PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME / COMMON NAME	SIZE	QTY
	CB	CARPINUS BETULUS `FASTIGIATA` / PYRAMIDAL EUROPEAN HORNBEAN	2.5" CAL.	11
	CJ	CERCIDIPHYLLUM JAPONICUM / KATSURA TREE	1.5" CAL.	3
	CP	CHAMAECYPARIS NOOTKATENSIS 'PENDULA' / WEEPING ALASKAN CEDAR	1.5" CAL.	11
	FS	FRAXINUS PENNSYLVANICA `SUMMIT` / SUMMIT ASH	2.5" CAL.	5
	HJ	HAMAMELIS X INTERMEDIA `JELENA` / JELENA WITCH HAZEL	1" CAL.	3
	SJ	STYRAX JAPONICUS / JAPANESE SNOWBELL	1.5" CAL.	1
	TD	THUJA OCCIDENTALIS `DEGROOT`S SPIRE` / DEGROOT`S SPIRE ARBORVITAE	6` HT.	3

SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	SIZE	QTY
	BW	BERBERIS X GLADWYNESIS `WILLIAM PENN` / WILLIAM PENN BARBERRY	5 GAL	60
	CK	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS	5 GAL.	5
	CT	CHOISYA TERNATA / MEXICAN ORANGE	7 GAL	4
	CS	CORNUS SERICEA `KELSEY` / KELSEY'S DWARF RED-OSIER DOGWOOD	1 GAL	22
	DN	DEUTZIA GRACILIS `NIKKO` / NIKKO SLENDER DEUTZIA	3 GAL	48
	GS	GAULTHERIA SHALLON / SALAL	1 GAL	9
	IH	ILEX CRENATA `HELERI` / HELLER'S JAPANESE HOLLY	2 GAL	7
	IV	ITEA VIRGINICA `HENRY`S GARNET` / HENRY`S GARNET SWEETSPIRE	5 GAL	10
	JS	JUNIPERUS SCOPULORUM `SKYROCKET` / SKYROCKET JUNIPER	15 GAL.	32
	KP	KERRIA JAPONICA `PLENIFLORA` / DOUBLE JAPANESE KERRIA	2 GAL	11
	LN	LONICERA NITIDA `RED TIPS` / RED TIPS BOX HONEYSUCKLE	5 GAL	37
	LP	LONICERA PILEATA / PRIVET HONEYSUCKLE	3 GAL	16
	NG	NANDINA DOMESTICA `GULF STREAM` TM / GULF STREAM HEAVENLY BAMBOO	3 GAL	15
	PL	PRUNUS LAUROCERASUS `MOUNT VERNON` / MOUNT VERNON LAUREL	2 GAL	54
	SR	SARCOCOCCA RUSCIFOLIA / FRAGRANT SARCOCOCCA	2 GAL	7
	SL	SPIRAEA X BUMALDA `MAGIC CARPET` / MAGIC CARPET SPIREA	2 GAL	22
	VO	VACCINIUM OVATUM / EVERGREEN HUCKLEBERRY	7 GAL	19
	WF	WEIGELA FLORIDA `SPILLED WINE' / WEIGELA	2 GAL.	62

GROUND COVERS	CODE	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	QTY
	CT2	CAREX TESTACEA / CAREX	1 GAL	24" o.c.	44
	FC	FRAGARIA CHILOENSIS / BEACH STRAWBERRY	4"POT	15" o.c.	290
	LM	LIRIOPE MUSCARI `MONROE WHITE` / MONROE WHITE LIRIOPE	4"POT	15" o.c.	434

PLANT SCHEDULE - WATER QUALITY AREA, RAIN GARDEN

SYMBOL	CODE	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	QTY
ZONE A (SATURATED)					
STORMWATER PLANTINGS	CODE	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	QTY
	CO	CAREX OBNUPTA / SLOUGH SEDGE	PLUG	12" o.c.	609
	JP	JUNCUS PATENS / SPREADING RUSH	1 GAL	12" o.c.	911
ZONE B (RIPARIAN ZONE)					
GROUNDCOVERS:					
		ARCTOSTAPHYLOS UVA-URSI / KINNIKINNICK	1 GAL.	1' o.c.	387
		MAHONIA REPENS / CREEPING MAHONIA	1 GAL.	1' o.c.	387
SHRUBS:					
		CORNUS SERICEA 'KELSEY'/ KELSEY RED TWIG DOGWOOD	1 GAL.	2' o.c.	6
		HOLODISCUS DISCOLOR / OCEAN-SPRAY	1 GAL.	2' o.c.	6
		SALIX PURPUREA 'NANA' / DWARF ARCTIC WILLOW	1 GAL.	2' o.c.	6
		SPIRAEA BETUFOLIA 'TOR'	1 GAL.	2' o.c.	6
		SPIRAEA DOUGLASII / WESTERN SPIREA	1 GAL.	2' o.c.	7
TREES:					
		RHAMNUS PURSHIANA / CASCARA TREE	2 GAL.		4
		SALIX SCOULERIANA / SCOULER'S WILLOW	2 GAL.		4

WATER QUALITY AREA INFORMATION

CWS PLANTING REQUIREMENTS:	
TOTAL TREATMENT AREA ZONE A:	=1,463 SF
TOTAL # OF PLUGS, ZONE A:	=1,463
TOTAL TREATMENT AREA ZONE B:	= 773 SF
TOTAL # OF GROUNDCOVERS, ZONE B:	= 773
TOTAL # OF SHRUBS, ZONE B:	= 31 [(773 / 100) x 4]
TREES OPTIONAL	

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CEDAR GROVE
812 & 822 NW MURRAY BLVD.
BEAVERTON, OREGON
COMMUNITY PARTNERS FOR
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LAND USE REVIEW

PLANTING LEGEND

PROJECT NO.
15055

04.17.2019

L1.00

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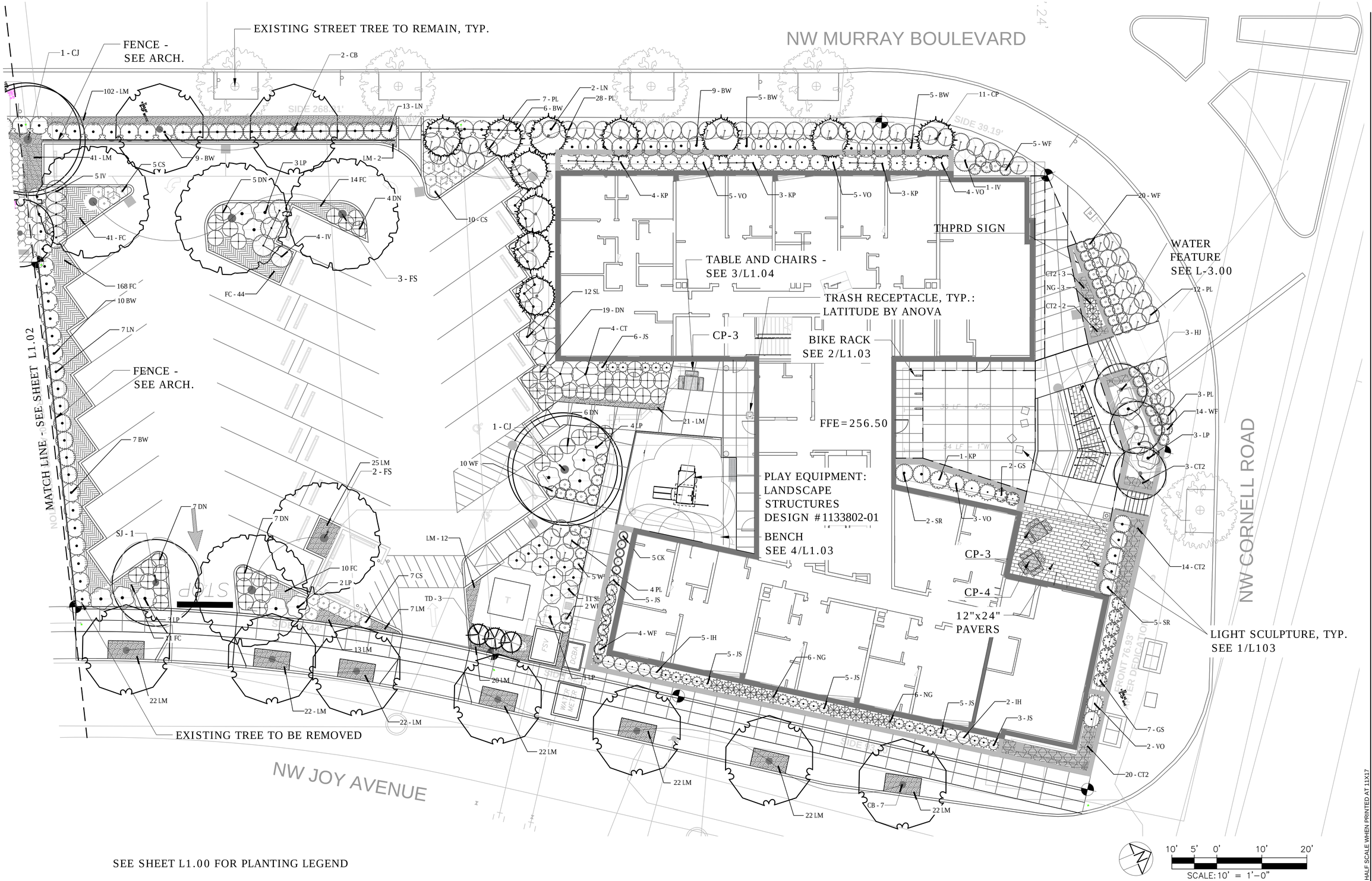

