

GENERAL NOTES
1. REFER TO SHEET L302 FOR PLANT SCHEDULE, NOTES AND DETAILS.

CONSTRUCTION NOTES:

(1) EXPANSION JOINT, REFER TO WP PLANS

2 DALTON STREET BELOW

SODDED TURF

SOD REPAIR

SHRUBS / PERENNIALS

**GBBN** 

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332 East 8th Street Cincinnati, OH 45202 T (513) 241-8700 F (513) 241-8873 http://www.gbbn.com



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Civil Engineer

CIVIL Engineer
Landscape Architect
The Kleingers Group
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West Chester, OH 45069
(513) 779-7851

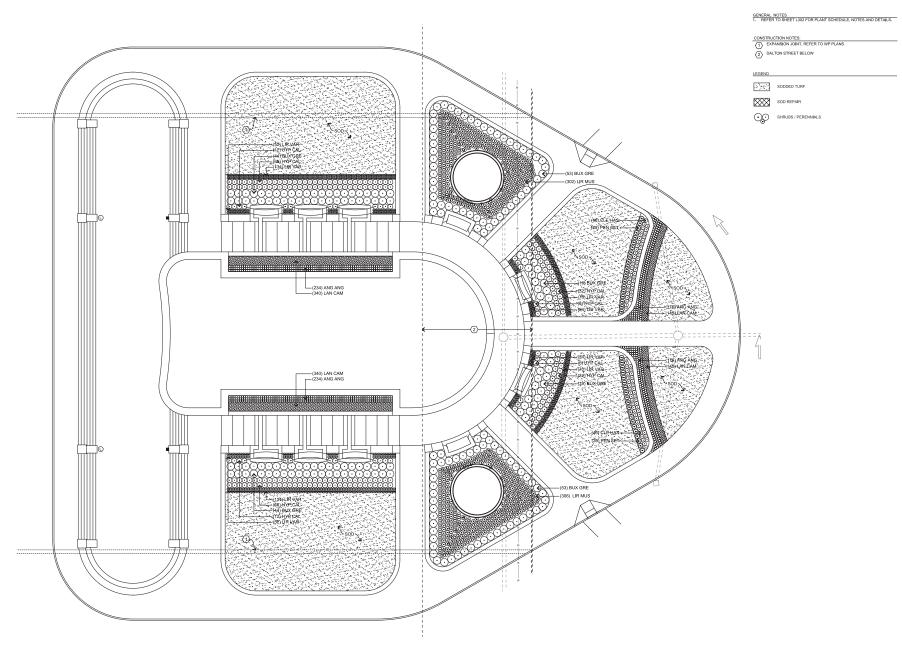
CONSTRUCTION DOCUMENTS PACKAGE E - EXTERIOR/SITE

No.	0.8%	Description
1	06/17/16	GMP - PKG, E
Drawing Title		

LANDSCAPE PLAN

Scale: 1" = 10"-0"

L300





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CONSTRUCTION DOCUMENTS PACKAGE E - EXTERIOR/SITE

1	06/17/16	GMP PKG E
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PLAZA LANDSCAPE PLAN

Scale: 1" = 10"-0"



- GENERAL PLANTING NOTES

  1. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
  2. ALL SHRING MASSES TO BE INCORPORATED BY A CONTINUOUS MULCH BED TO LIMITS SHOWN AND AS SPECIFIED, MULCH BEDS TO HAVE A NEAT, EDGED
  2. SUBSURFACE IMPROVEMENTS SHALL BE OSSERVED. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OURS) 48 HOURS PRIOR TO ANY EXCANATION ON DIGGING TO DESINGER THE LOCATION OF UNDERGROUND UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH LUDGERGROUND UTILITIES.
  3. ALL AREAS DIVINEDED BY CONSTRUCTION SHALL BE FINE GRADED AND SOLDED.
  4. ALL AREAS DIVINEDED BY CONSTRUCTION SHALL BE FINE GRADED AND SOLDED.
  5. CONTRACTOR SHALL CONFORM TO THOSE OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

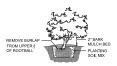
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TURFGRASS SOD: SEE SPECIFICATIONS

KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
SHRUBS:					
BUX GRE	BUXUS 'GREEN VELVET'	GREEN VELVET BOXWOOD	30° HT, MIN.	B&B	SPACE AT 36" O.C
BUX MIC	BUXUS MICROPHYLLA 'SUNNYSIDE'	SUNNYSIDE BOXWOOD	30" HT. MIN.	B&B	SPACE AT 48" O.C
HYP CAL	HYPERICUM CALYCINUM	ST. JOHN'S WORT	#3	CONT.	SPACE AT 24" O.C
VIB CAR	VIBURNUM CARLESII 'COMPACTUM'	COMPACT KOREANSPICE VIBURNUM	30° HT. MIN.	B&B	SPACE AT 36" O.C
		•			•
GROUNDC	OVERS AND PERENNIALS:				
LIR MUS	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILYTURF	#2	CONT.	SPACE AT 18" O.C
LIR VAR	LIRIOPE MUSCARI 'VARIIEGATA'	VARIEGATED LILYTURF	#2	CONT.	SPACE AT 12" O.C
		•	•	•	-
ANNUALS:					
ANG ANG	ANGELONIA ANGUSTIFOLIA	BLUE SUMMER SNAPDRAGON	4"	POT	SPACE 10" O.C.
CLE HAS	CLEOME HASSLERIANA	SPIDER FLOWER	6"	POT	SPACE 15" O.C.
LAN CAM	LANTANA CAMARA 'ANNE MARIE'	ANNE MARIE LANTANA	4"	POT	SPACE 10" O.C.
	PENNISETUM SETACEUM 'RUBRUM'	PURPLE FOUNTAIN GRASS	6"	POT	SPACE 24" O.C.









LAWN AREA

6° TYP.

