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AGREEMENT WITH THE FOLLOWING STATEMENT:**

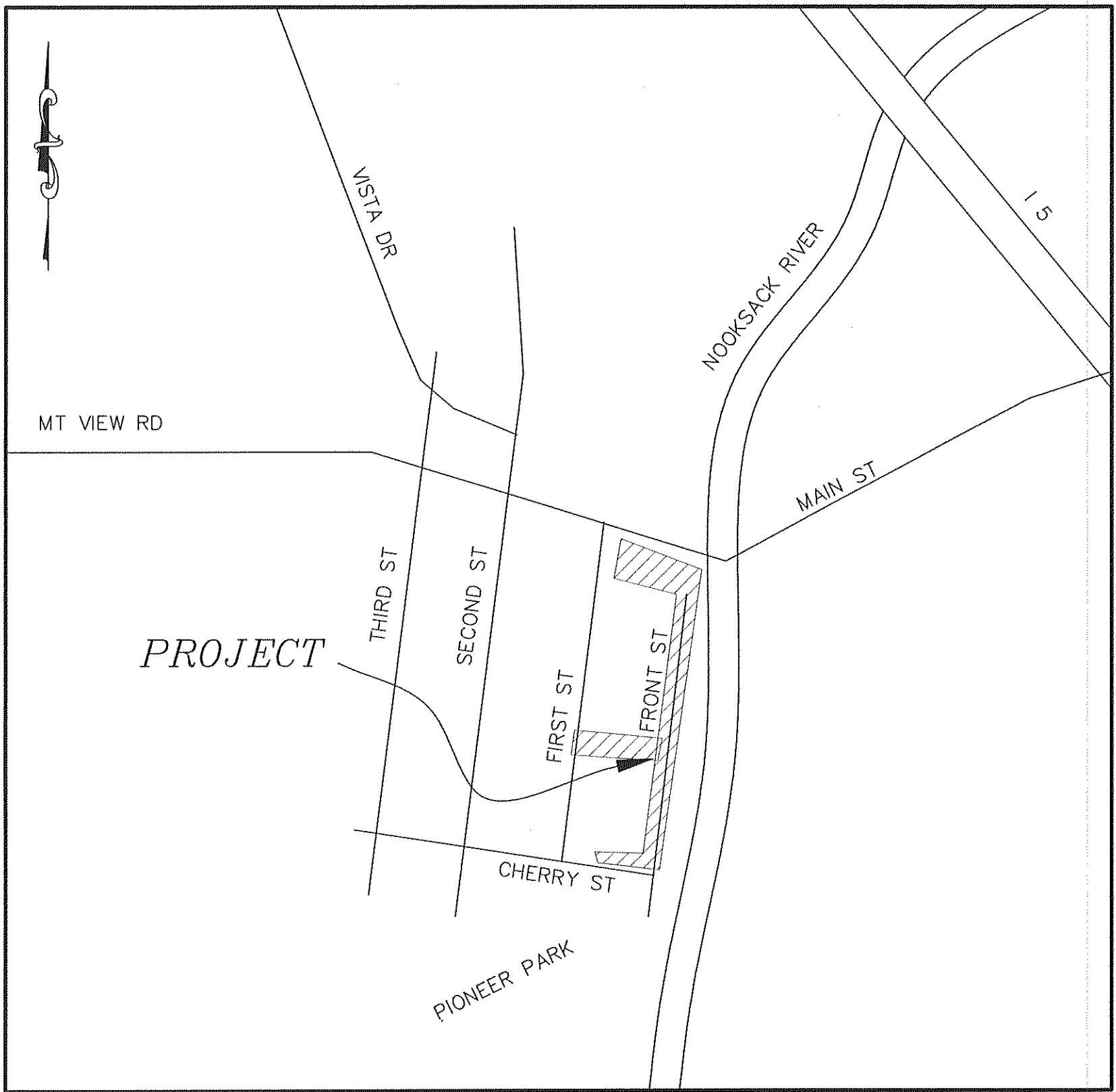
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CENTENNIAL RIVERWALK

CITY OF FERNDALE

VICINITY MAP
NTS

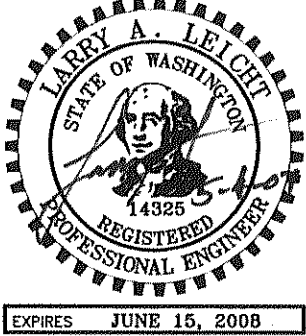


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- C1.) COVER SHEET
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- C3.) FRONT STREET IMPROVEMENTS
- C4.) FRONT STREET IMPROVEMENTS
- C5.) MAPLE STREET IMPROVEMENTS
- C6.) EROSION CONTROL PLAN
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- L1-L13) LANDSCAPE PLANS
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- E1) ELECTRICAL PLAN - SOUTH
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LEGEND

--- FM --- FM ---	= EX FORCE MAIN	--- SD ---	= PROP SAWCUT
--- TV --- TV ---	= EX TV LINE	=====	= PROP ROCKWALL
--- FO --- FO ---	= EX FIBER OPTICS LINE	■	= PROP STORM DRAIN CATCH BASIN
--- G --- G ---	= EX GAS MAIN	SD	= PROP STORM DRAIN
□	= EX GAS METER	□	= PROP STORM CLEANOUT
--- T --- T ---	= EX TELEPHONE LINE	●	= PROP CATCH BASIN TYPE II
--- W --- W ---	= EX WATER MAIN	SS	= PROP SANITARY SEWER
○	= EX FIRE HYDRANT	●	= PROP SEWER MANHOLE
□	= EX WATER METER	●	= PROP SEWER CLEANOUT
□	= EX WATER VALVE	W	= PROP WATERMAIN
○	= EX UTILITY POLE	+	= PROP HYDRANT
□	= EX TELEPHONE PEDESTAL	□	= PROP WATER METER
MB	= EX MAIL BOX	+	= PROP WATER VALVE
+	= EX SIGN	+	= PROP REPAIR COUPLER
○	= EX TREE	+	= PROP SIDEWALK
←	= EX GUY WIRE	+	= PROP JBOX
+	= EX STREET LIGHT	+	= PROP CONDUIT
P	= EX POWER VAULT		
□	= EX JBOX		
SS	= EX SANITARY SEWER		
○	= EX SEWER MANHOLE		
○	= EX SEWER CLEANOUT		
SD	= EX STORM DRAIN		
□	= EX STORM CLEANOUT		
□	= EX SD CATCH BASIN		
X	= EX FENCE		
---	= EX DITCH CL		
---	= EX CULVERT		
---	= EX EDGE OF PAVEMENT		
TB	= EX TOP OF BANK		
PR	= EX POWER LINE		
BB	= EX TOE OF BANK		
---	= EX RIGHT OF WAY		
---	= EX CONCRETE		
---	= EX FLOWLINE		
---	= EX GRADEBREAK		
---	= EX GUARDRAIL		
---	= EX GRAVEL		
---	= EX ROAD CL		
---	= EX BLDG		



DESIGNED BY
LL
DRAWN BY
LMC
CHECKED BY



REICHHARDT & EBE
ENGINEERING, INC.

PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687
Lynden, Washington 98264 Fax (360) 354-0407

NO.