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LANDSCAPE PLAN

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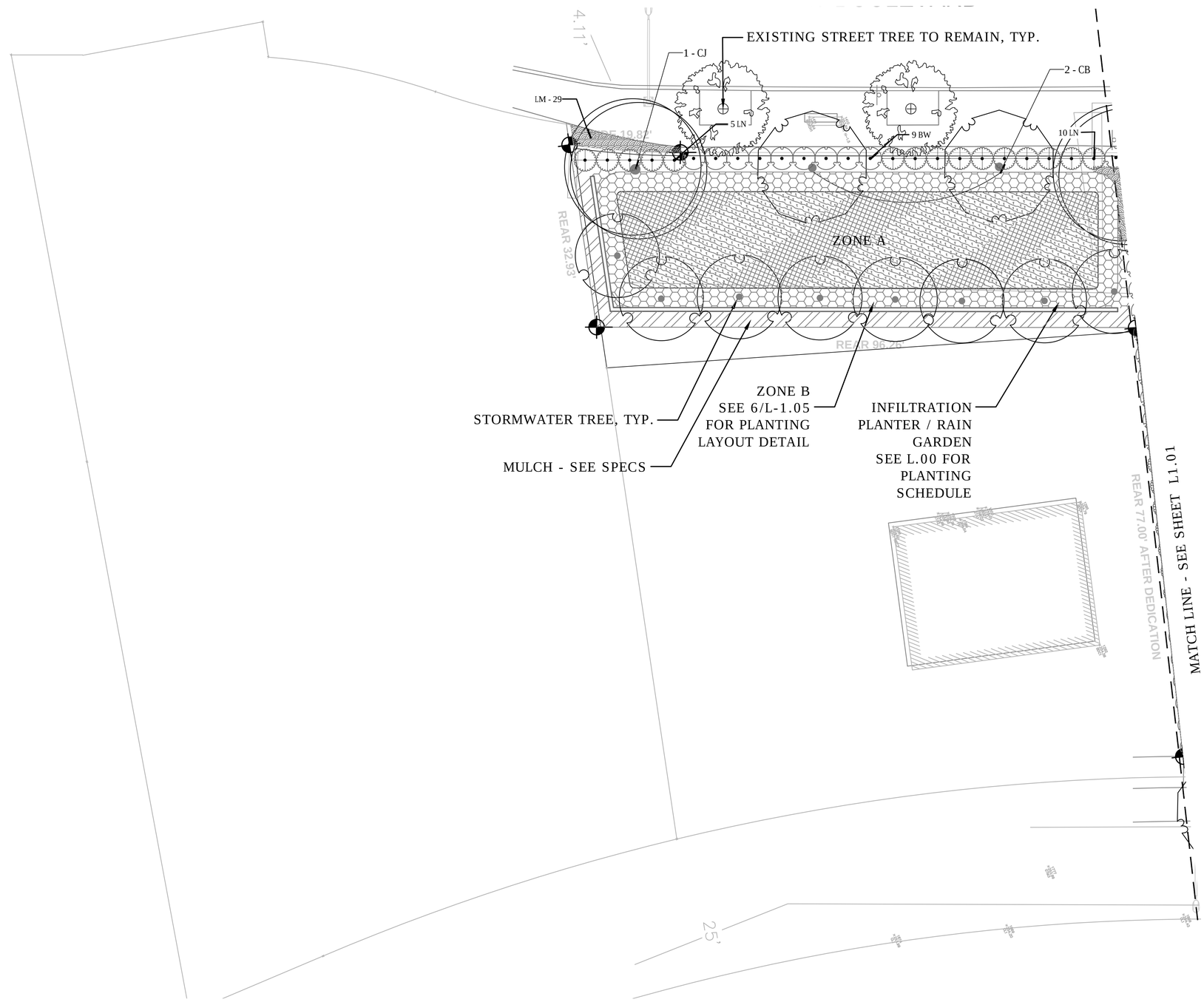

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10' 5' 0' 10' 20'

SCALE: 10' = 1'-0"

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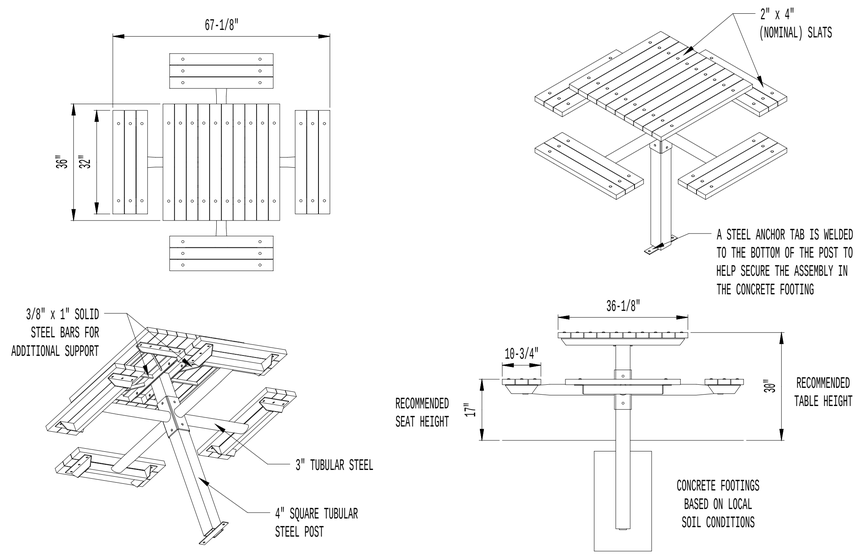
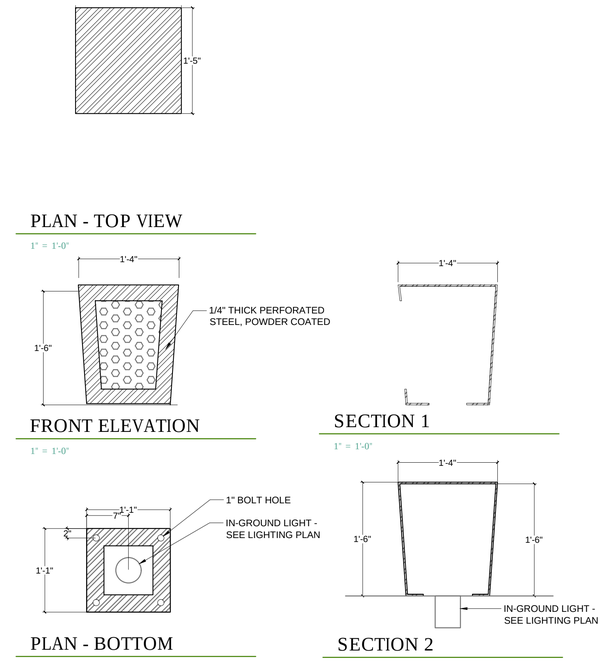


3 CP-4 VICTOR STANLEY TABLE AND BENCHES

N.T.S.



