

# CITY OF FIFE FOUNTAIN PLAZA

## FIFE, WASHINGTON

### BID SET

### 30 APRIL, 2015



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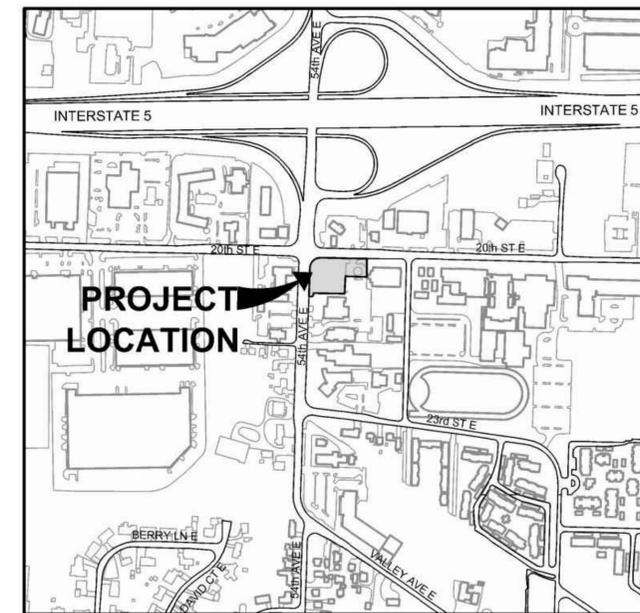
#### PROJECT SUMMARY

##### GENERAL

THIS PROJECT COMPRISES EXTERIOR, SITE DEVELOPMENT IMPROVEMENTS UNDER A SINGLE CONTRACT FOR A NEW PUBLIC FOUNTAIN SPACE WITHIN THE CITY OF FIFE'S SOUTH CAMPUS COMPLEX LOCATED BETWEEN 54TH AVENUE EAST AND 20TH STREET EAST IN FIFE, WASHINGTON, GENERALLY DESCRIBED AS FOLLOWS:

##### FOUNTAIN PLAZA

- **EARTHWORK:** MINOR SITE DEMOLITION, GRADING USING IMPORTED FILL
- **FOUNTAIN RELOCATION:** RELOCATION OF HISTORIC FIFE FOUNTAIN FROM RECREATION CENTER AREA TO NEW FOUNTAIN PLAZA
- **STORMWATER:** MINOR DRAINAGE SYSTEM CONVEYING STORMWATER TO EXISTING CATCH BASIN
- **ELECTRICAL:** PEDESTRIAN LIGHTING, SIGNAGE LIGHTING, FOUNTAIN LIGHTING, ASSOCIATED PUMP SYSTEM ELECTRICAL
- **SURFACING:** CONCRETE SIDEWALKS AND PLAZA
- **CONCRETE CONSTRUCTION:** SEAT WALL, STAIRS AND FOOTING
- **SIGNAGE:** ALUMINUM LETTER SIGNAGE
- **PLUMBING:** PLUMBING SYSTEMS FOR FOUNTAIN
- **SPECIAL CONSTRUCTION:** ALUMINUM FABRICATIONS FOR FOUNTAIN
- **LANDSCAPING:** PLANTING OF TREES, SHRUBS, AND LAWN, LARGE BOULDERS, BENCHES
- **IRRIGATION:** IRRIGATION SYSTEM



VICINITY MAP



Project Title

**CITY OF FIFE**  
Fountain Plaza



Project Numbers

2012 - 008

Issue & Revision Dates

BID SET 30.04.2015

5617



Sheet Title

**COVER SHEET**

Drawn By MR Checked By RC

Sheet Number

# G1.00

Sheet Number 1 of 25

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### PROJECT DIRECTORY

#### OWNER:

CITY OF FIFE  
 RUSS BLOUNT, PE  
 PUBLIC WORKS DIRECTOR  
 5411 23RD ST E  
 FIFE, WA 98424  
 PHONE: (253) 922-2489  
 EMAIL: rblount@cityoffife.org

#### ARCHITECT:

TCF ARCHITECTURE PLLC  
 902 NORTH SECOND STREET  
 TACOMA, WA 98403  
 PHONE: (253) 572-3993  
 FAX: (253) 572-1445  
 PIC: RANDY COOK, AIA  
 EMAIL: randy@tcfarchitecture.com

#### CIVIL ENGINEER

AHBL  
 2215 NORTH 30TH STREET SUITE 300  
 TACOMA, WA 98403  
 PHONE: (253) 383-2422  
 FAX: (253) 383-2572  
 PE: DAVID NASON  
 EMAIL: dnason@ahbl.com

#### LANDSCAPE ARCHITECT

BRUCE DEES & ASSOCIATES, LLC  
 222 EAST 26TH STREET SUITE 202  
 TACOMA, WA 98421  
 PHONE: (253) 627-7947  
 FAX: (253) 627-6661  
 PM: DERRICK EBERLE  
 EMAIL: deberle@bdassociates.com

#### MECHANICAL/ELECTRICAL ENGINEER:

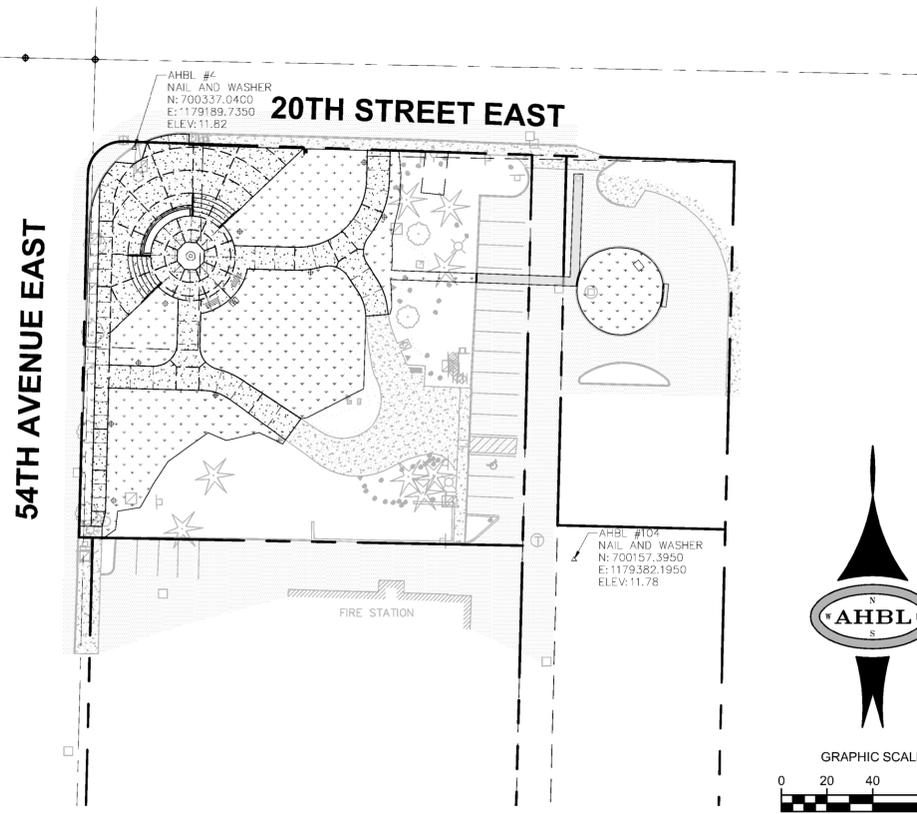
BCE ENGINEERS  
 6021 12TH ST E, SUITE 200  
 FIFE, WA 98424

MECHANICAL PE: CHRIS CAFFEE  
 PHONE: (253) 922-0446  
 EMAIL: chris.caffee@bceengineers.com

ELECTRICAL PE: HENRY SANTOS  
 PHONE: (253) 922-0446  
 EMAIL: henry.santos@bceengineers.com

#### HISTORICAL & PRESERVATION

ARTIFACTS  
 201 NORTH YAKIMA AVENUE  
 TACOMA, WA 98403  
 PHONE: (253) 572-4599  
 CONTACT: SPENCER HOWARD  
 EMAIL: showard@artifacts-inc.com



CIVIL SHEET INDEX	
Sheet Number	Sheet Title
C0.01	COVER SHEET
C1.01	TESC AND DEMOLITION PLAN
C2.01	HORIZONTAL CONTROL AND SURFACING PLAN
C3.01	STORM DRAINAGE AND GRADING PLAN
C4.01	NOTES AND DETAILS
C4.02	NOTES AND DETAILS

**VERTICAL DATUM:**

NGVD 29  
CITY OF FIFE VERTICAL BENCHMARK FS-11  
SCRIBED "X" IN NE CORNER OF SIDEWALK AT  
NORTHEAST ENTRANCE TO FOUNTAIN MEMORIAL  
PARK AT SOUTHEAST QUADRANT OF 20TH STREET  
EAST AND 54TH AVENUE EAST.  
ELEVATION: 11.84

**BASIS OF BEARING:**

NAD 83/91  
WASHINGTON STATE PLANE COORDINATE SYSTEM,  
SOUTH ZONE  
PIERCE COUNTY HORIZONTAL CONTROL  
HOLDING COUNTY MONUMENT NUMBERS 492 AND 493.

POINT NO. 492  
N=699124.7994  
E=1176584.6648  
BRASS DISK WITH "X" NORTH OF THE INTERSECTION  
OF FRANK ALBERT ROAD EAST W/ INDUSTRY DRIVE.

POINT NO. 493  
N=696440.3629  
E=1176434.5341  
BRASS DISK WITH PUNCH 500' NORTH OF THE  
INTERSECTION OF FRANK ALBERT ROAD EAST W/  
NORTH LEVEE ROAD.

A LINE BETWEEN THE TWO FOUND MONUMENTS  
BEARS  
NORTH 03°12'04" EAST.

**GENERAL NOTES:**

- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF WSDOT STANDARD SPECIFICATIONS AND CITY OF FIFE STANDARDS.
- SEE ELECTRICAL PLANS FOR SITE LIGHTING.

**UTILITY NOTE:**

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT HAPPEN DUE TO THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. AHBL ASSUMES NO LIABILITY FOR THE LOCATION OF UNDERGROUND UTILITIES.

**FILL SPECIFICATION NOTE:**

FILL MATERIAL SHALL NOT CONTAIN PETROLEUM PRODUCTS, OR SUBSTANCES WHICH ARE HAZARDOUS, DANGEROUS, TOXIC, OR WHICH OTHERWISE VIOLATE ANY STATE, FEDERAL, OR LOCAL LAW, ORDINANCE, CODE, REGULATION, RULE, ORDER, OR STANDARD.

**TRENCH NOTE:**

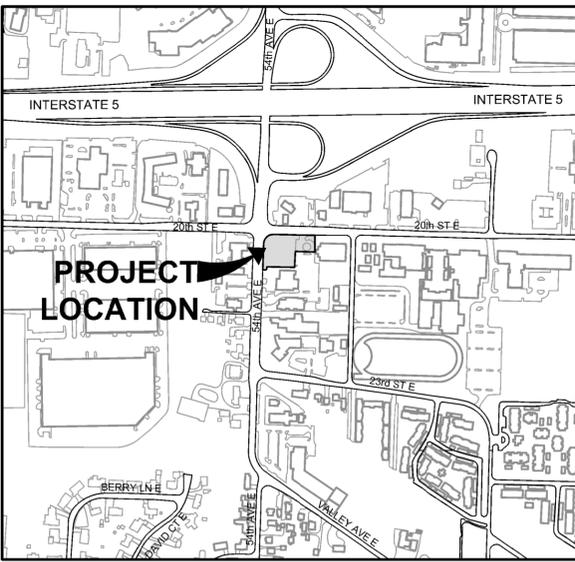
IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR OR MORE FEET IN DEPTH THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF WSDOT SECTION 2-09.3(3)B, IT SHALL BE SHORED AND CRIBBED. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR WORKER SAFETY AND AHBL ASSUMES NO RESPONSIBILITY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW.

**AUTOCAD FILE NOTE:**

AUTOCAD DRAWING FILES ARE AVAILABLE TO ASSIST WITH HORIZONTAL SITE LAYOUT ONLY.

**UTILITY PURVEYORS:**

- WATER: CITY OF FIFE  
PH: (253)-922-9624
- SANITARY SEWER: CITY OF FIFE  
PH: (253)-922-9624
- STORM SEWER: CITY OF FIFE  
PH: (253)-922-9624
- ELECTRICITY: PUGET SOUND ENERGY  
PH: 1-(888)-225-5773
- NATURAL GAS: PUGET SOUND ENERGY  
PH: 1-(888)-225-5773
- TELEPHONE: CENTURY LINK  
PH: 1-(877)-946-6140



**VICINITY MAP**

NOT TO SCALE

**LEGEND:**

EXISTING		PROPOSED
	SET NAIL AND WASHER	
	BOLLARD	
	MAIL BOX	
	SIGN	
	SANITARY SEWER MANHOLE	
	SANITARY SEWER CLEANOUT	
	STORM CATCH BASIN	
	STORM MANHOLE	
	ROOF DRAIN	
	GAS METER	
	GAS VALVE	
	TRAFFIC SIGNAL POLE	
	POWER TRANSFORMER	
	UTILITY POWER POLE	
	ELECTRICAL VAULT	
	JUNCTION BOX	
	POWER METER	
	LUMINAIRE	
	COMMUNICATIONS MANHOLE	
	FIRE HYDRANT	
	IRRIGATION CONTROL VALVE	
	WATER METER	
	WATER VALVE	
	C=CEDAR, F=FIR, P=PINE	
	M=MAPLE U= UNKNOWN	
	STORM LINE	
	SANITARY SEWER LINE	
	GAS LINE	
	ELECTRICAL LINE	
	COMMUNICATIONS LINE	
	WATER LINE	
	FENCE	
	CONCRETE	
	ASPHALT	
	CONTOUR MAJOR INTERVAL	
	CONTOUR MINOR INTERVAL	



Project Title  
**CITY OF FIFE  
FOUNTAIN PLAZA**

Project Numbers  
2012 - 008  
AHBL 20120211

Issue & Revision Dates  
BID SET 4.30.2015



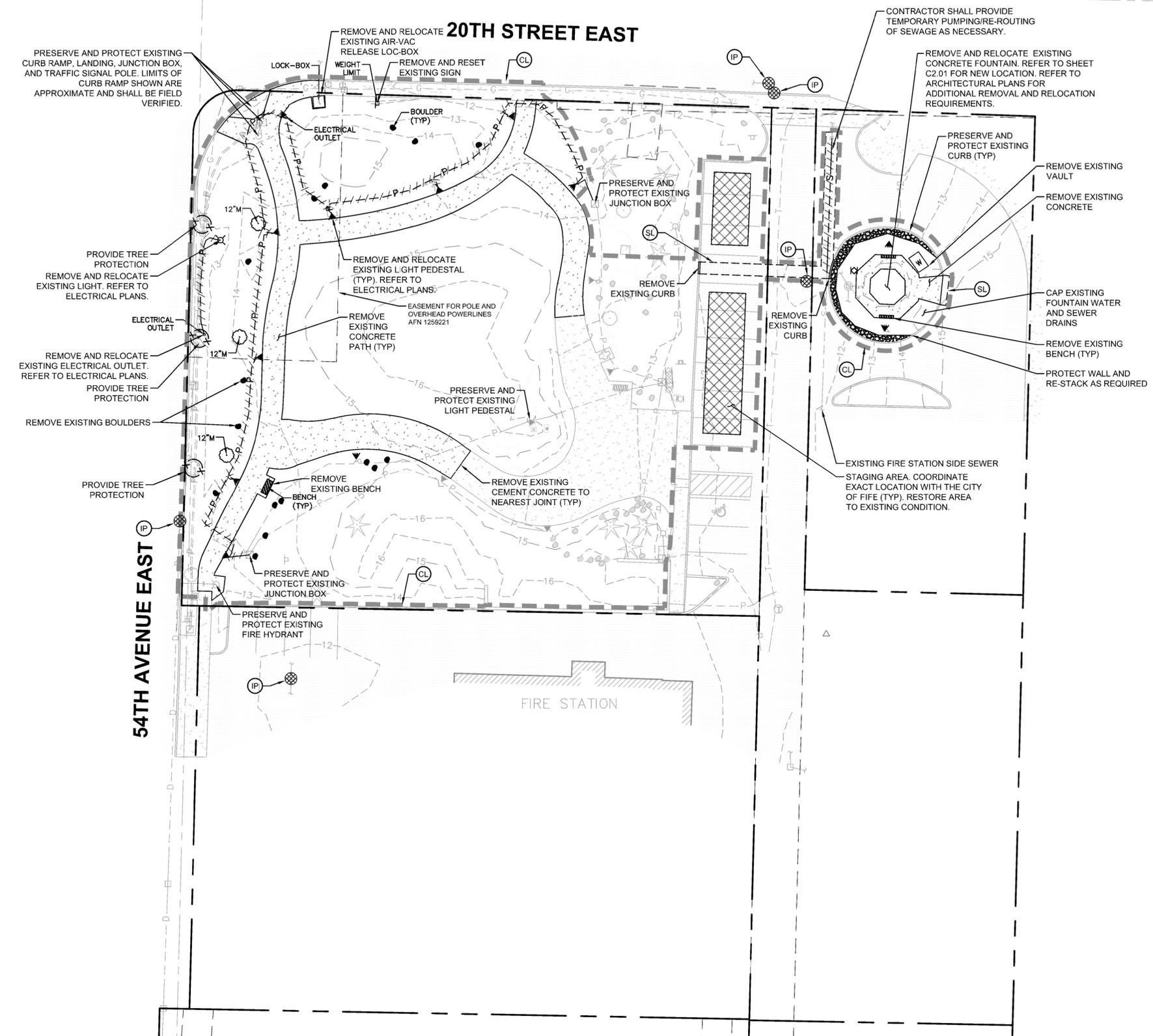
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Sheet Title  
**COVER SHEET**

Drawn By M. STEWART  
Checked By D. NASON

Sheet Number  
**C0.01**





**TESC LEGEND:**

	INLET PROTECTION	
	REMOVE EXISTING UTILITY	
	REMOVE EXISTING CONCRETE	
	REMOVE EXISTING ASPHALT	
	CONSTRUCTION ENTRANCE	
	REMOVE EXISTING WALL	
	REMOVE EXISTING TREE	
	SILT FENCE	
	CLEARING/PROJECT LIMITS	
	SAWCUT LINE	
	REMOVE AND RELOCATED EXISTING BOULDER - REFER TO LANDSCAPE PLANS FOR NEW LOCATION	
	REMOVE AND RELOCATE EXISTING LIGHT PEDESTAL - REFER TO ELECTRICAL PLANS	
	STAGING AREA	

**NOTES:**

1. CONTRACTOR SHALL MAINTAIN ACCESS FOR FIRE DEPARTMENT AT ALL TIMES. COORDINATE WITH CITY OF FIFE AND FIRE DEPARTMENT AS NECESSARY.

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Sheet Title  
**TESC AND DEMOLITION PLAN**

Drawn By  
 M. STEWART

Checked By  
 D. NASON

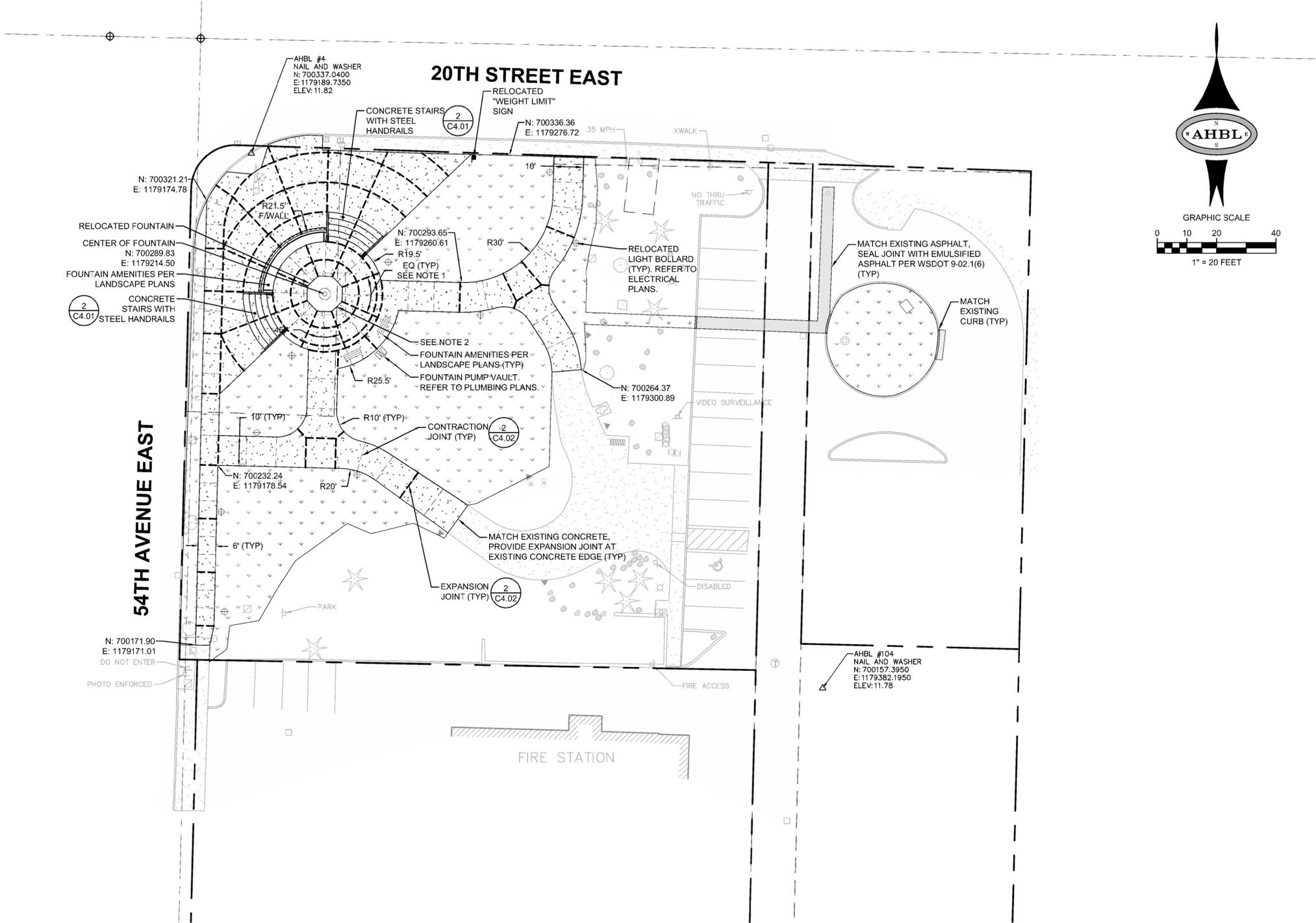
Sheet Number



Know what's below.  
 Call before you dig.