DATE

REVISION

BY

CITY OF FERNDALE
2095 MAIN STREET
FERNDALE, WA 98248

CENTENNIAL RIVERWALK
COVER SHEET

JOB# / DWG

05012

SP1

DATE

5-4-07

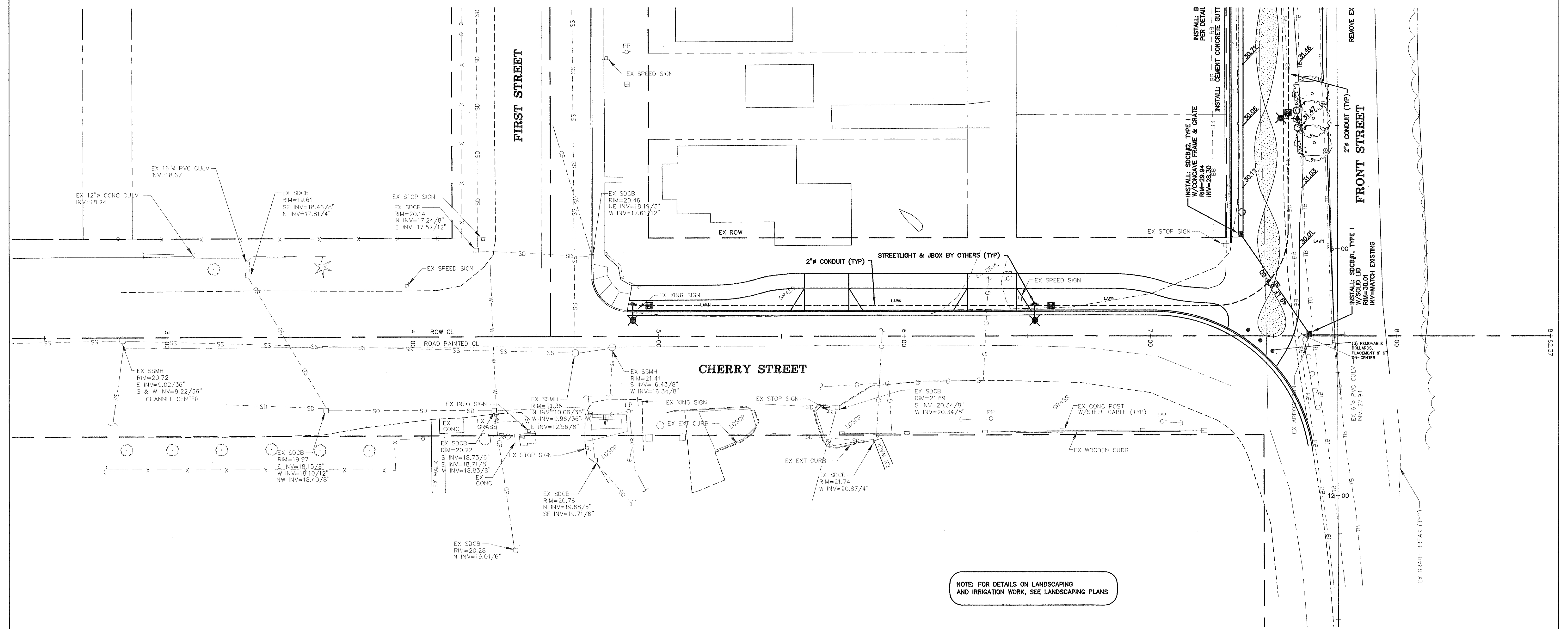
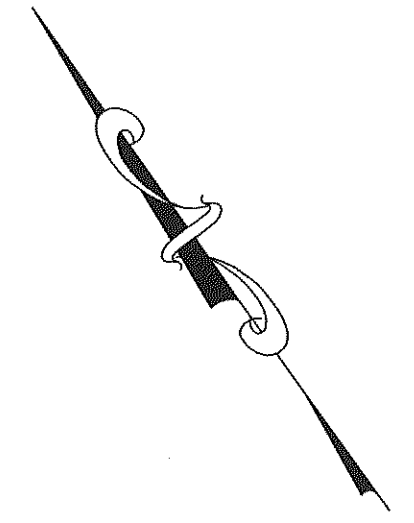
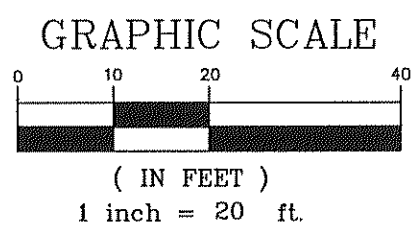
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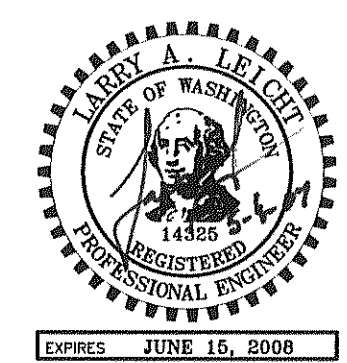
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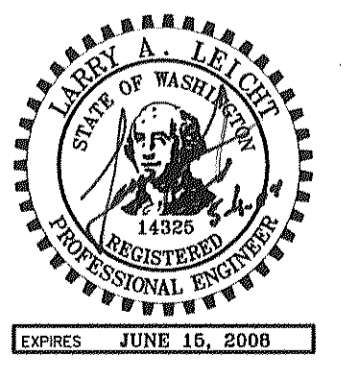
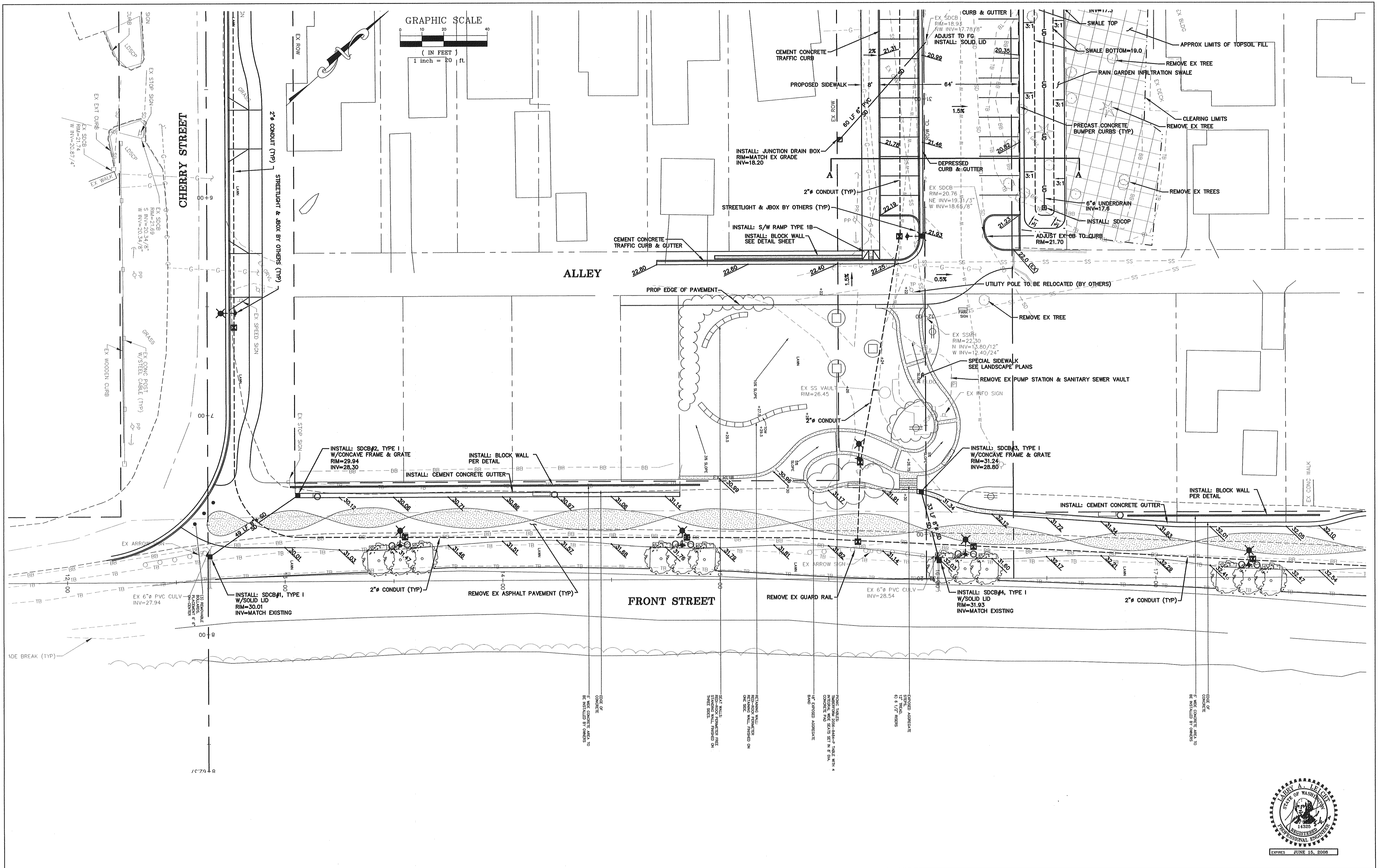
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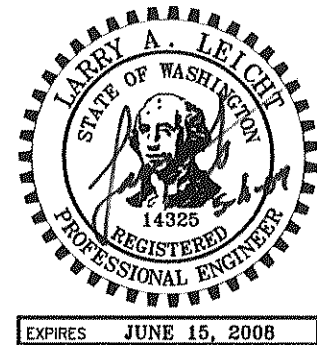
NOTE: FOR DETAILS ON LANDSCAPING
AND IRRIGATION WORK, SEE LANDSCAPING PLANS




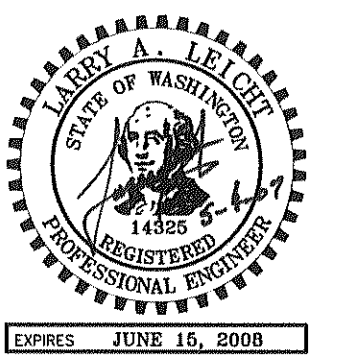
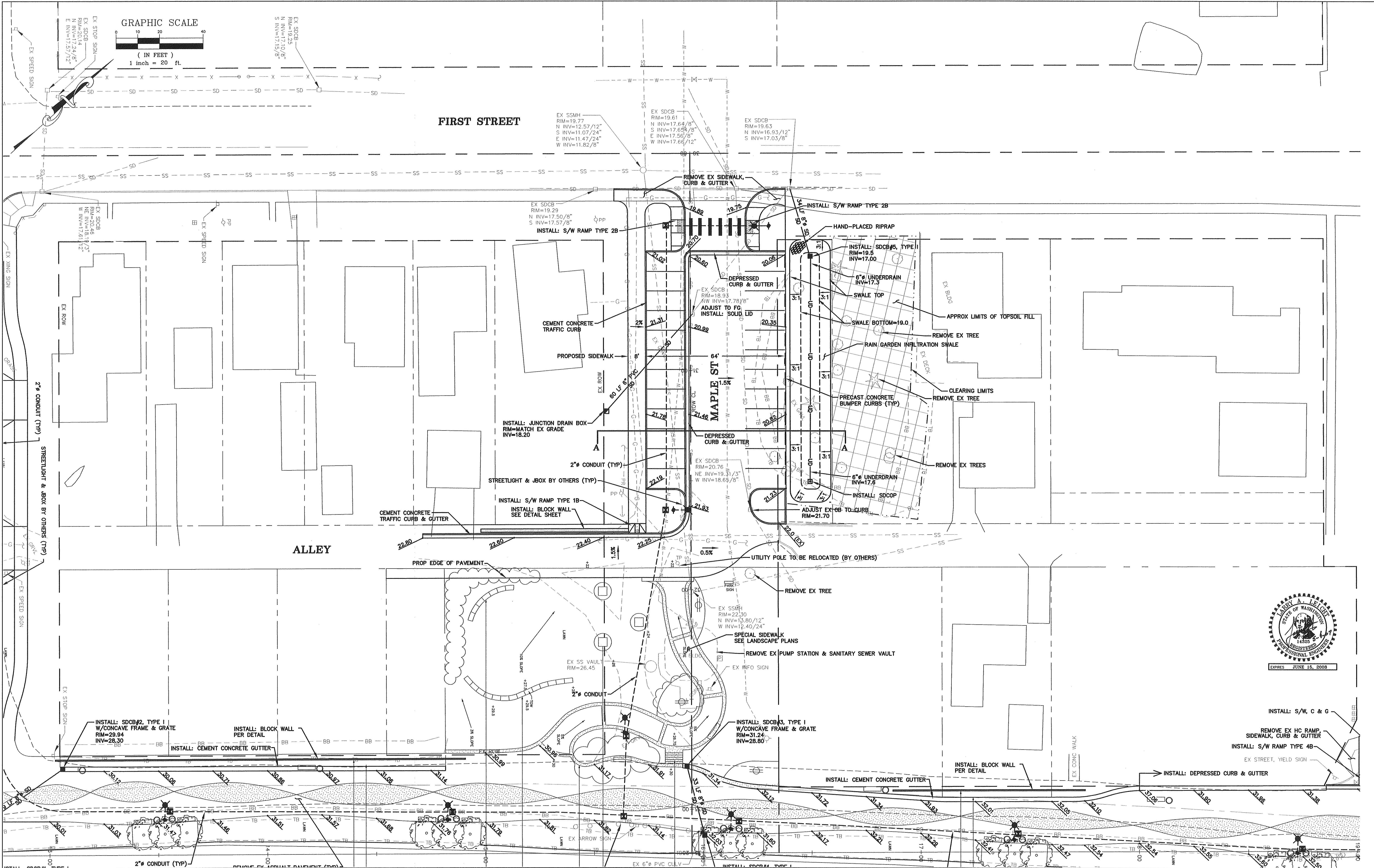
	DESIGNED BY LL		REICHHARDT & EBE <i>ENGINEERING, INC.</i> CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Lynden, Washington 98264 Ph (360) 354-3687 Fax (360) 354-0407					CITY OF FERDALE 2095 MAIN STREET FERDALE, WA 98248	CENTENNIAL RIVERWALK CHERRY STREET IMPROVEMENTS	JOB# / DWG 05012 SP1	DATE 5-4-07
	DRAWN BY LMC									SCALE H: 1"=20' v: N/A	SHEET
	CHECKED BY			NO.	DATE	REVISION	BY			C2 of C8	