PLANTING OR MULCH AREA

MULCH 2" DEPTH

VERTICAL EDGE

EXISTING GRADE OF PLANTING AREA



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Drawing Issue:

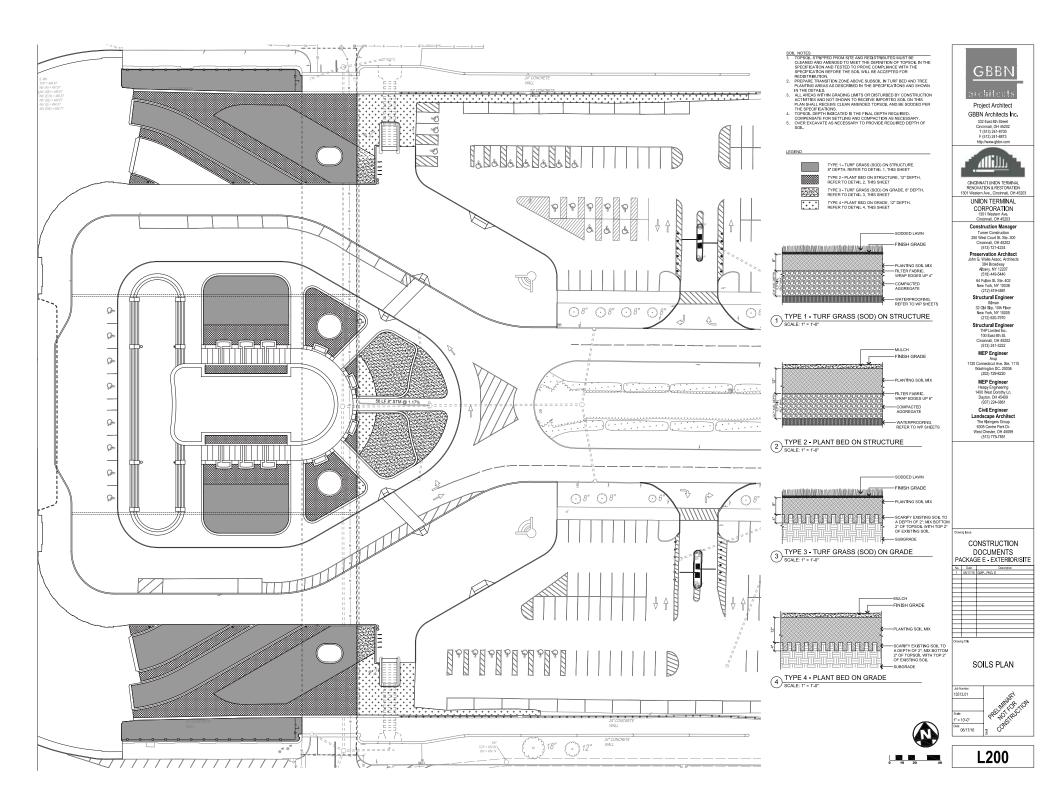
CONSTRUCTION DOCUMENTS PACKAGE E - EXTERIOR/SITE

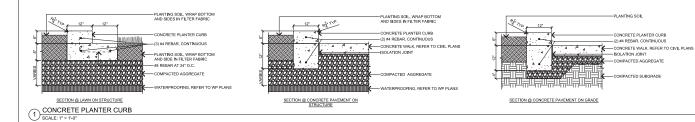


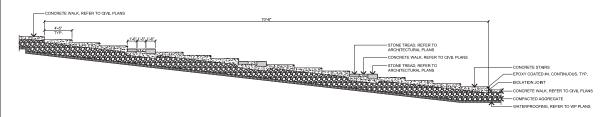
LANDSCAPE NOTES AND DETAILS

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Date:	
06/17/16	~ C

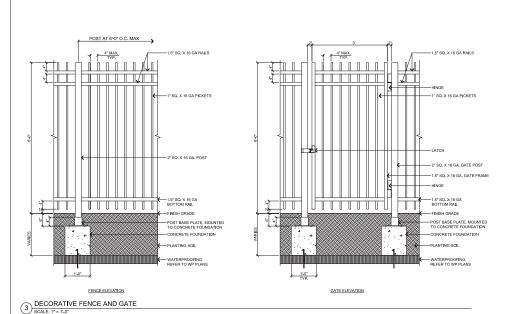
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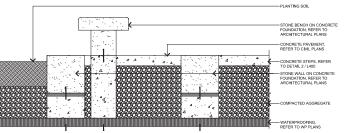




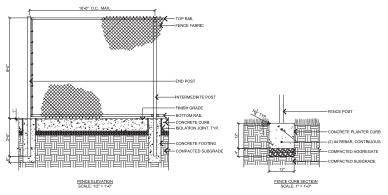


CONCRETE STAIRS
SCALE: 1/4" = 1'-0"





CONCRETE PAVEMENT @ BENCH PADS SCALE: 1" = 1"-0"



5 CHAIN LINK FENCE AND CURB SCALE: AS SHOWN

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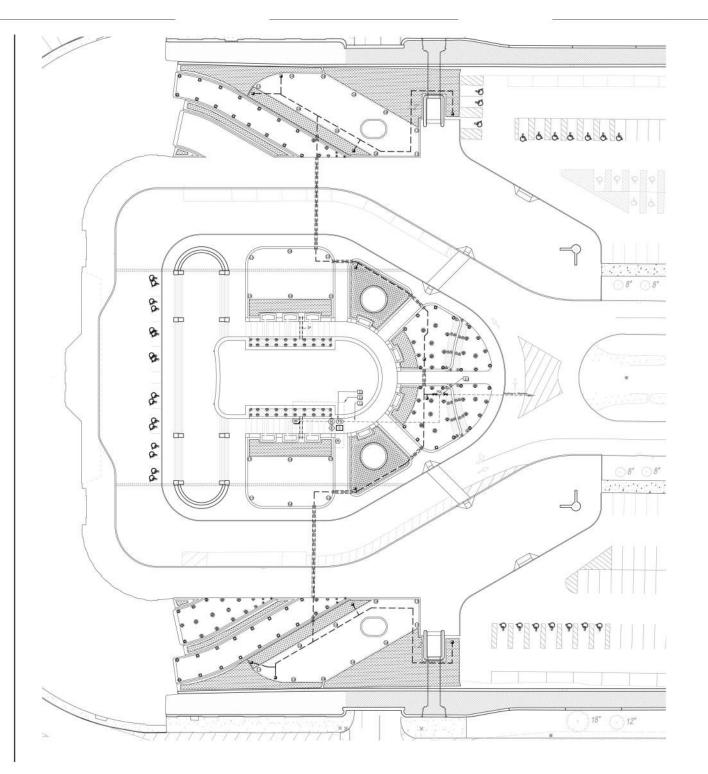
Civil Engineer Landscape Architect The Kleingers Group 6305 Centre Park Dr. West Chester, OH 45069 (513) 779-7851

CONSTRUCTION DOCUMENTS PACKAGE E - EXTERIOR/SITE

No.	Date	Description		
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Drawing Tide				
SITE DETAILS				