PLAN - TOP VIEW

1" = 1'-0"

FRONT ELEVATION

1" = 1'-0"

SECTION 1

1" = 1'-0"

PLAN - BOTTOM

1" = 1'-0"

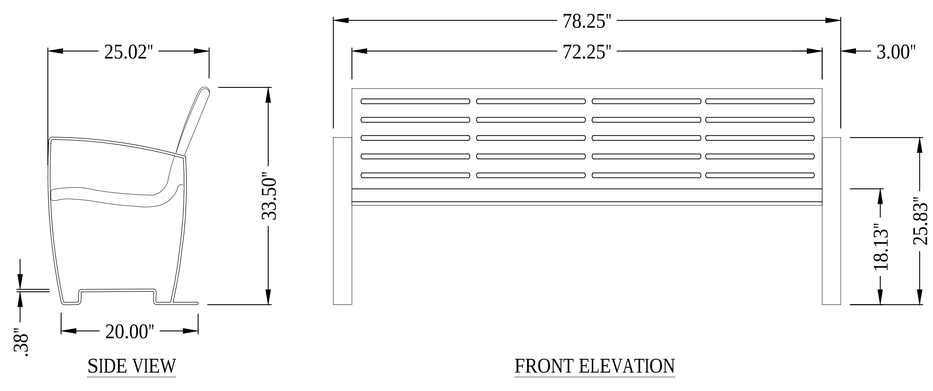
SECTION 2

1" = 1'-0"

1 LIGHT SCULPTURE

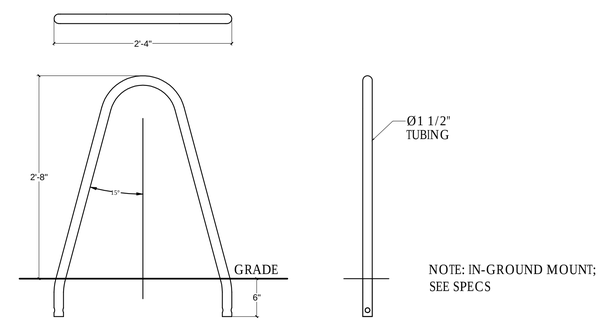
1" = 1'-0"

NOTE: SURFACE
MOUNT; SEE SPECS



4 LNC6 NEWCASLE SLOTTED STEEL CONTOUR BENCH

N.T.S.



2 BOLA BIKE RACK

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SITE DETAILS

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L1.03

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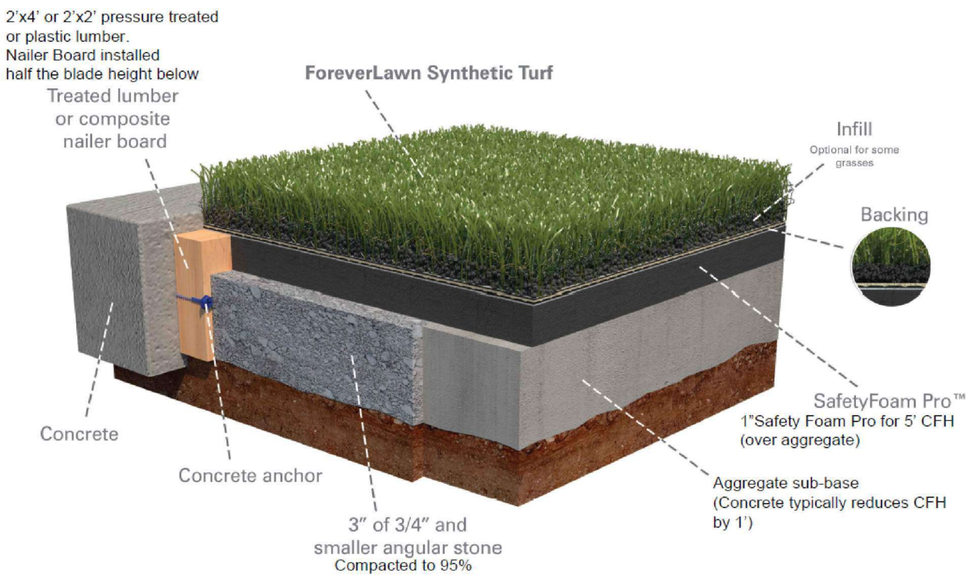

2 SYNTHETIC TURF SAFETY SURFACING

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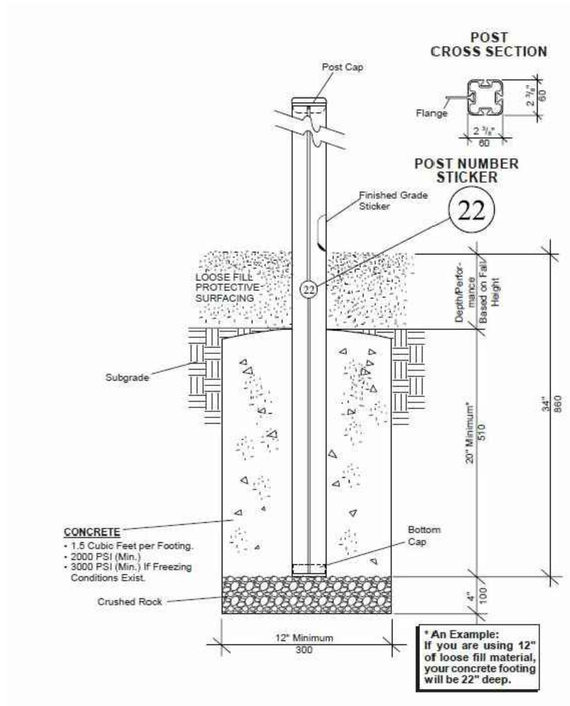

1 PLAY EQUIPMENT FOOTING

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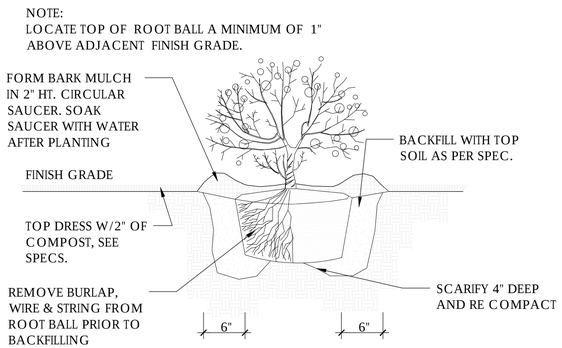
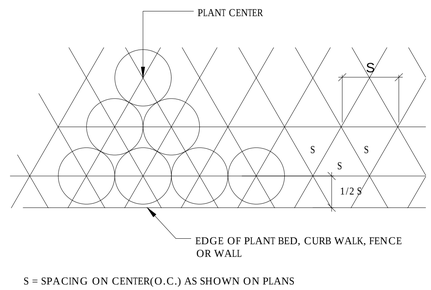


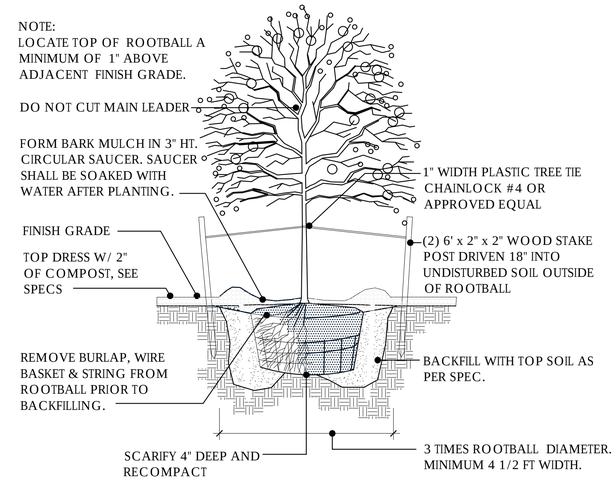
1 SHRUB PLANTING DETAIL

N.T.S.