DESIGNED BY LL DRAWN BY LMC CHECKED BY	 <div>REICHARDT & EBE ENGINEERING, INC. CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Lynden, Washington 98264 Ph (360) 354-3687 Fax (360) 354-0407</div>					CITY OF FERNDAL 2095 MAIN STREET FERNDAL, WA 98248	CENTENNIAL RIVERWALK FRONT STREET IMPROVEMENTS	JOB# / DWG 05012 SP1	DATE 5-4-07
								SCALE 1"=20' v:N/A	SHEET C3 of C8
		NO.	DATE	REVISION	BY				



DESIGNED BY LL		REICHARDT & EBE				CITY OF FERNDALE 2085 MAIN STREET FERDALE, WA 98248	CENTENNIAL RIVERWALK FRONT STREET IMPROVEMENTS	JOB# / DWG 05012 SP1	DATE 5-4-07
DRAWN BY LMC		ENGINEERING, INC.						SCALE H:1"=20' v:N/A	SHEET
CHECKED BY		CONSULTING ENGINEERS							
		PO Box 978 423 Front St., Ste 201 Lynden, Washington 98264	Ph (360) 354-3687 Fax (360) 354-0407						
				NO.	DATE	REVISION	BY		



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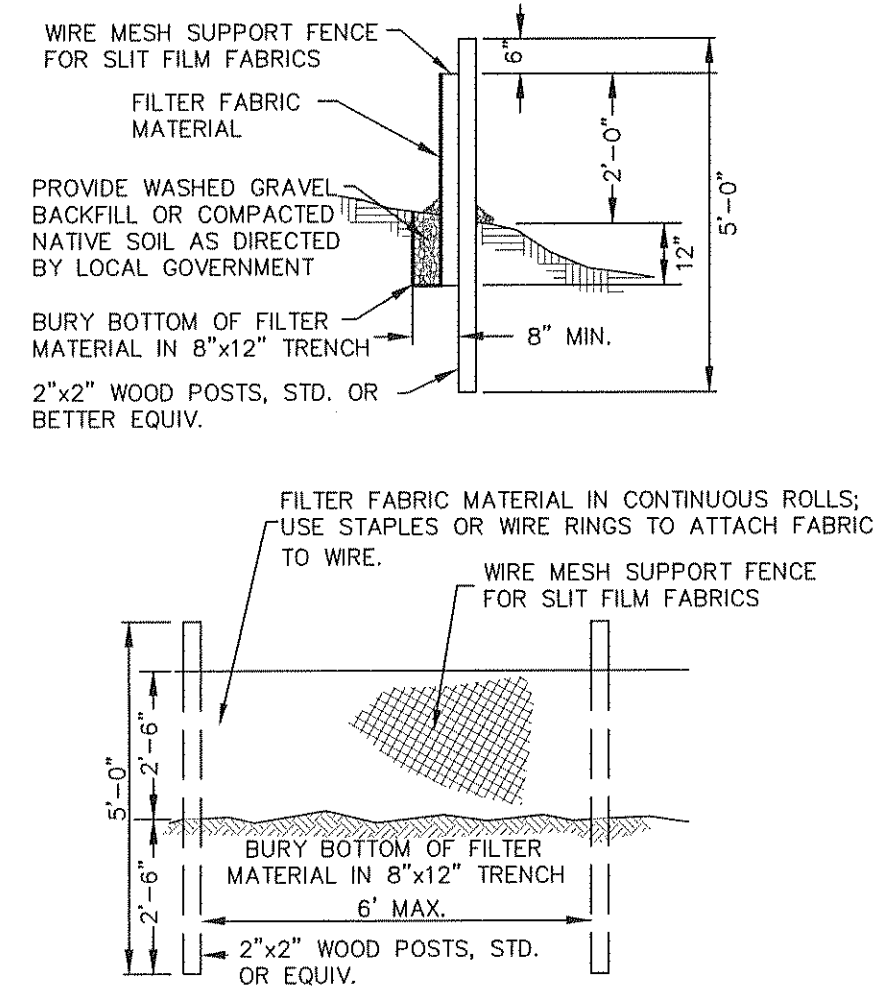
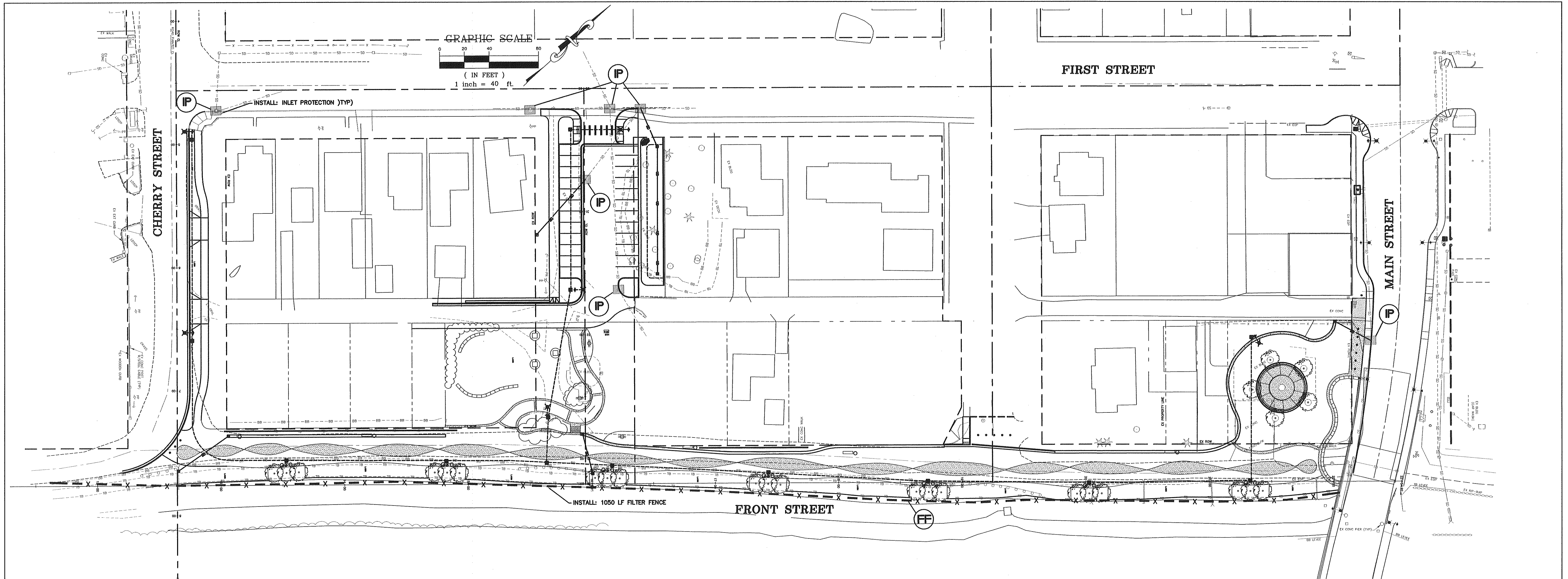
NO.	DATE	REVISION	BY

CITY OF FERDALE
2085 MAIN STREET
FERDALE, WA 98248

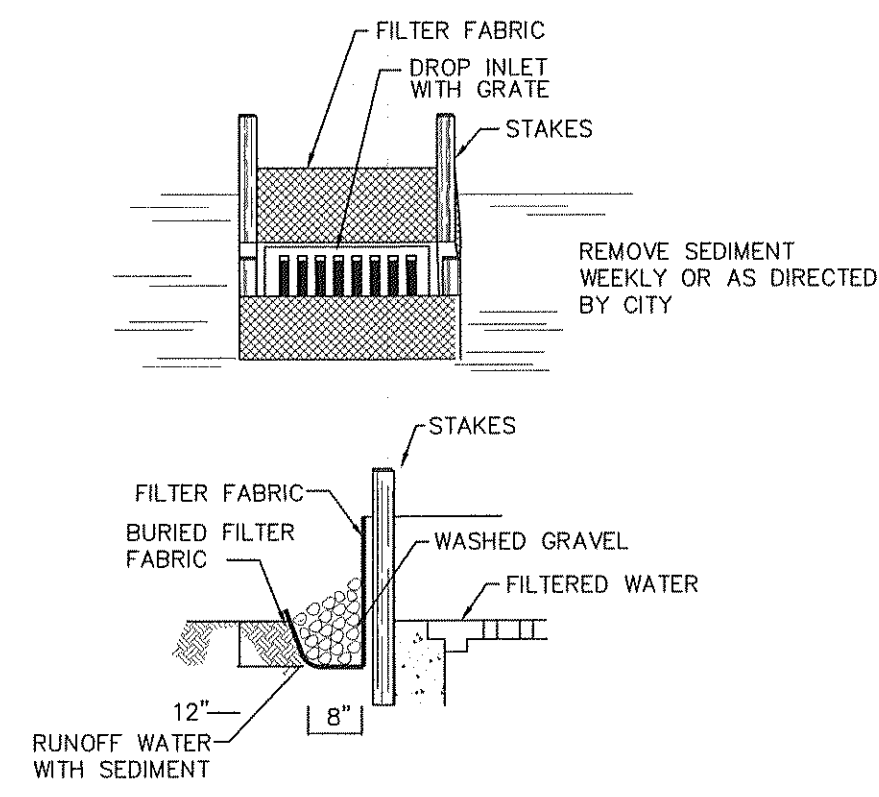
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MAPLE STREET IMPROVEMENTS

