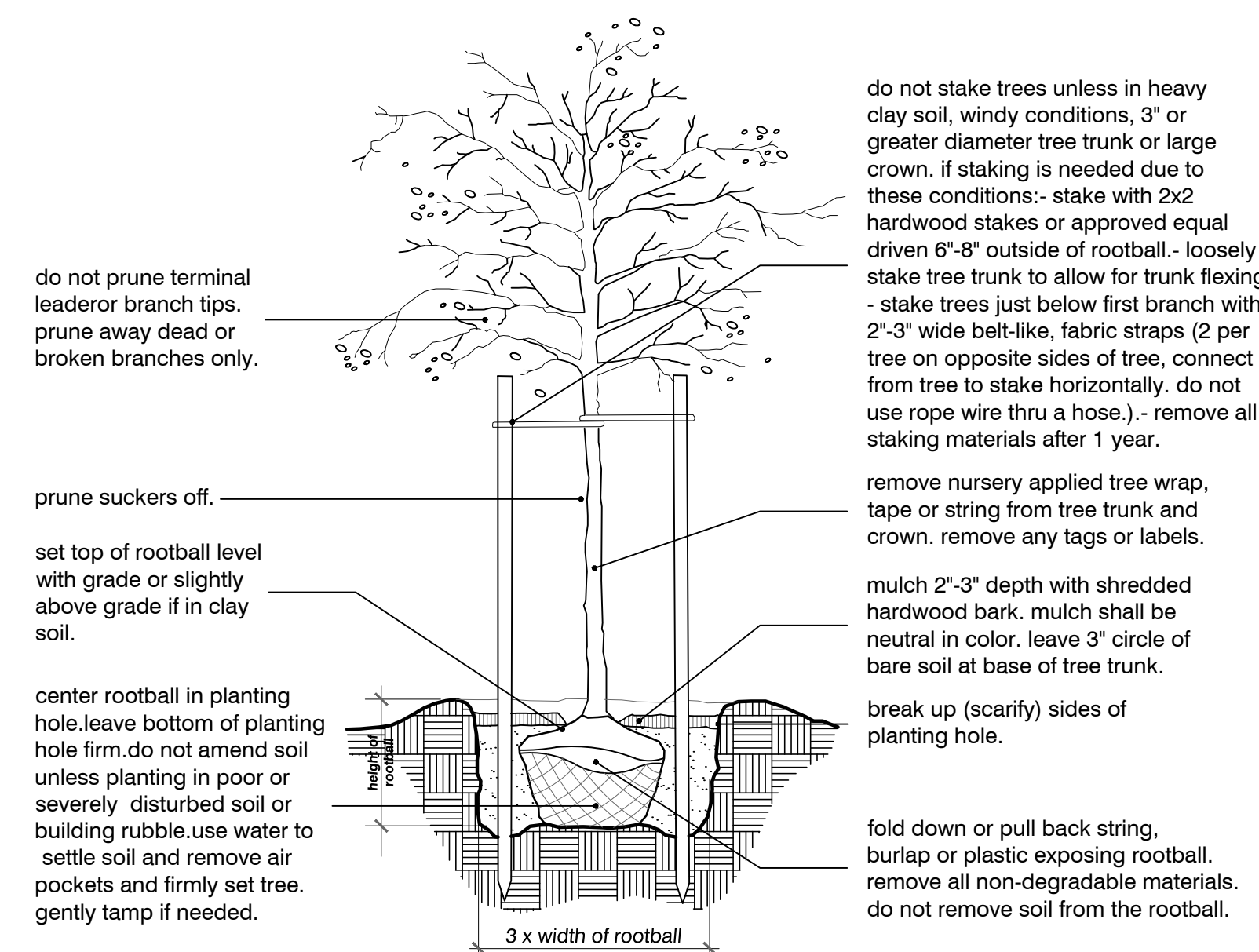
tree staking detail
no scale



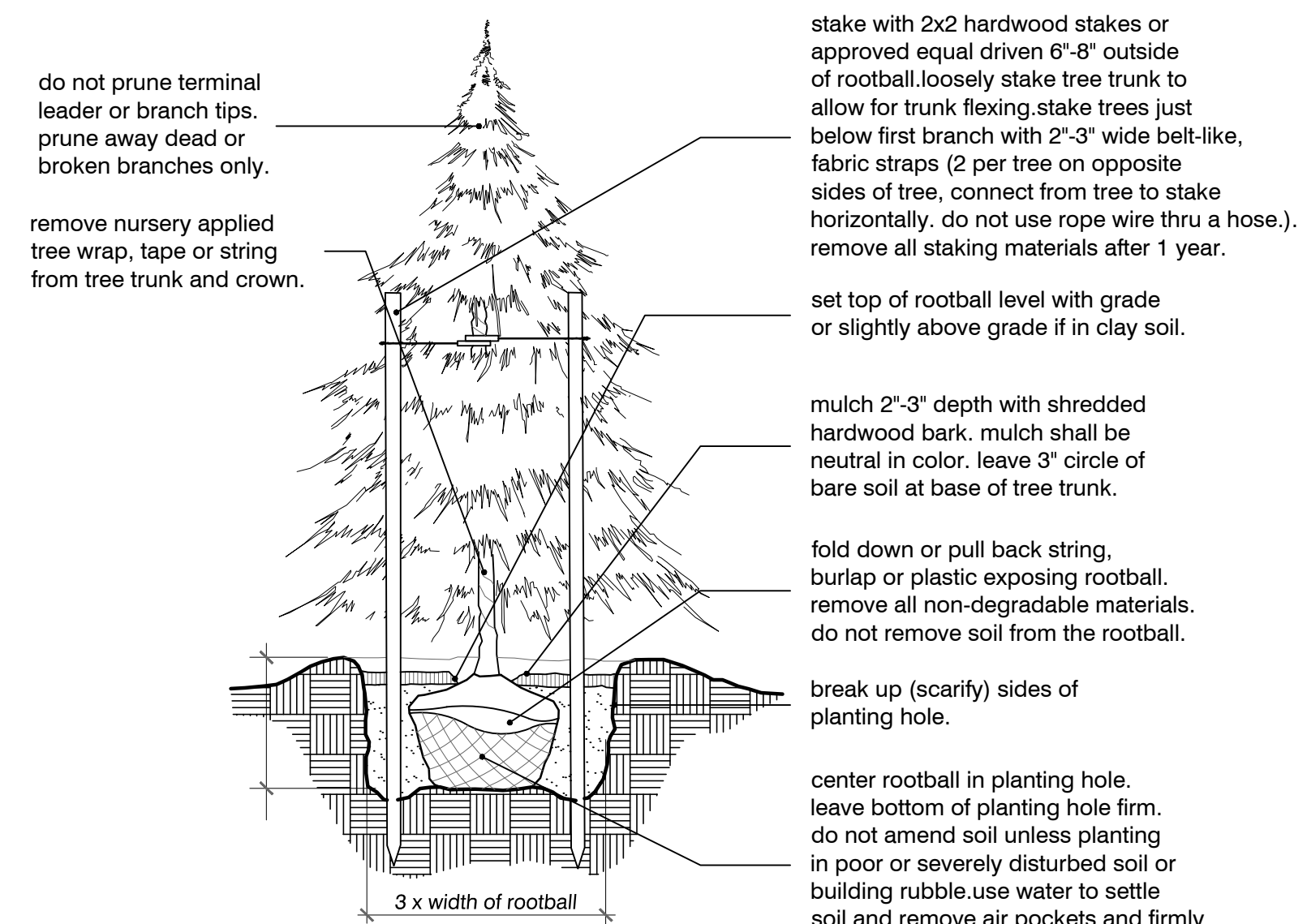
shrub planting detail
no scale



perennial planting detail
no scale



tree planting detail
no scale



evergreen planting detail
no scale

Plant Material List, Planting Details and Notes



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:
plant material list, planting details and landscape notes