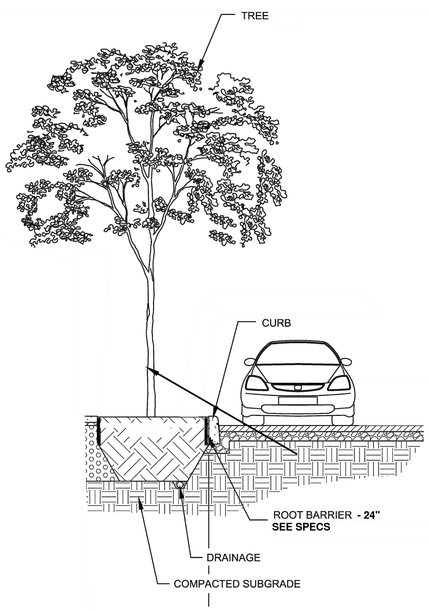
2 GROUNDCOVER PLANTING DETAIL

N.T.S.



3 TREE PLANTING DETAIL

N.T.S.



5 ROOT BARRIER AT SIDEWALK AND CURBS

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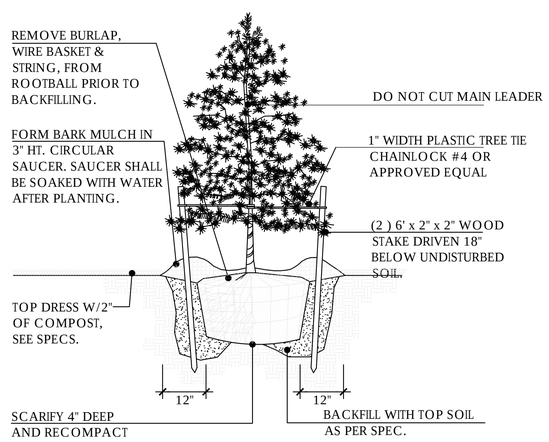

4 EVERGREEN TREE PLANTING DETAIL

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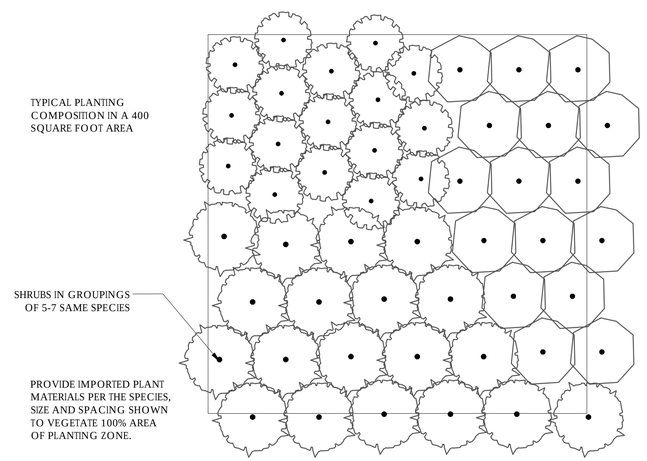

6 RAIN GARDEN PLANTING LAYOUT

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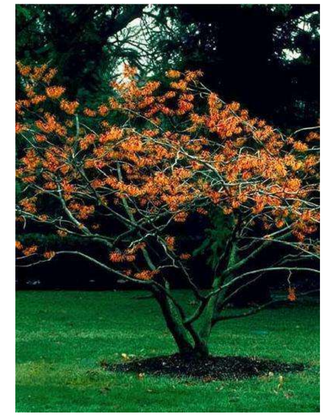
TREES

Carpinus betulus 'Fastigiata'
Pyramidal European Hornbeam

Cercidiphyllum japonicum
Katsura Tree

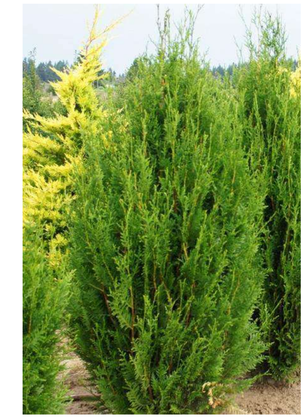
Cornus kousa x nuttalii 'KN4-43'
Starlight Dogwood