JOB# / DWG
05012 SP1
SCALE
H:1"=20' v:N/A

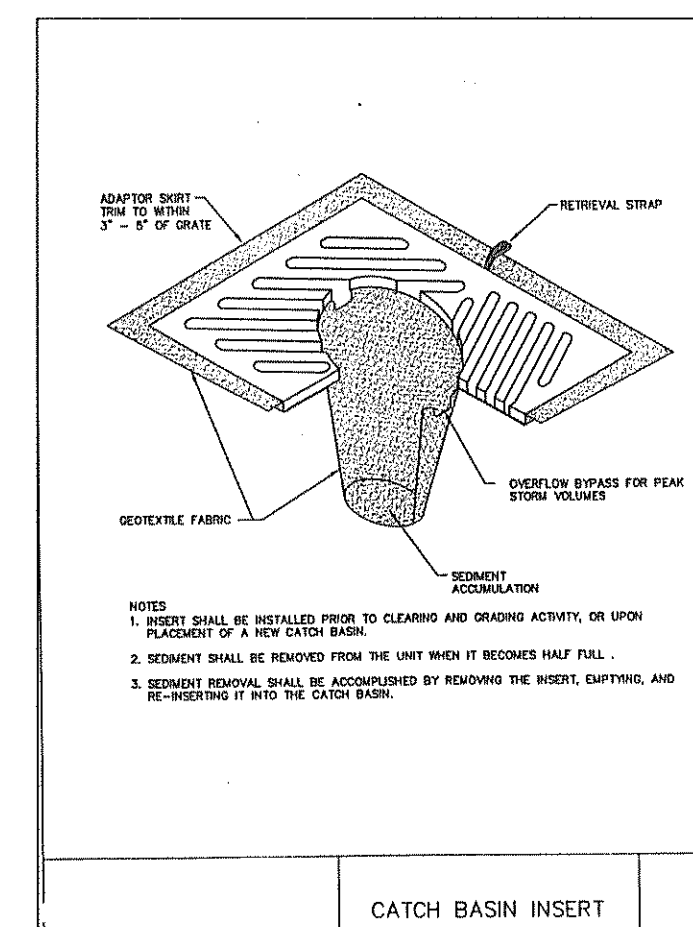
DATE
5-4-07
SHEET
C5 of C8



FILTER FABRIC FENCE DETAIL
NTS



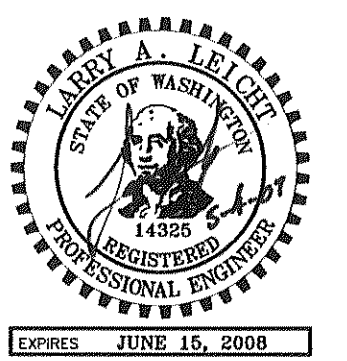
INLET PROTECTION DETAIL
NTS



CATCH BASIN INSERT

LEGEND

--- X --- X --- = FILTER FENCE
IP = INLET PROTECTION



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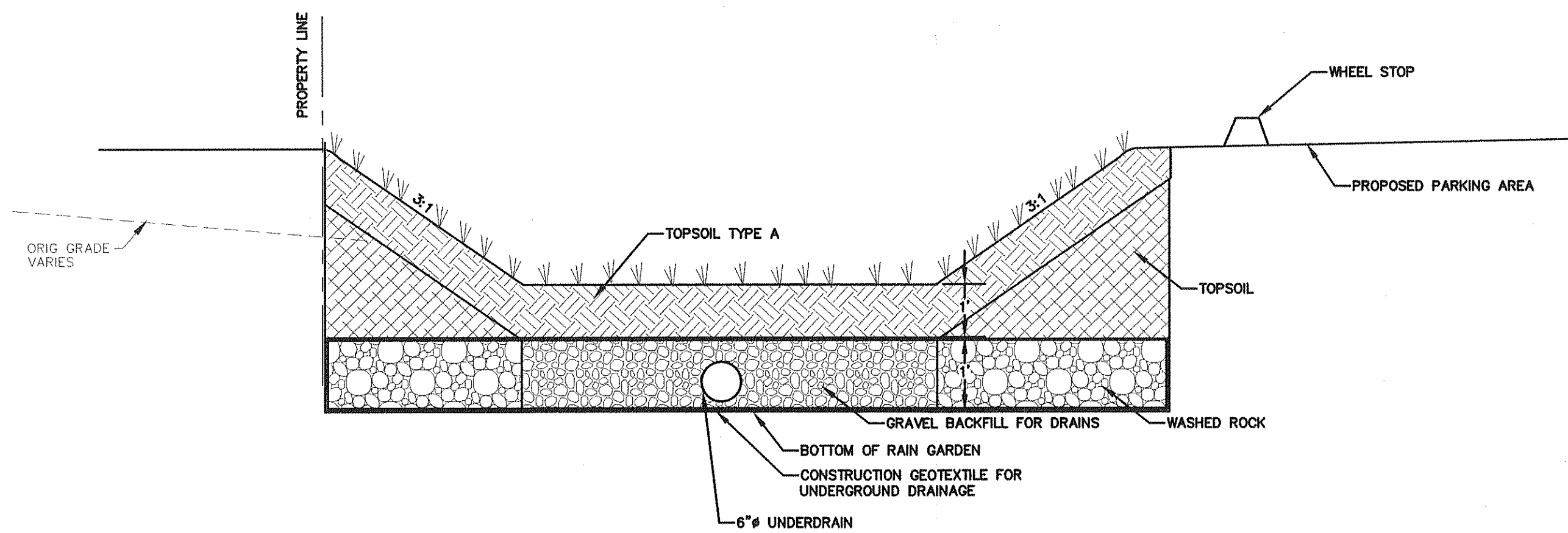
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CITY OF FERDALE
2095 MAIN STREET
FERDALE, WA 98248