06/17/16

L400



### IDDICATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
****	Rain Bird 1904-U-SAM-PRS UB Series Turf Spray 4" Pop-Up Sprinkler with Seal-A-Madic Check Vi Pressure Regulating, U-Series/HE-Visn Nozzle
6656	Rain Bed 1804-U-SAW-PRS U10 Series Turf Spray 4" Pop-Up Sprinkler with Seal-A-Madic Check Vi Pressure Regulating, U-Series/HE-Van Nozzle
<b>66686</b> 0	Roin Bird 1004-U-SAM-PRS U12 Series Turf Spray 4" Pop-Up Sprinkler with Seal-A-Melic Check Vi Pressure Regulating, U-Series/HE-Viss Nozzie
***	Rain Bird 1804-U-SAM-PRS U15 Series Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Vi Pressure Regulating, U-SeriesHtE-Van Nozole
0 mc -m 0 mc -m	Ruin Bird 1804-U-SAM-PRS ADJ Turf Spray 4" Pop-Up Sprinkler with Seal-A Mallo Check Vi Pressure Regulating, U-Serines NE-Yan Nozzle
0 0 0	Roin Bird 1934-SAM-PRS ACJ Turf Spray 4" Pop-Up Sprinkler with Seal-A-Metic Check Vi Pressure Regulating, VMN Nozzle.
***	Plain Bird 1812-SAM-PRIS-U 15 Strip Series Shrub Spray, 12" Pop-Up Sprinkler with Seel-A-Matic Chec Valve Pressors Regulating & U-Series/HE-Van Nozcle
9999	Pain Bird 1812-SAM-PRS-U US Series. Shrub Spray, 12" Pop-Up Sprinher with Seal-A-Maltic Chec Volve. Pressure Regulating & U-Series/HE-Van Nozzle.
8 me-w@:pe-m 6 me-w6:pe-m	Rote Bed 1812-SAM-PRS-U ACU Brinds Spray, 12" Popt-Up Sprinder with Seal-A-Matic Chec Valve, Pressure, Regulating & U-Serles/HE-Van Nozzle
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
9	Rain Bird 9004-PCR Turf Robot, 6" Pop-Up, with in-Stern Pressure Regulator
0	Rain Bird 5004-PCR Turf Rotor, 4" Pop-Up, with In-Stern Pressure Regulator
0	Rain Birs 5004-PCR: Turf Roter, 4" Pop-Up, with in-Stern Pressure Regulator
9	Plain Bird 5004-PCR Turf Rotor, 4" Pop-Up, with in Storn Pressure Regulator
9	Ruin Bes 9004-PCR Turf Rotor, 4" Pop-Up, with in-Stern Pressure Regulator
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
5000000000	Area to Receive Oripline Ruan Bird XFCV-06-18
	Name Best AFCV-06-16 AFCV-07-9fisce Landscape Dispine with a Heavy-Duty II Check Yahau. 0x50PH entitions at 15°-0x.C Dispine laterals spaced approximately 15°-4 popt hateful it yeld potter. or on I sides of landscape if only single row of planting exists.
SYMBOL.	MANUFACTURER/MODEL/DESCRIPTION
•	Rain Bird PGA Series Valves 1", 1-10", 2" Electric Remote Control Valve
	Fluin Bird 5-RC 1" Brass Quick-Coupling Valve, installed with Lasos Unitize Swing Joint with Snep-Lok Stabilizer.
¥	Nibon T-113-K Class 125 bronze gale shut off valve with cross handle, san size as mainline pipe diameter at valve location.
0	Roin Bird PEB Master Valve 2* 2" Master Velve
0	Rain Bird ESPLXMEF Install modules to get a 40 Station flow sensing Commercia Controller. Mouvited on a Plastic Wall Mount, Imgation controllers in remove socialing controllers and related to and re-trailal existing zone control wins, who new Centroll
<b>®</b>	Pain Bird WRQ-1975 Wireless Rein-Freeze Sensor, Locate on exterior of building Manufacturer's recommendations.
<b>©</b>	Rain Bird IO-NCC-EN

(F9)

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Irrigation Lotents Line: PVC Class 200 SDR 21
PVC Class 200 irrigation pipe. Cirty Materi Iramatikon pipe sizes 1
12' and above are indicated on the plan, with all offers being 1' in size.

Pipo Sterve: PVC Schedulo 40
Min. Sterve Stor 3" Unless Noted

### REFERENCE NOTES SCHEDULE

SYMBOL DESCRIPTION

Existing 3" PVC below, to irrigation system at grade

Impation equipment to be located in Fountain Pump Room below

Impation Contractor to cut into existing 3" PVC mainline and install Master Volve & Flow Sensor & wire to new controller, Maintain minimal address to between the property of the property of





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(212) 619-4661 Structural Engineer Silman 32 Old Sig., 10th Floor New York, NY 10005 (212) 620-7570

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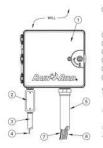
CONSTRUCTION DOCUMENTS

NL.	Sate	Description
-	09:17/98	GMP - PKG . E

IRRIGATION PLAN



1100



(1) IF PVC MAINLINE CONCENTRIC REDUCER CONTROL WIRES WITH 12" MIN. SERVICE COIL AND WATERPROOF WIRE SPLICE CONNECTORS - WIRE COLORS PER SPECIFICATIONS

(5) PVC MALE ADAPTER

(3) 1-INOH CONDUST AND FITTINGS TO POWER SUPPLY

(4) POWER SUPPLY WIRE

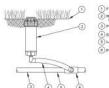
(5) 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES

(a) MASTER VALVE AND REMOTE CONTROL VALVE WIRES (7) FLOW SENSOR WIRE (PE 39, 89 OR 54) TO FLOW SENSOR

ESPLANET CONTROLLER IS AVAILABLE. IN 5- OR 12 TESTATION MASE
MODELS ADDITIONAL MODICAS IN 16 - AND 12 TESTATION WAS
MODELS ADDITIONAL MODICAS IN 16 - AND 12 TESTATION WAS
MANUAL.
MAN