Fraxinus pennsylvanica 'Summit'
Summit Ash



Hamamelis x intermedia 'Jelena'
Jelena Witch Hazel

Styrax japonica
Japanese Styrax



Thuja plicata 'Virescens'
Virescens Western Red Cedar

HEDGE PLANTS

Berberis x gladwynesis 'William Penn'
William Penn Barberry

Lonicera nitida 'Red Tips'
Red Tips Box Honeysuckle

SHRUBS

Choisya ternata
Mexican Orange

Nandina domestica 'Gulf Stream'
Heavenly Bamboo

Deutzia gracilis 'Nikko'
Slender deutzia

Lonicera pileata
Privet Honeysuckle

Itea virginica 'Henry's Garnet'
Garnet Sweetspire

Gaultheria shallon
Salal

Hydrangea quercifolia 'Pee Wee'
Pee Wee Oakleaf Hydrangea

Kerria japonica
Japanese Kerria

Sarcococca ruscifolia
Fragrant Sarcococca

Spiraea x bumalda 'Goldflame'
Goldflame Spirea

Vaccinium ovatum
Evergreen Huckleberry

Weigela florida 'Spilled Wine'
Spilled Wine Weigela

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PLANT IMAGES

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L1.06

GROUNDCOVER, FERNS + GRASSES, VINES

Fragaria chiloensis
Beach Strawberry

Calamagrostis x acutiflora
Feather Reed Grass

Liriope Muscari 'Monroe's White'
Monroe's While Lilyturf

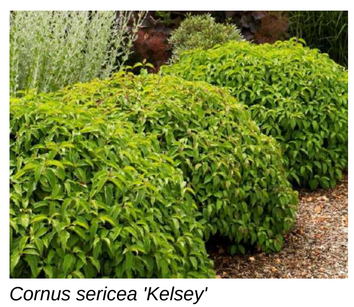
Carex testacea
Carex

Prunus laurocerasus 'Mount Vernon'
Mount Vernon Laurel

INFILTRATION PLANTER / RAIN GARDEN PLANTS

Arctostaphylos uva-ursi
Kinnickinnick

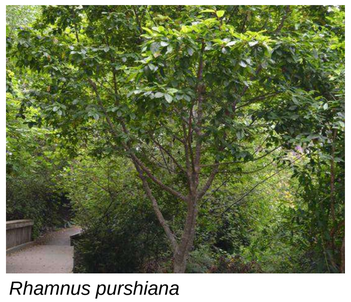
Carex obnupta
Slough Sedge


Cornus sericea 'Kelsey'
Kelsey Red Twig Dogwood

Holodiscus discolor
Ocean-spray

Juncus patens
Spreading Rush

Mahonia repens
Creeping mahonia


Rhamnus purshiana
Cascara Tree

Spiraea betufolia 'Tor'
Birchleaf Spirea

Spiraea douglasii
Douglas spirea

Salix purpurea 'Nana'
Dwarf Arctic Willow

Salix scouleriana
Scouler's Willow

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PLANT IMAGES

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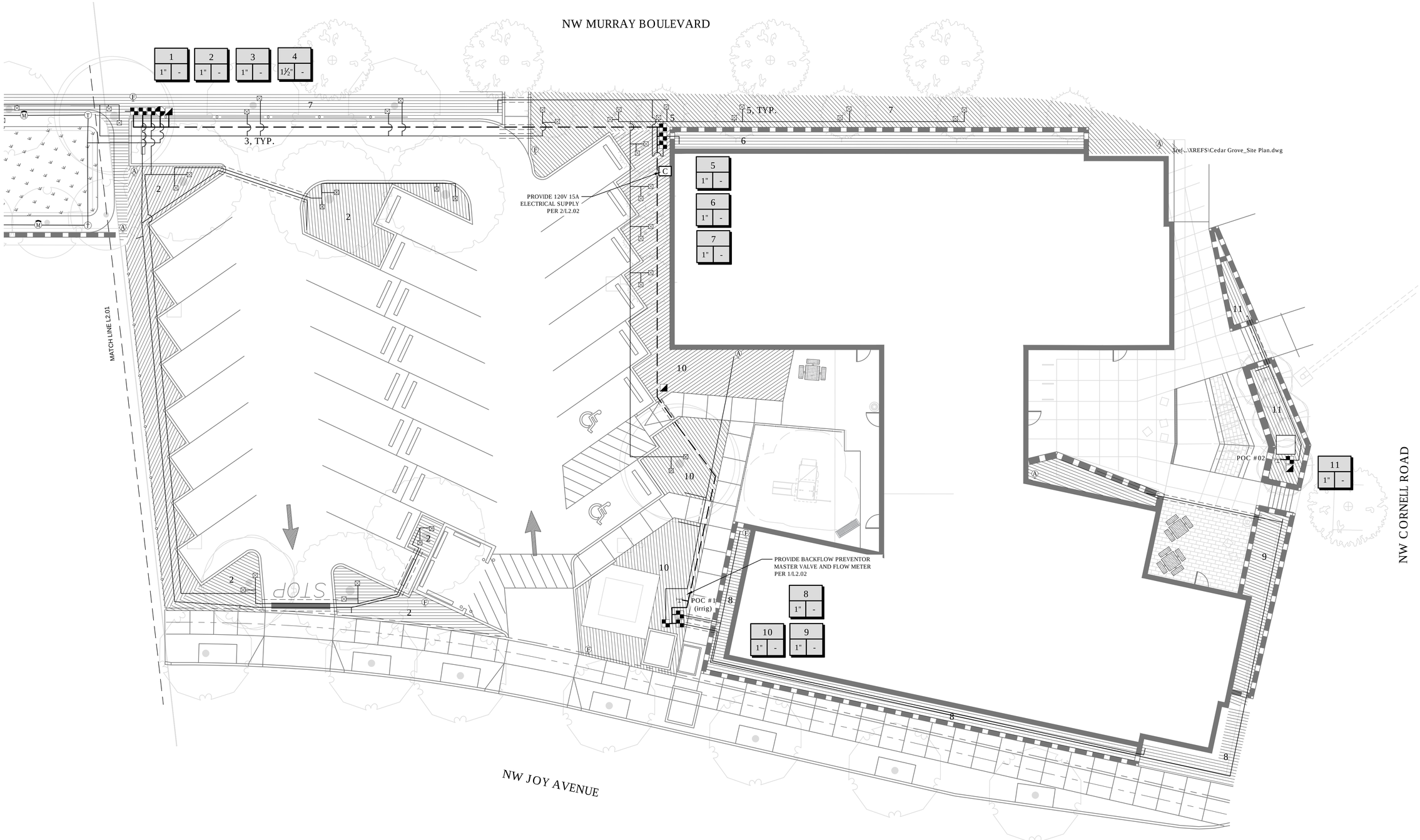

1. SEE SHEET L2.01 FOR IRRIGATION EQUIPMENT SCHEDULE

10' 5' 0' 10' 20'

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IRRIGATION PLAN

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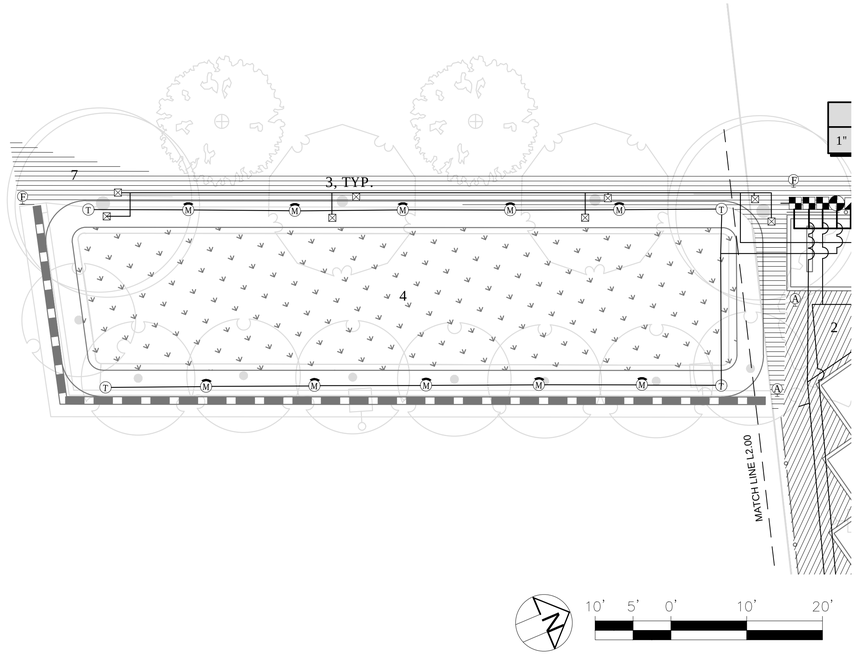
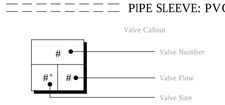


IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
T	HUNTER MP CORNER PROS-12-PRS40-CV SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45-105 ON PRS40 BODY.	4	40
M L O	HUNTER MP1000 PROS-12-PRS40-CV SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC ON PRS40 BODY.	10	40
1401 1402 1404 1408	RAIN BIRD RWS-B-C 1401 ROOT WATERING SYSTEM WITH 4.0" DIAMETER X 36.0" LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE, AND CHECK VALVE. RAIN BIRD BUBBLER OPTION AS INDICATED: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	48	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER ICZ-101-40 1" DRIP CONTROL ZONE KIT. 1" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.	10
F	RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.	6
A	RAIN BIRD ARV050 1/2" 1/2" AIR RELIEF VALVE, MADE OF QUALITY RUST-PROOF MATERIALS, WITH A 6.0" DRIP VALVE BOX (SEB 7XB EMITTER BOX). USE WITH INSTALLATION BELOW SOIL. THE VALVE WILL ALLOW AIR TO ESCAPE THE PIPELINE, THUS PREVENTING WATER HAMMER OR BLOCKAGE.	5
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFD-06-12 XFD ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS.	7,272 L.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER PGV-151 GLOBE 1-1/2" 1-1/2" PLASTIC ELECTRIC REMOTE CONTROL VALVE, FOR RESIDENTIAL/LIGHT COMMERCIAL USE. FEMALE NPT INLET/OUTLET, WITH FLOW CONTROL. GLOBE CONFIGURATION.	1
	HUNTER HQ-44LRC 1" QUICK COUPLER VALVE, YELLOW RUBBER LOCKING COVER, RED BRASS AND STAINLESS STEEL, WITH 1" NPT INLET, 2-PIECE BODY.	3
C	HUNTER IC-1200-M MODULAR CONTROLLER, 12 STATIONS, OUTDOOR MODEL, METAL CABINET. COMMERCIAL USE. WITH ONE ICM-600 MODULE INCLUDED.	1
POC #1 (irrig)	POINT OF CONNECTION 1-1/4"	1
POC #02	POINT OF CONNECTION 1"	1
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	1,698 L.F.
	IRRIGATION MAINLINE: PVC SCHEDULE 40	252.5 L.F.
	PIPE SLEEVE: PVC CLASS 200 SDR 21	127.2 L.F.