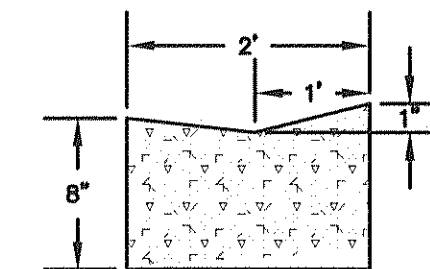
CENTENNIAL RIVERWALK
EROSION CONTROL PLAN

JOB# / DWG
05012 EC
SCALE
1"=40' v.N/A

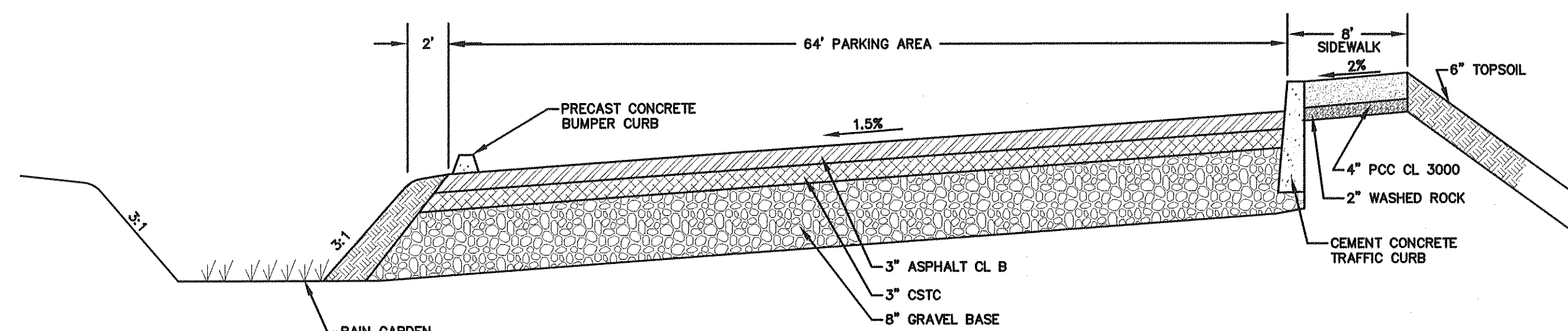
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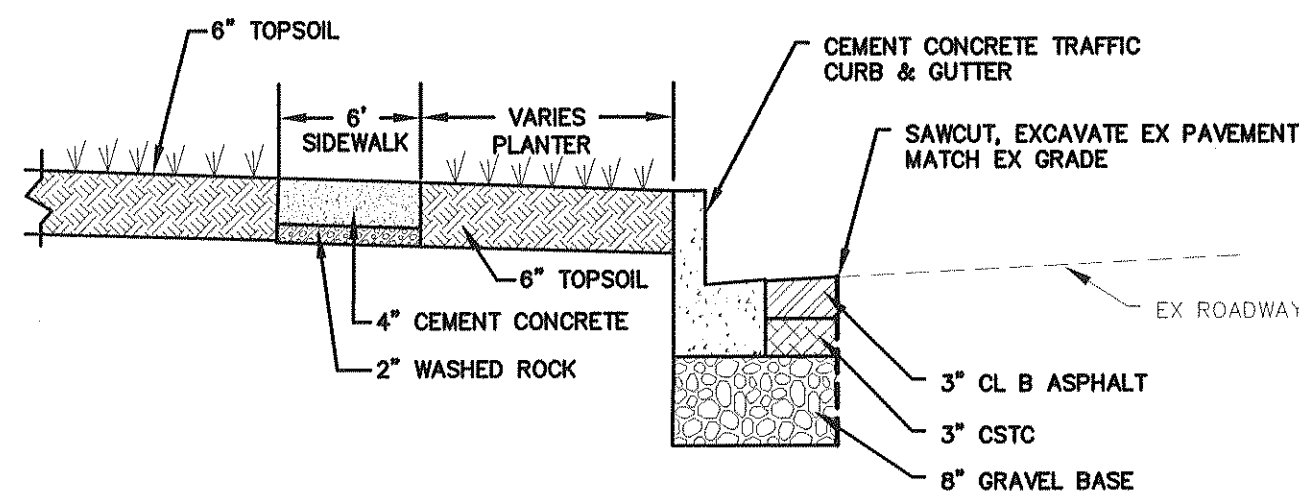
**RAIN GARDEN SECTION
CONCRETE RETAINING WALL DETAIL**
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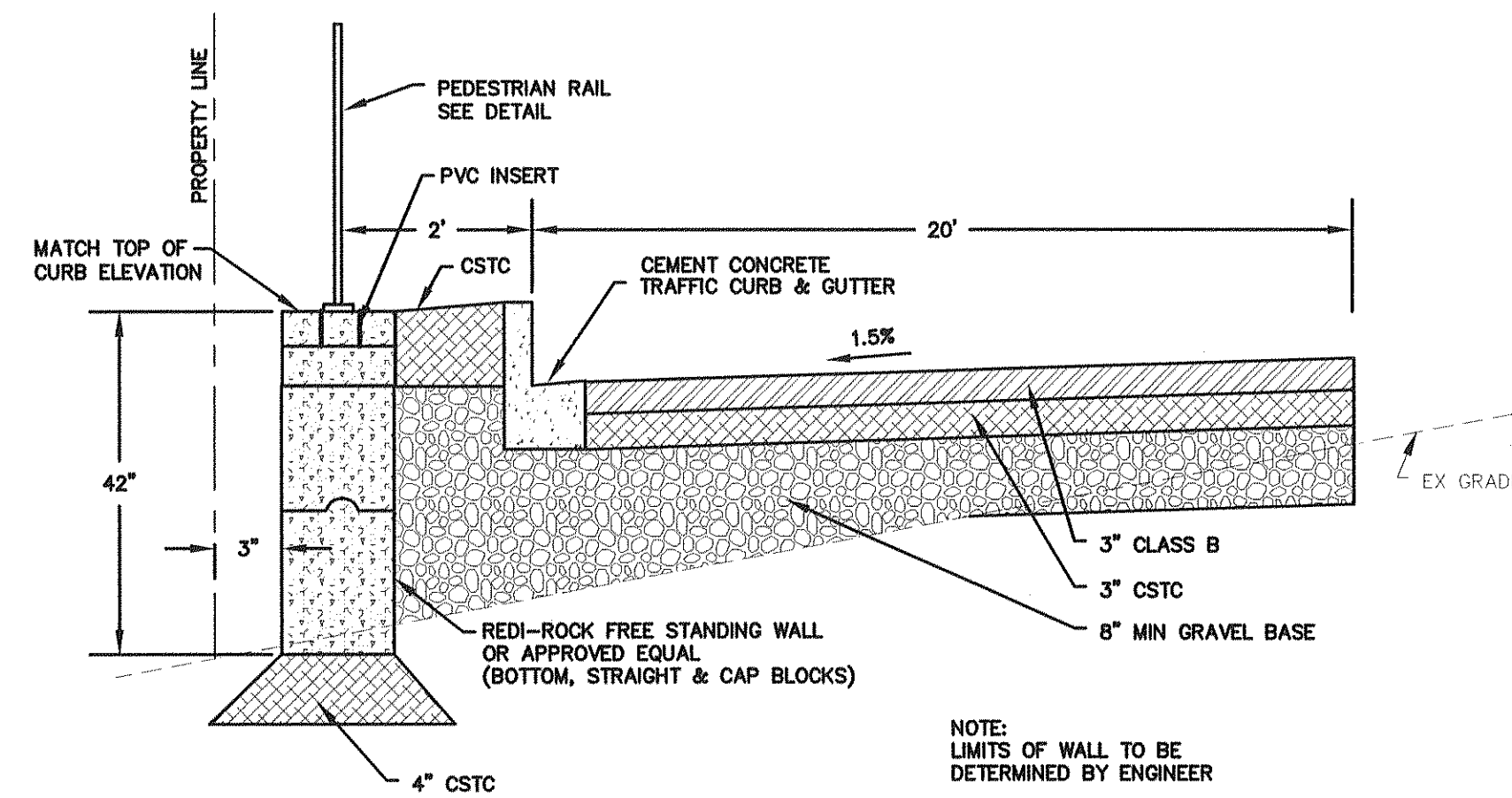
**CEMENT CONCRETE
GUTTER SECTION (TYP)**
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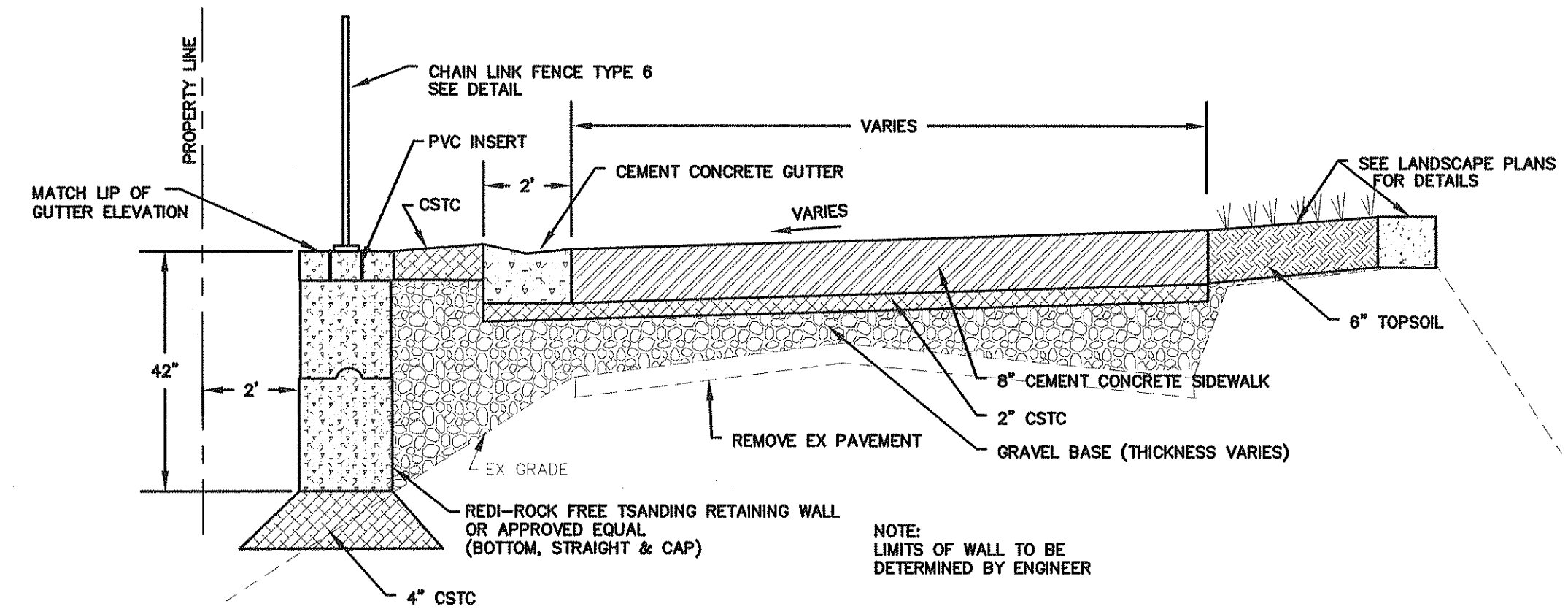
SECTION A-A
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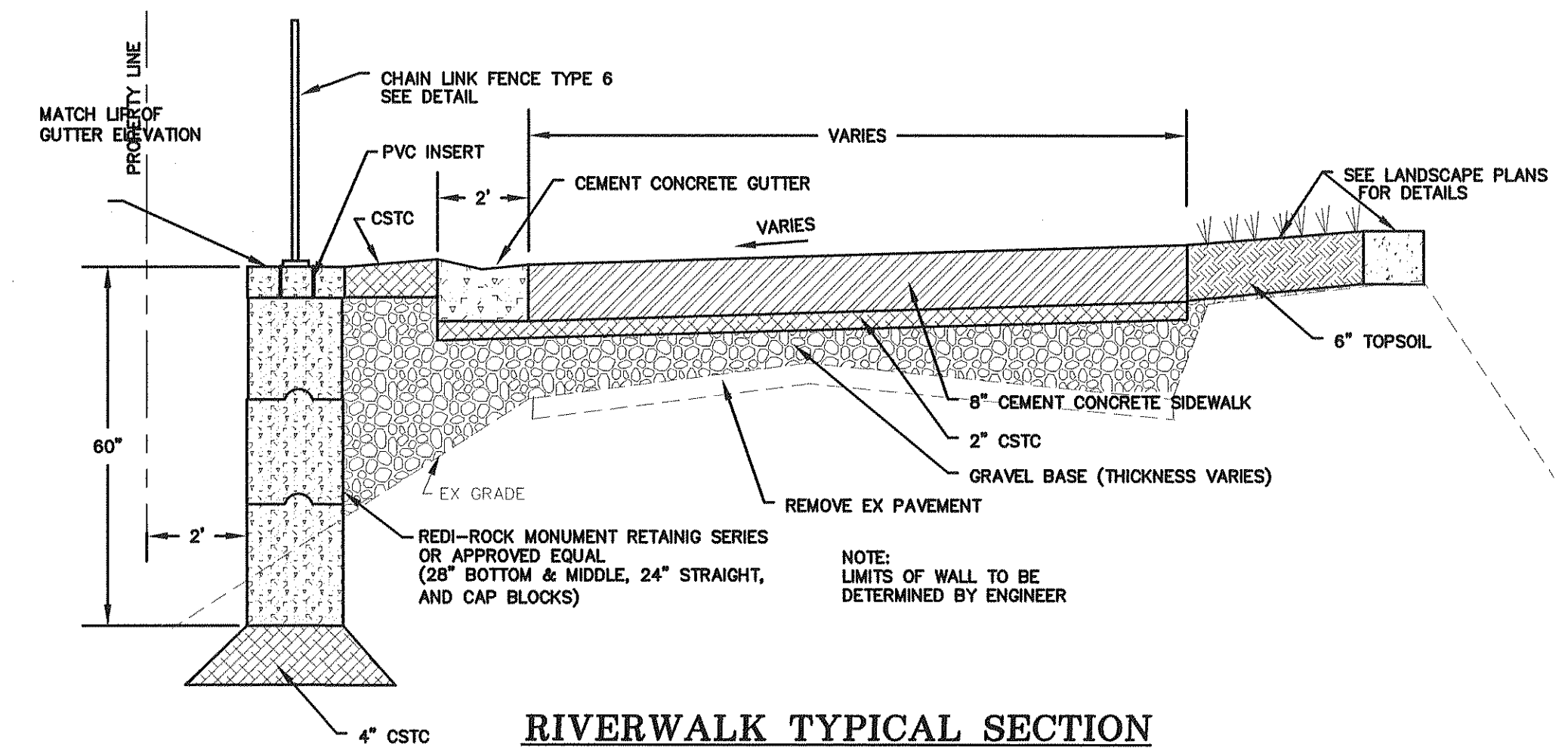
CHERRY STREET TYPICAL SECTION
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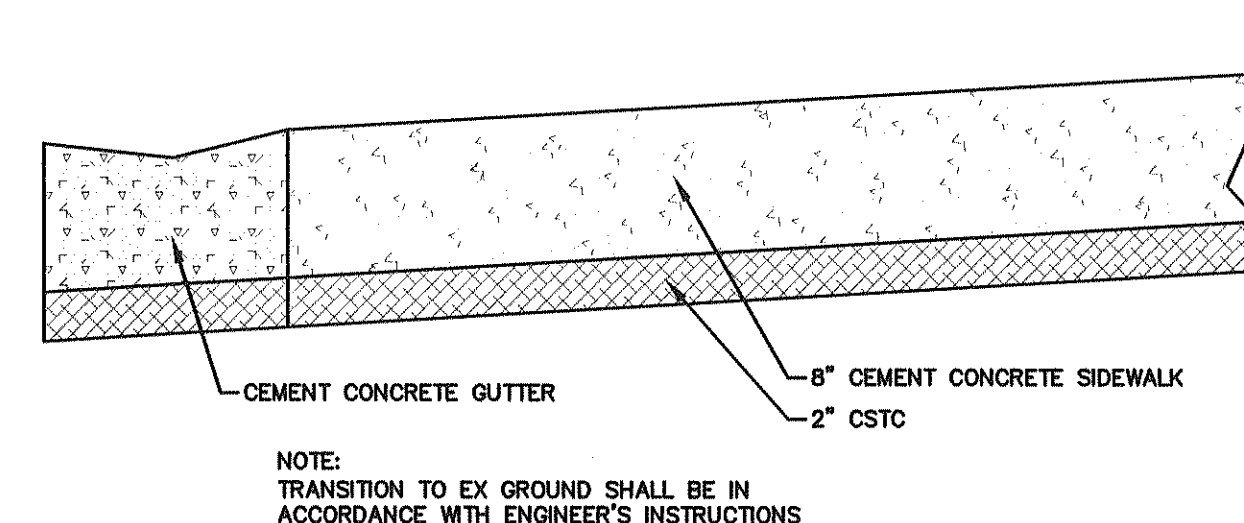
TYPICAL ALLEY SECTION
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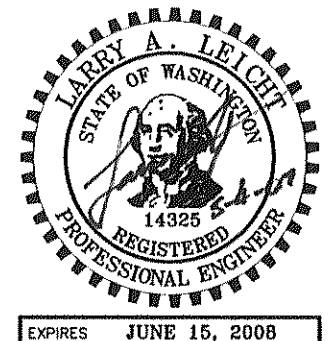
**RIVERWALK TYPICAL SECTION
STA 16+90 TO 17+75**
NTS