### RAIN BIRD ESP-LXMEF CONTROLLER WITH FLOW SMART MODULE

SCALE: NOT TO SCALE



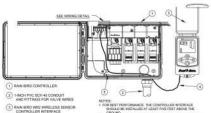
(4) SWING ASSEMBLY

#### RAIN BIRD 4" ROTOR 5004-PCR

T PVC MALE ADAPTER - BUSH DOWN TO PLOW METER SIZE AS NECESSARY

(8) MASTER VALVE PER PLAN

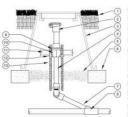
SCALE: NOT TO SCALE



### (5) GROUND WIRE TO GROUNDING GRID **RAIN BIRD WR2** WIRELESS RAIN/FREEZE SENSOR

NOT TO SCALE

(4) CABLE HARNESS FOR CONTROLLER INTERFACE (30" MAXIMUM)



(1) FINISH GRADE/TOP OF MULCH 2 QUICK-COUPLING VALVE-RAIN BIRD MODEL SRC

(3) VALVE BOX WITH COVER

PVC SCH 80 NIPPLE (LENGTH AS REQUIRED) 8 3-INCH MINIMUM DEPTH OF 3M-INCH WASHED GRAVEL

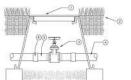
(6) BRICK (1 OF 2) MANUFACTURED SWING JOIN PVC 9CH 40 TEE OR ELL SNAP-LOK RING SNAP-LON

SCALE: NOT TO SCALE

IT PVC PIPE STABILIZER ELBOW (13) 1/2" OR 3/8" REBAR

RAIN BIRD QUICK COUPLER

5RC SERIES W/ SNAP LOK



(1) VALVE BOX WITH COVER (2) FINISH GRADE

(3) NBCO T-113-K GATE VALVE (4) MAINE INF - PER PLAN

SCH 80 TOE NIPPLE SCH 40 PVC GLUE COUPLING

### NIBCO T-113-K GATE VALVE

SCALE: NOT TO SCALE



ROTOR POP-UP SPRINGER: RAIN BRD 5004-FO/PC

3) PVC LATERAL PIPE LATERAL PIPE



RAINBIRD 4" FIXED SPRAY 1804-SAM-PRS

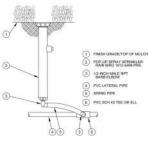
(1) FINISH GRADE/TOP OF MULCH

2 POP-UP SPRAY SPRINKLER: RAIN BIRD 1804-SAM-PRS

(3) PVC LATERAL PIPE

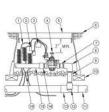
(4) SWING ASSEMBLY

(5) PVC SCH 40 TEE OR ELL



RAIN BIRD 12" FIXED SPRAY 1812-SAM-PRS

SOME: NOT TO SOME



RAIN BIRD PGA SERIES

1 SO INCH LINEAR LENGTH OF (2) WATERPROOF CONNECTIONS

(3) ID TAG: PAIN BIRD VID SERIES

(4) REMOTE CONTROL VALVE. (§) VALVE BOX WITH COVER

(A) FINISH GRADE/TOP OF MULCH PVC SCH SD NPPLE (CLOSE)

PVC BCH 40 ELL PVC SCH BO NPPLE ILENSTH AS REGURED

(1) BRICK (1 OF 4) (1) PVC MAINLINE PIPE

(1) SCH SO NPRIE BUNCH SCH 40 BU (13) PVC SCH 40 TEE OR ELL (14) PVC SCH 40 MALE ADAPTER

PVC LATERAL PIPE (B) 3.0-INCH MINIMUM DEPTH OF 34-INCH WASHED GRAVEL

MEP Engineer Anap 1120 Connectical Ass. Ste. 1110 Washington DC. 20036 (202) 729-8220 ELECTRIC REMOTE CONTROL VALVE

MEP Engineer Heapy Engineering 1400 West Dorothy Lr. Deyton, OH 45409 (937) 224-0861 Civil Engineer

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CONSTRUCTION DOCUMENTS PACKAGE E - EXTERIOR/SITE

Ms. Date Description
1 0617/16 (IMP\*-P9CLE)

IRRIGATION DETAILS

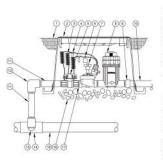
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1200

(1) ENISHED GRADE 2) 120 YOLT ELECTRICAL - INSTALL PER LOCAL CODES - IF REQUIRED 3) LATERAL PIPING MAINLINE PIPING ) IRRIGATION CONTROL WIRES HYDRAUUC TUBNG - IF REQUIRED (a) (a) (a) (a) TRENCH DEPTHS A B C D PRESCRIPTORIO IF IF PROME IF

TRENCH DETAIL SCALE: NOT TO SCALE

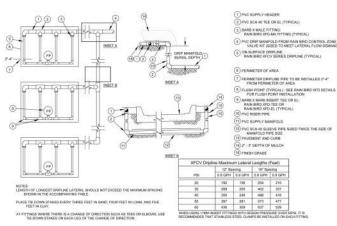
MASTER VALVE / FLOW SENSOR TYPICAL INSTALLATION SCALE NOT TO SCALE



RAIN BIRD XCZ-PRB-LC DRIP CONTROL ZONE KIT  REMOTE CONTROL VALVE
 REMOTE CONTROL VALVE
 RAN BRID PLESS INCLUCED IN
 XEZ-PAR-700 COAN TOTAL
 RESEMBLY PROJUCENT STORY
 REMOTE CONTROL ATTMS GUICK
 CHECK BACKET PATE:
 REM BRID PRESPICENT TOT PVC SCH 80 NPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL PVC SCH-80 TEE OR ELL SHINCH MINIMUM DEPTH OF 344NOH WASHED GRAVEL PVC SCHIOLNEPILE, CLOSE (MCLUDED IN XCZ PRB-100-COM RT)