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

drawn by:
KM

checked by:
FP

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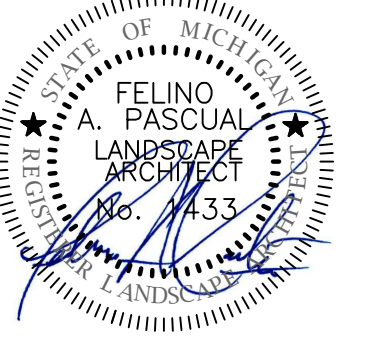
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LS17.011.05

sheet no.:

LS-4 of 5

seal:



client:

**City of Sterling
 Heights**

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**landscape planting
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 figured dimensions only



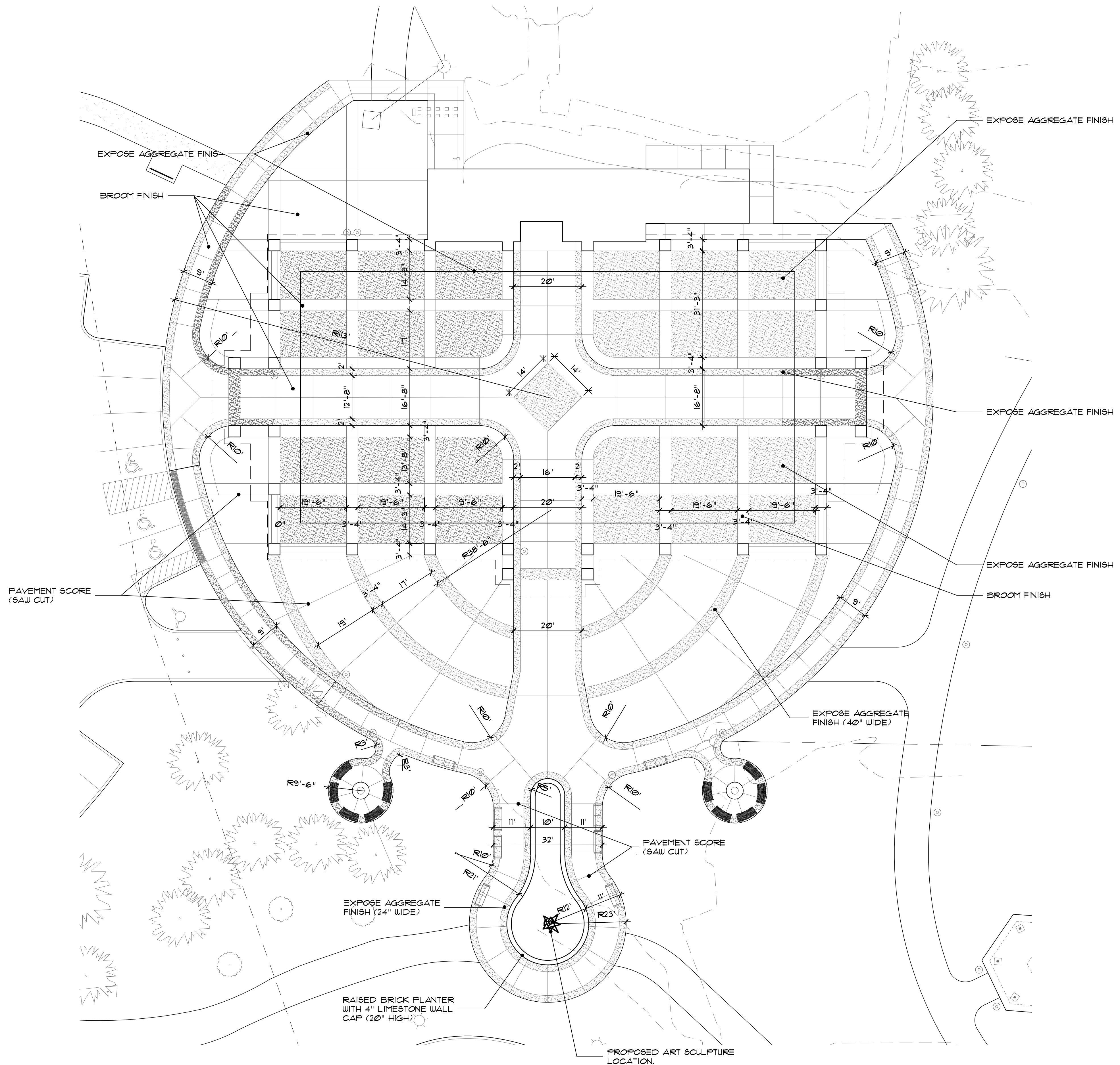
The location and elevations of existing
 underground utilities as shown on this
 drawing are only approximate; no guarantee
 is either expressed or implied as to the
 completeness of accuracy; contractor shall be
 exclusively responsible for determining the
 exact location and elevation prior to the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

project no:

LS17.011.05

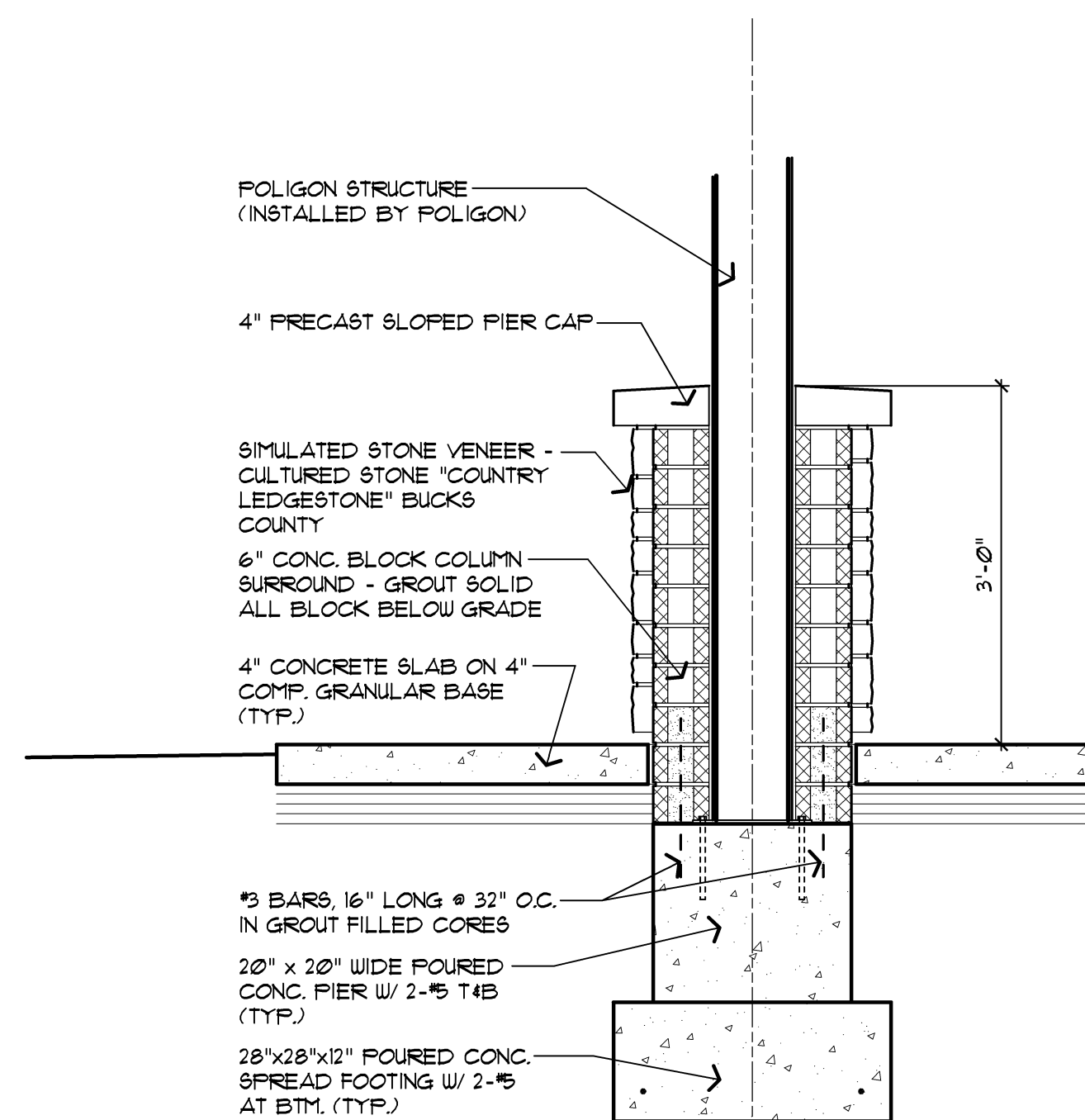
sheet no:

LS-5 of 5

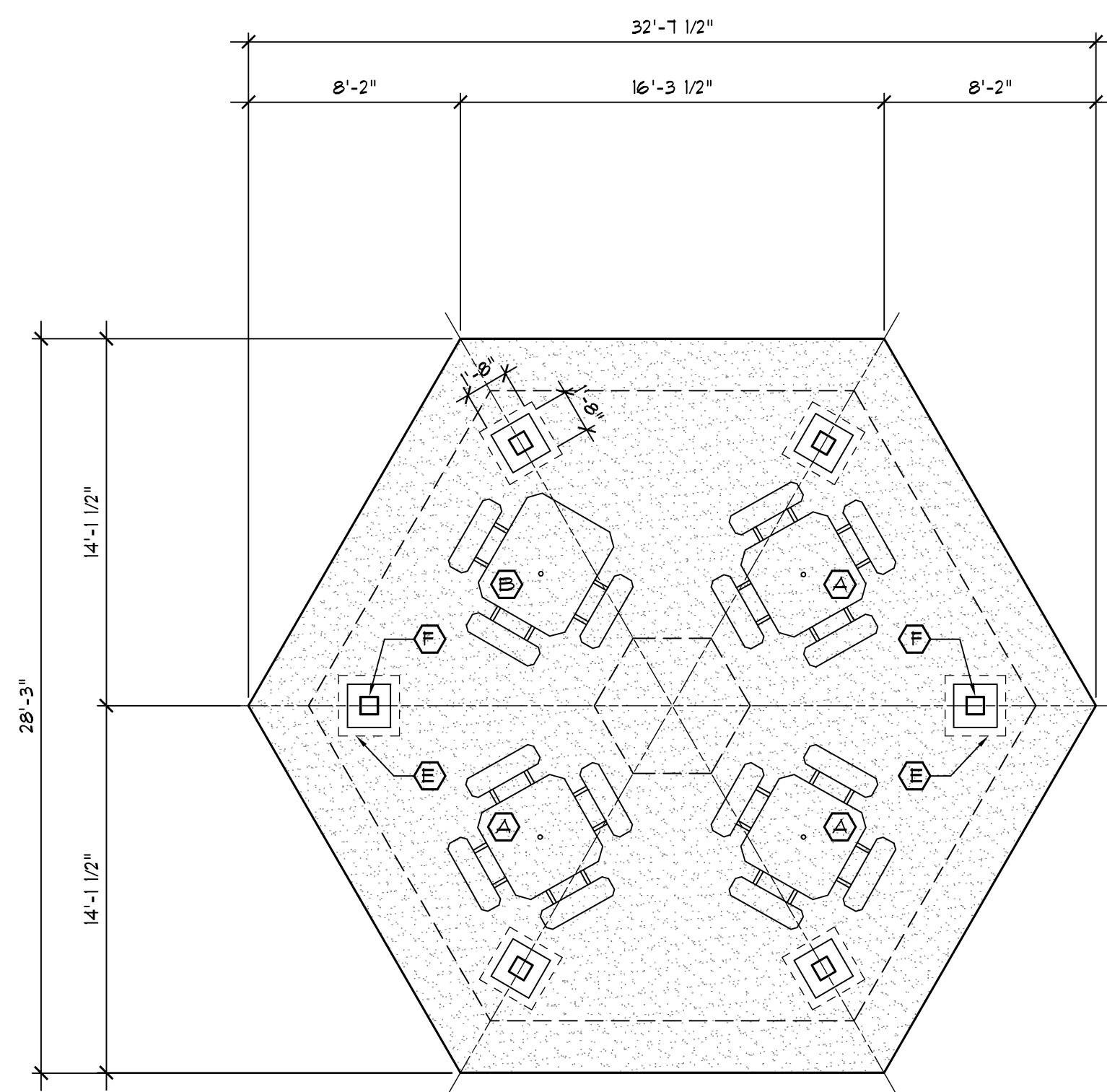


5A Farmers Market-pavement plan detail
 SCALE: 1"=30'-0"

KEYED NOTES:	
(A)	SURFACE MOUNTED PICNIC TABLES BY OTHERS - SEE SITE PLAN SHEETS
(B)	SURFACE MOUNTED ACCESSIBLE PICNIC TABLES BY OTHERS - SEE SITE PLAN SHEETS
(C)	1'-8"x1'-8" PIER FOOTING W/ 28"x28"x12" PAD FOOTING W/ (2) #5 BARS EACH WAY T&B - SEE WALL SECTIONS FOR MORE INFORMATION
(D)	4" CONC. SLAB ON 4" COMP. GRANULAR BASE
(E)	CMU PIER FACED WITH SIMULATED STONE VENEER AND PRECAST CAP
(F)	POLYGON STRUCTURE (INSTALLED BY POLYGON)