**RIVERWALK TYPICAL SECTION
STA 13+05 TO 14+82
STA 19+60 TO 20+65**
NTS



**RIVERWALK TYPICAL SECTION
STA 15+92 TO 17+10
STA 17+60 TO 18+86
STA 20+65 TO 21+25**
NTS



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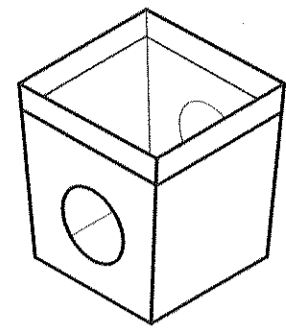
BY

CITY OF FERNDALE
2095 MAIN STREET
FERNDALE, WA 98248

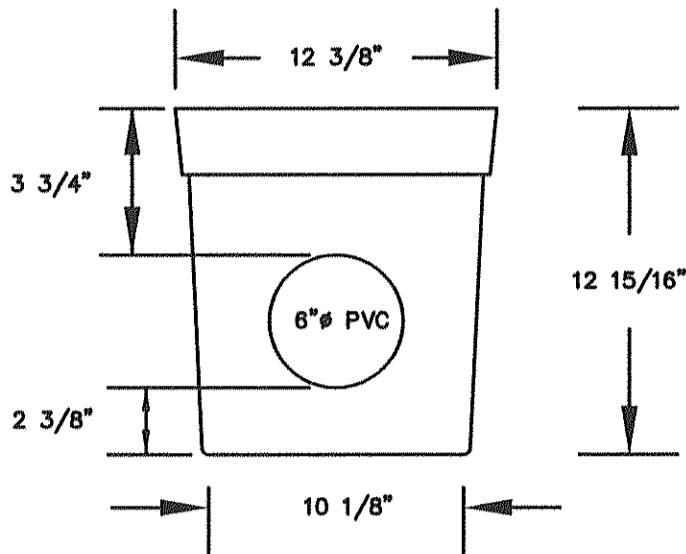
**CENTENNIAL RIVERWALK
TYPICAL SECTIONS SHEET**

JOB# / DWG
05012
SCALE
H: N/A V: N/A

DATE
5-4-07
SHEET
C7 of C8



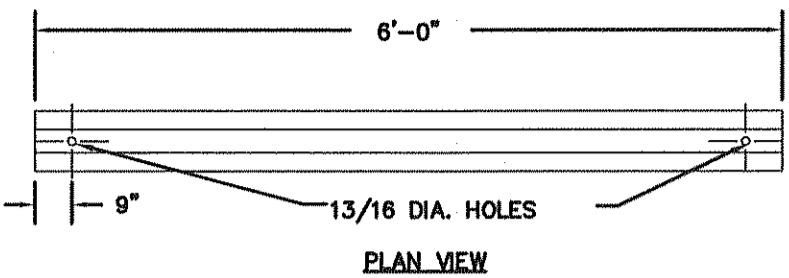
NOTE: PROVIDE RISER SECTIONS FOR 2" MIN. COVER
PROVIDE GRATE COVER TO ALLOW OVERLAND DRAINAGE
SLOPE FROM J-BOX TO SADDLE TO BE 2%



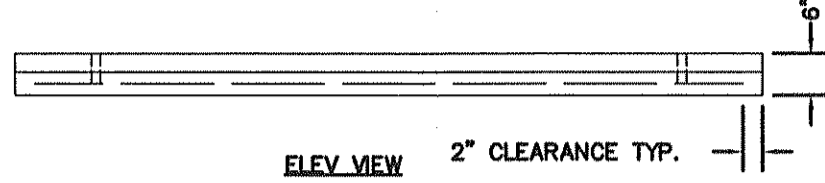
SPECIFICATION: NDS #1200,12003,12004, 12"x12" TAPERED CB OR EQUAL

JUNCTION DRAIN BOX DETAIL

NTS



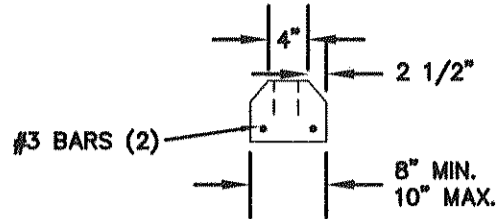
PLAN VIEW



ELEV VIEW

NTS

PRECAST CEMENT CONCRETE BUMPER CURB



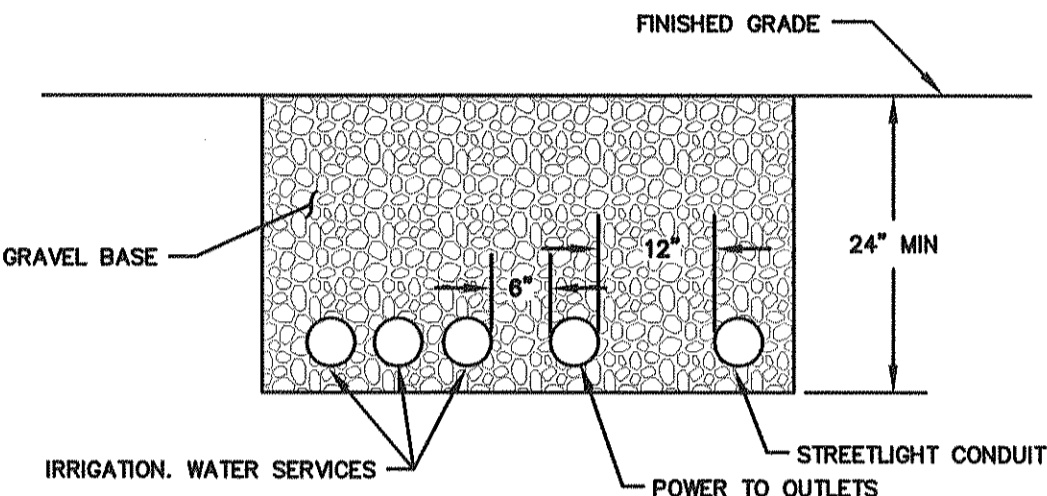
#3 BARS (2)

3:1 SAND & CEMENT
GROUT 1" DEPTH

NON-SHRINK GROUT

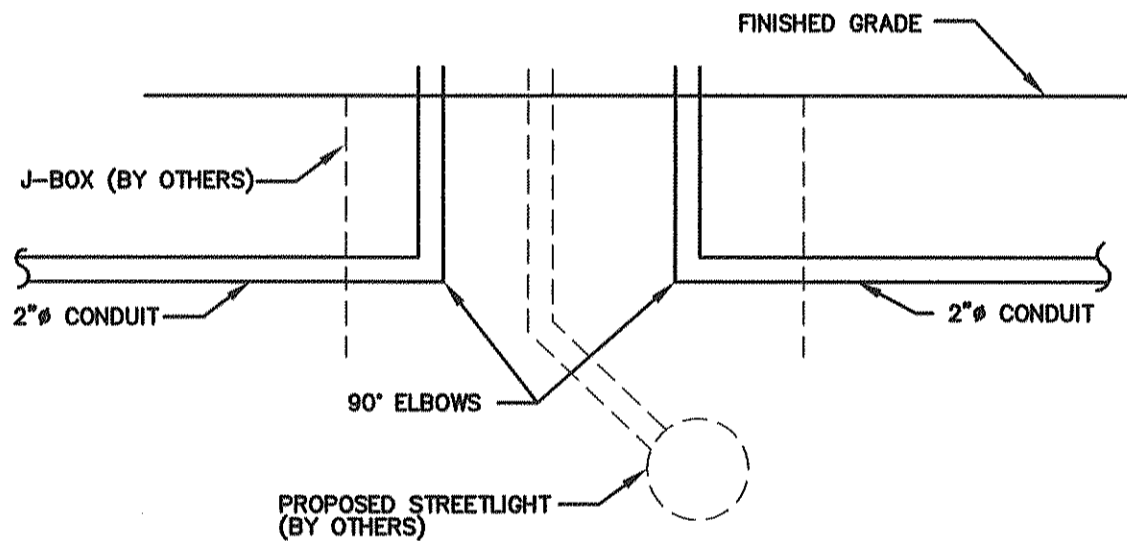
#6 BARS (2)