**C1.01**

Sheet Number 3 of 25  
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**LEGEND:**

	CEMENT CONCRETE SIDEWALK (1) C4.02
	LANDSCAPING (REFER TO LANDSCAPE PLANS)
	ASPHALT PAVEMENT - STANDARD DUTY (3) C4.02
	VERTICAL CURB (4) C4.02
	EXPANSION JOINT (2) C4.02
	CONTRACTION JOINT (2) C4.02
	ROCKERY (REFER TO LANDSCAPE PLANS)
	SIGN

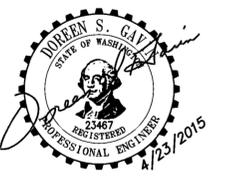
**NOTES:**

1. CEMENT CONCRETE EXPANSION JOINTS SHALL BE LOCATED AT EACH CORNER OF THE RELOCATED FOUNTAIN AND SHALL EXTEND OUTWARD IN A RADIAL DIRECTION. THE ANGLE FORMED BY EACH EXPANSION JOINT SHALL BE EQUAL.
2. ORIENT RELOCATED FOUNTAIN SUCH THAT EXISTING MECHANICAL CONNECTIONS ARE DIRECTED TOWARDS PROPOSED MECHANICAL SERVICES. REFER TO ARCHITECTURAL PLANS FOR EXACT ORIENTATION.

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**CITY OF FIFE**  
 FOUNTAIN PLAZA

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Sheet Title  
**HORIZONTAL CONTROL AND SURFACING PLAN**

Drawn By  
 M. STEWART

Checked By  
 D. NASON

Sheet Number  
**C2.01**





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Project Title

CITY OF FIFE  
FOUNTAIN PLAZA



Project Numbers

2012 - 008  
AHBL 20120211

Issue & Revision Dates

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Sheet Title

STORM  
DRAINAGE AND  
GRADING PLAN

Drawn By M. STEWART Checked By D. NASON

Sheet Number

C3.01

Sheet Number 5 of 25  
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LEGEND:

- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
- D STORM DRAINAGE LINE
- FD FLAT DRAIN LINE
- RD ROOF DRAIN
- SANITARY SEWER CLEANOUT
- S SANITARY SEWER LINE
- W WATER METER
- W WATER LINE
- XXX PROPOSED MAJOR CONTOUR
- XXX PROPOSED MINOR CONTOUR
- XXX EXISTING MAJOR CONTOUR
- XXX EXISTING MINOR CONTOUR



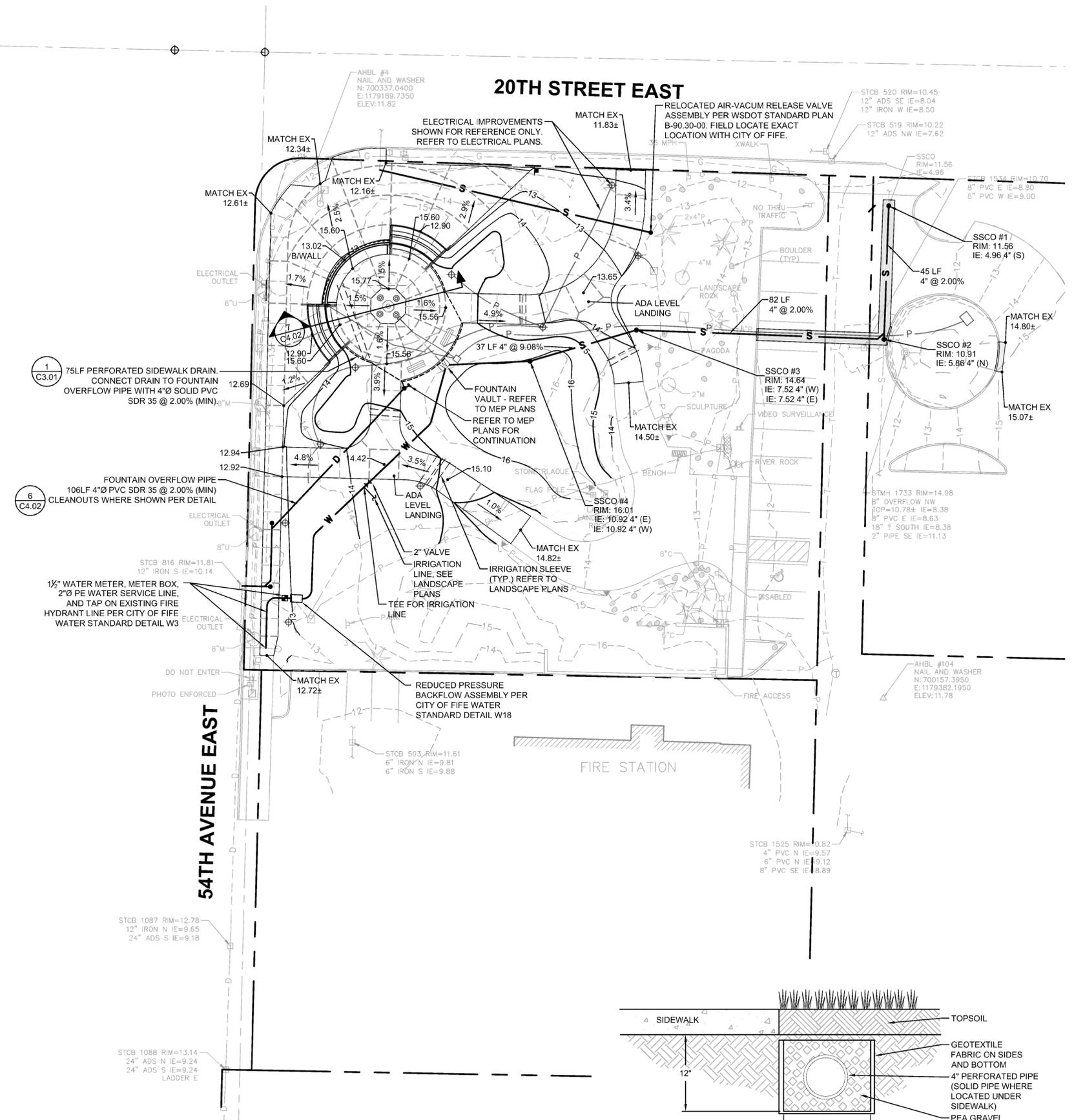
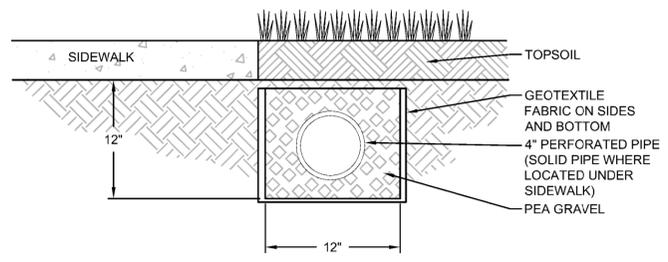
GENERAL STORMWATER NOTES

1. ALL METHODS AND MATERIALS SHALL MEET CITY OF FIFE DESIGN STANDARDS AND STANDARD DETAILS, AND THE 2005 DEPT. OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, UNLESS OTHERWISE APPROVED.
2. CONTRACTOR SHALL CONTACT UTILITY PURVEYORS PRIOR TO CONSTRUCTION TO LOCATE UTILITIES. CONTRACTOR SHALL POTHOLE AND VERIFY CONDITION, LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS. NOTIFY ENGINEER IF PROPOSED IMPROVEMENTS CANNOT BE CONSTRUCTED AS SHOWN.
3. A COPY OF THE APPROVED STORMWATER PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. TEMPORARY EXCAVATIONS SHOULD BE DONE IN ACCORDANCE WITH THE OSHA REGULATIONS.
5. PROVIDE SEDIMENT PROTECTION AT ALL DRAINAGE COLLECTING STRUCTURES AS THEY ARE INSTALLED. SEDIMENT PROTECTION SHALL REMAIN IN PLACE UNTIL SITE IS STABILIZED AND STABILIZATION IS APPROVED BY THE CITY OF FIFE.
6. PROVIDE PIPE BEDDING AND BACKFILL PER SPECIFICATIONS.
7. PROVIDE MINIMUM VERTICAL AND HORIZONTAL SEPARATION AS REQUIRED BETWEEN STORM AND OTHER UTILITIES AS REQUIRED BY THE CITY.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED GRADES BEFORE COMMENCING WORK.
9. THE CONTRACTOR SHALL HAVE A PROJECT SURVEYOR PROVIDE ALL SITE LAYOUT AND ELEVATION CONTROL.
10. ADJUST LIDS OF UTILITY STRUCTURES WITHIN WORK LIMITS TO FINISH GRADE.
11. CONTRACTOR TO PATCH CATCH BASINS WHERE PIPES ARE REMOVED IN ACCORDANCE WITH WSDOT STANDARDS.

CITY OF FIFE GENERAL WATER NOTES

1. FIRE SPRINKLER SYSTEMS MAY ONLY BE INSTALLED BY CONTRACTORS LICENSED TO DO SO.
2. ALL WATER MAINS STUBBED FOR FUTURE CONNECTION OR EXTENSION SHALL HAVE A 4" X 4" MARKER POST INSTALLED AT THE CAP OR PLUG TO DENOTE ITS EXACT LOCATION, WHEN REQUIRED BY THE INSPECTOR. THE POST SHALL BE PAINTED BLUE AND SHALL HAVE THE WORD "STUB" STENCILED IN BLACK PAINT UPON IT. THE POST SHALL EXTEND 3' FEET ABOVE FINISHED GRADE.
3. GROUNDING OF CUSTOMER ELECTRICITY TO WATER SERVICE LINES SHALL NOT BE PERMITTED.
4. NEW WATER SERVICES SHALL HAVE METERS INSTALLED BEHIND THE SIDEWALK, AT THE RIGHT-OF-WAY LINES, WHERE THERE ARE MULTIPLE METERS SERVING A SINGLE PROPERTY, METERS SHALL BE LOCATED ADJACENT TO ONE ANOTHER, UNLESS WRITTEN PERMISSION IS RECEIVED FROM THE WATER DIVISION. NEW HOUSING DEVELOPMENTS SHALL HAVE METERS LOCATED ADJACENT TO ONE ANOTHER WHENEVER POSSIBLE, SUCH THAT TWO ADJACENT HOMES WOULD HAVE THEIR METERS NEXT TO EACH OTHER, ONE ON EACH SIDE OF A COMMON LOT LINE. RESIDENTIAL METERS SHARING A COMMON LOT LINE SHALL BE WITHIN 36" OF ONE ANOTHER, MEASURED CENTERLINE OF METER TO CENTERLINE OF METER. A 2" PVC CONDUIT SHALL SPAN BETWEEN ADJACENT METERS EXTENDING A MIN. OF 1" INSIDE METER BOXES.
5. ALL WATER METERS SHALL HAVE SEPARATE SERVICE TAPS, AND SHALL NOT BE CONNECTED TO DEAD-END WATER MAINS WHERE LOOPING MAINS ARE AVAILABLE, OR MAINS DIRECTLY SUPPLYING FIRE SYSTEMS WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER.
6. WATER SERVICE 2" OR SMALLER SHALL NOT BE TAPPED ONTO NEW MAINS UNTIL PURITY AND PRESSURE TESTING IS PASSED
7. THE USE OF DEDUCT METERS SHALL NOT BE ALLOWED, WITHOUT WRITTEN PERMISSION OF THE WATER DIVISION. ANY DEDUCT METERS PERMITTED MUST BE OF THE SAME MANUFACTURE AND TYPE AS NORMALLY REQUIRED BY THE CITY. MAINTENANCE AND REPAIR, OR REPLACEMENT OF THE DEDUCT METER SHALL BE AT THE CUSTOMERS EXPENSE. THE CITY MAY REQUIRE THE METER BE TESTED AT A SCHEDULE WHICH WOULD BE CONSISTENT WITH AWWA RECOMMENDATIONS, AND ANY EXPENSES RELATED TO THAT TESTING WOULD BE THE CUSTOMERS RESPONSIBILITY.
8. IT IS THE CUSTOMERS RESPONSIBILITY TO NOTIFY THE CITY IN ADVANCE WHEN REPLACING A DEDUCT METER, SO THAT A FINAL READING CAN BE TAKEN TO ASSURE PROPER CREDIT FOR USAGE.
9. ALL COMMERCIAL WATER SERVICE INSTALLATIONS SHALL BE ACCOMPLISHED THROUGH THE USE OF A QUALIFIED CONTRACTOR. CITY PERSONNEL WILL ONLY INSTALL SERVICES OF A RESIDENTIAL NATURE. A RESIDENTIAL CUSTOMER MAY STILL ELECT TO HAVE A QUALIFIED CONTRACTOR INSTALL A RESIDENTIAL METER SERVICE.
10. THE CITY, AT ITS SOLE DISCRETION, MAY REQUIRE THE INSTALLATION OF WATER QUALITY SAMPLING STATIONS BY DEVELOPERS EXTENDING OR REPLACING WATER MAINS AT POINTS DEEMED APPROPRIATE BY THE CITY. SAMPLING STATIONS SHALL BE THE ECLIPSE #88 SAMPLING STATION AS MANUFACTURED BY KUPFERLE FOUNDRY COMPANY. SEE DETAIL FOR SPECIFICATIONS AND INSTALLATION REQUIREMENTS.
11. VERTICAL THRUST CONTROL OF WATER MAINS SHALL BE ACCOMPLISHED THROUGH USE OF MECHANICAL RESTRAINTS AND MECHANICALLY JOINTED PIPE, PROPERLY DESIGNED BY A LICENSED ENGINEER. MECHANICAL RESTRAINTS SHALL BE MEGALUG RESTRAINTS AS MANUFACTURED BY EBAA IRON INC., OR APPROVED EQUAL. ALL MECHANICALLY RESTRAINED JOINTS SHALL BE SHOWN ON AS-BUILT PLANS.

1 PERFORATED SIDEWALK DRAIN  
NOT TO SCALE

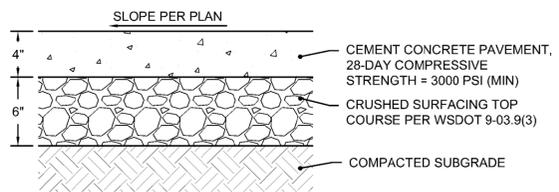






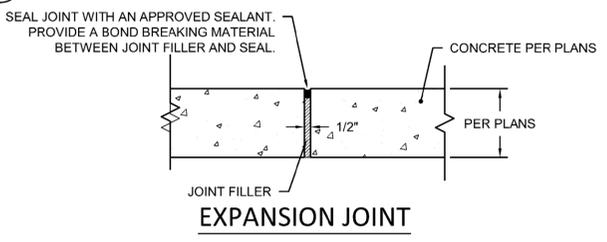
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NOTES AND DETAILS

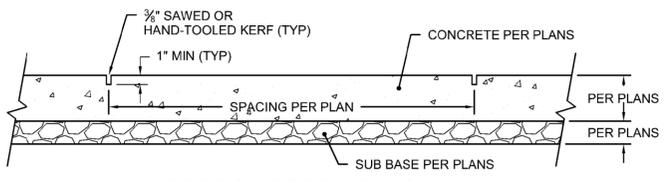


- NOTES:  
1. DEPTHS INDICATED ARE COMPACTED THICKNESS.  
2. ALL BASE COURSES (INCLUDING CRUSHED SURFACING TOP COURSE AND SUBGRADE) SHALL BE COMPACTED TO A FIRM AND UNYIELDING STATE AND SHALL BE APPROVED BY THE CITY ENGINEER.  
3. PROVIDE JOINTS PER DETAIL 2/C4.02.

1 CEMENT CONCRETE SIDEWALK  
NOT TO SCALE



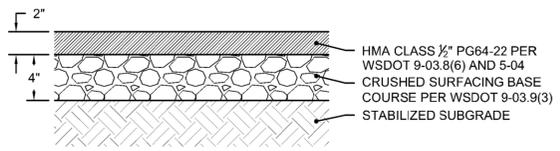
EXPANSION JOINT



CONTRACTION JOINT

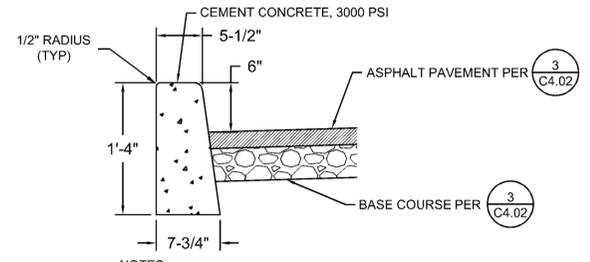
- NOTES:  
1. JOINT LAYOUT AND SPACING PER PLAN.  
2. PROVIDE EXPANSION JOINT WHERE PAVEMENT ADJOINS BUILDING, CURB, OR OTHER STRUCTURE.

2 CEMENT CONCRETE JOINTS  
NOT TO SCALE



- NOTES:  
1. DEPTHS INDICATED ARE COMPACTED THICKNESS.  
2. ALL ASPHALT BASE COURSES (INCLUDING SUBGRADE) SHALL BE COMPACTED TO A FIRM AND UNYIELDING STATE AND SHALL BE APPROVED BY THE CITY ENGINEER.  
3. COORDINATE HMA COMPACTION REQUIREMENTS WITH CITY ENGINEER.

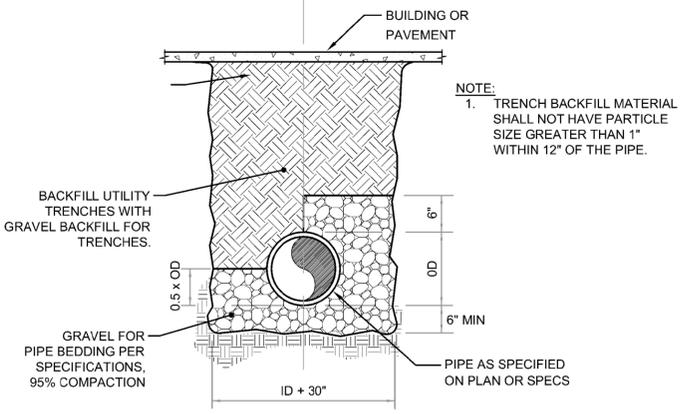
3 ASPHALT PAVEMENT - STANDARD DUTY  
NOT TO SCALE



- NOTES:  
1. FACE OF CURB SHALL BE TACK COATED WITH AN ASPHALT EMULSION PER WSDOT 9-02.1(6) PRIOR TO PLACEMENT OF ASPHALT PAVEMENT.

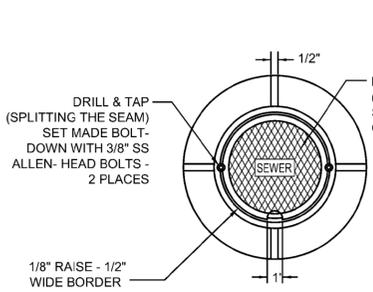
4 VERTICAL CURB  
NOT TO SCALE

RIGID (DI, CONC) FLEXIBLE (CPEP, CMP, PVC)

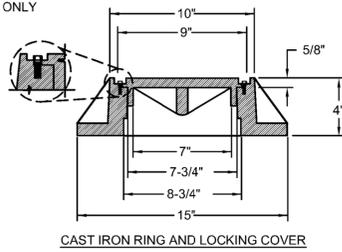


- NOTE:  
1. TRENCH BACKFILL MATERIAL SHALL NOT HAVE PARTICLE SIZE GREATER THAN 1" WITHIN 12" OF THE PIPE.

5 PIPE BEDDING AND TRENCH BACKFILL  
NOT TO SCALE

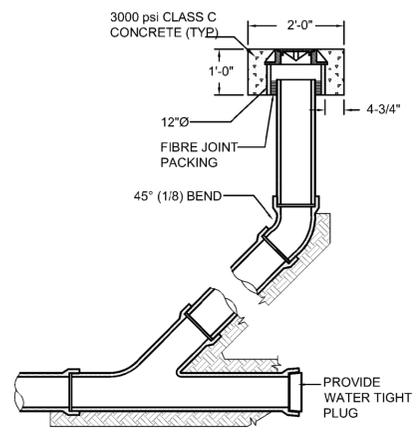


- NOTES:  
1. PIPE MATERIAL PER PLAN.  
2. PIPE DIAMETER PER PLAN.  
3. ABS TO PVC USE PVC ADAPTOR OR FERNCO W/STAINLESS STEEL CLAMPS OR APPROVED EQUAL.  
4. PVC TO CAST IRON OR CONCRETE USE FERNCO W/STAINLESS STEEL CLAMPS OR APPROVED EQUAL.

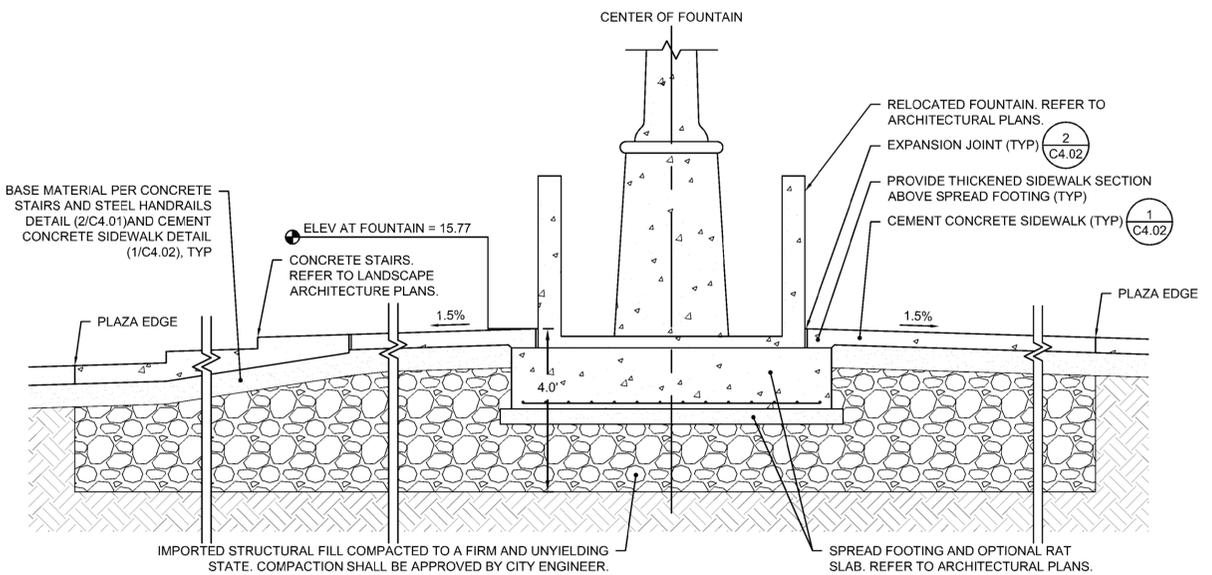


CAST IRON RING AND LOCKING COVER

6 CLEANOUT  
NOT TO SCALE



PROVIDE WATER TIGHT PLUG



7 FOUNTAIN SECTION  
NOT TO SCALE



Know what's below.  
Call before you dig.