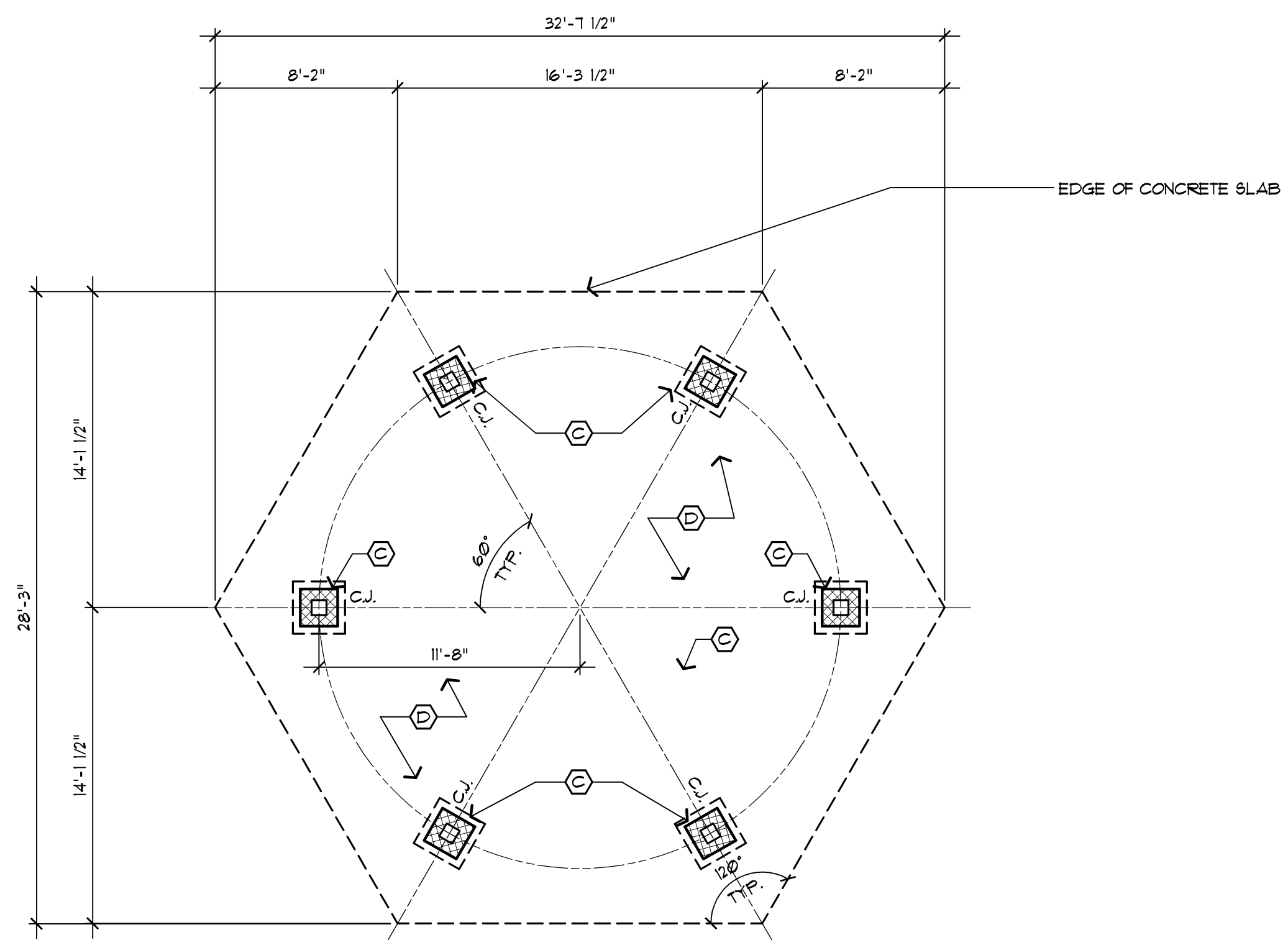


3 Simulated Stone Pier Section
 AI Scale: 3/4" = 1'-0"

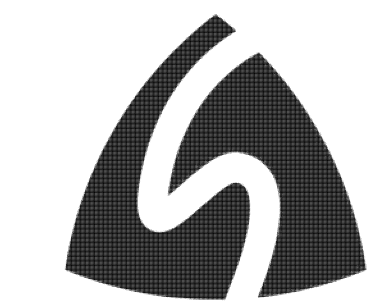


SEE ENLARGED SITE PLANS ON SHEETS SP05, SP08 & SP10 FOR PATH SIZES AND LOCATIONS AT PAVILIONS. NEW PARK PATHS BY SITE CONTRACTOR.

2 Pavilion #1, 4 and 5 Floor Plan
 AI Scale: 3/16" = 1'-0"



1 Pavilion #1, 4 and 5 Foundation Plan
 AI Scale: 3/16" = 1'-0"



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

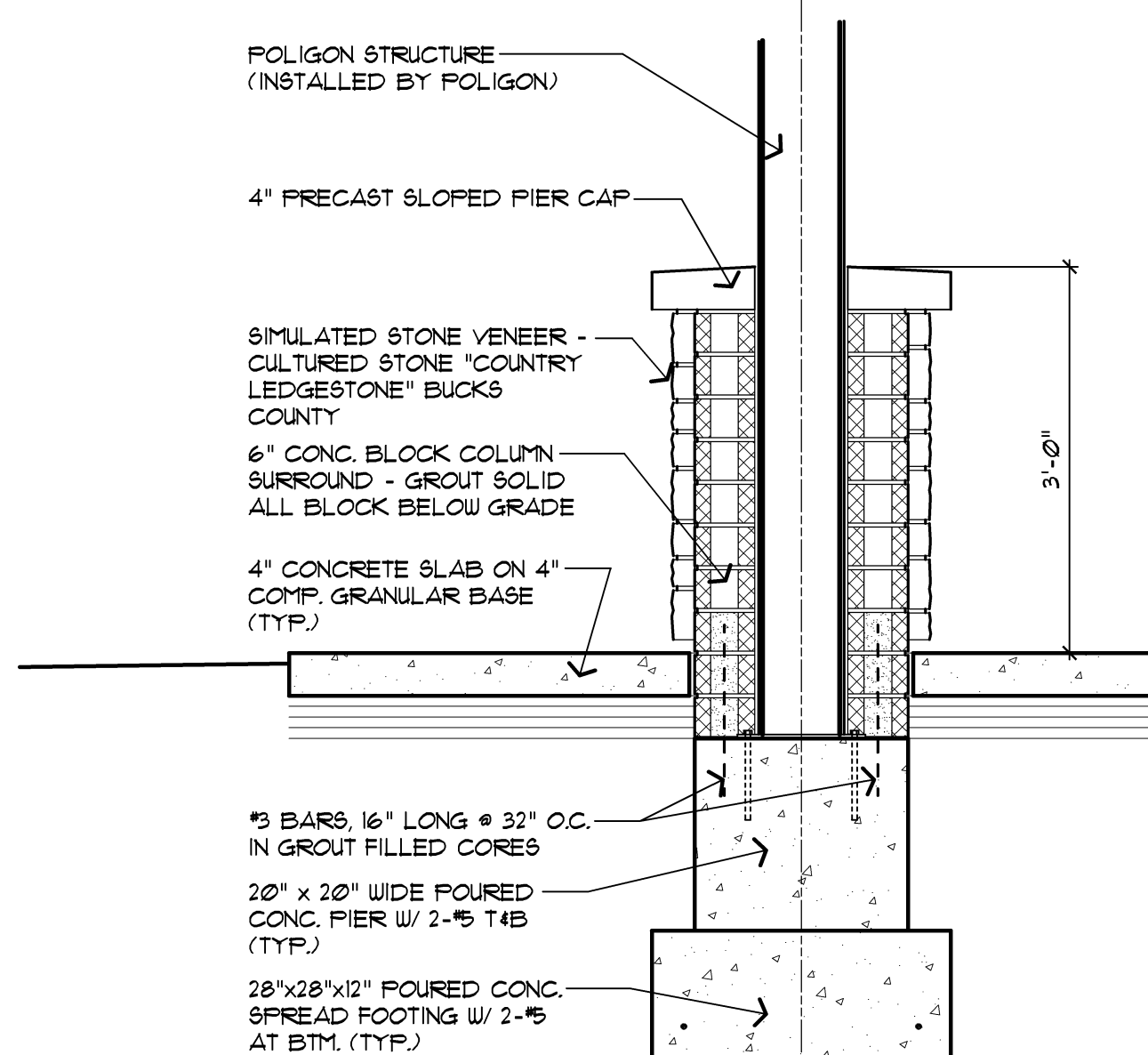
drawn by	checked by

City of Sterling Heights
 Dodge Park Improvements
 Sterling Heights, Michigan
 project