ATTACHMENT DETAIL



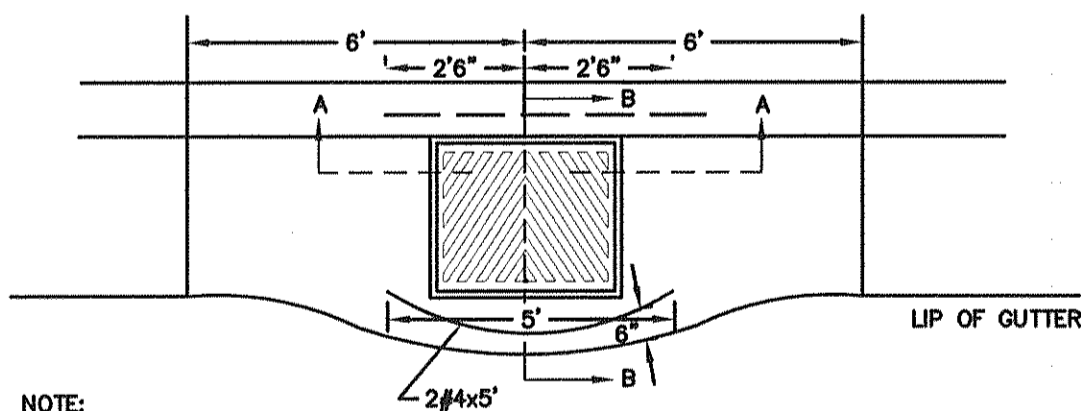
SHARED TRENCH DETAIL

NTS

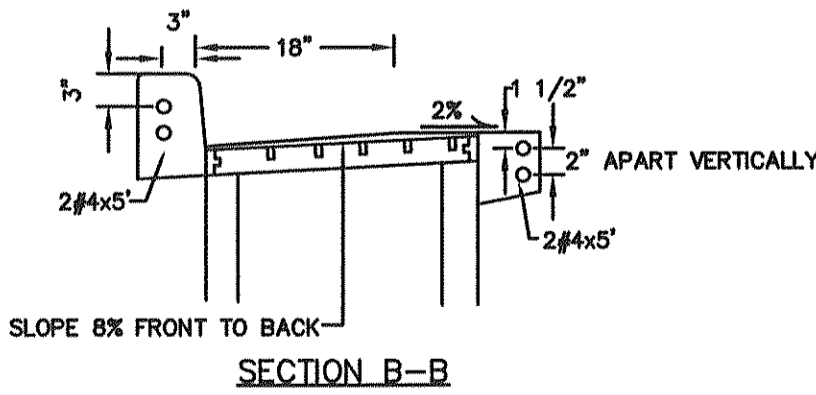


CONDUIT INSTALLATION @ J-BOX

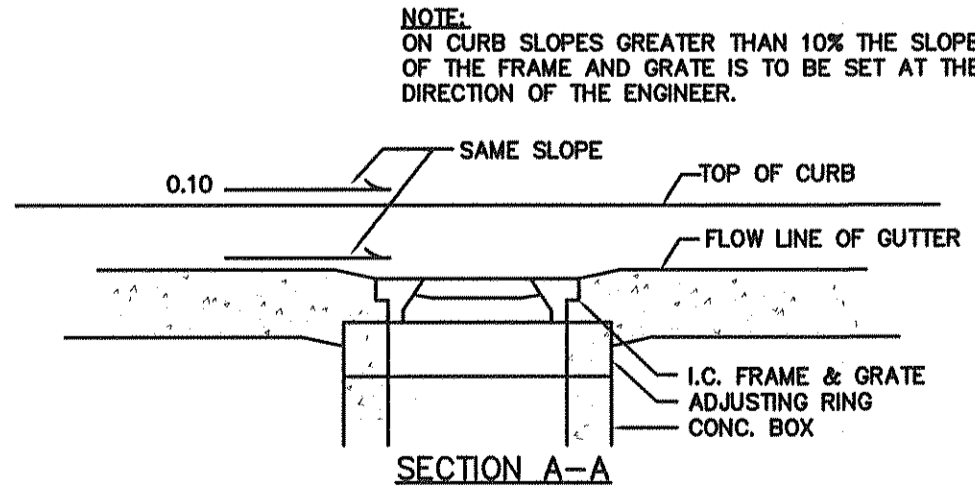
NTS



NOTE:
USE NO. 4 BAR THROUGHOUT



SECTION B-B



NOTE:
ON CURB SLOPES GREATER THAN 10% THE SLOPE
OF THE FRAME AND GRATE IS TO BE SET AT THE
DIRECTION OF THE ENGINEER.

TYPICAL CATCH BASIN

NTS

GENERAL NOTES

All work shall conform to the standard plans and specifications of the Washington State Department of Transportation (WSDOT) and City of Ferndale standards unless indicated otherwise by the contract documents.

Plug all culverts, sewers, and conduits prior to abandonment. Any pipe with less than two feet of proposed cover shall be removed.

The location of existing utilities shown is approximate. It is the responsibility of the Contractor to field verify these locations prior to construction.

The Contractor shall be responsible for contacting any and all utilities in the area prior to beginning an work on this project. The one-call number for underground utilities is 1-800-424-5555.

The Contractor shall notify residents and businesses 48 hours in advance of any work affecting access or service and shall minimize interruptions to driveways adjacent to the project.

Driveways shall not be closed more than 4 hours without owner's consent. Concrete pours shall be staggered such that access is provided whenever possible. Parking shall be provided on one side of the road whenever driveway access is limited.

Rain Garden excavation, grading, topsoil, and underdrain system shall be constructed as detailed in the Civil Drawings and specifications. Rain Garden work shall extend from the edge of the Maple Street parking lot to the north, west, and east limits of clearing.

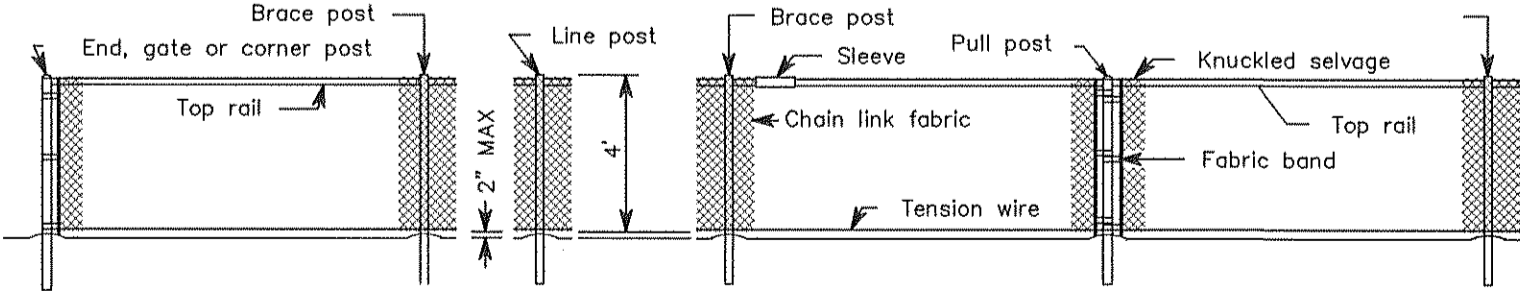
All landscaping including landscaping in the Rain Garden and cleared area to the north shall be constructed as detailed in the Landscaping Drawings and specifications.

All irrigation and fountain installation shall be constructed as detailed in the Landscaping Drawings and specifications.

Electrical installation needed for outlets, enclosures, electrical services, panels, and enclosures shall be constructed as detailed in the Electrical Drawings and specifications. Streetlight conduit and streetlight junction boxes shall be constructed in accordance with the Civil Drawings and specifications.

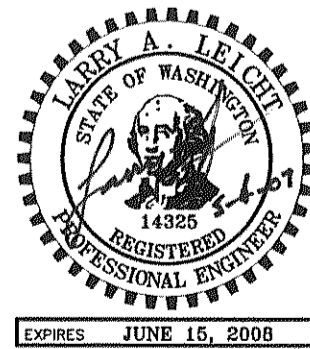
The City will provide all construction staking on this project.

TYPE	MEMBER																		
	BRACE RAIL & TOP RAIL						LINE & BRACE POST						END, CORNER, & PULL POST				GATE POST		ALL POSTS
	ROUND		H-COLUMN		ROLL FORMED		ROUND		H-COLUMN		ROLL FORMED		ROUND		ROLL FORMED		ROUND		
	I.D. Pipe (Inches)	Weight Per Foot (Pounds)	Size (Inches)	Weight Per Foot (Pounds)	Size (Inches)	Weight Per Foot (Pounds)	I.D. Pipe (Inches)	Weight Per Foot (Pounds)	Size (Inches)	Weight Per Foot (Pounds)	Size (Inches)	Weight Per Foot (Pounds)	I.D. Pipe (Inches)	Weight Per Foot (Pounds)	Size (Inches)	Weight Per Foot (Pounds)	I.D. Pipe (Inches)	Weight Per Foot (Pounds)	
6	1-1/4	2.27	1-1/4 x 1-5/8	1.35	1-5/8 x 1-1/4	1.35	2	3.65	2-1/4	4.0	1-5/8 x 1-7/8	2.34	2-1/2	5.79	3-1/2 x 3-1/2	5.14	3-1/2	9.1	5'-6"



CHAIN LINK FENCE TYPE 6

NTS



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PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687
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CITY OF FERDALE
2095 MAIN STREET
FERDALE, WA 98248