LATERAL PIPE

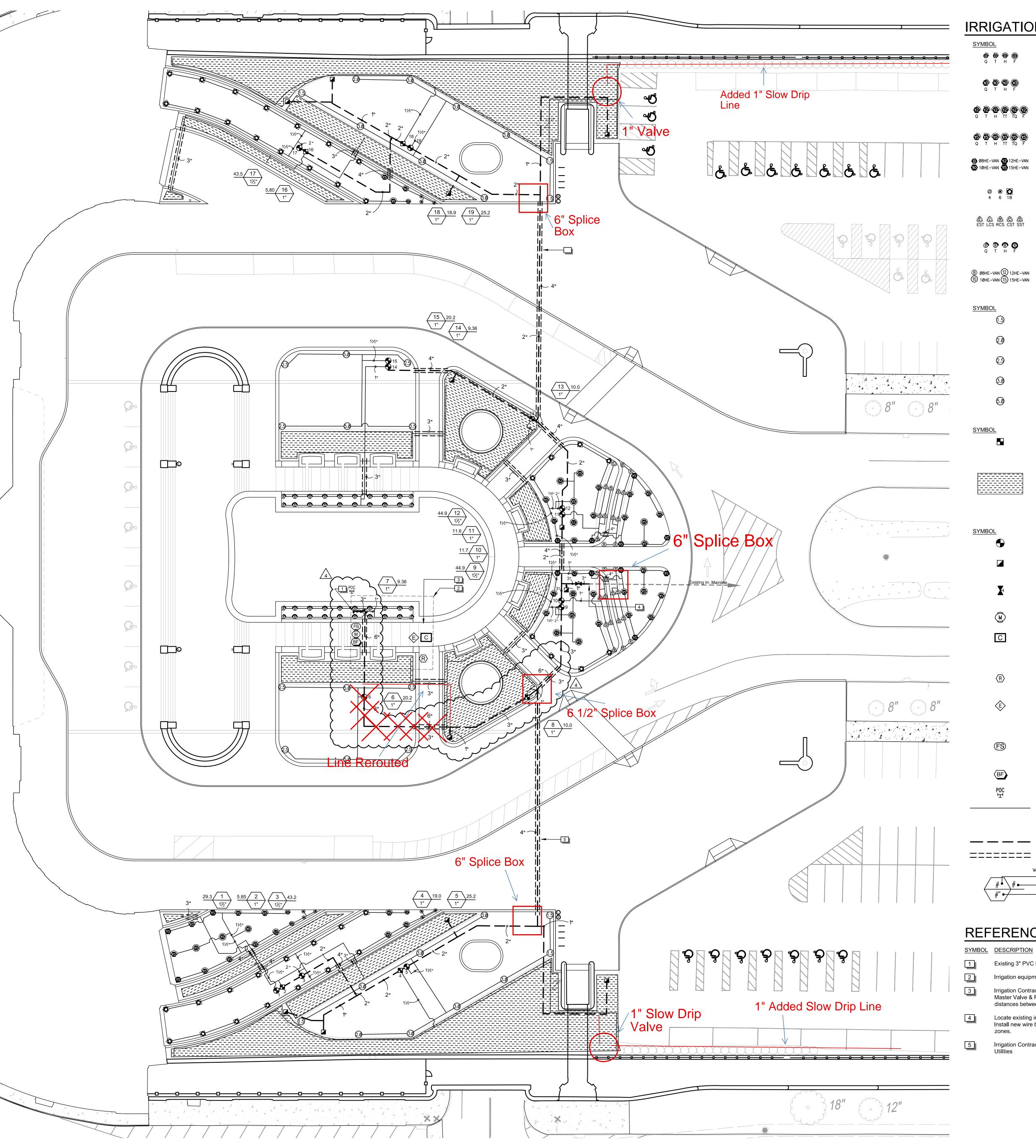
WANLINE PIPE



MULTIPLE DRIP AREA DETAIL

SCALE: NOT TO SCALE

SCALE NOT TO SCALE



# IRRIGATION SCHEDULE

MANUFACTURER/MODEL/DESCRIPTION Rain Bird 1804-U-SAM-PRS U8 Series Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Valve. Pressure Regulating, U-Series/HE-Van Nozzle

Rain Bird 1804-U-SAM-PRS U10 Series Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Valve.

> Pressure Regulating, U-Series/HE-Van Nozzle Rain Bird 1804-U-SAM-PRS U12 Series Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Valve. Pressure Regulating, U-Series/HE-Van Nozzle

Rain Bird 1804-U-SAM-PRS U15 Series Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Valve.

Pressure Regulating, U-Series/HE-Van Nozzle Rain Bird 1804-U-SAM-PRS ADJ

Pressure Regulating, U-Series/HE-Van Nozzle Rain Bird 1804-SAM-PRS ADJ Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Valve.

Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Valve.

Pressure Regulating. VAN Nozzle. Rain Bird 1812-SAM-PRS-U 15 Strip Series Shrub Spray, 12" Pop-Up Sprinkler with Seal-A-Matic Check

Valve. Pressure Regulating & U-Series/HE-Van Nozzle Rain Bird 1812-SAM-PRS-U U8 Series Shrub Spray, 12" Pop-Up Sprinkler with Seal-A-Matic Check Valve. Pressure Regulating & U-Series/HE-Van Nozzle

> Rain Bird 1812-SAM-PRS-U ADJ Shrub Spray, 12" Pop-Up Sprinkler with Seal-A-Matic Check Valve. Pressure Regulating & U-Series/HE-Van Nozzle

MANUFACTURER/MODEL/DESCRIPTION Turf Rotor, 4" Pop-Up, with In-Stem Pressure Regulator

Rain Bird 5004-R-PC

Rain Bird 5004-R-PC Turf Rotor, 4" Pop-Up, with In-Stem Pressure Regulator Rain Bird 5004-R-PC Turf Rotor, 4" Pop-Up, with In-Stem Pressure Regulator

Turf Rotor, 4" Pop-Up, with In-Stem Pressure Regulator Rain Bird 5004-R-PC Turf Rotor, 4" Pop-Up, with In-Stem Pressure Regulator

MANUFACTURER/MODEL/DESCRIPTION

Rain Bird XCZ-100-PRB-LC Medium Plus Flow Drip Control Kit, for Light Commercial Uses. 1" PGA Valve, with 1" Pressure Regulating 40psi Basket Filter. 5gpm to 20gpm.

Area to Receive Dripline Rain Bird XFCV-06-18

XFCV On-Surface Landscape Dripline with a Heavy-Duty 3.5 psi Check Valve. 0.6GPH emitters at 18" O.C. Dripline laterals spaced approximately 18" apart.Install in grid pattern, or on both sides of landscape if only single row of planting exists.

MANUFACTURER/MODEL/DESCRIPTION Rain Bird PGA Series Valves 1", 1-1/2", 2" Electric Remote Control Valve

1" Brass Quick-Coupling Valve, installed with Lasco Unitized Swing Joint with Snap-Lok Stabilizer.

Class 125 bronze gate shut off valve with cross handle, same size as mainline pipe diameter at valve location. Rain Bird PEB Master Valve 2"

2" Master Valve. (Below Grade) Rain Bird ESPLXMEF

> Install modules to get a 48 Station flow sensing Commercial Controller. Mounted on a Plastic Wall Mount. Irrigation contractor to remove existing controllers and return to Owner, and re-install existing zone control wires, into new Controller.