C4.02

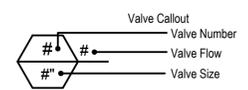


**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	RAIN BIRD 1806 SHRUB SPRAY 15 STRIP SERIES 6.0" POP-UP, 1/2" NPT FEMALE THREADED SIDE & BOTTOM INLETS	30	7 L2.01
	RAIN BIRD 1806 SHRUB SPRAY 10 SERIES MPR 6.0" POP-UP, 1/2" NPT FEMALE THREADED SIDE & BOTTOM INLETS	30	7 L2.01
	RAIN BIRD 1806 SHRUB SPRAY 12 SERIES MPR 6.0" POP-UP, 1/2" NPT FEMALE THREADED SIDE & BOTTOM INLETS	30	7 L2.01
	RAIN BIRD 1806 SHRUB SPRAY 15 SERIES MPR 6.0" POP-UP, 1/2" NPT FEMALE THREADED SIDE & BOTTOM INLETS	30	7 L2.01
	HUNTER I-20-04-SS ROTOR, ADJUSTABLE & FULL CIRCLE 4.0" POP-UP, SS RISER, DRAIN CHECK VALVE, STANDARD NOZZLE	45 31'	6 L2.01
	HUNTER I-20-04-SS ROTOR, ADJUSTABLE & FULL CIRCLE 4.0" POP-UP, SS RISER, DRAIN CHECK VALVE, STANDARD NOZZLE	45 38'	6 L2.01
	HUNTER I-20-04-SS ROTOR, ADJUSTABLE & FULL CIRCLE 4.0" POP-UP, SS RISER, DRAIN CHECK VALVE, STANDARD NOZZLE	45 40'	6 L2.01
	HUNTER I-20-04-SR-SS ROTOR, ADJUSTABLE & FULL CIRCLE 4.0" POP-UP, SS & RISER, DRAIN CHECK VALVE, SHORT RADIUS NOZZLE	50 18'	6 L2.01
	HUNTER I-20-04-SR-SS ROTOR, ADJUSTABLE & FULL CIRCLE 4.0" POP-UP, SS & RISER, DRAIN CHECK VALVE, SHORT RADIUS NOZZLE	50 25'	6 L2.01
	HUNTER I-20-04-SR-SS ROTOR, ADJUSTABLE & FULL CIRCLE 4.0" POP-UP, SS & RISER, DRAIN CHECK VALVE, SHORT RADIUS NOZZLE	50 18'	6 L2.01
	HUNTER I-20-04-SR-SS ROTOR, ADJUSTABLE & FULL CIRCLE 4.0" POP-UP, SS & RISER, DRAIN CHECK VALVE, SHORT RADIUS NOZZLE	50 25'	6 L2.01
	HUNTER I-20-04-SR-SS ROTOR, ADJUSTABLE & FULL CIRCLE 4.0" POP-UP, SS & RISER, DRAIN CHECK VALVE, SHORT RADIUS NOZZLE	50 18'	6 L2.01
	HUNTER I-20-04-SR-SS ROTOR, ADJUSTABLE & FULL CIRCLE 4.0" POP-UP, SS & RISER, DRAIN CHECK VALVE, SHORT RADIUS NOZZLE	50 25'	6 L2.01
	REMOTE CONTROL VALVE		3 L2.01
	REMOTE CONTROL VALVE WITH PRS		4 L2.01
	QUICK COUPLER VALVE		2 L2.01
	LINE SIZE GATE VALVE		1 L2.01
	EXISTING IRRIGATION CONTROLLER		5 L2.01
	POINT OF CONNECTION: NEW 2" SCH. 40 PVC MAINLINE TIE INTO TEE ON WATER LINE (SEE CIVIL)		5 L2.01
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 LATERAL PIPE SIZE 3/4" UNLESS OTHERWISE NOTED ON PLAN		5 L2.01
	IRRIGATION MAINLINE: PVC SCHEDULE 40		5 L2.01
	PIPE SLEEVE: PVC SCHEDULE 40 SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 12 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION		5 L2.01

**VALVE SCHEDULE**

NUMBER	MODEL	SIZE	TYPE	GPM
1	REMOTE CONTROL VALVE	1-1/2"	TURF ROTOR	29.25
2	REMOTE CONTROL VALVE WITH PRS	1"	SHRUB SPRAY	19.63
3	REMOTE CONTROL VALVE WITH PRS	1-1/2"	SHRUB SPRAY	36.32
4	REMOTE CONTROL VALVE WITH PRS	1"	TURF ROTOR	19.00
5	REMOTE CONTROL VALVE	1-1/2"	TURF ROTOR	27.00
6	REMOTE CONTROL VALVE	1-1/2"	TURF ROTOR	39.50

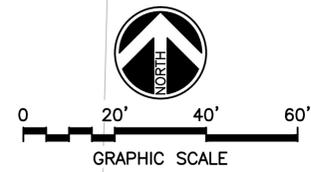
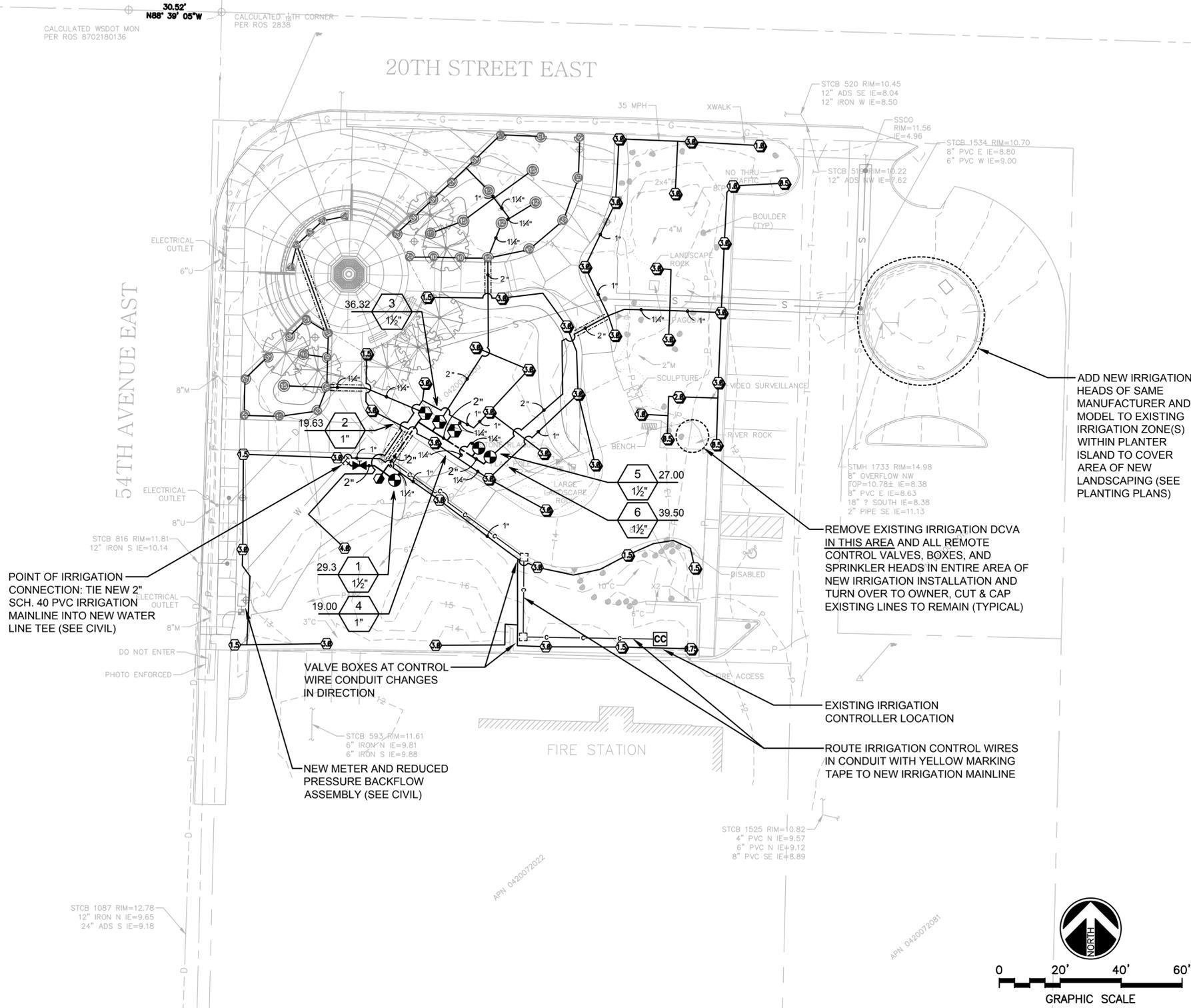


**IRRIGATION NOTES**

- PREPARATION NOTES**
- REFER TO SECTION 02810 - IRRIGATION SYSTEM FOR COMPLETE SPECIFICATIONS.
  - CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTACT CALL BEFORE YOU DIG AT (800)424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN PUBLIC RIGHT-OF-WAY. RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
  - ALL EQUIPMENT TO BE INSTALLED PER THE STATE AND THE CITY OF FIFE WATER DEPARTMENT SPECIFICATIONS. INSTALLER TO BE RESPONSIBLE FOR ALL PERMITS IF REQUIRED.
  - OPERATE THE EXISTING IRRIGATION SYSTEM IN THE PRESENCE OF THE OWNER PRIOR TO BEGINNING ANY WORK** (FAILURE TO COMPLY SHALL CONSTITUTE ACCEPTANCE OF THE EXISTING CONDITIONS BY THE CONTRACTOR). ANY EXISTING IRRIGATION EQUIPMENT OR HEADS TO REMAIN THAT ARE NOT FUNCTIONING PROPERLY WILL BE REPAIRED OR REPLACED BY THE OWNER.
  - IRRIGATION SYSTEM ENGINEERED DESIGN IS BASED ON A NEW 1.5" WATER METER WITH 90.0 LBS STATIC WATER PRESSURE (SEE CIVIL FOR METER). **VERIFY STATIC PRESSURE PRIOR TO BEGINNING ANY WORK.**
- INSTALLATION NOTES**
- ADJUST PRS CONTROL VALVES TO THE CORRECT OPERATING PRESSURE WITH THE PRS REGULATOR.
  - INSTALL SLEEVES WHERE PVC MAINS, PVC LATERALS, AND/OR 24V WIRES PASS BENEATH PAVED AREAS, EVEN IF NOT SHOWN ON PLAN.
  - ADJUST LATERAL LOCATIONS AS NEEDED TO AVOID EXISTING AND PROPOSED STRUCTURES, CURBS, POLES, UTILITIES, PIPING, ETC. AND TO MINIMIZE IMPACTS WITHIN DRIPLINE OF EXISTING TREES (HAND DIGGING ONLY WITHIN DRIPLINE). PIPING SHOWN ON IRRIGATION PLAN IS DIAGRAMMATIC.
  - SPRAY NOZZLE SIZES AND ARCS INDICATED IN LEGEND (F=360 DEGREES, TQ=270, TT=240, H=180, T=120, Q=90, BLANK=ADJUSTABLE). ADJUST PATTERN AND RADII AS REQUIRED TO OBTAIN EVEN COVERAGE.
  - ROTOR NOZZLE SIZES ARE INDICATED IN LEGEND (NOTE: DO NOT USE PART CIRCLE ADJUSTABLE ROTORS FOR FULL CIRCLE HEADS).
  - FROM EXISTING CONTROLLER LOCATION DRAW ONE (1) COMMON WHITE WIRE, SIX (6) RED SIGNAL WIRES, AND TWO (2) SPARE YELLOW WIRES EACH TO VALVE NO. 1 AND 2. (IRRIGATION CONTROL WIRES SHALL BE RUN WITHIN CONDUIT WHERE NOT FOLLOWING IRRIGATION MAINLINE).

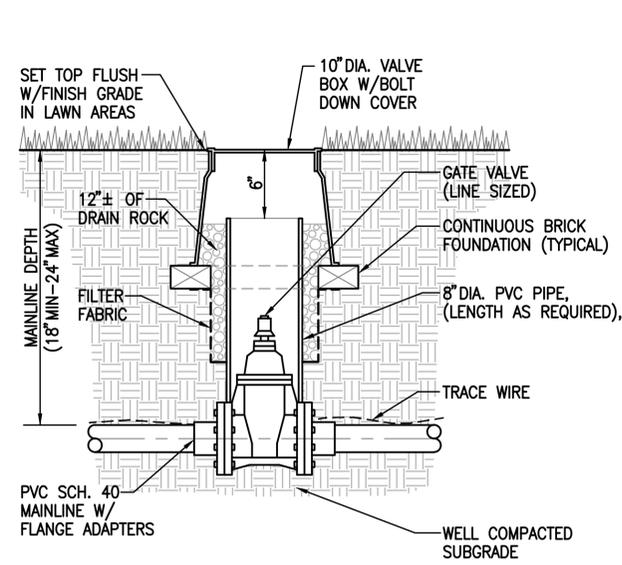
**IRRIGATION LAYOUT & STAKING**

FIELD LOCATING AND STAKING OF IRRIGATION SYSTEM COMPONENTS SHALL BE AS SHOWN ON DRAWINGS AND BY COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED 5 DAYS AFTER RECEIVING WRITTEN REQUEST FOLLOWING THE NOTICE OF AWARD. COORDINATES DERIVED FROM THE ELECTRONIC FILES OF THESE SCHEMATIC PLANS ARE APPROXIMATE LOCATIONS THAT MAY BE USED ONLY FOR PRELIMINARY STAKING OF IRRIGATION SYSTEM COMPONENTS (ACTUAL COMPONENT LOCATIONS SHALL BE PER DRAWINGS, DETAILS, SPECIFICATIONS AND ANY NECESSARY FIELD MODIFICATIONS).

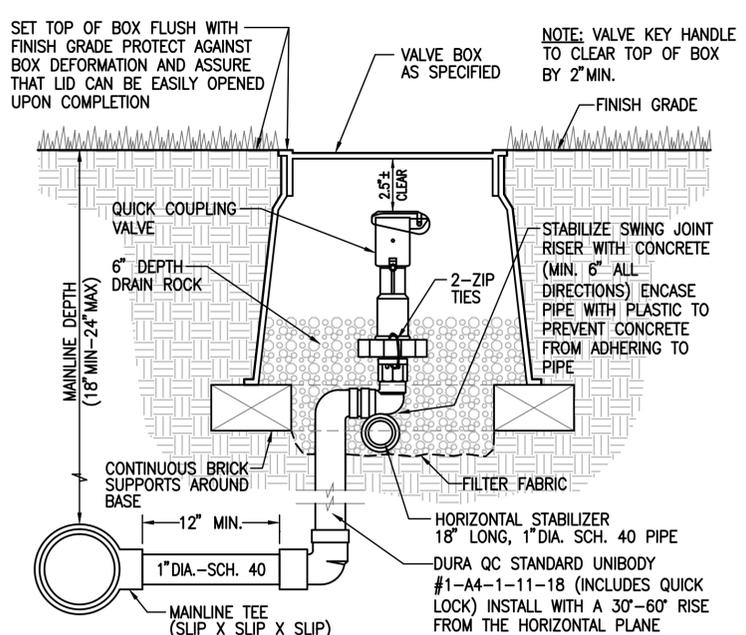




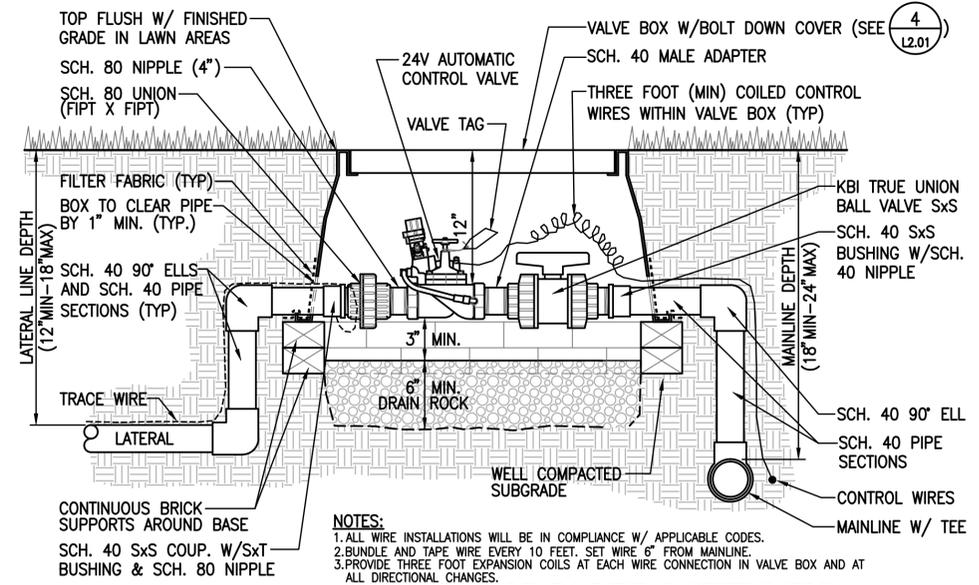
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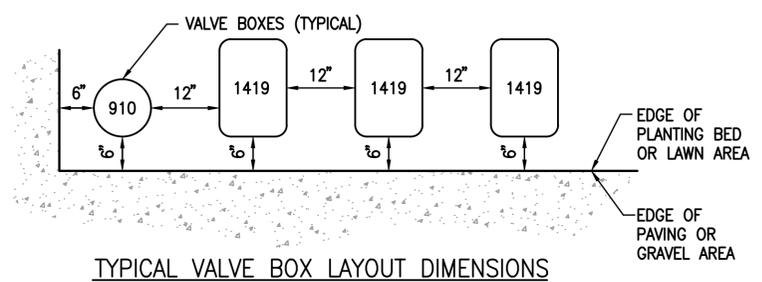
**1 SYSTEM MAINLINE GATE VALVE**  
 L1.01 1-1/2" = 1'-0" ON FULL SIZE (34"x22")



**2 QUICK COUPLING VALVE**  
 L1.01 3" = 1'-0" ON FULL SIZE (34"x22")



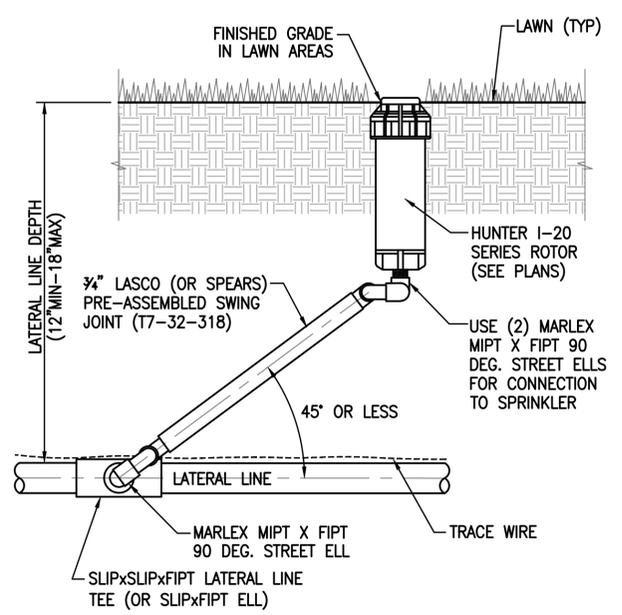
**3 AUTOMATIC CONTROL VALVE**  
 L1.01 1-1/2" = 1'-0" ON FULL SIZE (34"x22")



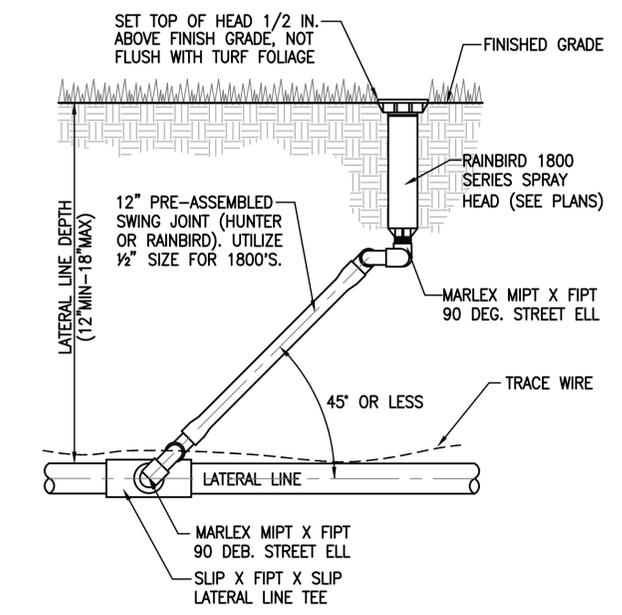
TYPICAL VALVE BOX LAYOUT DIMENSIONS

- VALVE BOX LAYOUT NOTES:**
1. CENTER VALVE BOX OVER VALVE TO FACILITATE REMOVAL AND SERVICING.
  2. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
  3. AVOID OVER COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOXES.
  4. UNIFORMLY ADJUST DISTANCE OF VALVE BOXES OFF PAVEMENT TO PREVENT PIPING FROM RUNNING UNDERNEATH CONCRETE OR PAVING.

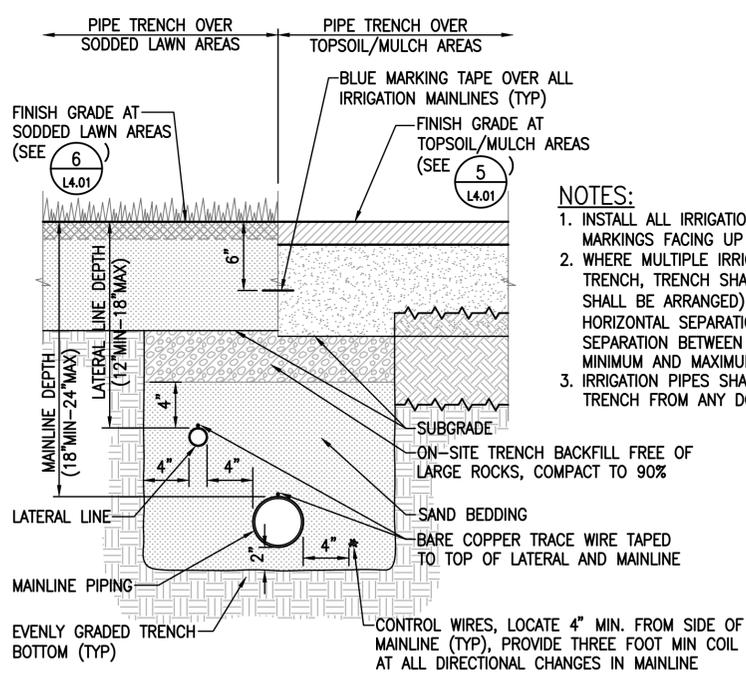
**4 VALVE BOX INSTALLATION LAYOUT NOTES & DETAILS**  
 L1.01 3/4" = 1'-0" ON FULL SIZE (34"x22")



**6 TURF ROTOR-3/4" SWING JOINT**  
 L1.01 2" = 1'-0" ON FULL SIZE (34"x22")



**7 SPRAY HEAD-1/2" SWING JOINT**  
 L1.01 2" = 1'-0" ON FULL SIZE (34"x22")



**5 PIPING TRENCH DETAIL**  
 L1.01 1-1/2" = 1'-0" ON FULL SIZE (34"x22")

- NOTES:**
1. INSTALL ALL IRRIGATION PIPING WITH MANUFACTURER'S MARKINGS FACING UP (12 O'CLOCK).
  2. WHERE MULTIPLE IRRIGATION PIPES SHARE A COMMON TRENCH, TRENCH SHALL BE SUFFICIENTLY WIDE (OR PIPING SHALL BE ARRANGED) TO ALLOW 4" MINIMUM OF HORIZONTAL SEPARATION AND 6" MINIMUM OF VERTICAL SEPARATION BETWEEN PIPING, WHILE MAINTAINING SPECIFIED MINIMUM AND MAXIMUM COVER OVER PIPING.
  3. IRRIGATION PIPES SHALL BE LOCATED IN A SEPARATE TRENCH FROM ANY DOMESTIC WATER PIPING.



PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	DETAIL
	PRU AUT	7	PRUNUS SUBHIRTELLA 'AUTUMNALIS' / AUTUMNALIS FLOWERING HIGAN CHERRY B&B, MATCHED SIZE AND FORM	24"DIA.(MIN.)	2" CAL	10-12' H	
SHRUB AREAS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	SPACING	DETAIL	
	ACH COR	576	ACHILLEA X 'CORONATION GOLD' / HYBRID YARROW	1 GAL	12" o.c.		
	CAL HEA	519	CALLUNA VULGARIS / HEATHER	2 GAL	18" o.c.		
	HEB BLM	324	HEBE X 'BLUE MIST' / BLUE MIST HEBE	1 GAL	12" o.c.		
	SPI GOL	344	SPIRAEA X BUMALDA 'GOLDFLAME' / GOLDFLAME SPIREA	2 GAL	18" o.c.		
RESTORED AREAS	CODE	QTY	DESCRIPTION	CONT	DETAIL		
	MUL TOP	2,649 SF	INSTALL MULCH AND TOPSOIL AT AREAS DISTURBED BY CONSTRUCTION. QUANTITY SHOWN IS THE MINIMUM REQUIRED. IF WORK CAUSES DISTURBANCE BEYOND THIS QUANTITY ALL DISTURBED AREAS SHALL BE RESTORED.	N/A			
SOD	CODE	QTY	DESCRIPTION	CONT	DETAIL		
	TUR PER	6,827 SF	TURF PERENNIAL RYEGRASS / SOD BLEND OVER SAND	SOD			



Project Title  
CITY OF FIFE  
City of Fife Fountain Plaza



Project Numbers  
2012 - 008

Issue & Revision Dates  
BID SET 30.04.2015



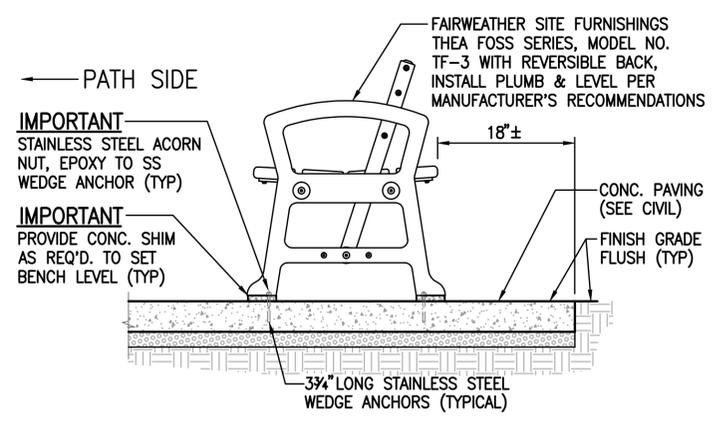
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Sheet Title  
LANDSCAPE  
PLANTING  
PLAN

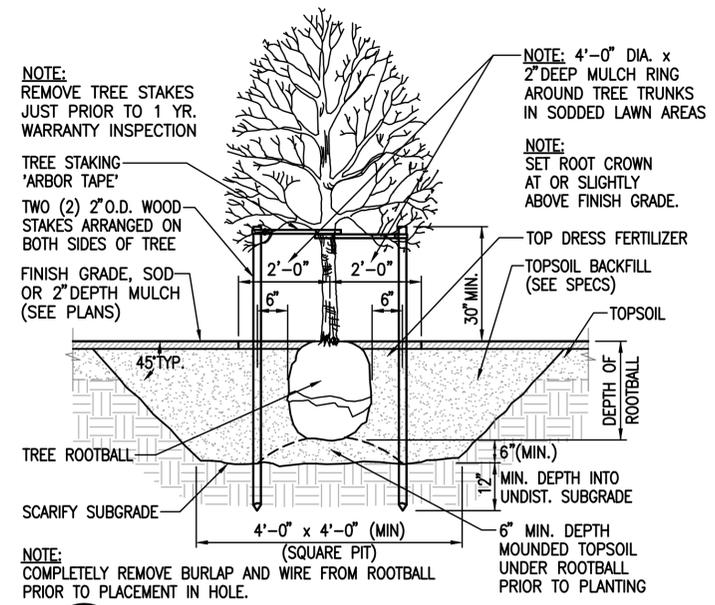
Drawn By S.JENSEN Checked By A.B.D.EES  
Sheet Number

L3.01

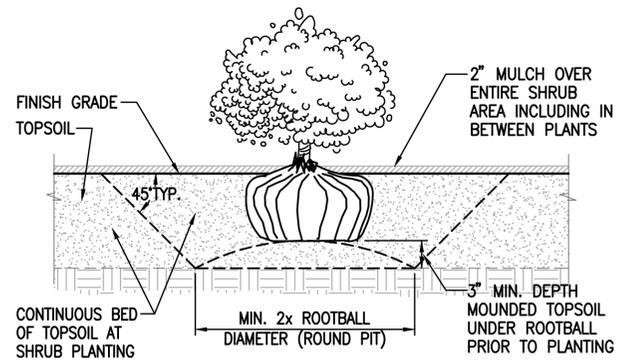
Sheet Number 10 of 25  
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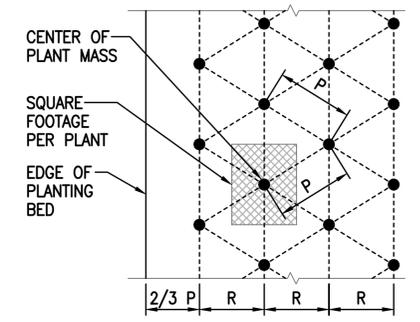
**1 BENCH ON CONCRETE SLAB DETAIL**  
 L3.01 1" = 1'-0" ON FULL SIZE (34"x22")



**2 DECIDUOUS TREE PLANTING/STAKING**  
 L3.01 1/2" = 1'-0" ON FULL SIZE (34"x22")



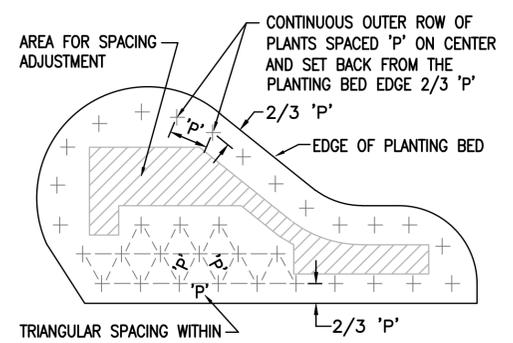
**3 SHRUB PLANTING**  
 L3.01 1/2" = 1'-0" ON FULL SIZE (34"x22")



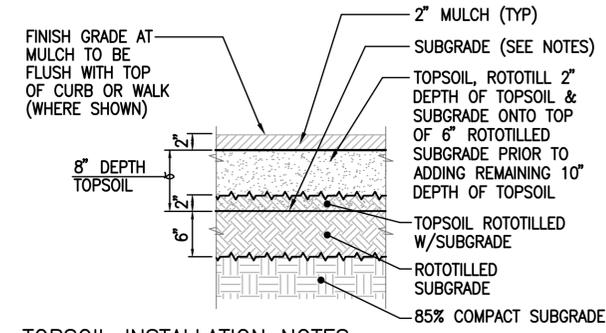
**TRIANGULAR PLANT SPACING**

TRIANGULAR PLANT SPACING = P	DIST. BETWEEN PLANT ROWS = R	SQUARE FOOTAGE AREA PER PLANT
1.000 (12")	0.866	0.866
1.500 (18")	1.299	1.949
2.000 (24")	1.732	3.464

**4 PLANT SPACING DETAIL**  
 L3.01 SCALE : N. T. S.



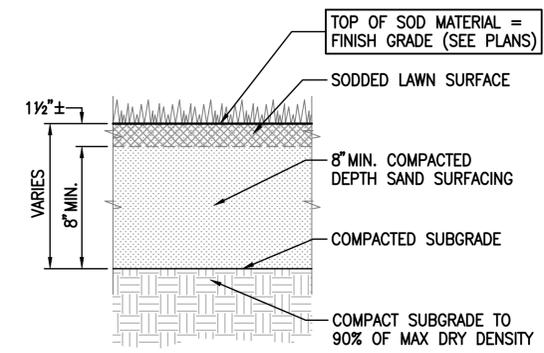
**5 TRIANGULAR SPACING WITHIN PLANTING BED**  
 SPECIFIED PLANT SPACING = 'P'  
 INDIVIDUAL PLANTS REPRESENTED AS: +  
**SAMPLE PLANTING BED**



**TOPSOIL INSTALLATION NOTES:**

- THIS DETAIL IS APPLICABLE AT ALL PLANTING BED AREAS SHOWN ON PLAN.
- COMPACT SUBGRADE & TOPSOIL TO 85% DENSITY IN ALL PLANTED AREAS. IF SUBGRADE DENSITY IS GREATER THAN 85% IN PLANTED AREAS CONTRACTOR SHALL ROTOTILL SUBGRADE TO A TWO FOOT DEPTH.
- PRIOR TO INSTALLATION OF TOPSOIL, REMOVE ALL DEBRIS INCLUDING CEMENT; CONSTRUCTION DEBRIS; QUARRY SPALLS; AND OTHER MATERIALS DELETERIOUS TO PLANT GROWTH. OBTAIN APPROVAL OF FINISH SUBGRADE PRIOR TO PLACING TOPSOIL.
- FINISH SUBGRADE SHALL BE SMOOTH, UNIFORM, AND FREE OF RUTS OR TRACKS.

**6 TOPSOIL INSTALLATION SECTION**  
 L3.01 1" = 1'-0" ON FULL SIZE (34"x22")



**7 SAND INSTALLATION SECTION**  
 L3.01 2" = 1'-0" ON FULL SIZE (34"x22")

Project Title  
**CITY OF FIFE**  
 City of Fife Fountain Plaza

Project Numbers  
 2012 - 008

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 BID SET 30.04.2015

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Sheet Title  
**LANDSCAPE PLANTING DETAILS**

Drawn By  
 S.JENSEN

Checked By  
 A.B.DEES

Sheet Number

Basin	Column	Existing Condition(s)	Task(s)
		<b>Through cracking at basin, see B2, B4, B11, B13</b>	<b>Stabilize prior to moving</b>
B1		Previous surface patching	General Cleaning
B2		Crack, through basin wall, from top to bottom	Cast Stone Crack Repairs
B3		Previous patch at former hole through basin	General Cleaning
B4		Crack, through basin wall, from top to bottom	Cast Stone Crack Repairs
B5		Contemporary pipe connection	Remove, reuse existing holes for new utilities, orient towards new pump vault
B6		Spalls along top edge of basin, typical along basin	General Cleaning
B7		Inner face of previous patch at crack through basin wall. Typical of interior conditions at B2 and B4.	No action
B8		Contemporary epoxy coating applied to inner face of basin	Re-coat in-kind
B9		Previous patch at former spall	No action
	C1	Weathering, general soiling, and light biological growth along top face of projecting moldings. Typical of all flat and sloped surfaces on column.	General Cleaning
	C2	Contemporary plaque commemorating fountain	Salvage for Owner use/storage, Cast Stone Crack Repairs as needed
	C3	Previous patching along top face of molding. Patch generally remains well adhered	General Cleaning
	C5	Light soiling and surface erosion from water flow from moldings and sloped recesses above	General Cleaning
	C6	Spall and exposed rebar at recess opening	Metal Coating
	C7	Exposed rebar at bracket side	Metal Coating
	C8	Spall above recess opening	Spall Repairs Partially Attached; Spall Repairs Detached
	C9	Exposed metal reinforcing within concrete	Metal Coating
B10		Surface soiling along outer sides of basin, typical on all sides	General Cleaning
B11		Crack, through basin wall, from top to bottom	Cast Stone Crack Repairs
B12		Contemporary concrete sidewalk from previous fountain relocation	Remove as part of fountain relocation
B13		Crack, through basin wall, from top to bottom	Cast Stone Crack Repairs
B14		Previous patch of former crack along top edge of basin	General Cleaning
	C10	Electrical control box, currently empty and rusted. Conduit hole filled in.	Metal Electrical Box Coating
	C11	Crack along top of molding at base of column.	Cast Stone Crack Repairs
	C12	Biological growth along upper portions of column.	General Cleaning
B15		Commemorative plaque for fountain.	Salvage for Owner use/storage, Cast Stone Crack Repairs as needed
B16		Contemporary bench fronting the fountain.	Salvage for Owner use/storage
	C4	Original cut out and patch location in column of unknown role.	General Cleaning
	C13	Crack in column base.	Cast Stone Crack Repairs
B17		Contemporary piping within the basin.	Remove
B18		Patch along top edge of basin perimeter.	General Cleaning
	C14	Copper drip flashing along inner face of upper column portion.	No action
	C15	Metal light connections, rusted.	Metal Electrical Box Coating

## Work Phasing:

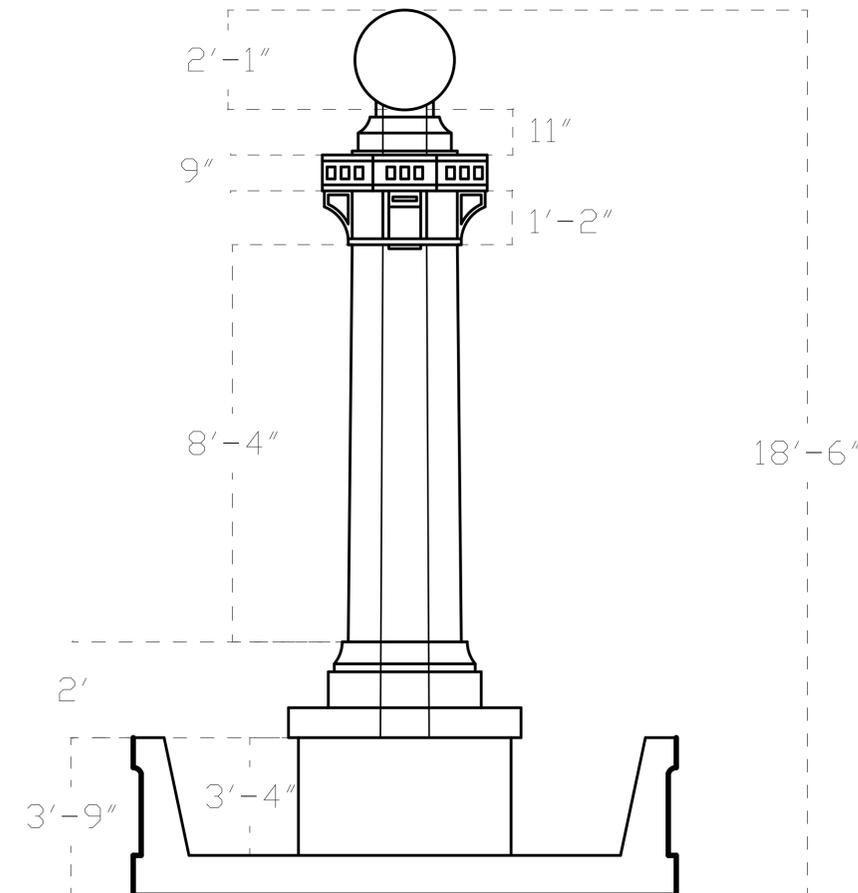
The following outlines a recommended phasing of general tasks to allow work to build on previous steps.

1. Disconnect existing utilities and remove surrounding paving, and prepare new foundation
2. Stabilize the base and column
3. Relocate, orient, level, and anchor fountain to new foundation (existing utility holes must align with the pump vault)
4. Clean and repair cast stone and metal fountain parts per task catalog
5. Coat basin interior
6. Install fountain features and connect utilities
7. Commission fountain

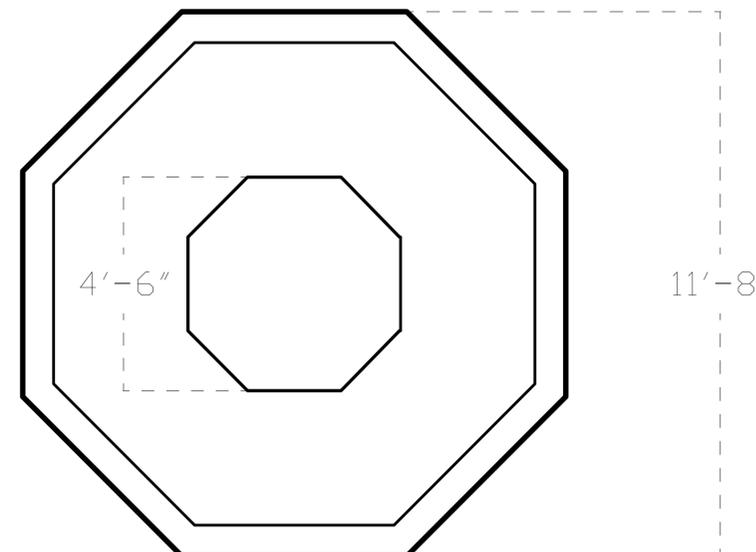
## Task Catalog:

The table at left describes existing conditions and tasks associated with those conditions. The Basin and Column numbers correspond to the key numbers shown on the photographs on a following sheet. The Existing Condition(s) column describes the specific condition observed in 2014. The Task(s) column lists the specific task associated with that condition. Terms used in the Task(s) column correspond to work items listed in the specifications.

**Note that the first item on the task list are recommended to be done prior to moving the fountain to stabilize the basin during the move. All other task items can be performed post move. Refer to Stabilization Plan development in the project specifications and stabilization areas shown in yellow on the following sheet.**



**Reference Drawing showing approximate existing dimensions and general form. For reference purposes only. All measurements to be field verified.**



**Reference Drawing showing approximate existing dimensions and general form. For reference purposes only. All measurements to be field verified.**

Project Title

**CITY OF FIFE**  
Fountain Plaza



Project Numbers  
2012 - 008

Issue & Revision Dates  
BID SET 30.04.2015

Sheet Title

**Fountain Preservation:  
Task Catalog**

Drawn By \_\_\_\_\_ Checked By \_\_\_\_\_

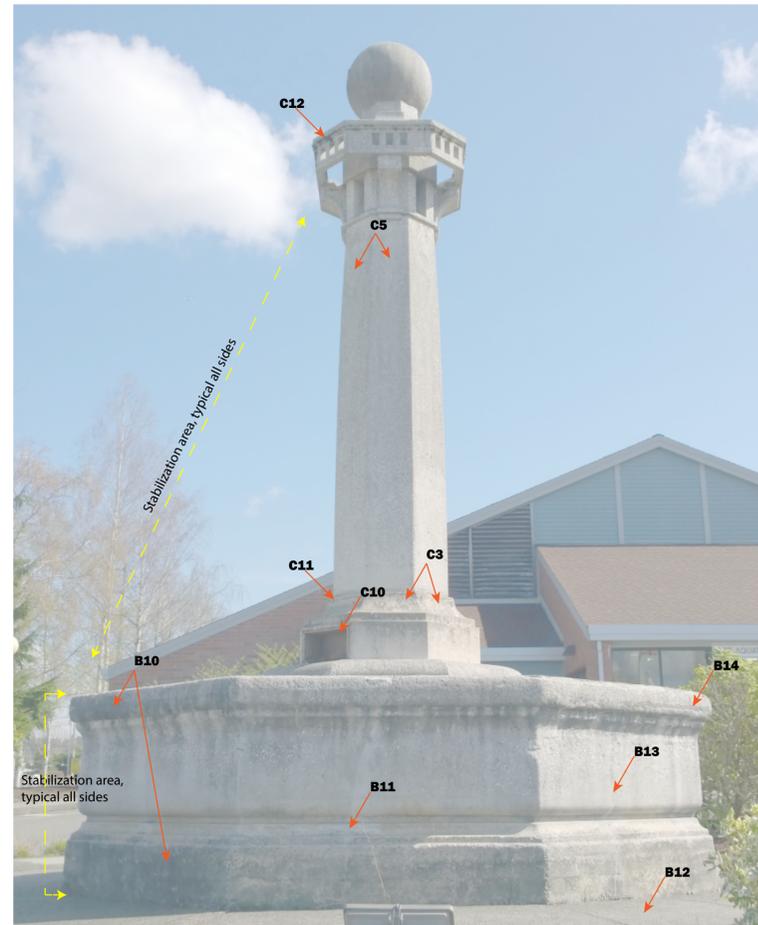
Sheet Number

**H101**

View looking west.



View looking east.



View looking north.



View looking down to the west.



Existing Conditions:

Overall the fountain remains in good condition given its 100 years of exposure to the elements and at least two previous moves. The long-term treatment for the fountain is preservation.

The cast stone fountain features a hard Portland cement based matrix binding course white marble aggregate. The fountain features an approximately eleven foot wide, two and a half foot deep octagonal basin with a eighteen and a half foot tall hollow, octagonal column with a round finial rising from the center of the basin. The column walls are several inches thick. A projecting, perforated cast stone screen supported on cast stone brackets wraps around the upper column portion. Tall openings on either other column face open to the interior of the column. Electrical conduit remains within the column, connecting to four light boxes behind the perforated screen. Decorative moldings accent vertical transitions. The basin edge features a rounded top.

The current foundation does not appear to have settled. There are no cracks in the column to indicate structural issues. Rebar evident at spalled upper areas suggests at least some rebar within the column; however no testing was conducted to confirm this. The most prolific cracking occurs at the basin walls. Nearly every wall has a crack that appear to extend through the full wall depth. The current epoxy waterproofing coating has bridged this crack in all instances without issue. Atmospheric derived surface soiling occurs on most of the wall planes with biological growth at ledges that tend to hold moisture. The electrical junction box at the base of the column has been abandoned and is extensively corroded. The four electrical connections at the top of the column are in similar condition, with cast stone spalling around one of the light boxes. There are several instances of exposed rebar at the top of the column that was originally placed too close to the surface and has corroded. There is a large spall above one of the tall openings at the top of the column. A light amount of surface erosion and mineral deposits has occurred along the column shaft below the tall openings from water run off.

Previous patching occurs along the top of the basin, at former hole location(s) in the basin walls, and along the surface of skyward facing moldings that had severely eroded due to weather exposure. There is a patch within one of the tall openings at the top of the column. Overall the patches appear to be in fair condition. Loose patch pieces have worn away over time.