Pavilion #1, 4 and 5
 Foundation Plan
 Floor Plan
 sheet title

Dorchen/Martin Associates, Inc.
 Architects/Planners
 29895 Greenfield Rd., Suite 107
 Southfield, Michigan 48076
 (248) 557-1002
 Fax: (248) 557-1231

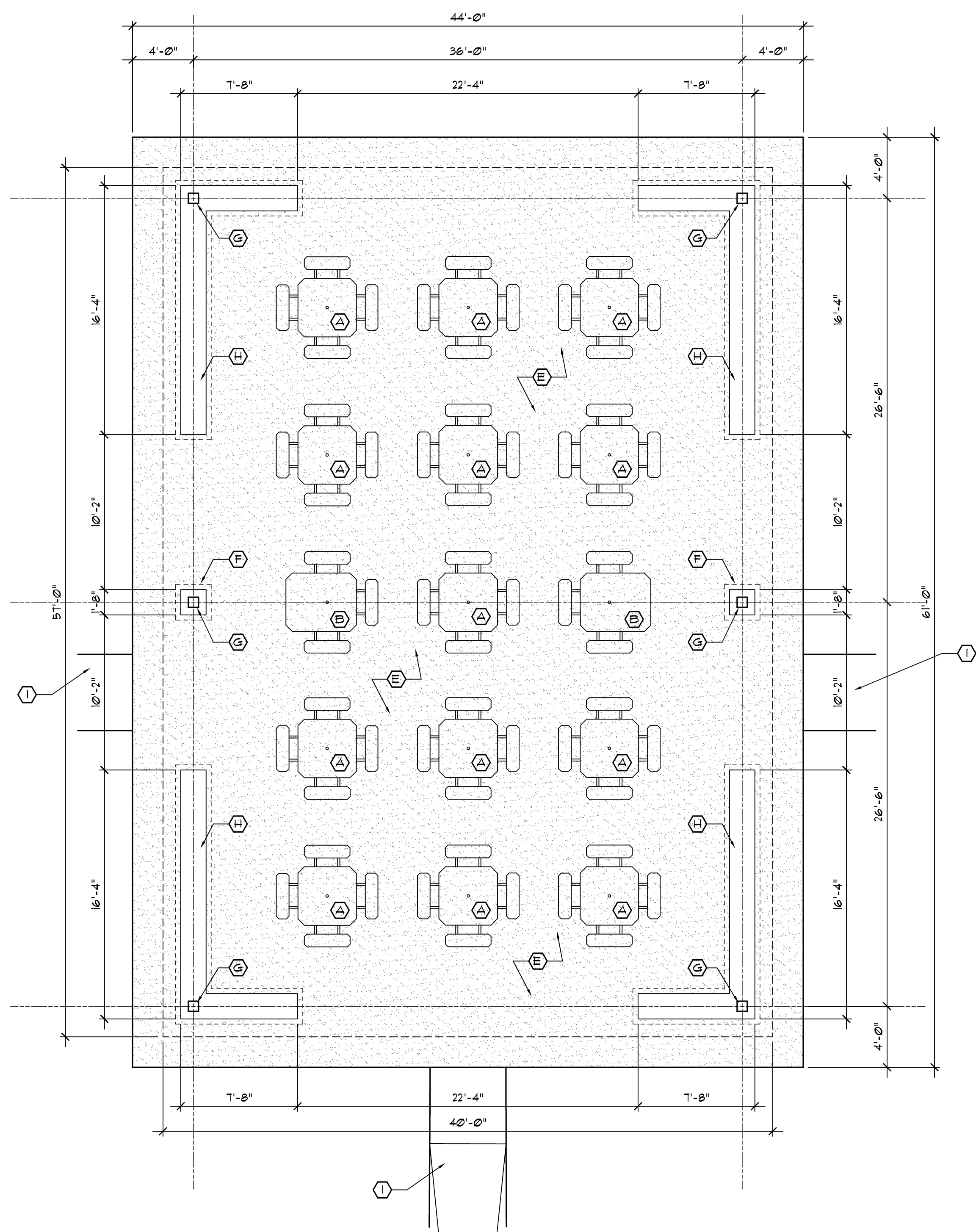
job no.	sheet no.
16078A	PAV145-A1



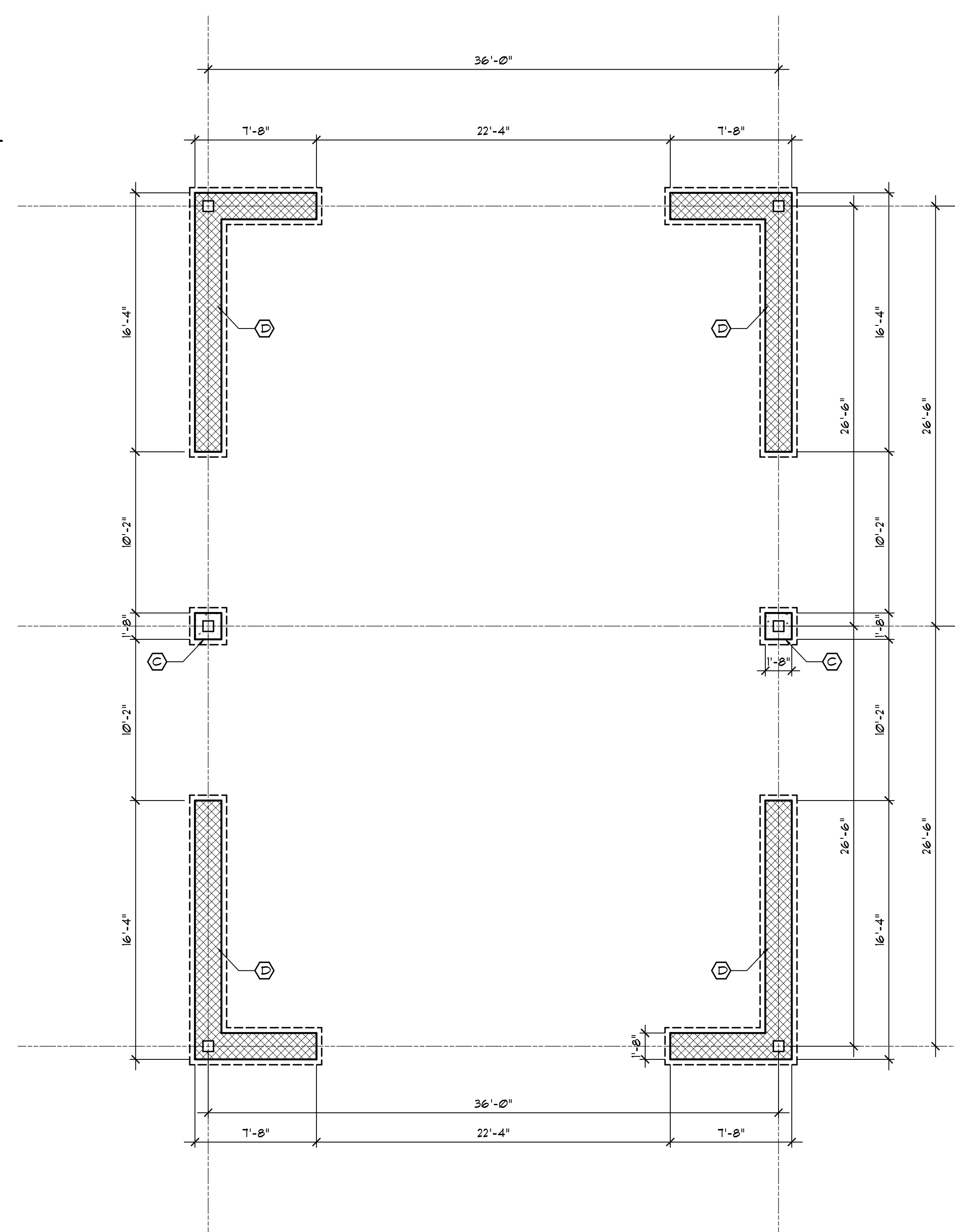
3 Simulated Stone Pier Section
 A1 Scale: 3/4" = 1'-0"