Rain Bird WR2-RFS Wireless Rain/Freeze Sensor. Locate on exterior of building, per Manufacturer`s recommendations. Rain Bird IQ-NCC-EN

Irrigation Contractor to install IQ NCC Ethernet Cartridge into controller to upgrade to an IQ ready satellite controller. Includes embedded Ethernet Network Modem with RJ-45 Port, and Patch Cable. Requires LAN network static IP address.

Rain Bird FS-200-P 2" Flow Sensor. Install per Manufacturer's requirements. (Below

Existing Backflow Device Estimated location shown. (Below Grade) 3" Irrigation Connection Stub Out from below

Min. Sleeve Size 3" Unless Noted

Irrigation Lateral Line: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe. Only lateral transition pipe sizes 1 1/2" and above are indicated on the plan, with all others being 1"

Irrigation Mainline: PVC Class 200 SDR 21 \_\_\_\_\_ Pipe Sleeve: PVC Schedule 40

# REFERENCE NOTES SCHEDULE

SYMBOL DESCRIPTION

Existing 3" PVC below, to irrigation system at grade

Irrigation equipment to be located in Fountain Pump Room below

Irrigation Contractor to cut into existing 3" PVC mainline and install Master Valve & Flow Sensor & wire to new controller. Maintain minimum distances between equipment, per Manufacturer's recommendations.

Locate existing irrigation mainline and reconnect to new Irrigation POC. Install new wire back to new controller (if necessary), & program existing

Irrigation Contractor to coordinate sleeve location to avoid conflicts with

### **IRRIGATION NOTES**

- 1. 60 psi and a rate of 45 gpm required at the point of connection. Irrigation contractor is responsible to verify actual conditions before starting installation. If flow/pressure conditions cannot be met, field adjustment may be necessary (booster pump, zone resizing and/or mainline size upgrade etc) to achieve sufficient operation of system.
- 2. All pipe shall be Class 200 PVC pipe, unless noted otherwise.
- 3. All wiring as per local code.
- 4. Backflow prevention is existing.
- 5. The irrigation system is diagrammatic; adjustments necessary in the field shall be made by the Contractor.
- 6. All valves shall be located in valve boxes flush with grade.
- 7. The irrigation system shall be installed as per Manufacturer's Specifications.
- 8. Winterization of system shall be as per Manufacturer's Specifications.

improvements. Coordinate with the General Contractor.

- 9. Sleeving shall be required under all walks and roadways. Sleeve size shall be twice (2x) the size of pipe being sleeved. (minimum 3" unless noted).
- 10. Drawings and details supplied show necessary materials, but certain other materials may have to be supplied and installed by the irrigation contractor in order to have upon completion a fully operational irrigation system.
- 11. Bidding Contractors should become thoroughly familiar with all facets of the proposed irrigation system. Failure to clarify misunderstandings, or intent of these drawings and specifications before submittal of bid shall be the responsibility of the Contractor.
- 12. The Irrigation Contractor shall locate all utilities as are commonly encountered underground and shall take proper precautions not to damage or disturb such
- 13. Irrigation Contractor will arrange inspections required by local agencies and ordinances during the course of construction as required.
- 14. Full and complete coverage is required. Irrigation contractor shall make any necessary minor adjustments to layout required to achieve full coverage of irrigation areas, at no additional cost to the owner.
- 15. Electrical power will be provided to Controller location(s). Coordinate with owner's authorized representative as to final location of Controller. Coordinate electrical connection with Electrical Contractor.
- 16. Install rain sensor per Manufacturer's recommendations. Coordinate all sensor locations with Owner's Authorized Representative.
- 17. Irrigation control wire shall be solid copper wire u.l. approved for direct burial in ground. Minimum gauge: #14 u.f. (#12 u.f. for runs over 2000 l.f.) Common ground wire shall be
- 18. 24 vac wire splicing material will be direct burial splice kit as manufactured by 3M, or
- 19. Riser extensions for sprinklers or a fixed riser with a shrub head/ adapter, may be required, to get proper coverage, in some areas. Contractor to install as needed.
- 20. Irrigation piping should be installed so that there is no disturbance to the critical root zones of existing trees.
- 21. Irrigation laterals & mainline shown as-is for clarity. Install in turf or landscape areas. 22. Mainline depth to be 18" minimum. Thrust block all 3" mainline at fittings. Lateral line
- 23. Irrigation Contractor responsible to install lateral piping from drip area to drip area, the installation of flush valves & air relief valves where needed. Do not exceed maximum lateral drip line runs. See Manufacturer's data for additional information.
- 24. All irrigation controllers to be grounded per Manufacturer's recommendations.



architects

Project Architect GBBN Architects Inc.





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Cincinnati, OH 45202 (513) 721-4224 **Preservation Architect** 

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> 64 Fulton St. Ste. 402 New York, NY 10038 (212) 619-4881

**Structural Engineer** 32 Old Slip, 10th Floor New York, NY 10005

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**MEP Engineer** 

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Dayton, OH 45409 (937) 224-0861 Civil Engineer Landscape Architect The Kleingers Group 6305 Centre Park Dr.

> West Chester, OH 45069 (513) 779-7851

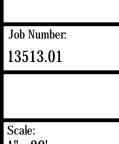


Drawing Issue:

CONSTRUCTION **DOCUMENTS** PACKAGE E - EXTERIOR/SITE

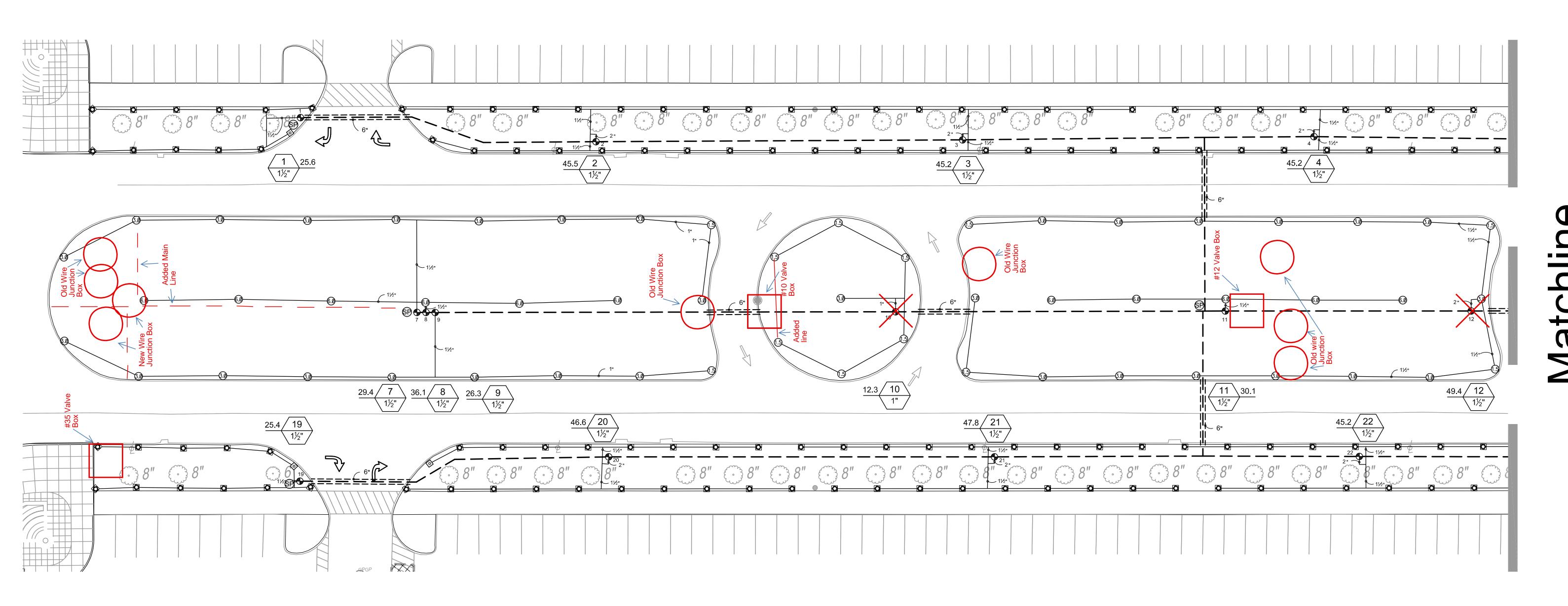
06/17/16 GMP - PKG. E 2 08/12/16 CONSTRUCTION DOCUMENTS - PKG. 1

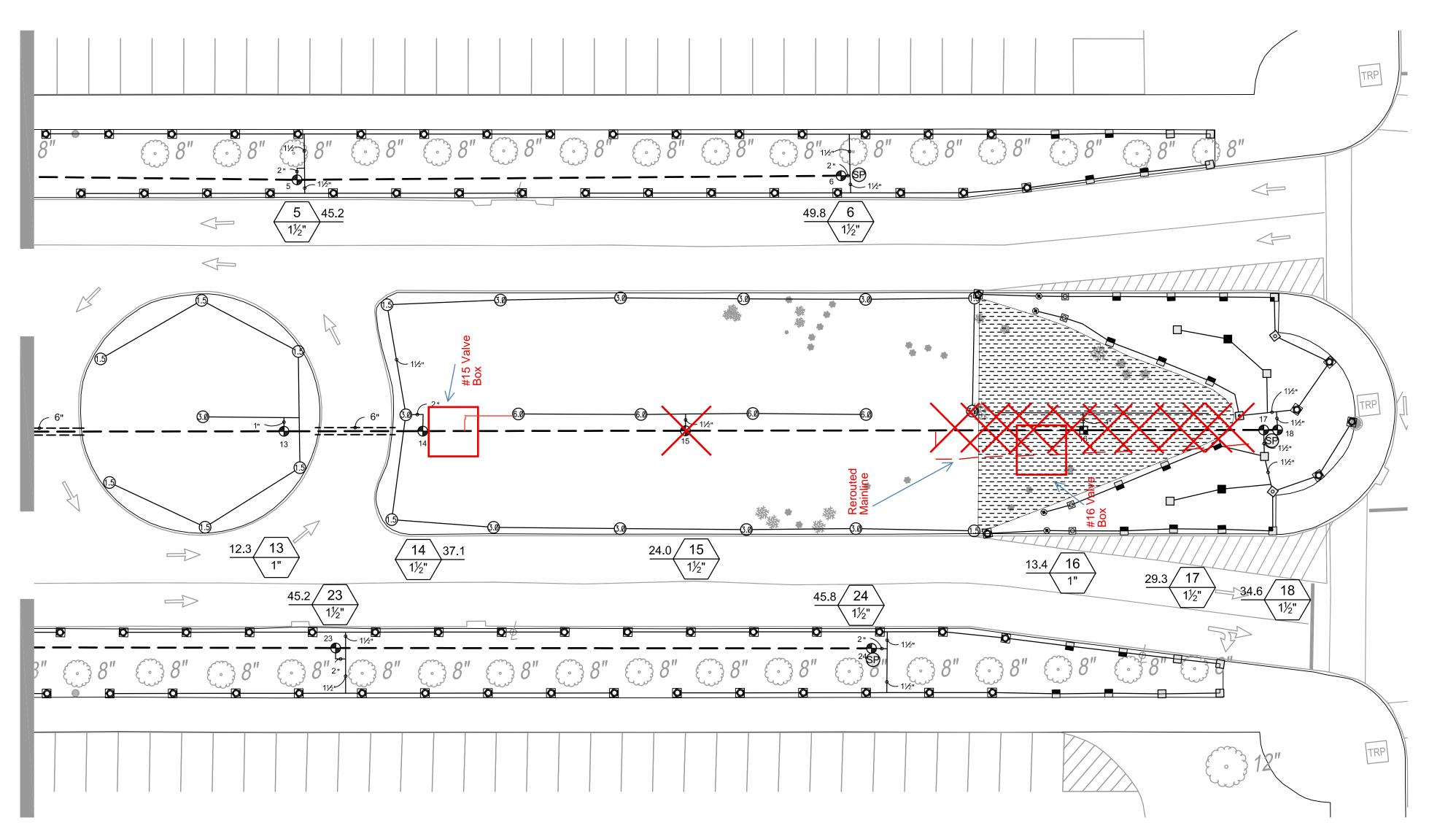
IRRIGATION PLAN



01/11/18







# IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
Ø Ø Ø Ø Q T H F	Rain Bird 1804-SAM-PRS 8 Series MPR Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Valve. Pressure Regulating. VAN Nozzle.