**Stabilization areas, including but not limited to, those shown in yellow on the View Looking East at left on this sheet note the general areas that at a minimum should be addressed in the Stabilization Plan prior to moving the fountain. These pertain to the through wall cracking at the basin and the height and weight of the column.**





D1



D5



D9



D13



D2



D6



D10



D14



D3



D7



D11



D15



D4



D8



D12



D16

### Condition Details:

- D1 View looking up at the existing rigid conduit and junction box within the top of the fountain. The conduit feed to the exterior light boxes. A vertical rigid conduit piece remains within the fountain. Note the wood form work remaining within the fountain.
- D2 View of a previous cementitious patch within the upper portion of the fountain.
- D3 Steel reinforcement placed near the surface and now corroding and resulting in material loss.
- D4 General surface soiling and biological growth evident along upper portions of the fountain.
- D5 Cementitious binder loss leaving the harder aggregate along the exposed upper portions of the fountain. Biological growth at ledges.
- D6 Side view of the exposed steel reinforcement and biological growth. See condition note C7.
- D7 View of the finial showing eroded cementitious binder from around the harder aggregate.
- D8 Detail view of a corroded light mounting box. These connect to the rigid interior conduit show in D1.
- D9 View of the sloped surface within the recess openings at the upper fountain portion.
- D10 Detail view of the crack above the recessed opening. Diagonal cracks lead up the metal light box. Jacking of the corroded steel may be pushing against the cast stone. See condition note C8 and C6.
- D11 Detail view of steel reinforcement placed too close to the surface resulting in the exposed condition and corrosion. See condition note C7.
- D12 Interior view looking down within the fountain. Note the wood form work within the column and the rigid conduit.
- D13 Detail view of a light connection. Note the extensive corrosion. See condition note C15.
- D14 View of the back side of the projecting screen around the upper portion of the column showing the copper drip flashing above the openings. See condition note C14.
- D15 View of the anchors at the crack locations within the basin. It is unknown if these were anchors or part of an epoxy system injected into the cracks from within the basin. The contemporary water proofing coating covers the materials. See condition note B7.
- D16 View of cast stone loss around one of the corroded light boxes.

Project Title

**CITY OF FIFE**  
Fountain Plaza



Project Numbers

2012 - 008

Issue & Revision Dates

BID SET

30.04.2015

Sheet Title

**Fountain Preservation:  
Condition Details**

Drawn By

Checked By

Sheet Number

**H103**

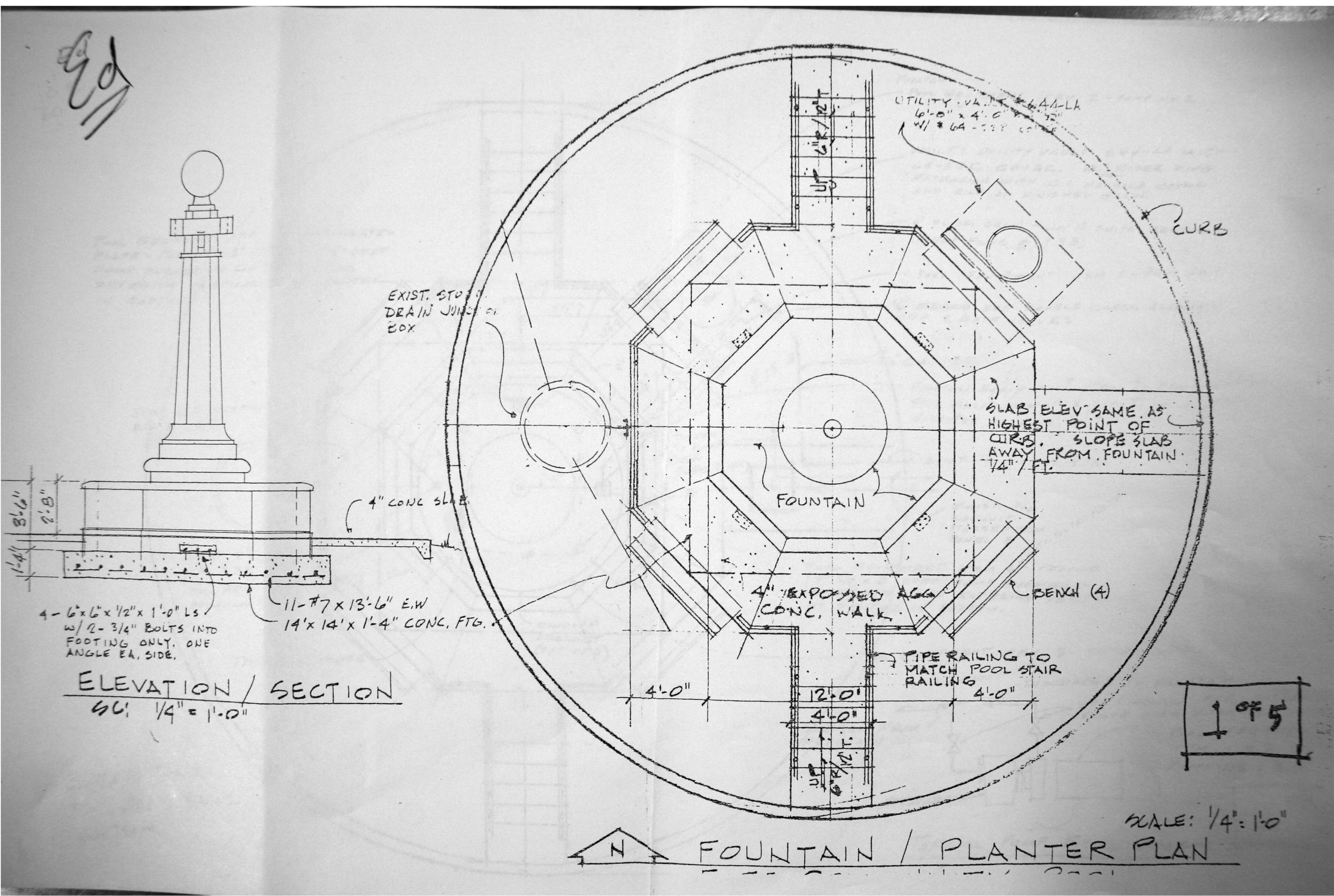
Sheet Number

14 of 25

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Reference Drawing from the 1989 fountain relocation project. For reference purposes only. All conditions to be field verified.



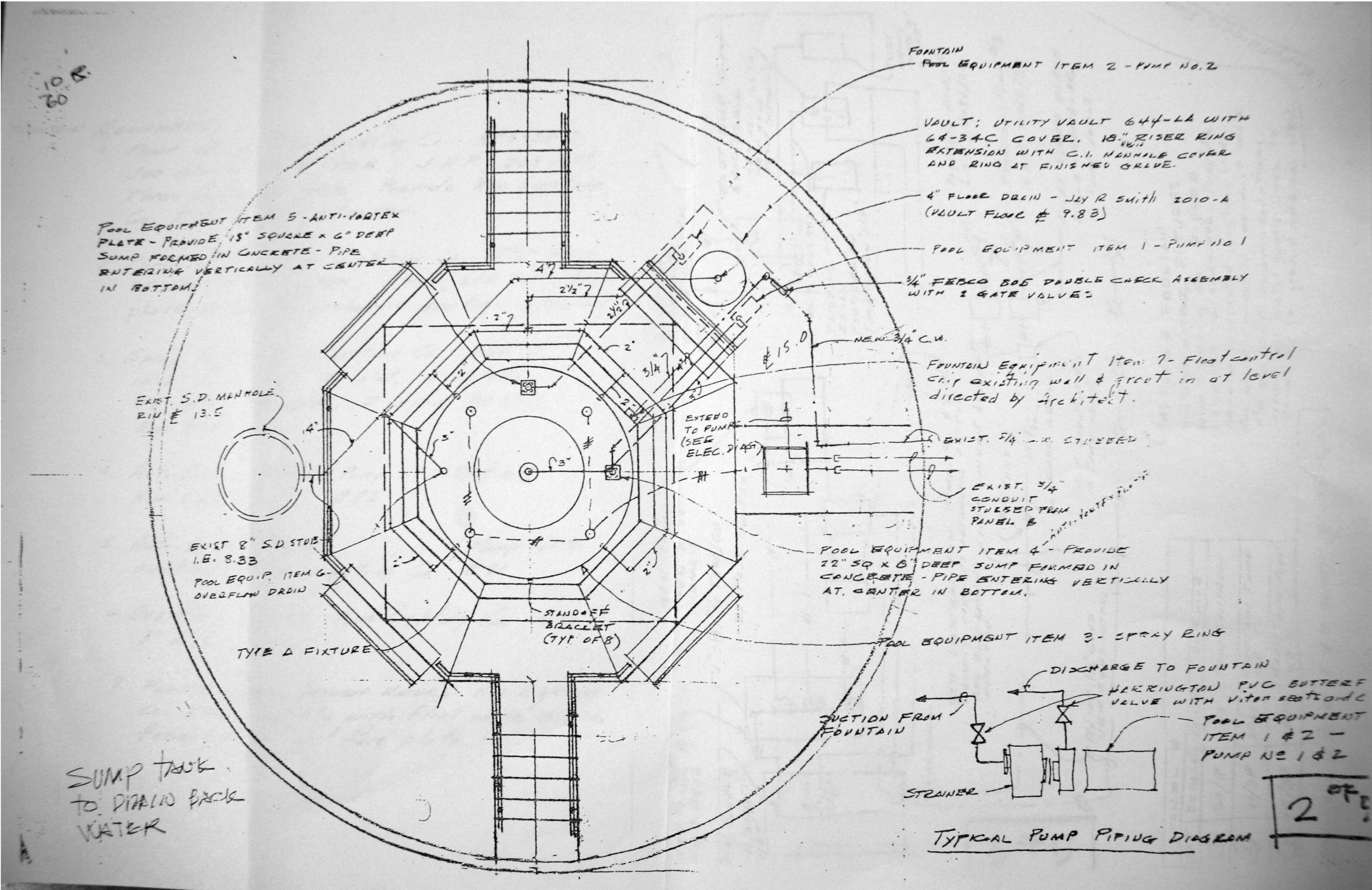
90

ELEVATION / SECTION  
 1/4" = 1'-0"

FOUNTAIN / PLANTER PLAN

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

1 of 5



10 R.  
60 R.

POOL EQUIPMENT ITEM 5 - ANTI-VORTEX PLATE - PROVIDE 18" SQUARE X 6" DEEP SUMP FORMED IN CONCRETE - PIPE ENTERING VERTICALLY AT CENTER IN BOTTOM.

EXIST. S.D. MANHOLE R.I.N. # 13.5

EXIST. 8" S.D. STUB I.E. 8.33

POOL EQUIP. ITEM 6 - OVERFLOW DRAIN

TYPE A FIXTURE

STANDOFF BRACKET (TYP. OF 8)

FOUNTAIN  
POOL EQUIPMENT ITEM 2 - PUMP NO. 2

VAULT; UTILITY VAULT 644-LA WITH 64-34C COVER, 18" RISER RING EXTENSION WITH C.I. MANHOLE COVER AND RING AT FINISHED GRAVE.

4" FLOOR DRAIN - JLY R SMITH 2010-A (VAULT FLOOR # 9.83)

POOL EQUIPMENT ITEM 1 - PUMP NO. 1

3/4" FIBCO 805 DOUBLE CHECK ASSEMBLY WITH 2 GATE VALVES

NEW 3/4" C.V.

FOUNTAIN EQUIPMENT ITEM 7 - Float control chip existing wall & grout in at level directed by Architect.

EXTEND TO PUMP (SEE ELEC. PLAN)

EXIST. 3/4" W. STUBBED

EXIST. 3/4" CONDUIT STUBBED FROM PANEL B

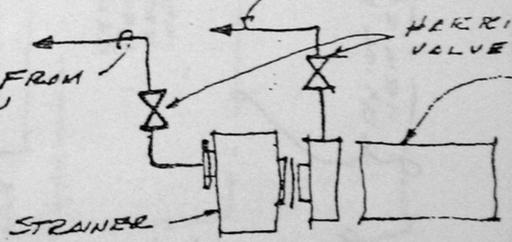
POOL EQUIPMENT ITEM 4 - PROVIDE 22" SQ X 6" DEEP SUMP FORMED IN CONCRETE - PIPE ENTERING VERTICALLY AT CENTER IN BOTTOM.

POOL EQUIPMENT ITEM 3 - SPRAY RING

DISCHARGE TO FOUNTAIN

HERRINGTON PVC BUTTERFLY VALVE WITH VITON SEALS AND O-RING

POOL EQUIPMENT ITEM 1 & 2 - PUMP NO. 1 & 2



TYPICAL PUMP PIPING DIAGRAM

2 OF 2

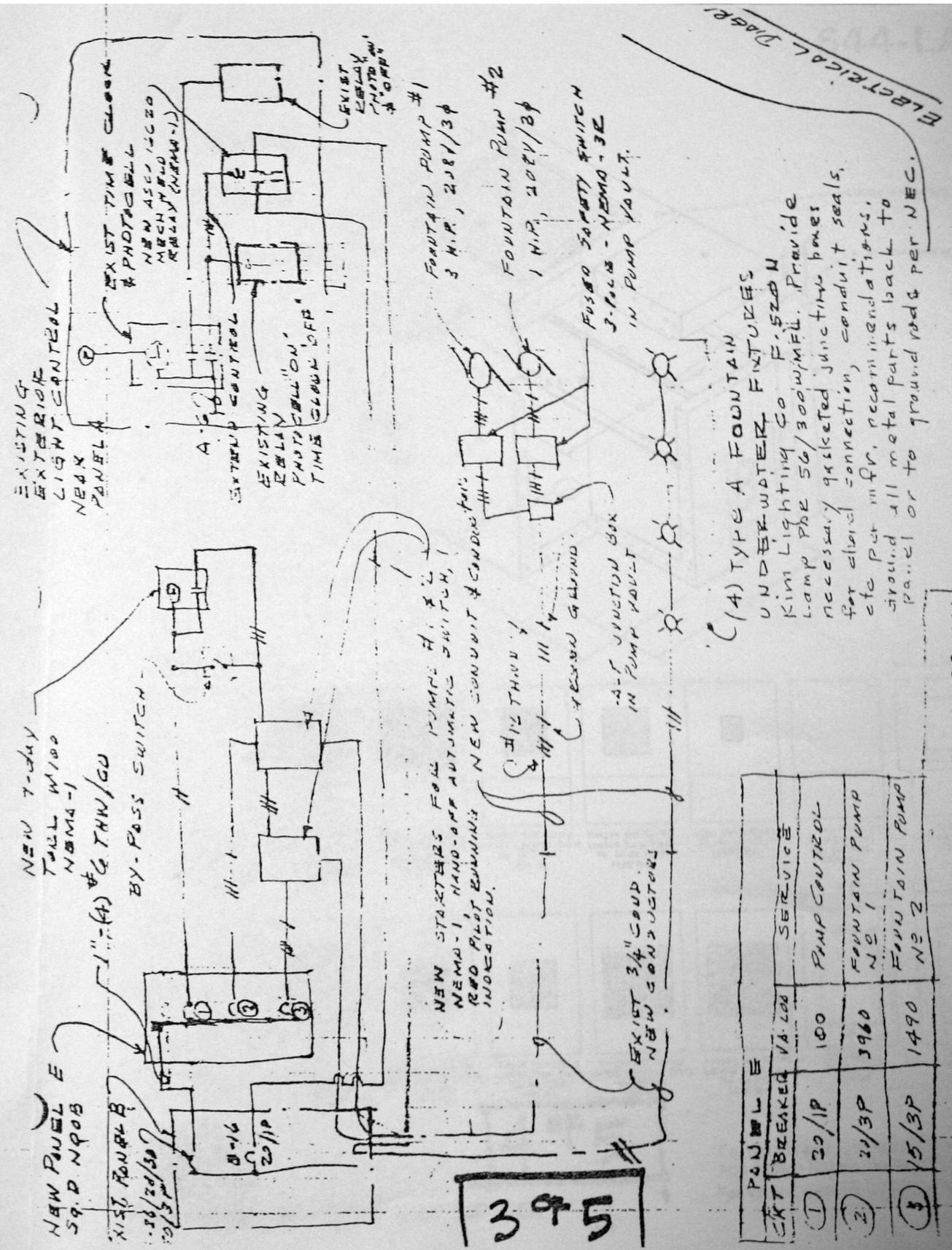
SUMP TRUCK TO DRAIN BACK WATER

Reference Drawing from the 1989 fountain relocation project. For reference purposes only. All conditions to be field verified.



**FOUNTAIN EQUIPMENT**

1. Pump No 1: Kim Lighting Co. KP3-30-3, 300 GPM @ 20'-0" T.D.H., 3 H.P., 208 volt, three phase, 60 cycle. Provide Kim Lighting Co. RT3 suction strainer.
2. Pump No 2: Kim Lighting Co. KP2-100-3, 95 GPM @ 20'-0" TDH, 1 H.P., 208 volt, three phase, 60 cycle. including suction strainer.
3. Spray Ring: Kim Lighting Co. SRA10, 10'-0" dia. ring, 2' inlet, 4 inlets, 92 jets, 91 GPM, 2' spray height, 3'-0" head.
4. Anti-Vortex Plate (Pump No 1 Suction): Kim Lighting Co. R82
5. Anti-Vortex Plate (Pump No 2 suction): Kim Lighting Co. R81
6. Overflow Drain: Kim Lighting Co. R16 3" size.
7. Float Control (Makeup Water): Kim Lighting Co. R50 complete with float valve, acrylic forming niche and face plate.



(A) TYPE A FOUNTAIN UNDERWATER FINIKES Kim Lighting Co. F-520N Lamp Pkg 56/300W/FL. Provide necessary gasketed junction boxes for elctd connection, conduit seals, etc per mfr. recommendations. ground all metal parts back to panel or to ground rods per NEC.

PANEL #	CKT BREAKER VALVE	SERVICE
1	20/1P	100 PUMP CONTROL
2	20/3P	3960 FOUNTAIN PUMP NO 1
3	15/3P	1490 FOUNTAIN PUMP NO 2

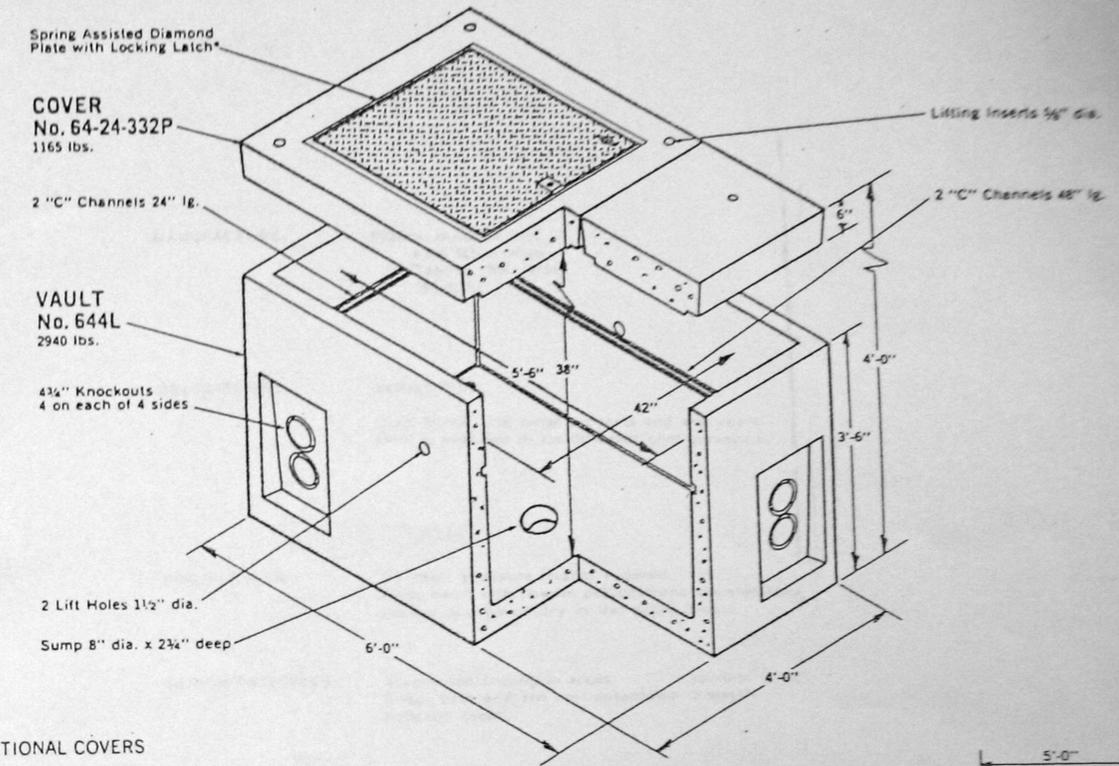
BREAKERS IN PANEL A ARE RATED 155A-22,000

395

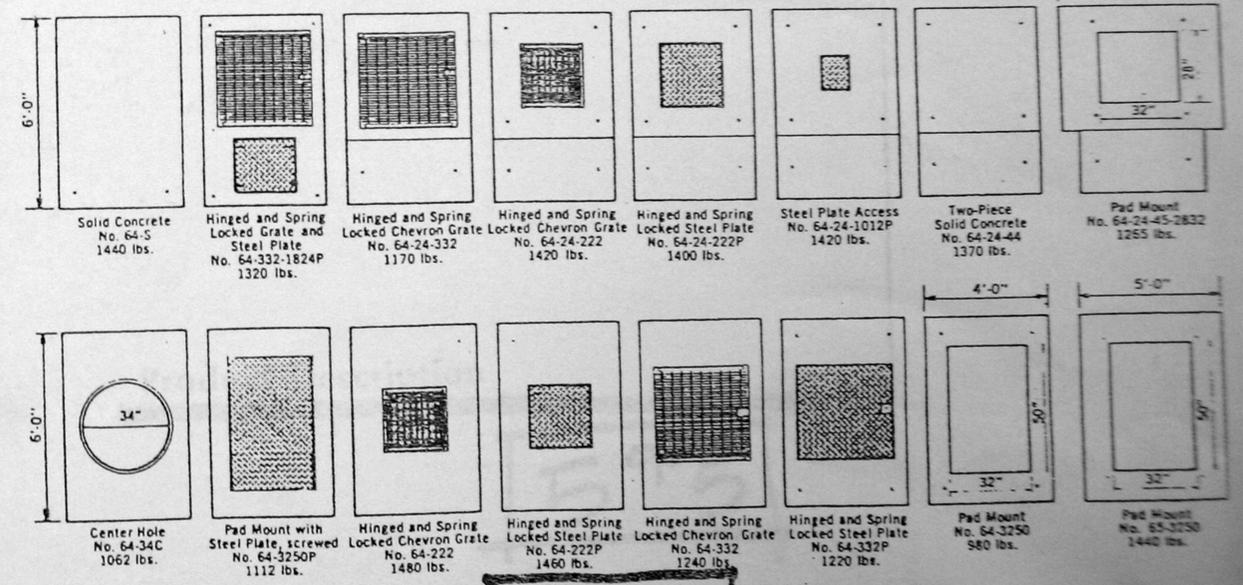
Reference Drawing from the 1989 fountain relocation project. For reference purposes only. All conditions to be field verified.