IRRIGATION NOTES

1. VERIFY AND COORDINATE WORK AROUND ALL UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ALL UTILITY PROVIDERS AT LEAST THREE WORKING DAYS PRIOR TO BEGINNING WORK.
2. VERIFY THAT THE CONDITIONS ARE SUITABLE TO PROVIDE A COMPLETE WORKING SYSTEM. DO NOT PROCEED IF CONDITIONS ARE PRESENT THAT ARE DETRIMENTAL TO THE EQUIPMENT OR WILL NOT SUPPORT A HEALTHY GROWING ENVIRONMENT FOR PLANTS.
3. COORDINATE WITH OTHER SUBCONTRACTORS AND TRADES TO ENSURE PROTECTION OF THE SYSTEM INCLUDING BUT NOT LIMITED TO, WATER SERVICE, WATER METER, BACKFLOW DEVICES, CONTROLLER LOCATION, AND ELECTRICAL SUPPLY.
4. ANY NUMERICAL QUANTITIES SHOWN ARE FOR CONTRACTOR CONVENIENCE; QUANTITIES SHALL BE BASED ON THE GRAPHIC REPRESENTATION ON THE PLANS.
5. INSTALL IRRIGATION SYSTEM IN COMPLIANCE WITH ALL STATE AND LOCAL CODES.
6. IRRIGATION HEADS, EMITTERS, AND OTHER WATERING DEVICES ARE GRAPHICALLY SHOWN IN THE DESIRED LOCATIONS; PIPE AND OTHER SUPPORT EQUIPMENT MAY BE SHOWN IN PAVED AREAS FOR GRAPHIC CLARITY. INSTALL ALL IRRIGATION EQUIPMENT IN LANDSCAPE AREAS UNLESS OTHERWISE INDICATED. PLACE PIPE AND CONTROL WIRE IN COMMON TRENCHES WHERE POSSIBLE.
7. PLACE ALL VALVE BOXES IN PLANTING BEDS WHERE POSSIBLE, AND LOCATE TO ALLOW EASE OF ACCESS FOR MAINTENANCE, CONSIDERING PLANT MATERIAL AND OBSTRUCTIONS. SIZE BOXES TO ACCOMMODATE COMPLETE VALVE ASSEMBLY INCLUDING WIRE, ISOLATION VALVES, AND UNIONS. SET VALVE BOXES IN A UNIFORM MANNER, SQUARE TO ADJACENT PAVING. ALIGN AND EVENLY SPACE GROUPS OF BOXES IN A UNIFORM AND ORDERLY FASHION. ONLY ONE VALVE PER BOX.
8. ADJUST THE ENTIRE SYSTEM TO PROVIDE UNIFORM EVEN COVERAGE. PROVIDE A COMPLETE WORKING SYSTEM.
9. SOURCE STATIC PRESSURE IS UNDERSTOOD TO BE 65 P.S.I. AT THE POINT OF CONNECTION - VERIFY PRIOR TO COMMENCING WORK. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF ACTUAL FIELD DATA DIFFERS FROM FIELD OBSERVATIONS.
10. INSTALL ALL IRRIGATION PIPE AND WIRE IN SCH 40 PVC SLEEVES BELOW ALL PAVED SURFACES OR STRUCTURES SUCH AS WALLS, STAIRS, AND OTHER IMPROVEMENTS. SIZE OF SLEEVES SHALL BE MINIMUM TWICE (2X) THE COMBINED DIAMETER OF PIPE TO BE PLACED IN SLEEVE. MINIMUM SIZE 4" WITH 24" COVER, MINIMUM. COORDINATE PLACEMENT OF SLEEVES WITH OTHER TRADES.
11. SIZE PIPE TO ENSURE THAT MAXIMUM WATER VELOCITY DOES NOT EXCEED 5 FT./SEC.
12. NOT ALL LATERAL PIPING REQUIRED FOR DRIP IRRIGATION HEADERS IS SHOWN. SEE DETAIL 6/L2.02 FOR REQUIREMENTS.

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812 & 822 NW MURRAY BLVD.
BEAVERTON, OREGON

COMMUNITY PARTNERS FOR AFFORDABLE HOUSING

LAND USE REVIEW

IRRIGATION PLAN & NOTES

PROJECT NO. 15055

04.17.2019

REVISIONS: 1

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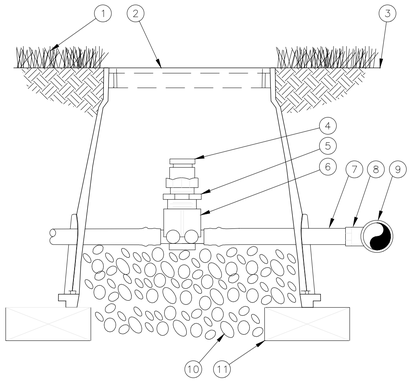
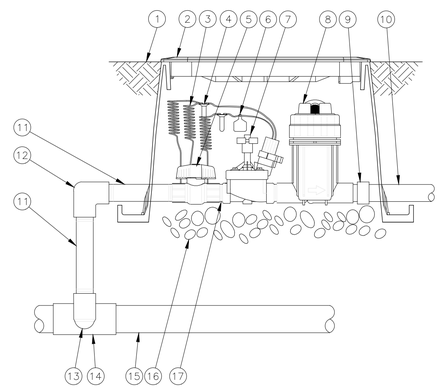


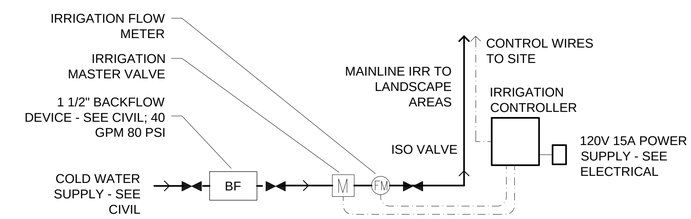
1. PLANTING
2. SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
3. FINISH GRADE
4. ½" AIR RELIEF VALVE: RAIN BIRD ARV050 TO BE INSTALLED AT HIGH POINTS IN DRIP ZONE
5. ½" X ¾" PVC REDUCER BUSHING
6. BARB X FEMALE THREAD CONNECTOR: RAIN BIRD XFD-TFA FITTING
7. ½" BLANK DRIPLINE TUBING: RAIN BIRD XF SERIES
8. BARB X MALE THREAD CONNECTOR: RAIN BIRD XFF-MA FITTING
9. PVC TEE CONNECTED TO PVC HEADER PIPE
10. 3" MINIMUM DEPTH OF ¾" WASHED GRAVEL
11. BRICK (1 OF 2)

7 IRRIGATION AIR RELIEF VALVE
SCALE:NTS

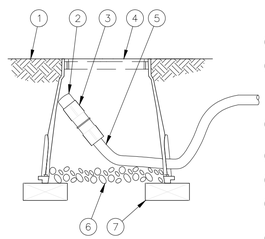


2. VALVE BOX WITH COVER: RAIN BIRD VB-STD
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
5. 1-INCH BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
6. ID TAG
7. REMOTE CONTROL VALVE
8. PRESSURE REGULATING QUICK CHECK BASKET FILTER:
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)

4 IRRIGATION REMOTE CONTROL VALVE
SCALE:NTS



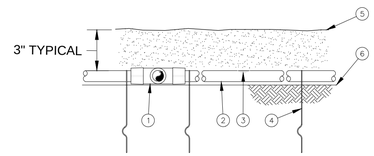
1 IRRIGATION POINT OF CONNECTION
SCALE:NTS



1. FINISH GRADE
2. FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS: RAIN BIRD MDCFCAP MDCFPCAP
3. EASY FIT COUPLING: RAIN BIRD MDCFCOUP
4. SUBTERRANEAN EMITTER BOX:
5. SUB-SURFACE DRIPLINE:
6. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
7. BRICK (1 OF 2)

NOTE:
1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

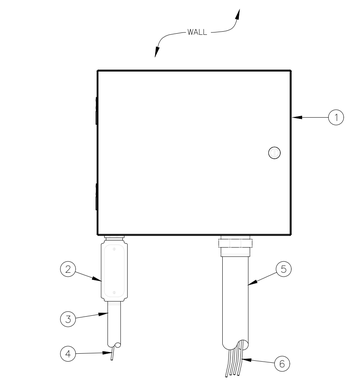
8 IRRIGATION FLUSH VALVE
SCALE:NTS



1. EASY FIT COMPRESSION TEE: RAIN BIRD MDCFTEE
2. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFCV DRIPLINE
3. INLINE DRIP EMITTER OUTLET
4. TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (TYPICAL)
5. MULCH
6. FINISH GRADE

NOTES:
1. PLACE TIE DOWN STAKES EVERY FOUR FEET.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

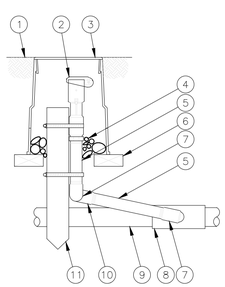
5 IRRIGATION DRIP TUBE
SCALE:NTS



1. IRRIGATION CONTROLLER: IN CABINET WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
2. JUNCTION BOX
3. 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
4. POWER SUPPLY WIRE
5. 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
6. WIRES TO JUNCTION BOX/REMOTE CONTROL VALVES

NOTES:
1. PROVIDE 48 STATIONS
2. INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
3. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
4. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