Rain Bird 1804-SAM-PRS 12 Series MPR Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Valve. Pressure Regulating. VAN Nozzle.

Rain Bird 1804-SAM-PRS 15 Series MPR Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Valve. Pressure Regulating. VAN Nozzle.

Rain Bird 1804-SAM-PRS ADJ Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Valve. Pressure Regulating. VAN Nozzle.

□ 10HE-VAN 15HE-VAN Turf Spray 4" Pop-Up Sprinkler with Seal-A-Matic Check Valve. Pressure Regulating. VAN Nozzle.

## MANUFACTURER/MODEL/DESCRIPTION

- Rain Bird 5004-R-PC Turf Rotor, 4" Pop-Up, with In-Stem Pressure Regulator
- Rain Bird 5004-R-PC Turf Rotor, 4" Pop-Up, with In-Stem Pressure Regulator
- Rain Bird 5004-R-PC
- Turf Rotor, 4" Pop-Up, with In-Stem Pressure Regulator Rain Bird 5004-R-PC
- Turf Rotor, 4" Pop-Up, with In-Stem Pressure Regulator

### SYMBOL MANUFACTURER/MODEL/DESCRIPTION

with each Valve.

Rain Bird XCZ-100-PRB-LC Medium Plus Flow Drip Control Kit, for Light Commercial Uses. 1" PGA Valve, with 1" Pressure Regulating 40psi Basket Filter. 5gpm to 20gpm. Install One Rain Bird FD-101 2-Wire Decoder

Area to Receive Dripline Rain Bird XFCV-06-18 XFCV On-Surface Landscape Dripline with a Heavy-Duty 3.5 psi Check Valve. 0.6GPH emitters at 18" O.C. Dripline laterals spaced approximately 18" apart.Install in grid pattern, or on both

## MANUFACTURER/MODEL/DESCRIPTION

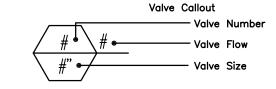
Rain Bird PGA Series Valves 1", 1-1/2" Electric Remote Control Valve. Install One Rain Bird FD-101 2-Wire Decoder with each Valve.

sides of landscape if only single row of planting exists.

Rain Bird LSP-1TURF Line surge protection decoder directly to the ground rod or ground plate

Irrigation Lateral Line: PVC Class 200 SDR 21

— — Irrigation Mainline: PVC Class 200 SDR 21 Pipe Sleeve: PVC Schedule 40 Min. Sleeve Size 3" Unless Noted



# **IRRIGATION NOTES**

- 1. This system is to be added on to the existing irrigation system. Connect to existing 3" mainline for hydraulics and existing 2-Wire path for electric controls. Each solenoid valve shall include a Rain Bird FD-101 decoder. 70 psi and a rate of 50 gpm required for operation of these zones. Irrigation contractor is responsible to verify actual conditions before starting installation. If flow and/or pressure conditions cannot be met, field adjustment may be necessary, such as addition of a Booster Pump, or resizing zones and/or mainline size upgrade etc., to achieve sufficient operation of system.
- 2. All pipe shall be Class 200 PVC pipe, unless noted otherwise. If HDPE mainline is not used, as designed, refer to Note "27" (edit as needed), regarding Joint Restraints.
- 3. All wiring as per local code.
- 4. Backflow prevention as per local code. See Plumbing Plans, if available.
- 5. The irrigation system is diagrammatic; adjustments necessary in the field shall be made by the Contractor.
- 6. All valves shall be located in valve boxes flush with grade.
- 7. The irrigation system shall be installed as per Manufacturer's Specifications.
- 8. Winterization of system shall be as per Manufacturer's Specifications.
- 9. Sleeving shall be required under all walks and roadways. Sleeve size shall be twice (2x) the size of pipe being sleeved. (minimum 3" unless noted).
- 10. Drawings and details supplied show necessary materials, but certain other materials may have to be supplied and installed by the Irrigation Contractor in order to have upon completion a fully operational irrigation system.
- 11. Bidding Contractors should become thoroughly familiar with all facets of the proposed irrigation system. Failure to clarify misunderstandings, or intent of these drawings and specifications before submittal of bid shall be the
- 12. The Irrigation Contractor shall locate all utilities as are commonly encountered underground and shall take proper precautions not to damage or disturb such improvements. Coordinate with the General Contractor.
- 13. Irrigation Contractor will arrange inspections required by local agencies and ordinances during the course of construction as required.
- 14. Full and complete coverage is required. Irrigation contractor shall make any necessary minor adjustments to
- layout required to achieve full coverage of irrigation areas, at no additional cost to the owner. 15. Electrical power will be provided to controller location(s). Coordinate with owner's authorized representative as to
- 16. Install rain sensor(s) tipping rain gauge per Manufacturer's recommendations. Coordinate all sensor locations with Owner's Authorized Representative.
- 17. Irrigation control wire shall be Rain Bird Maxi-Cable. Control wire will be solid copper wire u.l. approved for direct
- burial in ground. Minimum gauge: #14 u.f.
- 18. 24 vac wire splicing material will be direct burial splice kit as manufactured by 3M, or equivalent. 19. Riser extensions for sprinklers or a fixed riser with a shrub head/ adapter, may be required, to get proper

final location of controller. Coordinate electrical connection with Electrical Contractor.

- coverage, in some areas. Contractor to install as needed. 20. Irrigation piping should be installed so that there is no disturbance to the critical root zones of existing trees.
- 21. Irrigation laterals & mainline shown as-is for clarity. Install in turf or landscape areas.
- 22. Mainline depth to be 18" minimum. Lateral line depth to be minimum 12".
- 23. Irrigation Contractor responsible to install lateral piping from drip area to drip area, the installation of flush valves & air relief valves where needed. Do not exceed maximum lateral drip line runs. See Manufacturer's data for additional information.
- 24. All irrigation controllers & decoder systems to be grounded per Manufacturer's recommendations.
- 25. Irrigation Contractor to select & install appropriate decoders where required.
- 27. All mainline 3" & above to be gasketed pvc pipe. Install Joint Restraints on all changes of direction AND all joints within the calculated length from restrained fittings, must also be restrained. See Joint Restraint Manufacturer for calculations. Thrust Blocks are not accepted.

Products

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PROJECT TITLE

Cincinnati Union Terminal Additional Irrigation

SHEET TITLE

Irrigation Plan

PROJECT NUMBER

2018-RSR-87

5-31-2018

REVISIONS-

9-6-2018

SHEET NUMBER-