**644-LA**



**OPTIONAL COVERS**

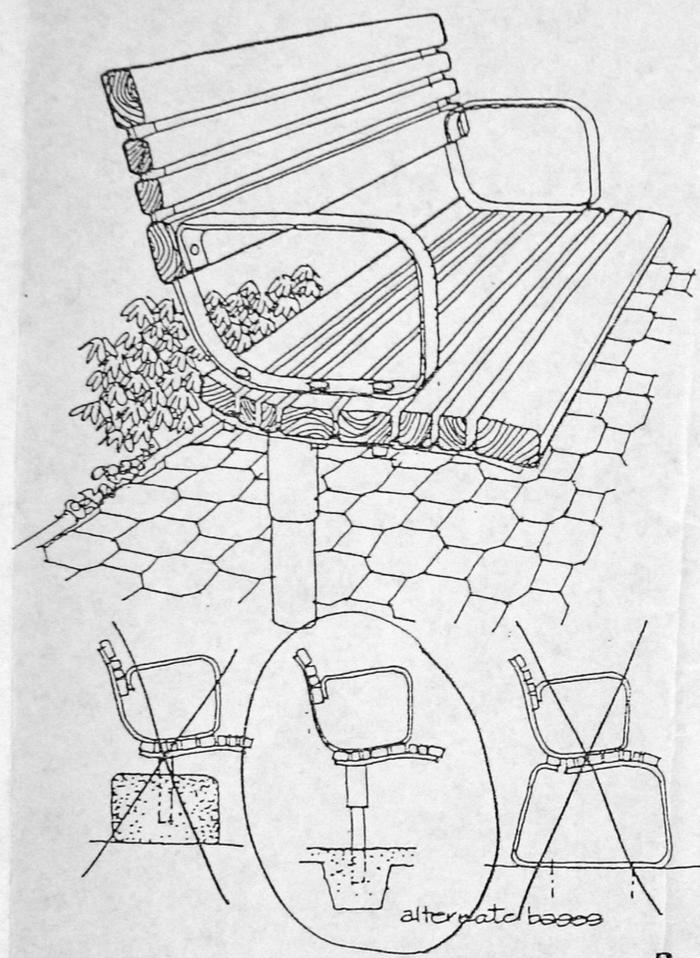


**UTILITY VAULT CO.**

**4 OF 5**

\*For details and specifications of Gratings and Access Covers see Grating Section.  
 For Vault Extension see Riser Section.

Reference Drawing from the 1989 fountain relocation project. For reference purposes only. All conditions to be field verified.



Bench

MANUFACTURE: Frances/Andrew Inc.  
8366 6th Avenue  
Tacoma, WA 98565  
565-5397

DESCRIPTION: SERIES TWO  
Wood bench with metal supports and arm rests.  
Unit is available in six different configurations.

FINISH/COLOR: All heart pressure treated redwood.  
Paint metal with powder polyurethane electrostatically  
applied and baked dry in Mid-Night Blue.

DESIGN OBJECTIVE: To provide seating in areas to water  
Select base and arm rest assemblies to match  
adjacent needs.

UNIT COST: \$336.

Product Description

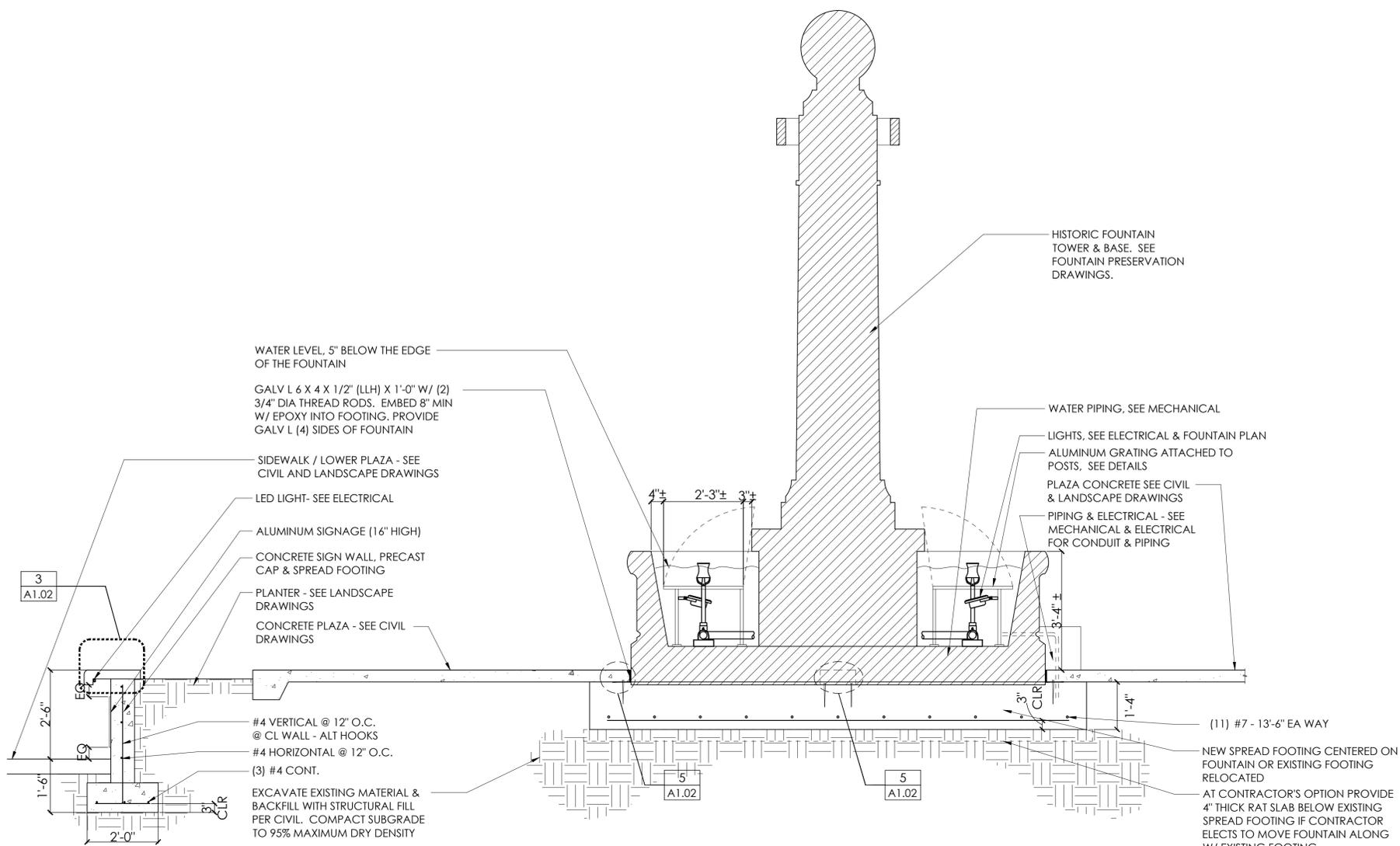
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Reference Drawing from the 1989 fountain relocation project. For reference purposes only. All conditions to be field verified.

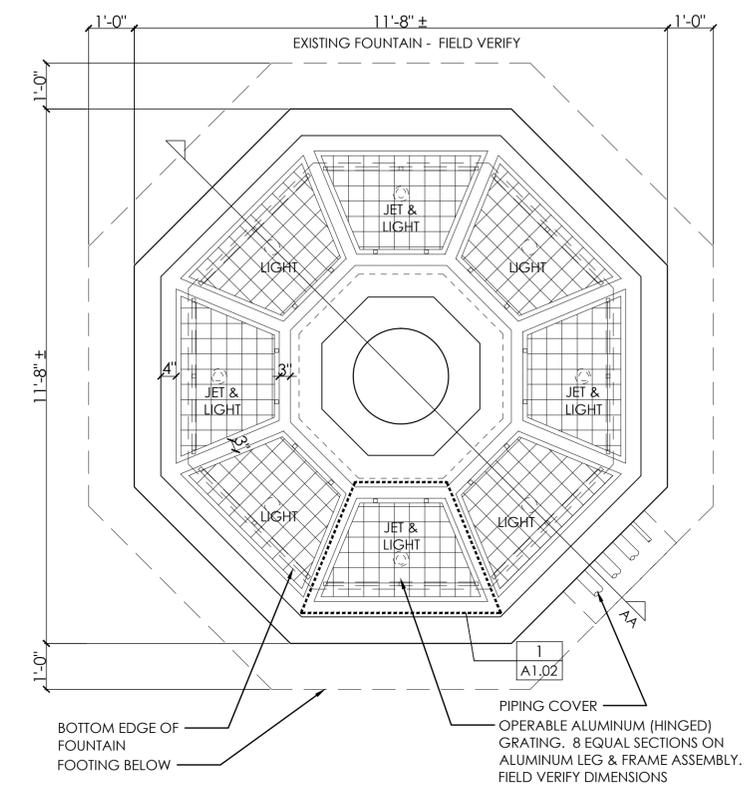


**FOUNTAIN RELOCATION NOTES**

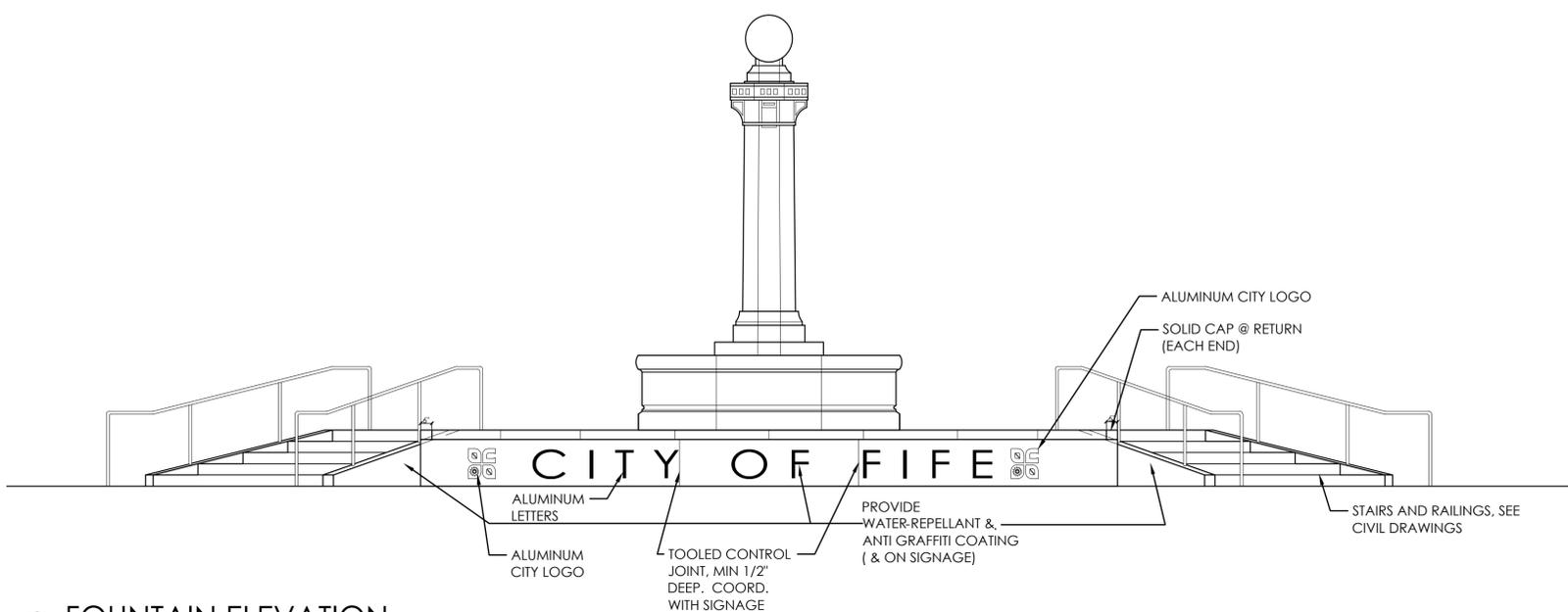
1. THE EXISTING FOUNTAIN IS SUPPORTED BY A 16" THICK CONCRETE FOOTING / SLAB IN ITS CURRENT LOCATION. THIS SLAB MAY BE USED IN THE RELOCATION OF THE FOUNTAIN AT THE CONTRACTORS OPTION.
2. THE CONTRACTOR SHALL PROVIDE ALL ENGINEERING TO DETERMINE WEIGHT, & ATTACHMENT METHODS FOR SECURING, LIFTING, & TRANSPORTING THE FOUNTAIN ASSEMBLY TO THE NEW LOCATIONS & PROVIDE ALL SUCH INFORMATION TO THE OWNER IN THE FORM OF A RELOCATION PLAN FOR REVIEW AND COMMENT
3. SEE CIVIL DRAWINGS FOR SITE PREPARATION.
4. SEE "FOUNTAIN PRESERVATION" DRAWINGS FOR RESTORATION WORK AND OTHER RELOCATION NOTES.
5. ORIENT FOUNTAIN WITH EXISTING PLUMBING LINE OPENINGS TO SOUTH EAST. SEE PLUMBING DRAWINGS.



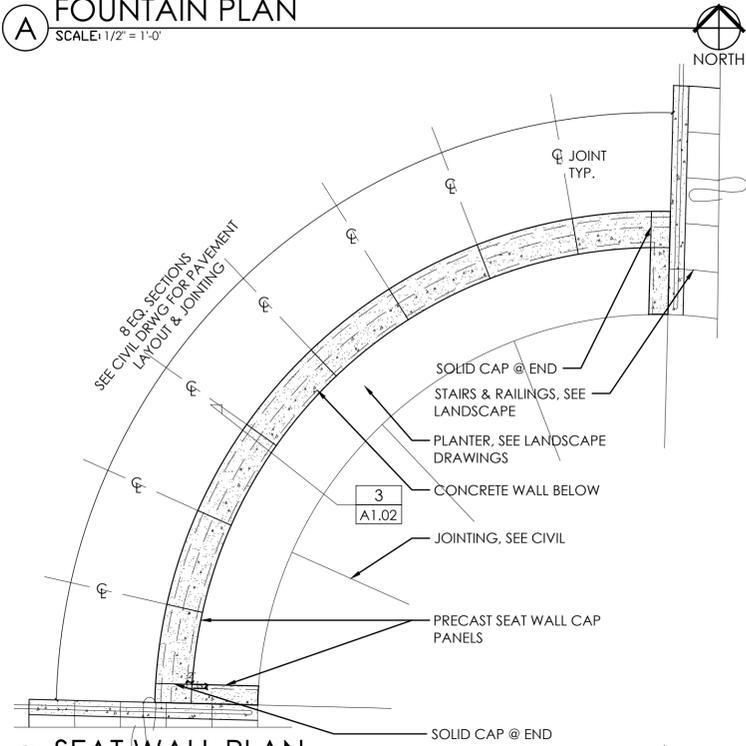
**B** SECTION A-A  
SCALE: 1/2" = 1'-0"



**A** FOUNTAIN PLAN  
SCALE: 1/2" = 1'-0"



**C** FOUNTAIN ELEVATION  
SCALE: 1/4" = 1'-0"



**A** SEAT WALL PLAN  
SCALE: 3/16" = 1'-0"

Project Title  
**CITY OF FIFE**  
Fountain Plaza



Project Numbers  
2012 - 008

Issue & Revision Dates  
BID SET 30.04.2015

5617 REGISTERED ARCHITECT  
Randal J. Cook  
STATE OF WASHINGTON

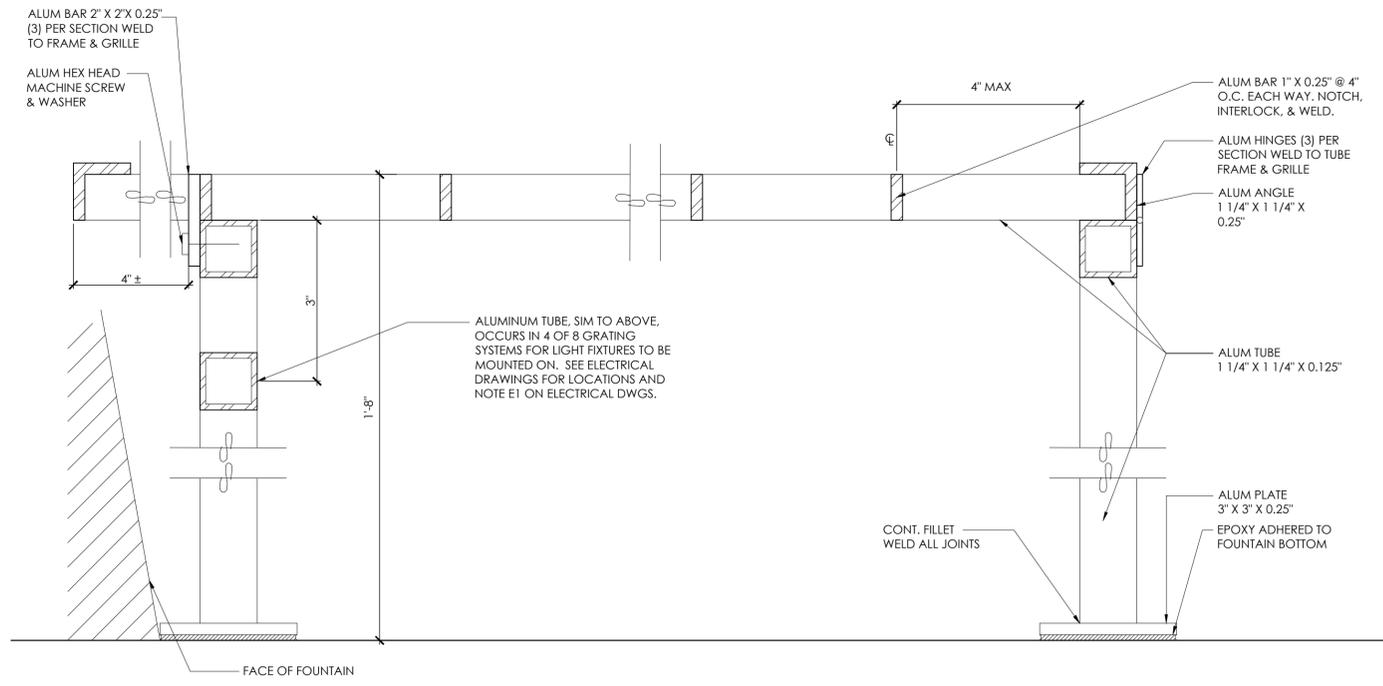
Sheet Title  
**ARCHITECTURAL PLAN, SECTION & ELEVATION**

Drawn By MR Checked By RC

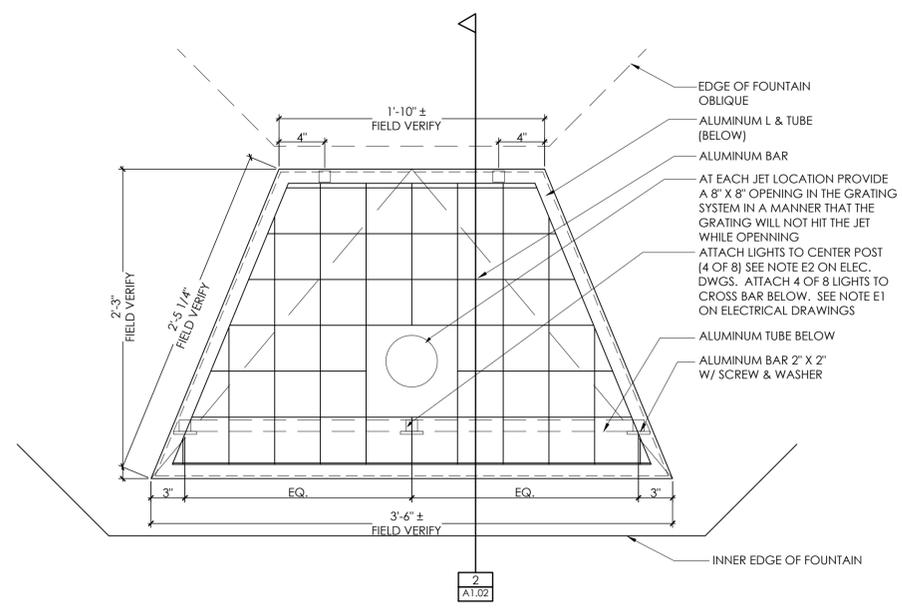
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**A1.01**

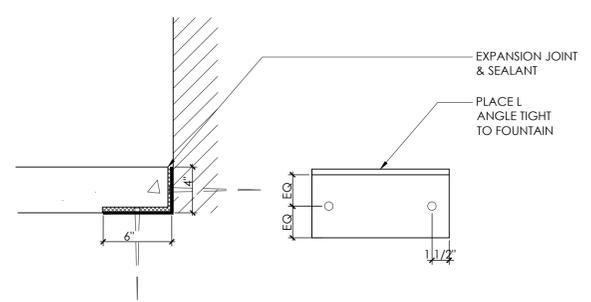
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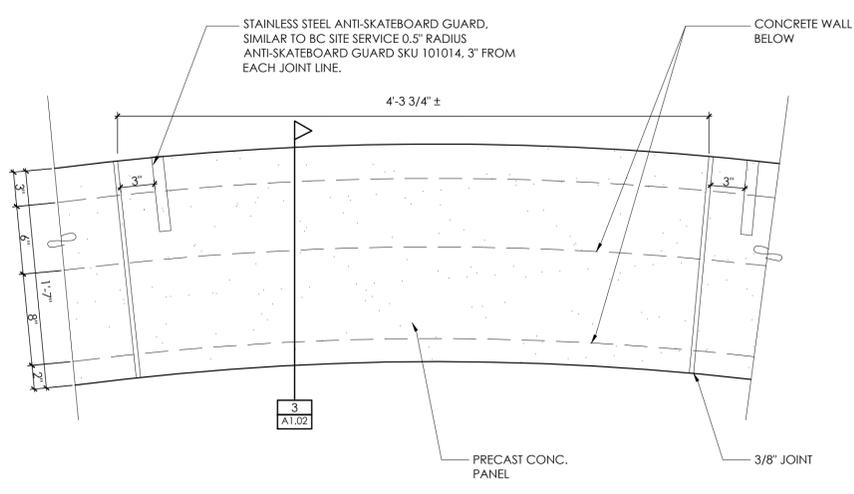
**2 ALUMINUM GRATING SECTION**  
SCALE: 6"=1'-0"



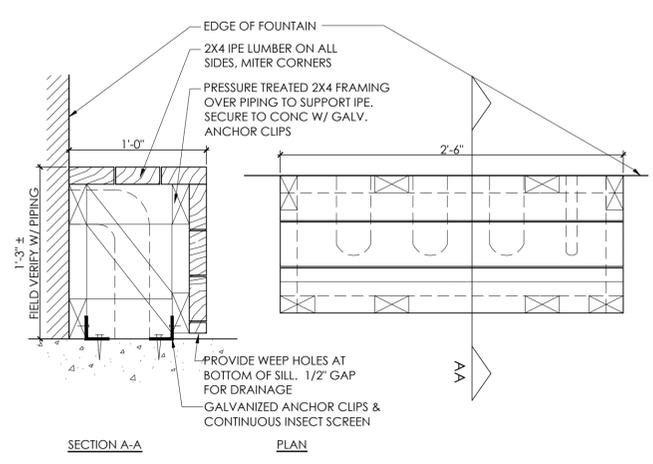
**1 ALUMINUM GRATING PLAN - TYPICAL PANEL**  
SCALE: 1 1/2"=1'-0"