KEYED NOTES:

- (A) SURFACE MOUNTED PICNIC TABLES BY OTHERS - SEE SITE PLAN SHEETS
- (B) SURFACE MOUNTED ACCESSIBLE PICNIC TABLES BY OTHERS - SEE SITE PLAN SHEETS.
- (C) 1'-8" x 1'-8" PIER FOOTING W/ 28"x28"x12" PAD FOOTING W/ (2) #5 BARS EACH WAY T4B - SEE WALL SECTIONS FOR MORE INFORMATION
- (D) 20" WIDE FNDN. WALL FOR HALF WALL ABOVE ON 28"x12" CONCRETE SPREAD FOOTING W/ 2 #5 AT BTM. (TYP.)
- (E) 4" CONC. SLAB ON 4" COMP. GRANULAR BASE
- (F) CMU PIER FACED WITH SIMULATED STONE VENEER AND PRECAST CAP
- (G) POLYGON STRUCTURE (INSTALLED BY POLYGON)
- (H) CMU HALF WALL WITH SIMULATED STONE VENEER AND PRECAST CAP
- (I) ASPHALT PATH - SEE SITE PLAN



2 Pavilion #2 Floor Plan
 A1 Scale: 3/16" = 1'-0"



1 Pavilion #2 Foundation Plan
 A1 Scale: 3/16" = 1'-0"



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

drawn by _____ checked by _____

City of Sterling Heights
 Dodge Park Improvements
 Sterling Heights, Michigan
 project
 Pavilion #2
 Foundation Plan
 Floor Plan
 sheet title

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 Southfield, Michigan 48076
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 Fax: (248) 557-1231

job no. 16078A sheet no. PAV2-A1

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 OF DEVICES.
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 WIRE.
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.

architect seal



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 4000 Eleven Mile Road Ber. ley, MI 48072
 Phone 248.399.1900 Fax 248.399.1901
 www.sesnet.com
 SES Project # 17 0454 01



Issue / revision date	
5-09-17	Owner Review
6-06-17	Coordination
6-16-17	Bids

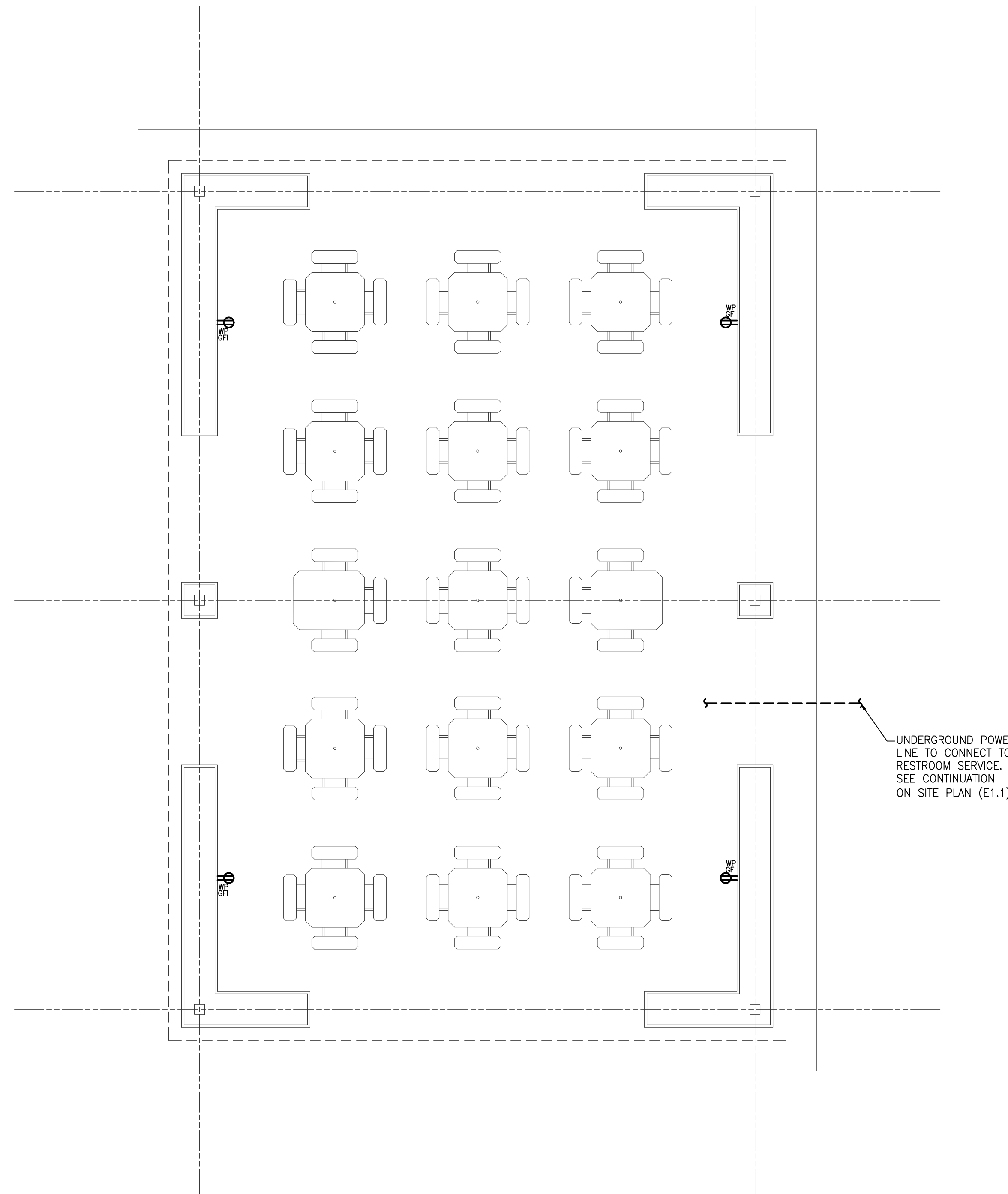
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 Dodge Park Improvements
 Sterling Heights, Michigan
project

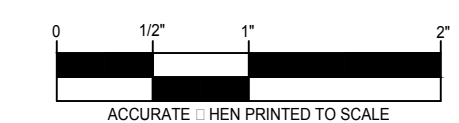
**PAVILION 2
 ELECTRICAL NEW
 WORK PLAN**
sheet title