2 IRRIGATION CONTROLLER
SCALE:NTS

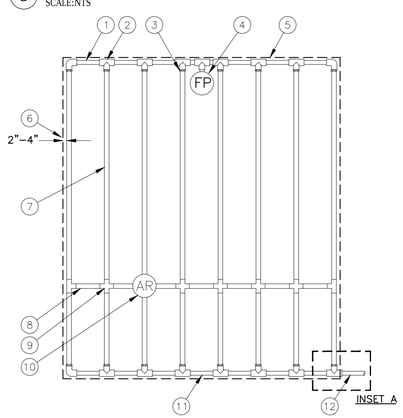


1. FINISH GRADE/TOP OF MULCH
2. QUICK-COUPLING VALVE:
3. VALVE BOX WITH COVER:
4. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
5. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
6. BRICK (1 OF 2)
7. PVC SCH 40 STREET ELL
8. PVC SCH 40 TEE OR ELL
9. PVC MAINLINE PIPE
10. PVC SCH 40 ELL
11. 2" x 2" REDWOOD STAKE WITH STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

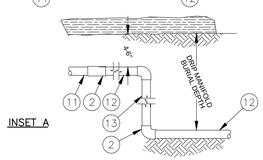
NOTE:

FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

9 IRRIGATION QUICK COUPLER VALVE
SCALE:NTS



1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL (TYPICAL)
3. BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
4. FLUSH POINT
5. PERIMETER OF AREA
6. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
7. SUB-SURFACE DRIPLINE: RAIN BIRD XFS SERIES DRIPLINE
8. RAIN BIRD XF SERIES BLANK TUBING
9. BARB X BARB INSERT TEE OR CROSS: RAIN BIRD XFF-TEE OR RAIN BIRD XFD-CROSS (TYPICAL)
10. ½" AIR RELIEF VALVE
11. PVC SUPPLY HEADER
12. PVC DRIP MANIFOLD
13. PVC SCH 40 RISER PIPE

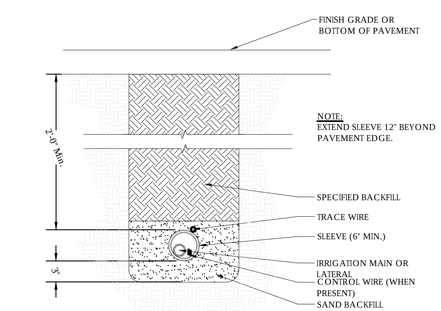


NOTES:
1. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
2. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
3. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, INSTALL STAINLESS STEEL CLAMPS ON EACH FITTING.

XFS Dripline Maximum Lateral Lengths (Feet)

Inlet Pressure psi	12" Spacing		18" Spacing		24" Spacing	
	Nominal Flow (gph)		Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	**0.9**	**0.6**	**0.9**	**0.6**	**0.9**
15	273	155	314	250	424	322
20	318	169	353	294	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	455	780	514

6 IRRIGATION DRIP TUBE
SCALE:NTS



3 IRRIGATION TRENCHING
SCALE:NTS

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LAND USE REVIEW

IRRIGATION DETAILS

PROJECT NO. 15055

04.17.2019

REVISIONS:

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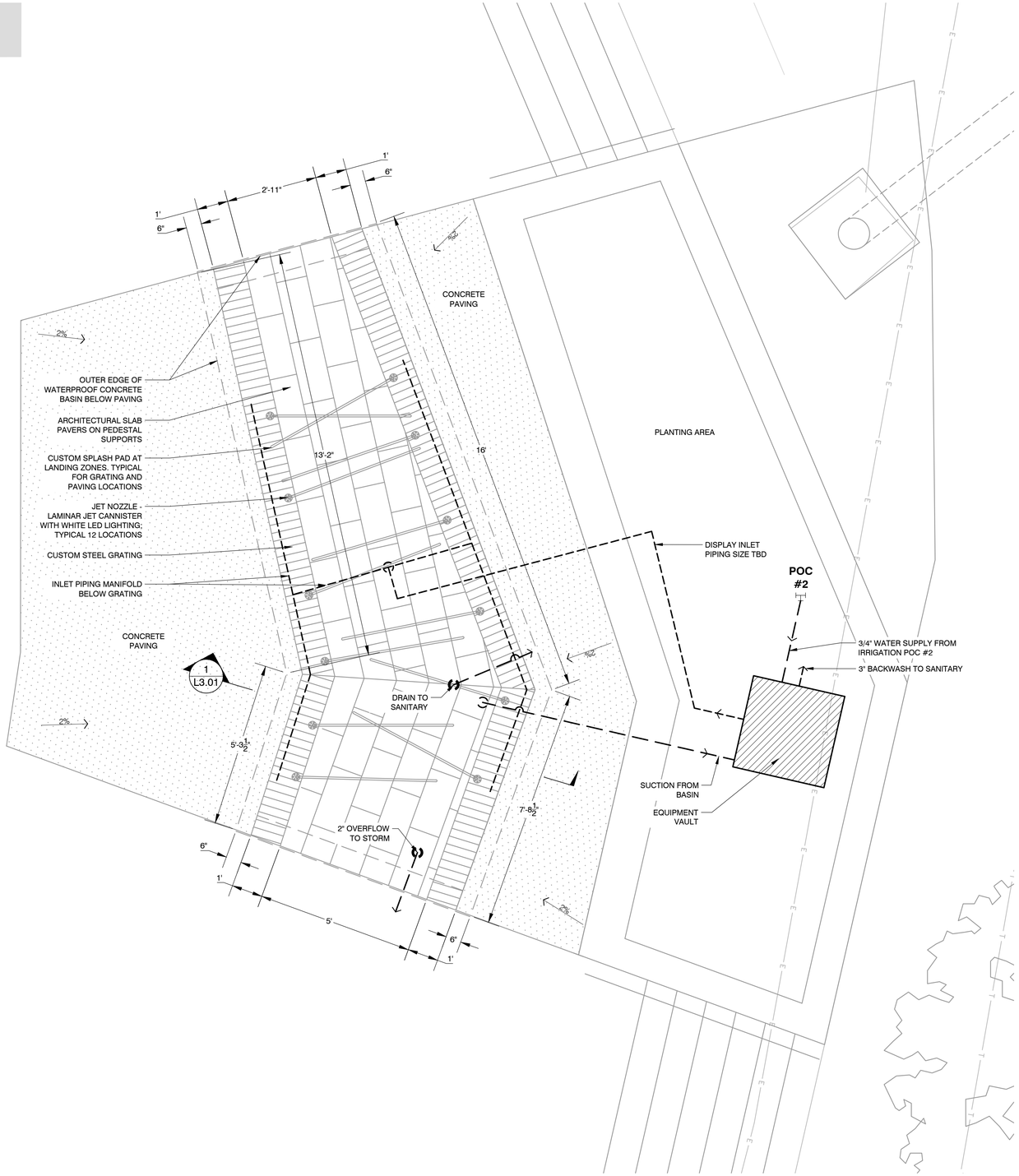

1 **WATER FEATURE**
SCALE: 1/2" = 1'-0"

Cedar Grove Water Feature Concept Narrative

This water feature is proposed to be a 150 square-foot interactive play fountain and an interesting visual element in the entry courtyard. It is designed to be situated at the plaza-level with a series of small standard spray, or laminar nozzles located in two sub-grade trenches, angled toward each other to create an archway. The water will arch to a height of about 5'. The decking at the base of the wet area is proposed to be open-jointed architectural slab pavers on pedestals supported within a sub grade recirculating pool. The nozzles are PLC programmable pop-jets or jump-jets with varying displays over the course of the day and evening and timed off after active hours. The nozzle assemblies will be equipped with internal or parallel lighting. The equipment vault shall be located below-grade adjacent to the fountain in a planting area. An auto-fill water level control is located in the sub-grade reservoir.

Utilities requirements

- Potable cold water fill supply of 5 gpm supply to sub-grade reservoir. Supply from back flow protected irrigation water supply.
- 120/240 volt supply to equipment vault to power 100 gpm display pump, 15 gpm filter pump, fountain controls and nozzle lighting.
- Sanitary sewer connection, sized to 20 gpm backwash discharge for 5 minute duration, and reservoir drain.
- Storm sewer 2" overflow gravity piping from sub grade reservoir.