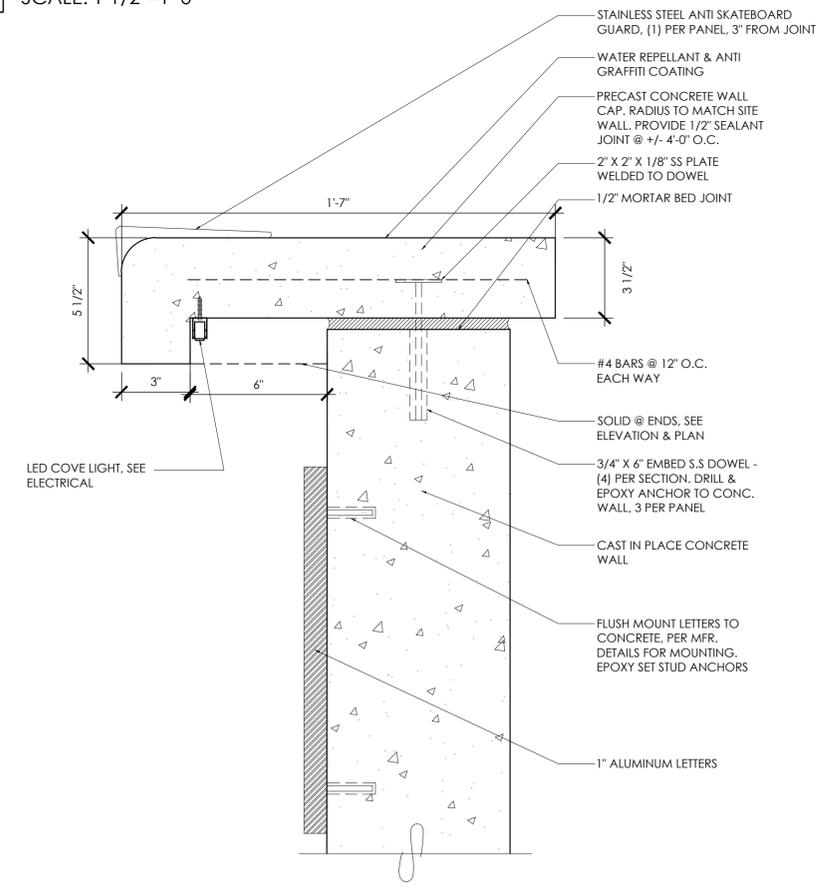
**5 FOOTING / FOUNTAIN FASTENING**  
SCALE: 1 1/2"=1'-0"



**4 SEAT WALL PLAN**  
SCALE: 1 1/2"=1'-0"



**6 PIPING COVER DETAIL**  
SCALE: 1 1/2"=1'-0"



**3 SEAT WALL DETAIL**  
SCALE: 3"=1'-0"

Project Title  
**CITY OF FIFE**  
Fountain Plaza



Project Numbers  
2012 - 008

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BID SET 30.04.2015



Sheet Title  
**DETAILS**

Drawn By: MR  
Checked By: RC  
Sheet Number

**A1.02**

**GENERAL NOTES**

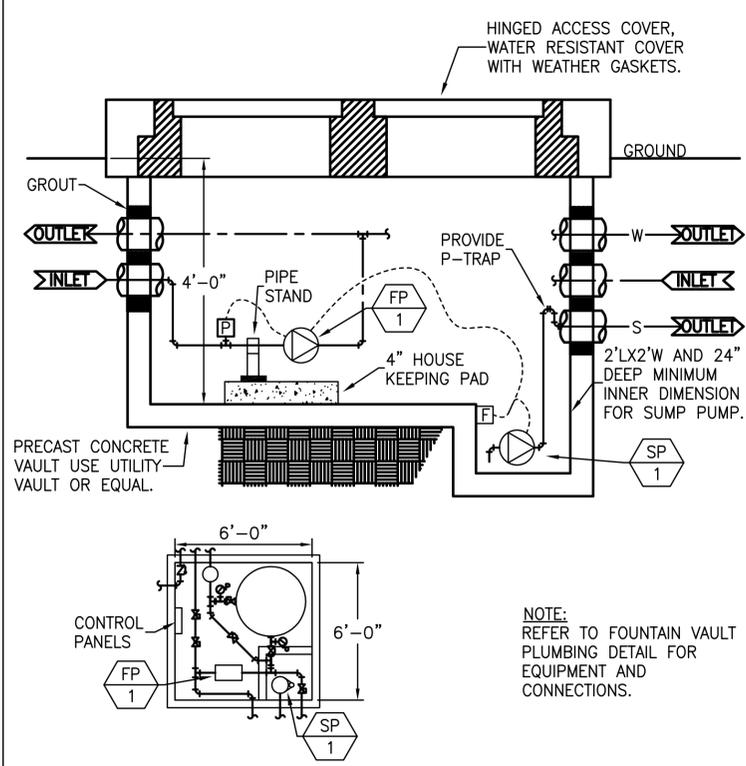
- PIPE AND FITTINGS ARE SHOWN OFFSET FOR CLARITY. ROUTE PLUMBING AS CLOSE TO THE PLANS AS THE BUILDING CONDITION PERMIT. THE PIPE ROUTING MAY REQUIRE ADJUSTMENTS TO FACILITATE INSTALLATION. FULL COORDINATION WITH ALL TRADES IS EXPECTED PRIOR TO INSTALLATION.
- SUMP PUMP (SP-1) IS TO BE A FULLY SUBMERSIBLE PUMP.
- FOUNTAIN PUMP (FP-1) IS TO BE A DRY SUBMERSIBLE PUMP CAPABLE OF TEMPORARY SUBMERSION WITHOUT DAMAGE. PUMP TO BE NEMA RATED.

**CONSTRUCTION NOTES**

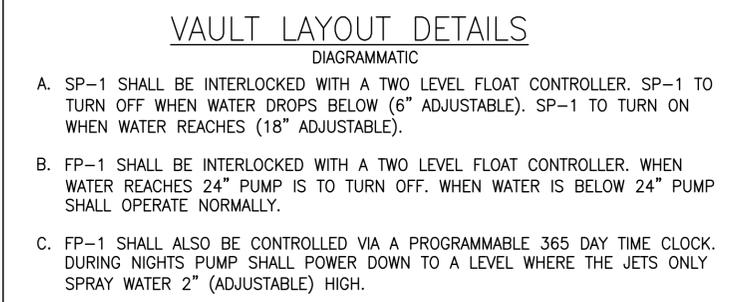
- 6'X6' 4' DEEP FOUNTAIN VAULT BOX (UTILITY VAULT OR EQUAL), SEE FOUNTAIN VAULT BOX DETAIL ON THIS PAGE FOR EQUIPMENT TO BE INSTALLED.
- ROUTE PIPES 2' UNDERGROUND. SLOPE RETURN AND STORM AT 1/8"-1'-0".
- PIPE COVER STEP. REFER TO ARCHITECTURAL FOR DETAIL OF STEP. ALL PIPES ARE TO BE HIDDEN UNDER STEP.
- PENETRATE FOUNTAIN WALL THROUGH EXISTING OPENING. ENLARGE OPENING AS REQUIRED TO FIT NEW PIPES. REFER TO PIPE THROUGH FOUNTAIN WALL PENETRATION DETAIL FOR INSTALLATION OF PIPES.
- 3" STAINLESS STEEL OVERFLOW STANDPIPE. SLOPE OVERFLOW LINE AT 1/8"=1'-0" USE PVC PIPING AFTER EXITING FOUNTAIN. TACK WELD OVERFLOW STANDPIPE CAP 3" BELOW FOUNTAIN'S LIP. USE STANDPIPE CAP PEM FOUNTAIN MODE: PEM 62203.
- ALL PIPES ARE TO BE SECURED TO THE BOTTOM OF THE FOUNTAIN, REFER TO FOUNTAIN PIPE SUPPORT DETAIL ON THIS PAGE.
- FOUR CONICAL JET NOZZLES (PEM FOUNTAIN MODEL: PEM 52A). ARRANGE NOZZLES EQUALLY SPACED AROUND 4' RADIUS CIRCLE FROM CENTER OF FOUNTAIN COORDINATE JET LOCATIONS WITH GRATING AND LIGHTING. JET NOZZLE IS TO TERMINAL 1" ABOVE WATER LEVEL. PROVIDE GLOBE VALVES ON EACH STANDPIPE RISER.
- CAPPED PERFORATED TRANSPARENT PVC DRAIN PIPE. PERFORATE DRAIN PIPE WITH 1/4" HOLES WITH 12 ROWS OF 12 HOLES. DRAIN PIPE SHALL BE INSTALLED AS LOW AS POSSIBLE, REFER TO SHEET ME0.01 FOR SECTION VIEW.

**CONSTRUCTION NOTES**

- PENETRATE FOUNTAIN WALL THROUGH EXISTING OPENING. ENLARGE OPENING AS REQUIRED TO FIT NEW PIPES. REFER TO PIPE THROUGH FOUNTAIN WALL PENETRATION DETAIL FOR INSTALLATION OF PIPES.
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**PIPE THROUGH FOUNTAIN WALL PENETRATION DETAIL**  
DIAGRAMMATIC



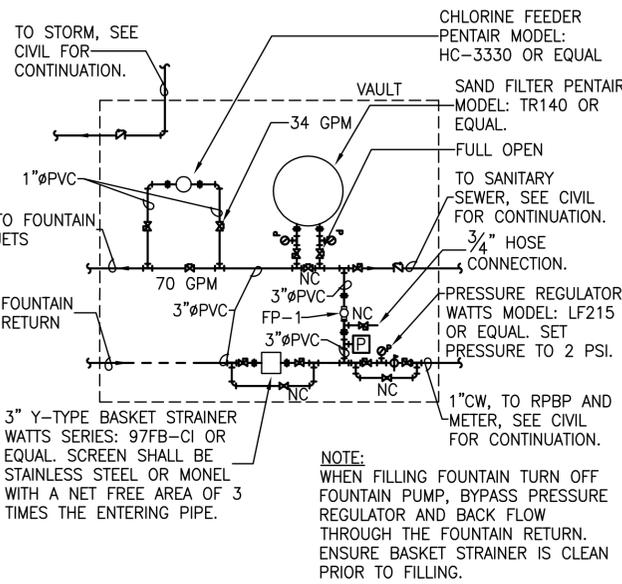
**PUMPS SCHEDULE**

UNIT NO	MFR.	MODEL	MOTOR(2)		HEAD (FT)	FLOW (GPM)	ELECTRICAL VOLTS	REMARKS
			HP	RPM				
FP-1	WEIL (OR EQUAL)	2854	5	1700	45	104	230 1	①③④⑤
SP-1	WEIL (OR EQUAL)	1409	1/3	1750	24	10	120 1	① ⑤

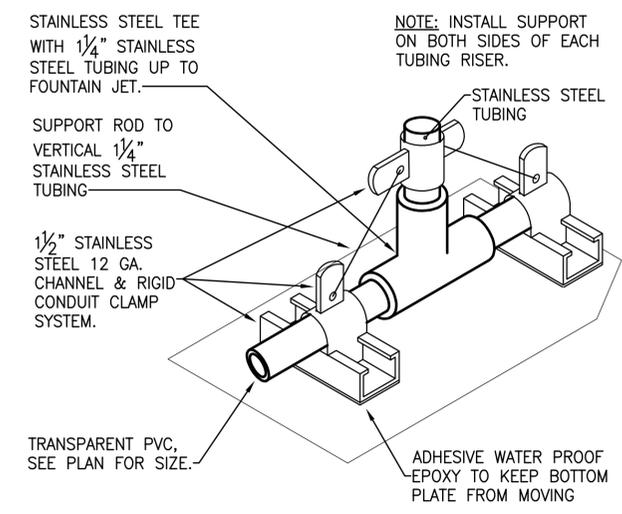
- NOTES FOR PUMPS SCHEDULE**
- EC TO PROVIDE A DISCONNECT.
  - MOTOR TO BE PROVIDED WITH A VFD. SECURE VFD PANEL TO THE VAULT WALL AS HIGH AS POSSIBLE.
  - PUMP TO BE NEMA 4 RATED.
  - INTERLOCK PUMP WITH PRECEEDING PRESSURE SENSOR. PUMP SHALL TURN OFF WHEN SENSOR READS 2PSIG (ADJUSTABLE). PUMP SHALL HAVE A MANUAL RESET.
  - INTERLOCK PUMP WITH DUAL LEVEL TETHERED FLOAT. SEE VAULT LAYOUT DETAILS FOR CONTROL OF PUMP.

**MECHANICAL LEGEND**

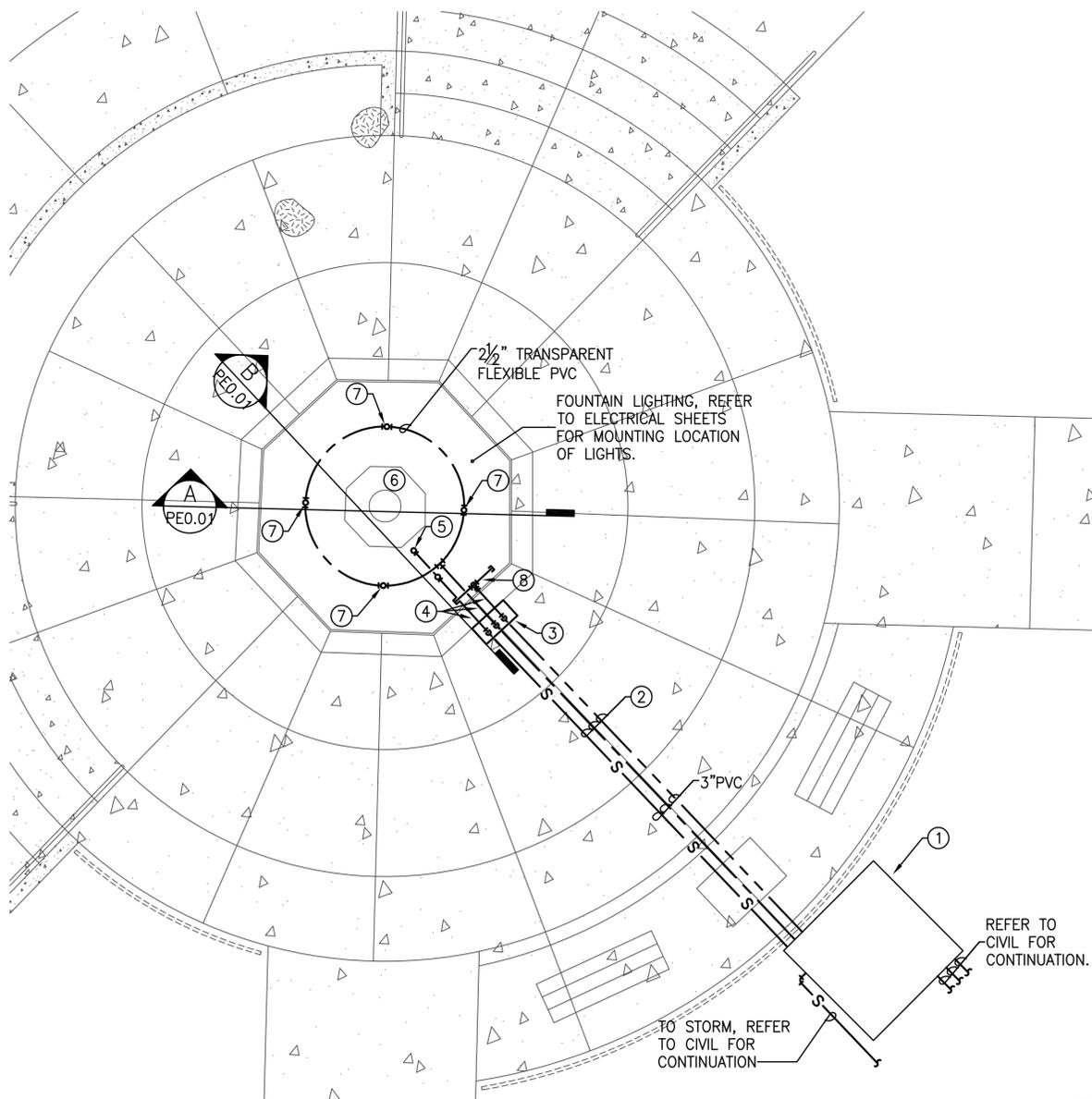
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
← - - - - - →	COLD WATER	NC	NORMALLY CLOSED VALVE
← S →	STORM WATER	⊘	GLOBE VALVE
← W →	SANITARY SEWER	⊘	BALL VALVE
← - - - - - →	RETURN WATER	⊘	PRESSURE REGULATOR
⊘	BALANCING COCK (BC)	⊘	PRESSURE SENSOR
⊘	DIELECTRIC UNION	EC	ELECTRICAL CONTRACTOR
⊘	PRESSURE GAUGE	MC	MECHANICAL CONTRACTOR
⊘	CHECK VALVE	⊘	TWO LEVEL FLOAT CONTROLLER



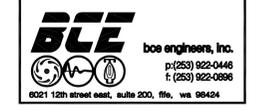
**FOUNTAIN VAULT PLUMBING DETAIL**  
DIAGRAMMATIC



**FOUNTAIN PIPING SUPPORT DETAIL**  
DIAGRAMMATIC



**FOUNTAIN PLUMBING PLAN**  
SCALE: 1/4" = 1'-0"





Project Title

CITY OF FIFE

Fountain Plaza



Project Numbers

2012 - 008

Issue & Revision Dates

BID SET 04.30.2015

Sheet Title

ELECTRICAL  
LEGEND, FIXTURE  
SCHEDULE AND  
DETAILS

Drawn By HS Checked By CH

Sheet Number

E1.00

Sheet Number 23 of 25

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# ELECTRICAL LEGEND

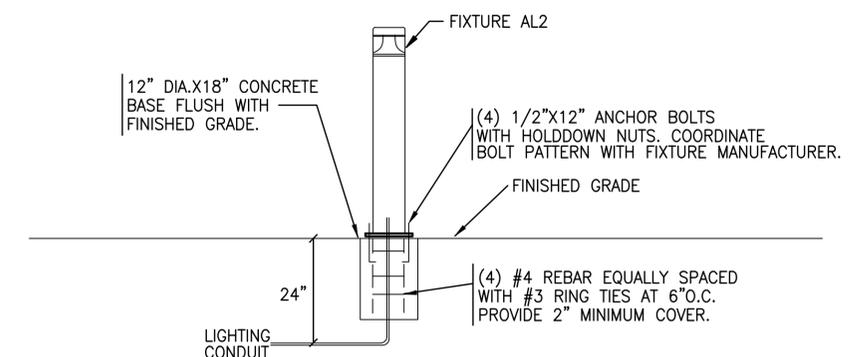
SYMBOL	DESCRIPTION
<b>EQUIPMENT AND WIRING</b>	
	GROUNDING CONDUCTOR
	DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	EXISTING PANELBOARD TO BE RETAINED
	GROUNDING SYSTEM PER CODE
	MOTOR RATED STARTER
	JUNCTION BOX - SIZE PER NEC
	CONCRETE HANDHOLE - SIZE PER NEC
	INLINE 120V PHOTOSENSOR LIGHTING CONTROL
<b>MISCELLANEOUS</b>	
	CONSTRUCTION NOTES
	W INDICATES WEATHERPROOF FOR ALL DEVICES
<b>LIGHTING</b>	
	EXISTING BOLLARD
	LED FOUNTAIN LIGHT
	FLEXIBLE LED SIGN LIGHT

## LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	VOLTS WATTS	MOUNTING & REMARKS
AL1	MODALIGHT FIXTURE: SNX-F-SF-4000k-30FT- CLIP-MP17 DRIVER: MP17	LED 4.68W/FT	24V 150W	30' FLEXIBLE LED SIGN LIGHT FIXTURE. PROVIDE REMOTE DRIVER TO BE MOUNTED INSIDE THE FOUNTAIN VAULT. PROVIDE WITH 5' WHIP. PROVIDE FACTORY SHOP DRAWINGS FOR ELECTRICAL ENGINEERS APPROVAL.
AL2	FAIRWEATHER SITE FURNISHINGS B-4-DL OPTION: SURFACE MOUNT WITH DURACOAT DARK GREEN	LED	120V 12W	36" LED LIGHT BOLLARD FIXTURE. SEE POLE BASE DETAIL ON THIS SHEET.
FL1	LUMASCAPE LS265LED-28H6-NM-13 TRANSFORMER: LS-TSS-500	LED 18W	120V 100W	LED FOUNTAIN SPOT LIGHT. SEE MOUNTING DETAIL ON THIS SHEET. PROVIDE WITH FACTORY SUPPLIED 9-ENTRIES WET SEALED JUNCTION BOX WITH ALL PRE TERMINATED FIXTURE CORDS AND 30' TRANSFORMER CORD. PROVIDE FACTORY SHOP DRAWINGS FOR ELECTRICAL ENGINEERS APPROVAL.

### NOTES

- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LIGHT FIXTURE FINISH COLORS WITH CITY OF FIFE STANDARDS.