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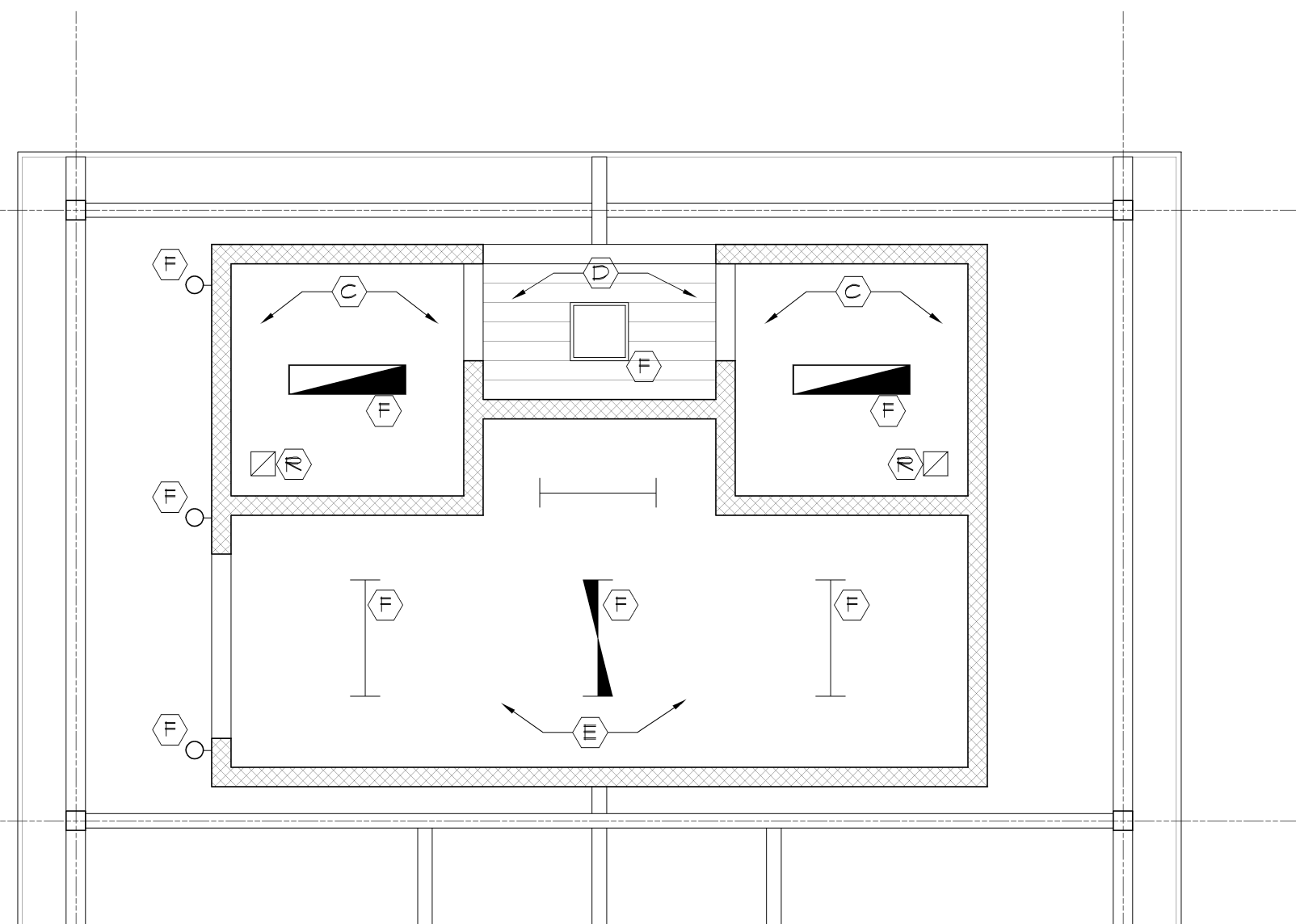
job no.	sheet no.
16078A	E1.1



PAVILION 2 ELECTRICAL NEW WORK PLAN
 SCALE: 3/16" = 1'-0"



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 Date: Jun 16, 2017, 9:22am Layout: E1.1 Plotted by: jph



3 Pavilion #3 Partial Reflected Clg. Plan
Scale: 3/16" = 1'-0"

KEYED NOTES:

- (A) SURFACE MOUNTED PICNIC TABLES BY OTHERS - SEE SITE PLAN SHEETS
- (B) ACCESSIBLE TABLES
- (C) 3/4" EXTERIOR GRADE GYP. BD. CEILING - PAINT
- (D) 5/8", 8" GROOVE FIBER CEMENT SOFFIT PANEL - PAINT
- (E) EXTERIOR PLYWOOD CEILING - PAINT
- (F) LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
- (G) PEDESTAL DRINKING FOUNTAIN (SEE PLUMBING DRAWINGS)
- (H) SUPPORTED SLAB (SEE DTL. THIS SHEET)
- (I) 8" FNDN. WALL ON 16"x12" CONCRETE SPREAD FOOTING W/ (2) #5 AT BTM. - SEE WALL SECTIONS FOR MORE INFORMATION
- (J) 4"x8"x16" CMU WALL
- (K) 1'-8"x1'-8" PIER FOOTING W/ 28"x28"x12" PAD FOOTING W/ (2) #5 BARS EACH WAY T4B - SEE WALL SECTIONS FOR MORE INFORMATION
- (L) 20" WIDE FNDN. WALL FOR HALF WALL ABOVE ON 28"x12" CONCRETE SPREAD FOOTING W/ 2 #5 AT BTM. (TYP.)
- (M) 4" CONC. SLAB ON 4" COMP. GRANULAR BASE
- (N) CMU PIER FACED WITH SIMULATED STONE VENEER AND PRECAST CAP
- (O) POLIGON STRUCTURE (INSTALLED BY POLIGON)
- (P) CMU HALF WALL WITH SIMULATED STONE VENEER AND PRECAST CAP
- (Q) ASPHALT PATH - SEE SITE PLAN
- (R) EXHAUST FAN (SEE MECHANICAL DRAWINGS)

STEEL LINTEL SCHEDULE:

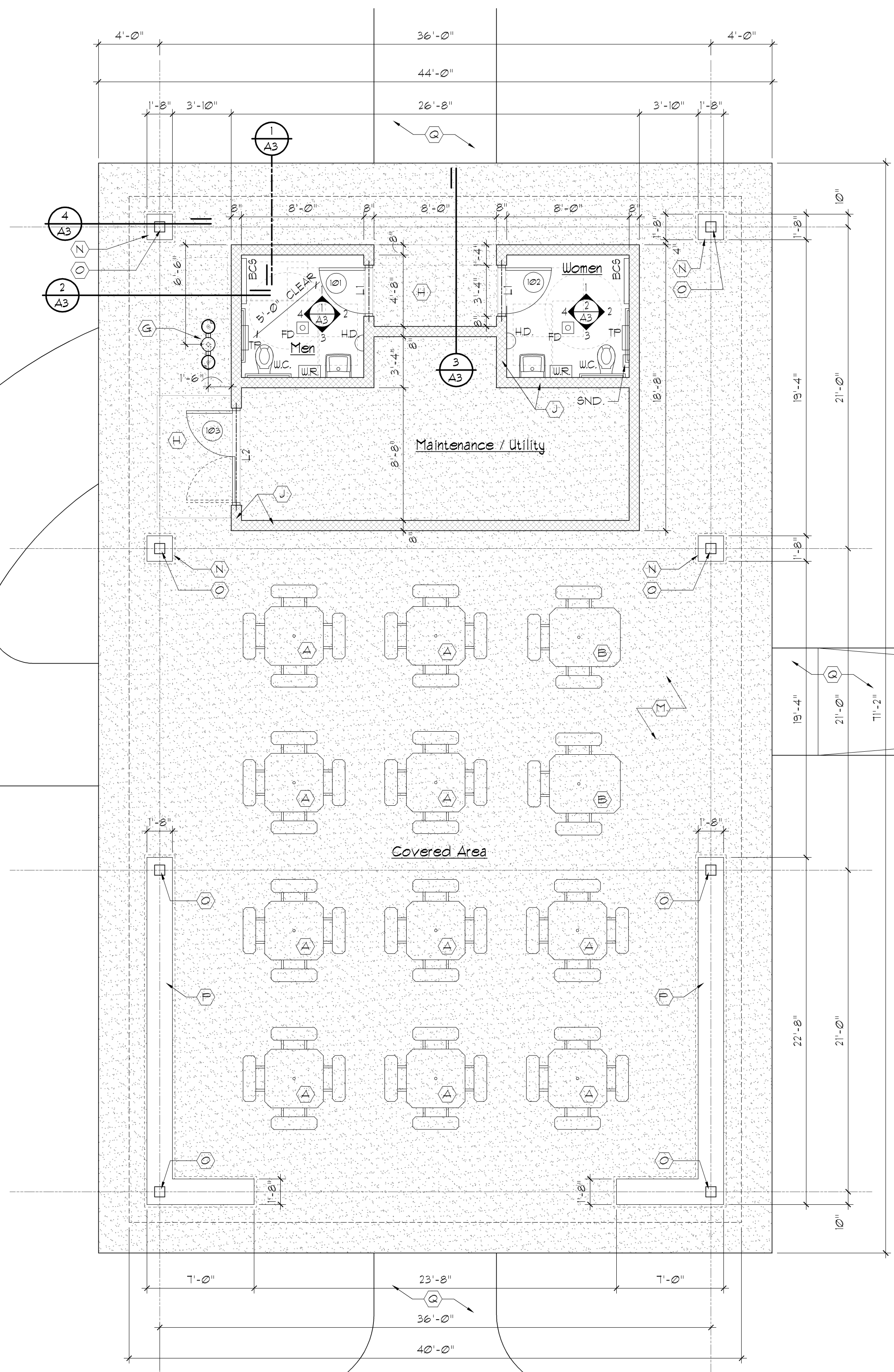
- L1 = L4x3 1/2 x 5/16 ANGLE
 - L2 = W8x18 + 3/8" PLATE
- ALL DOUBLE ANGLE LINTELS SHALL BE WELDED BACK TO BACK WITH A MINIMUM 2 INCH STITCH WELD EVERY 8 INCHES.
- ALL MASONRY BEARING STEEL BEAMS AND LINTELS TO BEAR 8" MINIMUM ON 3 COURSES SOLID MASONRY, WITH 2-3/4" DIAMETER BOLTS EACH END, UNLESS OTHERWISE NOTED.

NOTES:

1. DIMENSIONS ARE TO FINISHED SURFACES.
2. FOR PLUMBING FIXTURE SCHEDULE SEE PLUMBING DRAWINGS.
3. PROVIDE SOUND INSULATION IN ALL TOILET ROOM WALLS.
4. PROVIDE SOLID BLOCKING AS REQUIRED FOR ANCHORING OF GRAB BARS, COUNTERS, HARDWARE, ETC.

TOILET ROOM FIXTURES LEGEND

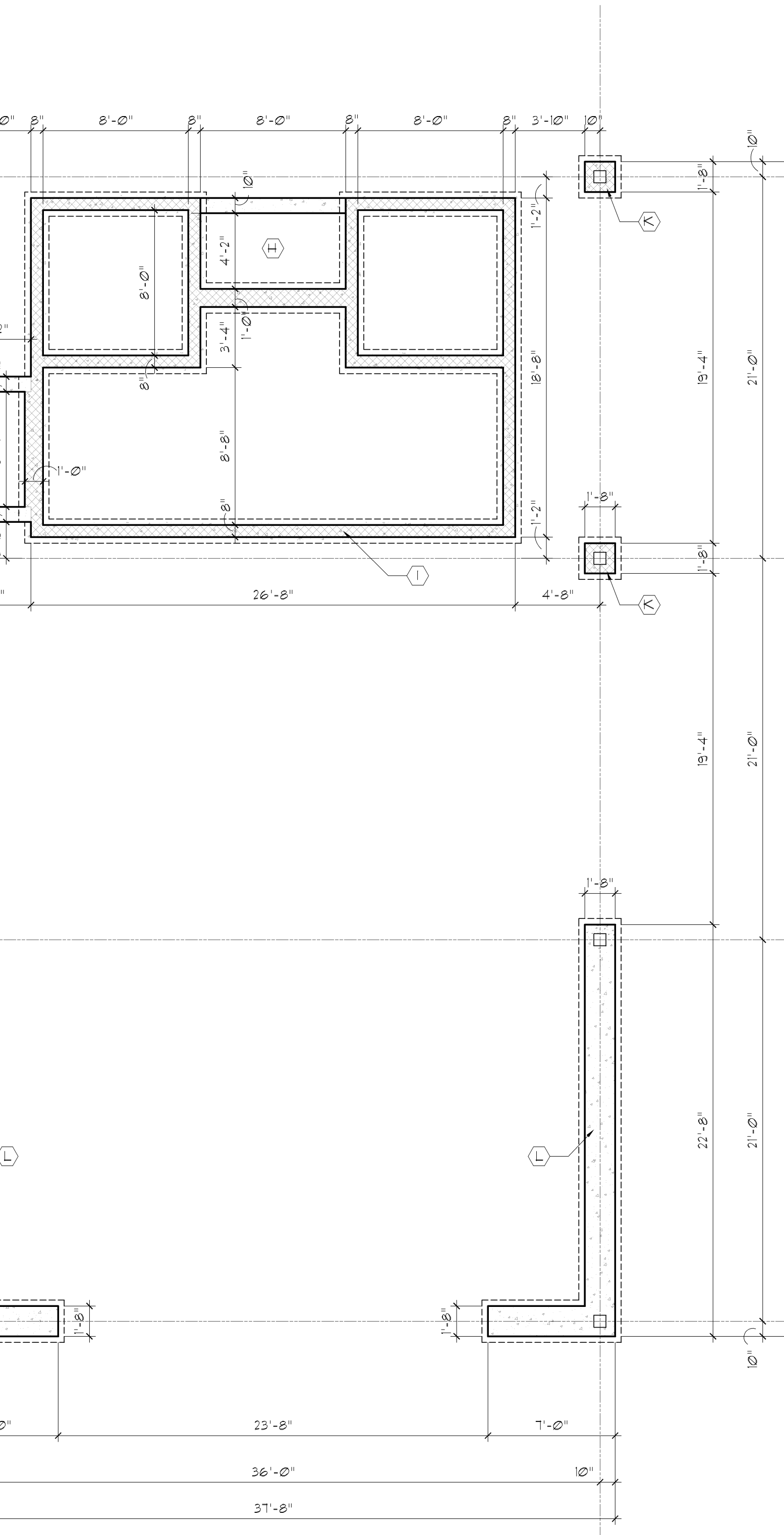
- B.F. BARRIER-FREE
- S.D. SOAP DISPENSER
- T.F. TOILET PAPER HOLDER
- W. WATER CLOSET
- H.D. ELECT. HAND DRYER
- B.C.S. BABY CHANGING STATION
- C.S. CHILD PROTECTION SEAT
- W.R. WASTE RECEPTACLE
- S.N.D. SANITARY NAPKIN DISPOSAL



2 Pavilion #3 Floor Plan
Scale: 3/16" = 1'-0"

4 Supported Slab Detail
Scale: Not to Scale

Scale: Not to Scale



1 Pavilion #3 Foundation Plan
Scale: 3/16" = 1'-0"

Scale: 3/16" = 1'-0"



issue / revision date

- 3-7-17 Prelim. Review
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- 5-9-17 Prelim. Review
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job no.

sheet no.

16078A PAV3-A1