Mechanical Equipment (in equipment vault)

- Filter pump - 15 gpm @ 20' TDH
- Display pump - 100 gpm @ 30' TDH
- Sand filtration device with auto backwash controls - 18" sized to treat 450 gallon reservoir. Full turnover in hours max.
- Chlorine/bromine feeder - Automatic sensor and feed control
- Fountain controls with On/Off/Auto capability
- Fountain lighting controls

Basis of design = Fountain People #AF vault with 3'x3' surface access.

Materials

- Concrete basin - 400 psi cast in place concrete with epoxy waterproofing as specified by project architect.
- Surface paving - 12 x 24 hydra-pressed architectural slab pavers; Mutual Materials Vancouver Bay charcoal or similar
- Adjustable paving support system; Buzon paver pedestal system or similar
- Trench grating - 12" wide custom cast ductile iron grating with inserts for fountain jets and lighting
- Jets (basis of design 12 nozzles)- Jumping laminar jet canisters with integral LED lighting. Fontana fountains jumping jet in stainless steel canister or similar. Optional 3/8" standard brass angled nozzle pop jets.
- Controls PLC or DMX controls as designed by equipment vault manufacturer
- All piping and manifolds to be fabricated of schedule 40 pvc piping.

10' 5' 0' 10' 20'

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COMMUNITY PARTNERS FOR AFFORDABLE HOUSING

LAND USE REVIEW

FOUNTAIN PLAN

PROJECT NO.
15055

04.17.2019

L3.00

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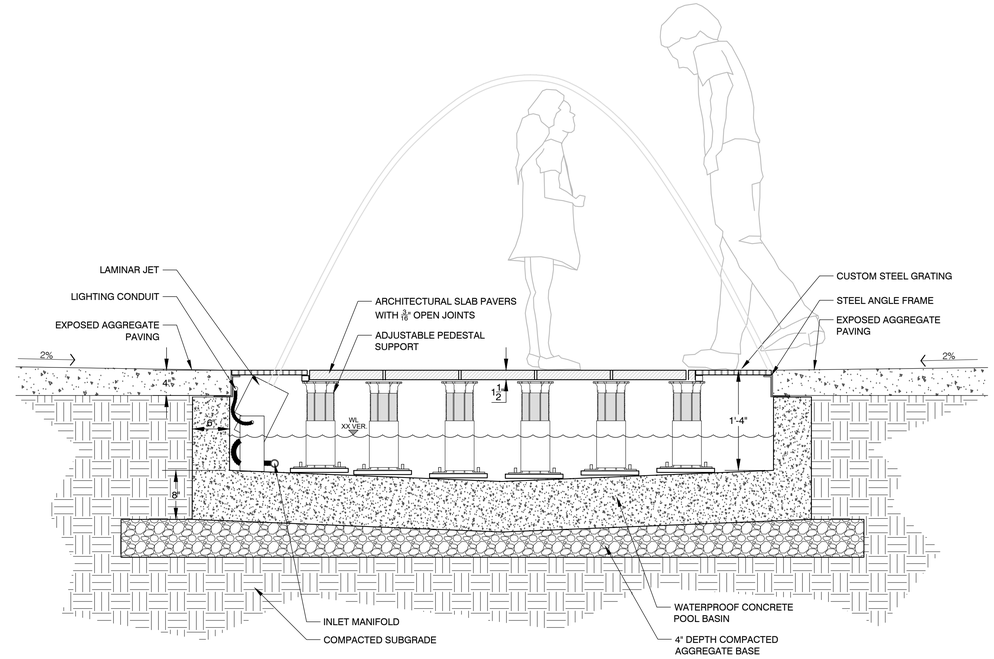
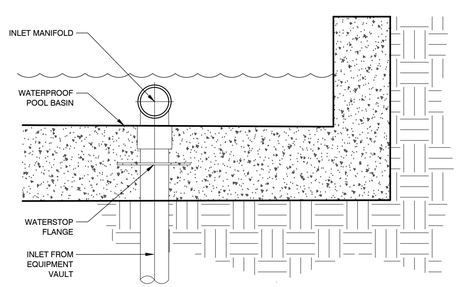
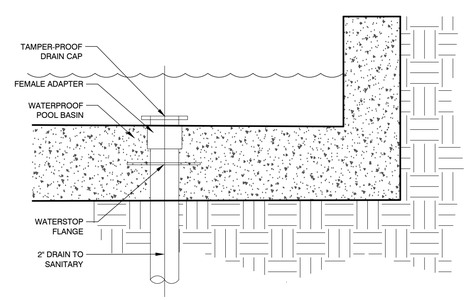


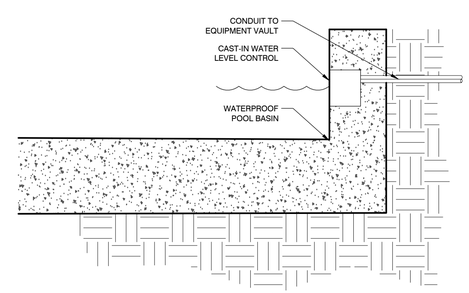
1 **WATER FEATURE**
SCALE: 1" = 1'-0"



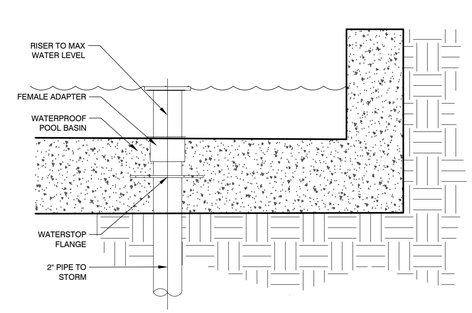
5 **INLET PENETRATION**
SCALE: 1.5" = 1'-0"



3 **POOL DRAIN**
SCALE: 1.5" = 1'-0"



6 **WATER LEVEL CONTROL**
SCALE: 1.5" = 1'-0"



4 **OVERFLOW PIPE**
SCALE: 1.5" = 1'-0"

AF Vault

www.fountainpeople.com

The AF Vault is designed to provide a selection of equipment options that will meet the needs of most small to medium fountain installations. Top access and an efficient design make it easy to adjust, service, or repair.

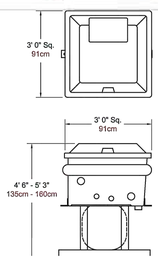
Standard Features:

- Heavy-duty FRP enclosure with 2" floor drain.
- Structurally engineered and certified for in-ground installation.
- Thermally protected pumps.
- Forced air ventilation system.
- Sand filter with multi-port valve.
- Lockable lid with lock-open arm, stainless steel lock hasp, and stainless steel hinge.
- Stainless steel anchors and tie-down cables.
- Wall mounted maintenance procedures for all equipment.

Optional Features:

- Stainless steel floor door.
- Choice of 18", 24", or 30" sand filter with multi-port valve.
- CPL-3000T Fountain Control Panel (see pg. 86).
- 3/4" water fill station with solenoid valve, water hammer arrestor, and hose bib.
- 1" water fill station with solenoid valve, pressure reducing valve, water hammer arrestor, and hose bib.
- Silver ion water treatment system.

Not all options are available in certain vault configurations. For equipment specification data, or configuration and design assistance, contact us at (512)392-1155 or email us at design@fountainpeople.com.



Data:

Model Number	Pump(s) HP	Max GPM @ 50' Head	Max LPM @ 15.8kPa	Electrical
PFV-AF2050	(1)½	30	113	120/240V, 1Ø, 60 Hz
PFV-AF2075	(1)¾	65	246	
PFV-AF2100	(1)1	75	283	
PFV-AF2200	(1)2	100	378	
PFV-AF2202	(2)1	150	378	
PFV-AF3300	(1)1 (1)2	175	662	
PFV-AF2400	(2) 2	200	757	

Filter:

Type	Tank Size	Max Filter Rate (GPM)	Max Filter Rate (LPM)
Sand	18"	35	132
	24"	63	238
	30"	98	370

2

Story | Water | Light | Motion

fountain people

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Catalog #	
Details	
Project	
Prepared By	
Date	V1.3

2 **WATER FEATURE VAULT CONCEPT**
SCALE: NTS

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NOTE: DRAWINGS ARE AT HALF SCALE WHEN PRINTED AT 11X17

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BEAVERTON, OREGON

COMMUNITY PARTNERS FOR AFFORDABLE HOUSING

LAND USE REVIEW

FOUNTAIN DETAILS

PROJECT NO.
15055

04.17.2019

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