**A** BOLLARD MOUNTING DETAIL - AL2  
SCALE: NOT TO SCALE

Sheet Number 23 of 25

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Project Title

CITY OF FIFE  
Fountain Plaza



Project Numbers

2012 - 008

Issue & Revision Dates

BID SET 04.30.2015

Sheet Title

ELECTRICAL SITE PLAN

Drawn By HS Checked By CH

Sheet Number

E1.01

Sheet Number 24 of 25

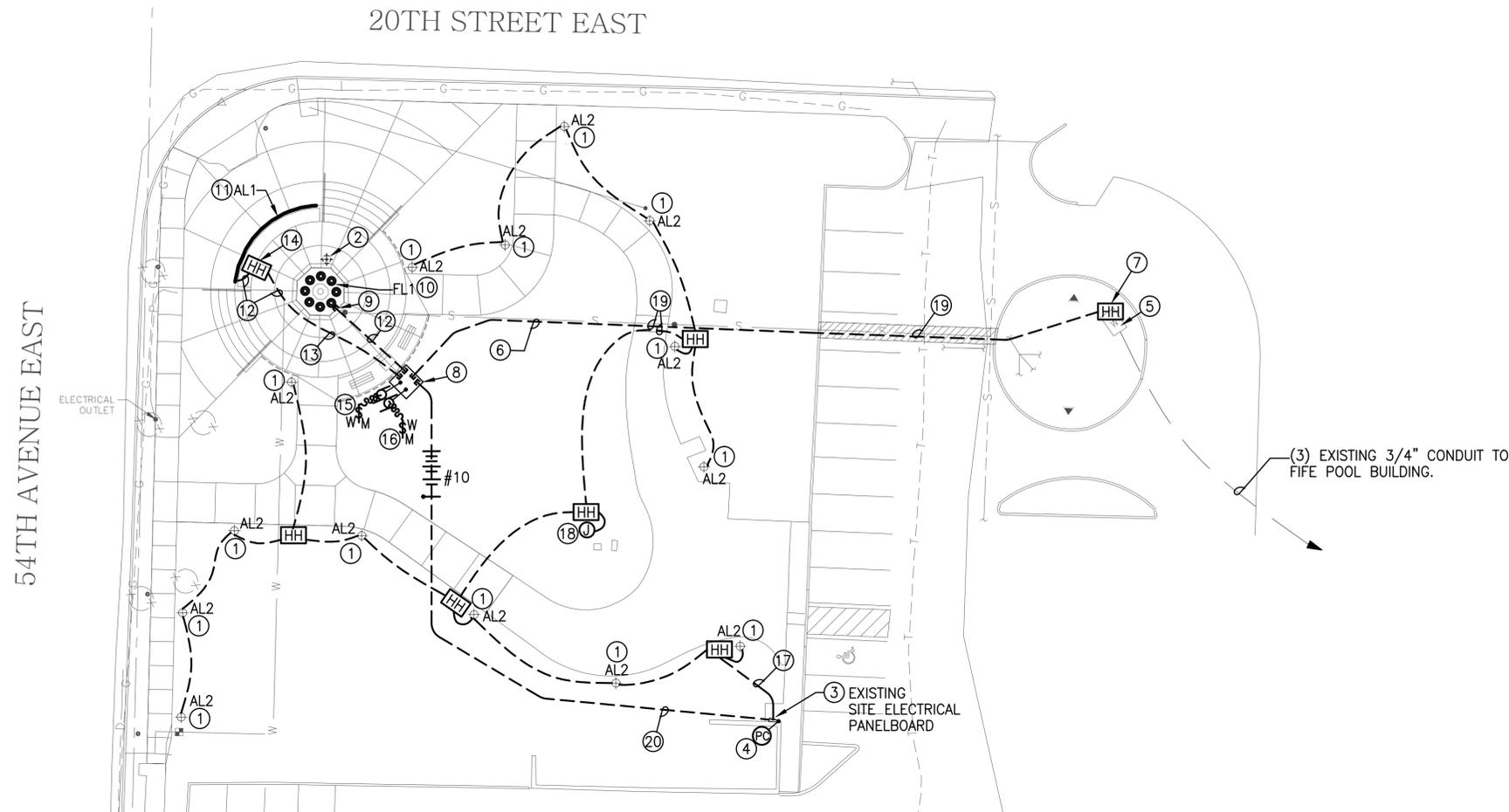
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**GENERAL NOTES**

1. COORDINATE ALL UNDERGROUND WORK WITH NEW AND EXISTING UNDERGROUND UTILITIES.
2. PROVIDE WATERTIGHT CONDUIT AND FITTINGS PER NEC REQUIREMENTS.
3. SEE SHEET PE0.01 FOR FOUNTAIN DETAILS.

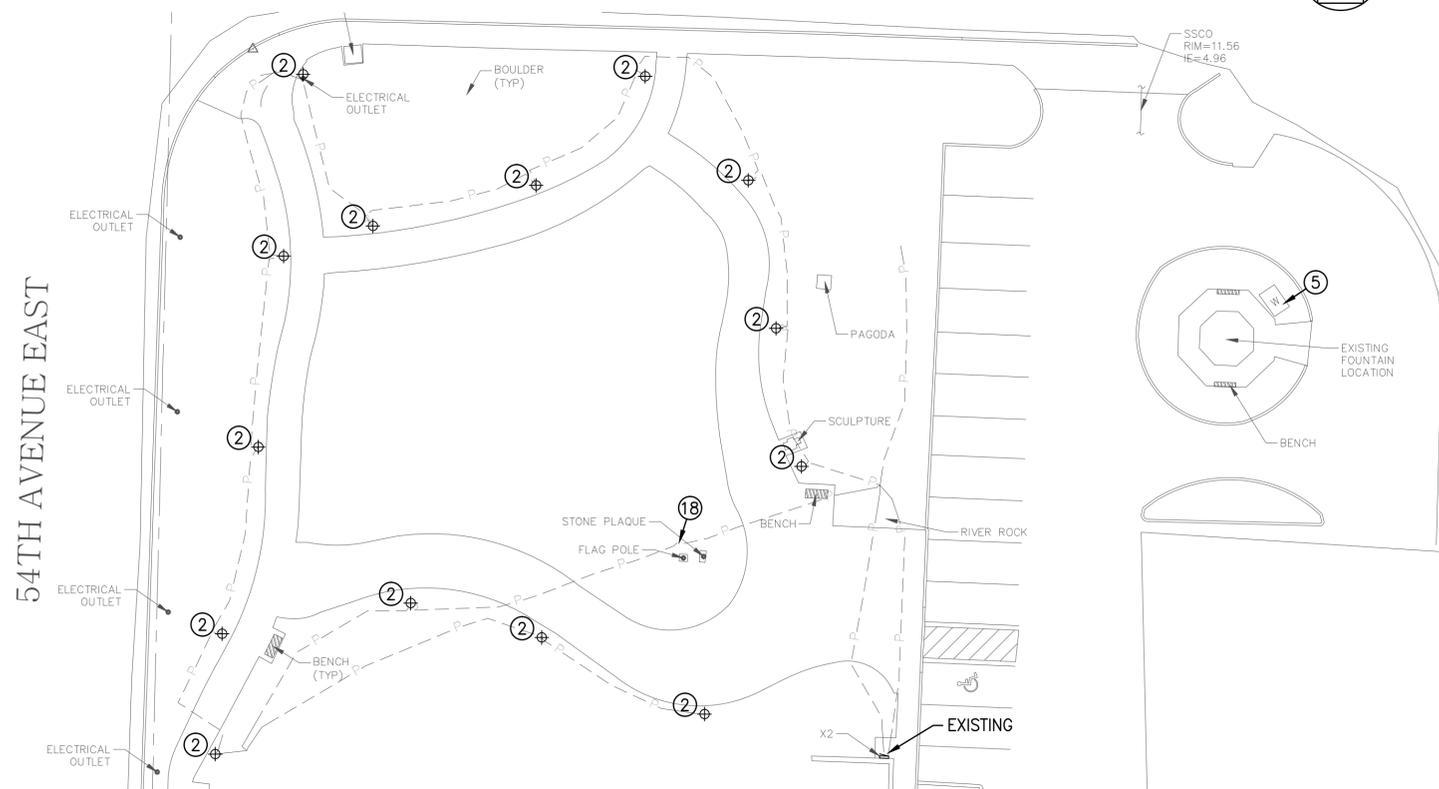
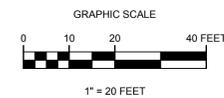
**CONSTRUCTION NOTES**

1. NEW BOLLARD LIGHT FIXTURE. PROVIDE NEW UNDERGROUND CONDUIT AND WIRING FROM EXISTING SITE ELECTRICAL PANEL TO CONNECT TO EXISTING LIGHTING CIRCUIT.
2. EXISTING LIGHT BOLLARD TO BE REMOVED. DISCONNECT AND PULL EXISTING DIRECT BURIED CABLE.
3. EXISTING ELECTRICAL SITE PANELBOARD TO REMAIN -120/240V, 1Ø, 200A. PROVIDE NEW CIRCUIT BREAKERS TO FEED NEW CIRCUITS FOR FOUNTAIN PUMP (2P-20A), VAULT SUMP PUMP (1P-20A), AND NEW FOUNTAIN/SIGN LIGHTING (1P-20A).
4. PROVIDE INLINE 120V PHOTOCELL CONTROL FOR NEW FOUNTAIN (FL1) AND SIGN LIGHTING (AL1) CONTROL. PROVIDE NEMA 3R JUNCTION BOX MOUNTED TO THE SIDE OF SITE PANEL BOARD.
5. DISCONNECT AND REMOVE WIRING INSIDE EXISTING FOUNTAIN VAULT.
6. INTERCEPT AND CONTINUE EXISTING CONDUITS FROM THE POOL BUILDING PANEL BOARD TO NEW FOUNTAIN VAULT FOR FUTURE OWNER USE. CAP OFF AND SEAL CONDUIT INSIDE FOUNTAIN VAULT. COORDINATE TRENCHING WITH WATER PIPE. PROVIDE PULL STRING TO ALL SPARE CONDUITS.
7. PROVIDE TYPE 1 CONCRETE HANDHOLE TO INTERCEPT EXISTING CONDUIT.
8. WATER SEAL ALL PENETRATIONS TO FOUNTAIN VAULT. COORDINATE CORE DRILLING AND CONDUIT ROUTING WITH MECHANICAL/PLUMBING CONTRACTOR. ALL FITTINGS, TERMINATIONS, CONNECTIONS AND DEVICES INCLUDING DISCONNECT SWITCHES SHALL BE WET RATED.
9. WATER SEAL ALL PENETRATIONS TO FOUNTAIN WALL. COORDINATE CORE DRILLING AND CONDUIT ROUTING WITH MECHANICAL/PLUMBING CONTRACTOR.
10. TYPICAL OF (8) FL1 FIXTURES. MOUNT FIXTURE TO GRATING VERTICAL STRUCTURE/SUPPORT. SEE DETAIL ON THIS SHEET. LOCATE LOW VOLTAGE TRANSFORMER INSIDE THE FOUNTAIN VAULT.
11. MOUNT FLEXIBLE LED SIGN FIXTURE AL1 BELOW THE CONCRETE SEAT OVERHANG. SEE SEAT WALL DETAIL ON ARCHITECTURAL DETAIL 3 ON SHEET A1.02.
12. PROVIDE 1" CONDUIT SLEEVE FOR LIGHT FIXTURE LOW VOLTAGE WIRING PATHWAY.
13. PROVIDE 1P-20A LIGHTING CIRCUIT FOR NEW FOUNTAIN LIGHTS AND SIGN LIGHTS TO BE CONTROLLED AND ROUTED THROUGH THE PHOTOSENSOR CONTROLS.
14. PROVIDE TYPE 2 CONCRETE HANDHOLE FOR HOUSING FIXTURE FL1 DRIVER. SEE SHEET PE1.01 FOR DETAIL.
15. PROVIDE WATERTIGHT CONNECTION TO FOUNTAIN PUMP, 240V, 1Ø, 5HP. PROVIDE
16. PROVIDE WATERTIGHT CONNECTION TO FOUNTAIN PUMP, 120V, 1Ø, 1/3HP.
17. CONNECT TO EXISTING BOLLARD CIRCUIT AND PHOTOCELL CONTROL.
18. EXISTING FLAGPOLE SPOT LIGHT FIXTURE TO REMAIN. PROVIDE NEW UNDERGROUND CONDUIT AND WIRING TO CONNECT TO EXISTING LIGHTING CIRCUIT.
19. CUT AND PATCH EXISTING CONCRETE SIDEWALK OR PAVEMENT TO FACILITATE NEW CONDUIT TRENCHING WORK. COORDINATE WORK WITH THE GENERAL CONTRACTOR.
20. PROVIDE 1" CONDUIT WITH (8) #10 AWG-Cu.



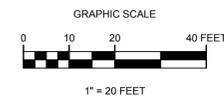
**B ELECTRICAL FOUNTAIN AND WALKWAY LIGHTING PLAN**

SCALE: 1" = 20'-0"



**A ELECTRICAL FOUNTAIN AND WALKWAY DEMO PLAN**

SCALE: 1" = 20'-0"

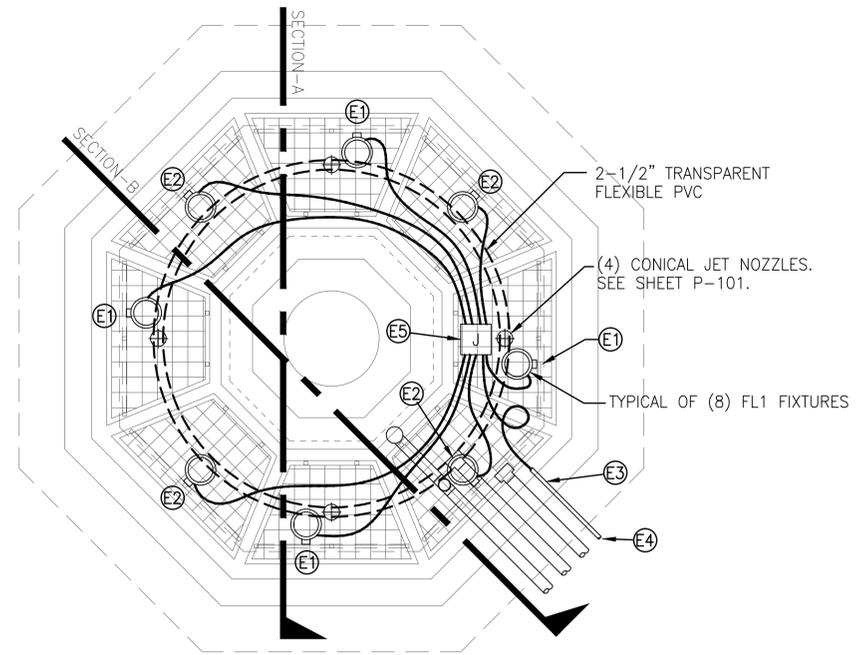


**CONSTRUCTION NOTES—PLUMBING**

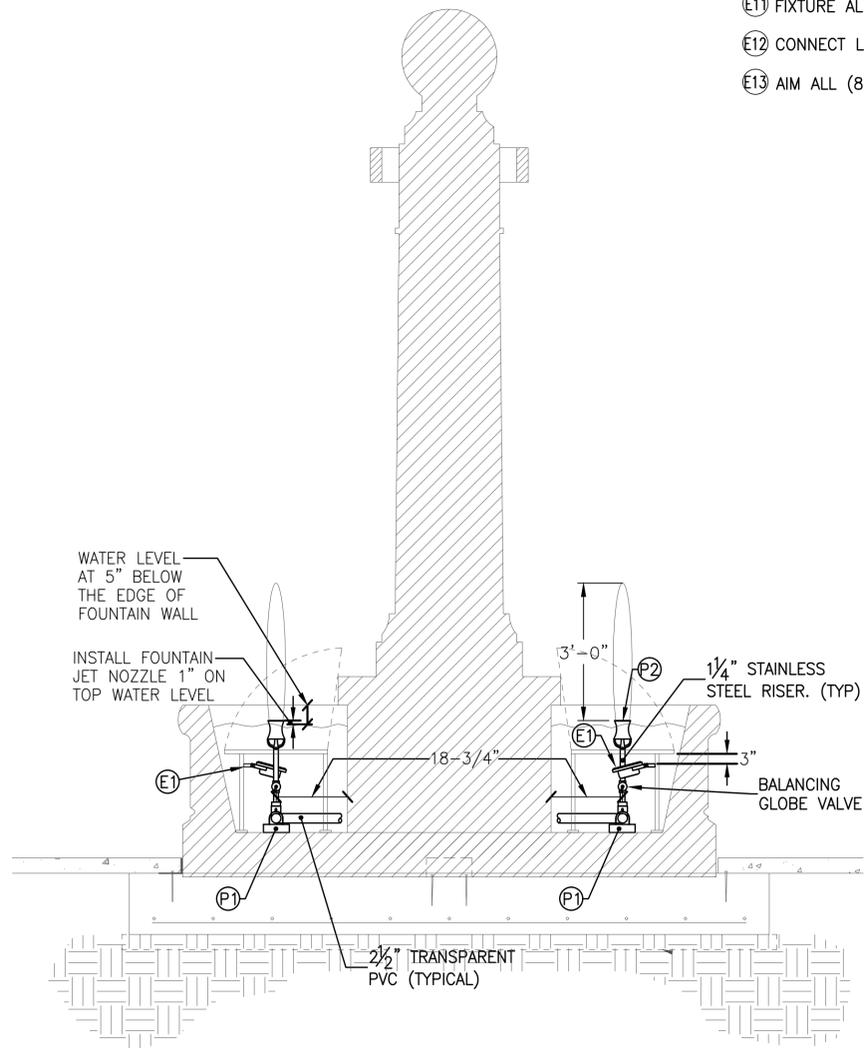
- P1 REFER TO SHEET P-1.01 FOR FOUNTAIN PIPING SUPPORT DETAIL. COORDINATE MOUNTING WITH GRATING INSTALLER.
- P2 CONICAL JET NOZZLE. REFER TO SHEET P-1.01 FOR MODEL AND LOCATION OF JETS.
- P3 3" STAINLESS STEEL OVERFLOW STANDPIPE WITH TACK WELDED OVERFLOW STANDPIPE CAP. REFER TO SHEET P-1.01 FOR MODEL AND INSTALLATION REQUIREMENTS.
- P4 REFER TO SHEET P-1.01 FOR PIPE THROUGH FOUNTAIN WALL PENETRATION DETAIL.
- P5 REFER TO SHEET P-1.01 FOR PIPE SIZES.

**CONSTRUCTION NOTES—ELECTRICAL**

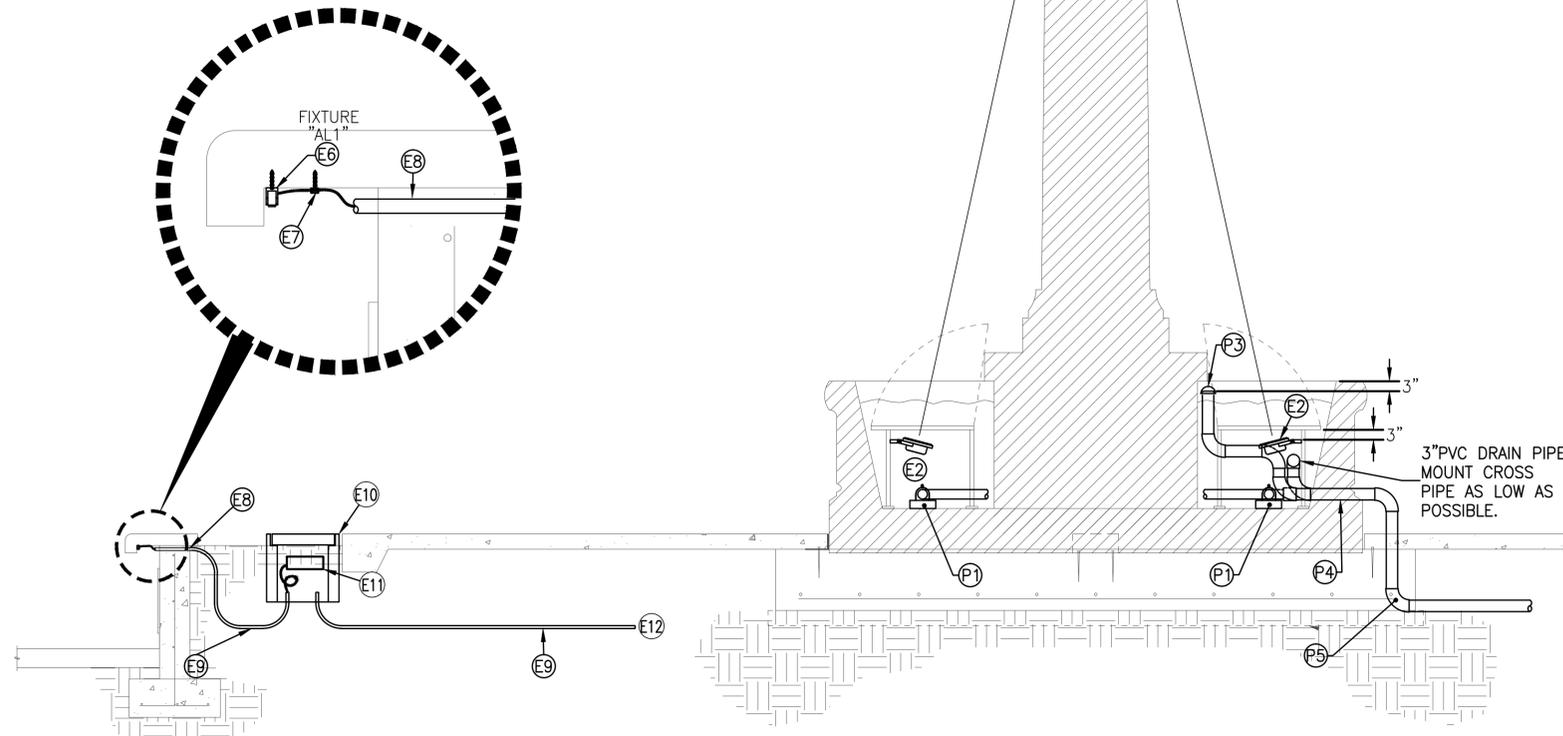
- E1 4 OF 8 FL1 FIXTURES ADJACENT TO THE FOUNTAIN JET HEADS. MOUNT TO GRATING SUPPORT HORIZONTAL POST. COORDINATE MOUNTING WITH GRATING INSTALLER.
- E2 4 OF 8 FL1 FIXTURES SHALL BE MOUNTED ON THE GRATING CENTER VERTICAL SUPPORT POST. COORDINATE MOUNTING WITH GRATING INSTALLER.
- E3 WATER SEAL ALL PENETRATIONS TO FOUNTAIN WALL. COORDINATE CORE DRILLING AND CONDUIT ROUTING WITH MECHANICAL/PLUMBING CONTRACTOR.
- E4 PROVIDE 1" CONDUIT FOR FIXTURE FL1 MANUFACTURER PROVIDED CABLE TO LED TRANSFORMER HANDHOLE.
- E5 FIXTURE FL1 FACTORY SUPPLIED 9-ENTRIES WET SEALED JUNCTION BOX WITH ALL PRE TERMINATED FIXTURE CORDS AND 30' TRANSFORMER CORD.
- E6 FIXTURE AL1. MOUNT BELOW CONCRETE SEATING. MOUNT AS CLOSE AS POSSIBLE TO CONCRETE LIP FOR BETTER SIGN LIGHTING. PROVIDE FACTORY MOUNTING CLIPS (MODALIGHT #SNX-CLIP) TO BE SECURED WITH CONCRETE ANCHOR SCREWS.
- E7 FACTORY PROVIDED FIXTURE CORD TO REMOTE DRIVER. PROVIDE CORD STRAP WITH ANCHOR SCREW TO SECURE CABLE.
- E8 PROVIDE 3/4" CONDUIT SLEEVE THROUGH CONCRETE WALL.
- E9 PROVIDE 3/4" UNDERGROUND CONDUIT 24" BELOW GRADE FOR FIXTURE WIRING.
- E10 PROVIDE TYPE-1 CONCRETE HANDHOLE TO HOUSE LED DRIVER. PROVIDE WITH LOCKABLE COVER.
- E11 FIXTURE AL1 LED WET LOCATION RATED DRIVER.
- E12 CONNECT LIGHTING CIRCUIT TO FOUNTAIN VAULT LIGHTING.
- E13 AIM ALL (8) FL1 FIXTURES TO THE CENTER OF FOUNTAIN.



**C FOUNTAIN LIGHTING AND PLUMBING ENLARGED PLAN**  
SCALE: N.T.S.



**A FOUNTAIN LIGHTING AND PLUMBING SECTION DETAIL**  
SCALE: N.T.S.



**B FOUNTAIN LIGHTING AND PLUMBING SECTION DETAIL**  
SCALE: N.T.S.



Project Title  
**CITY OF FIFE**  
Fountain Plaza



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Sheet Title  
**FOUNTAIN PLUMBING AND LIGHTING DETAIL**

Drawn By HS Checked By CH

Sheet Number

**PE0.01**