CENTENNIAL RIVERWALK
DETAILS AND GENERAL NOTES

JOB# / DWG
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5-4-07

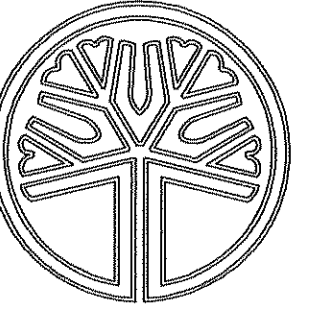
SCALE

H:N/A

V:N/A

SHEET

C8 of C8



STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

PAUL M. GEORGE
CERTIFICATE NO. 641



Cascade Design Group

P.O. Box 5938
Bellingham, WA 98227
360-715-2119

cgroup@casadedesigngroup.net

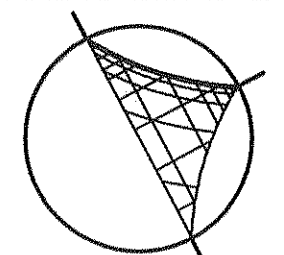
Paul George
Landscape Architect

Centennial Riverwalk Ferndale, WA

REVISIONS

May 1, 2007

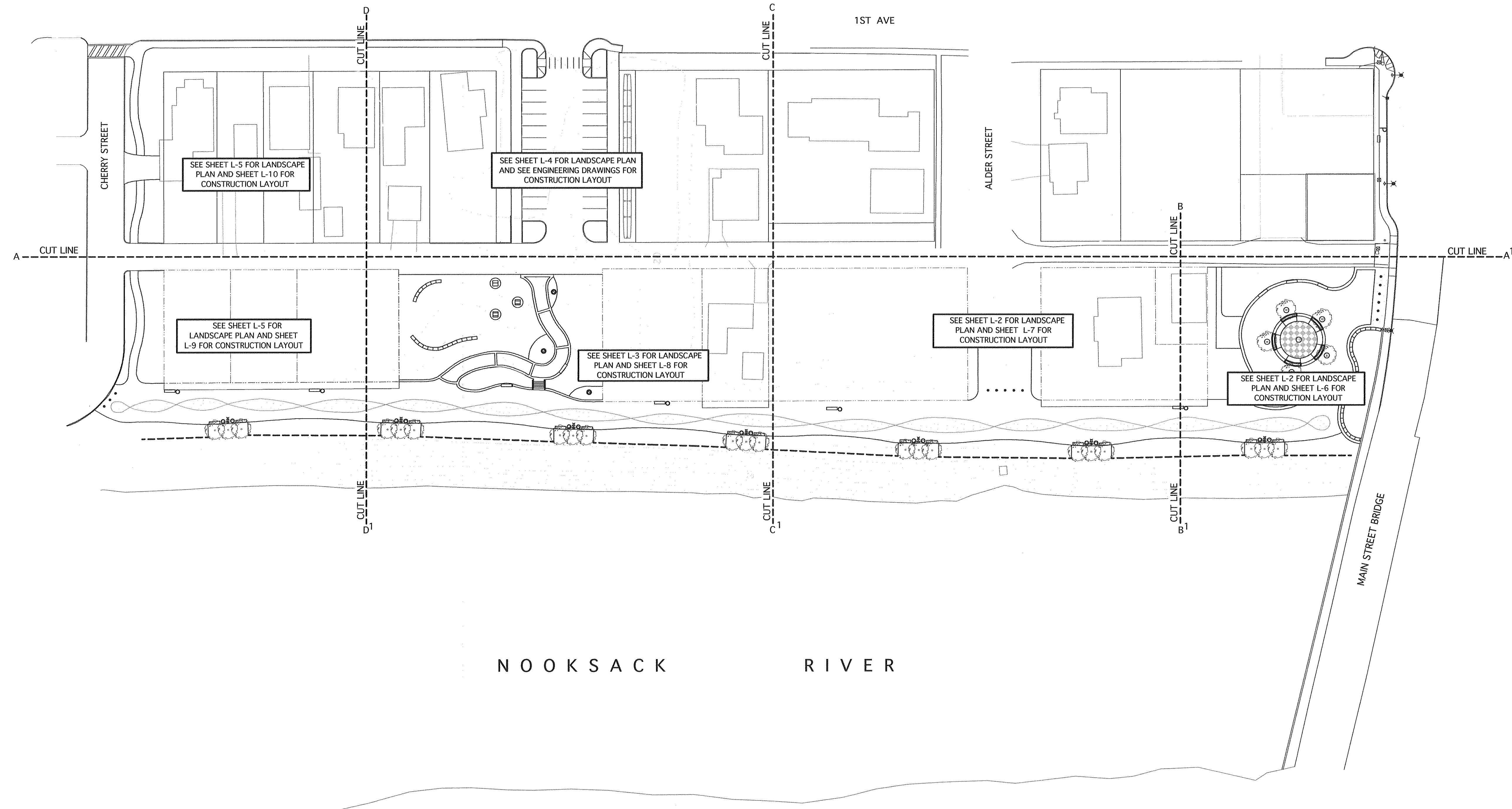
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NORTH
L-1

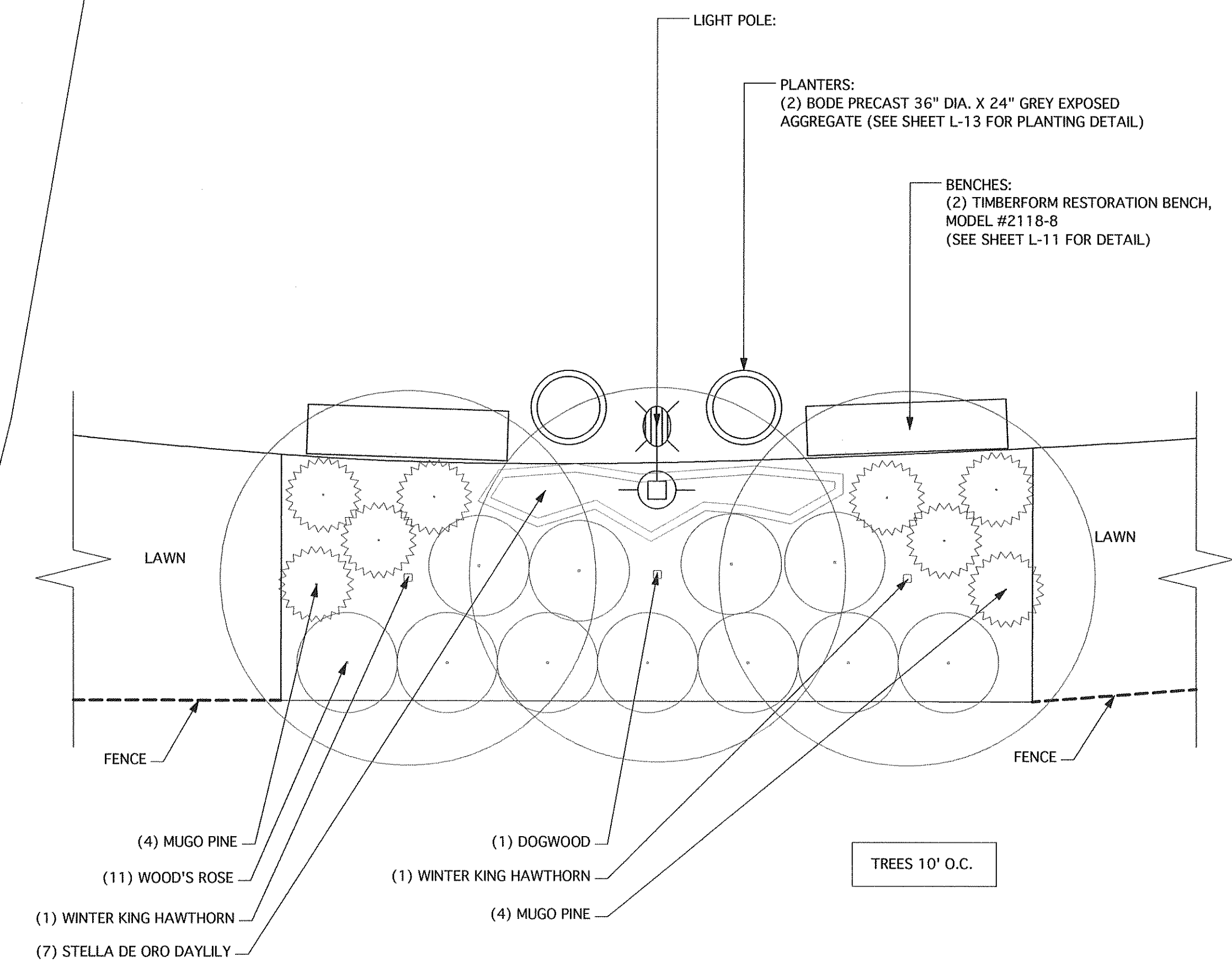
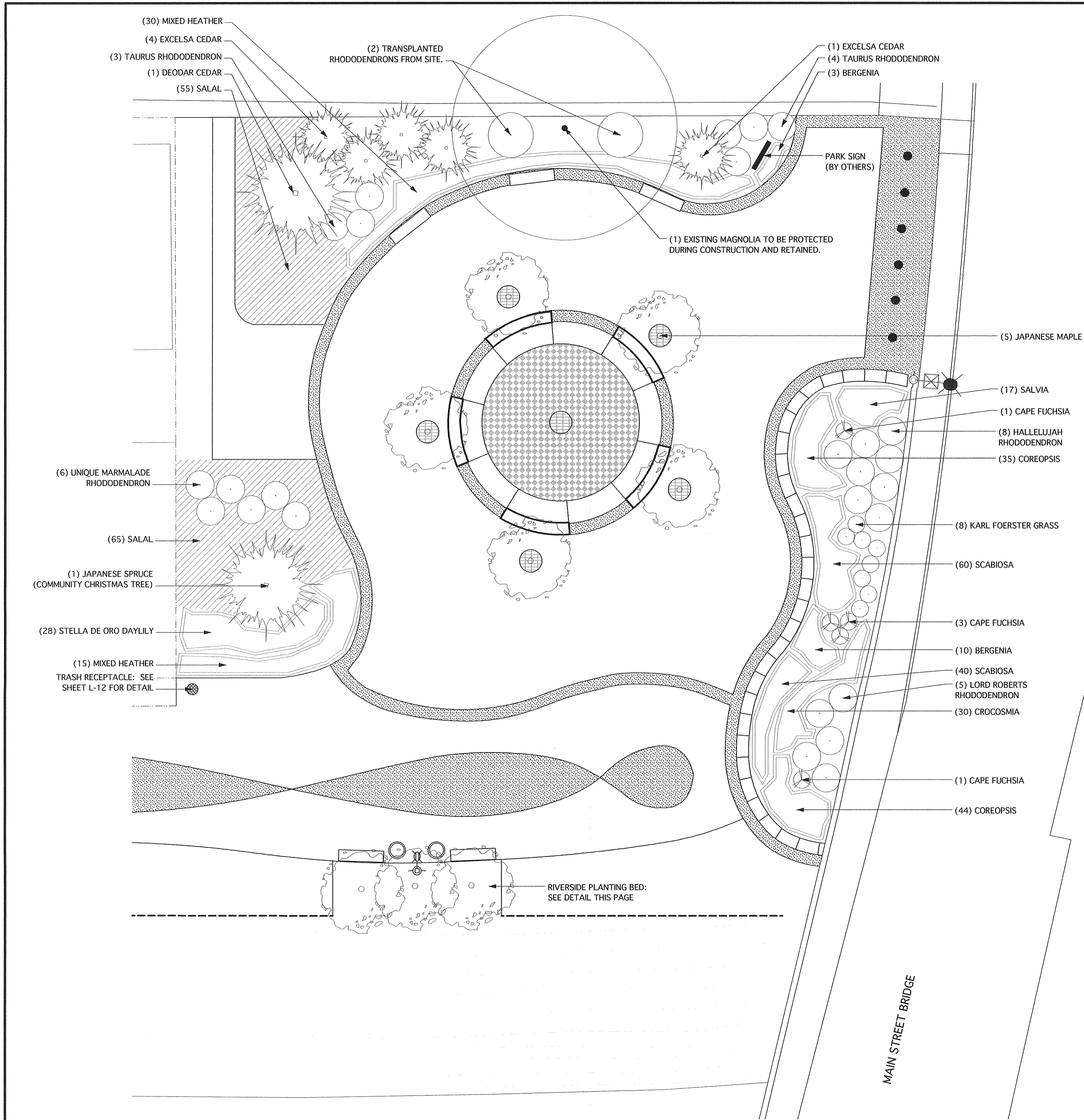
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SHEET L-5: CHERRY STREET PLANTING PLAN
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SHEET L-12: SITE FURNISHING DETAILS
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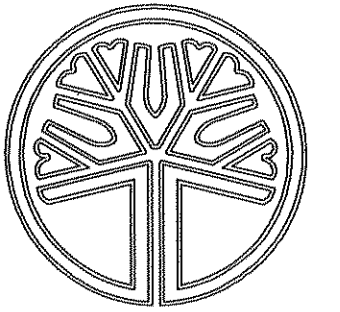


Project Overview

Scale: 1" = 40' = 0"



Main Street Plaza Planting Plan
Scale: As Indicated



STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

PAUL M. GEORGE
CERTIFICATE NO. 641



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P.O. Box 5938
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360-715-2119

cgroup@cascadedesigngroup.net

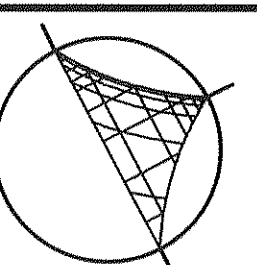
Paul George
Landscape Architect

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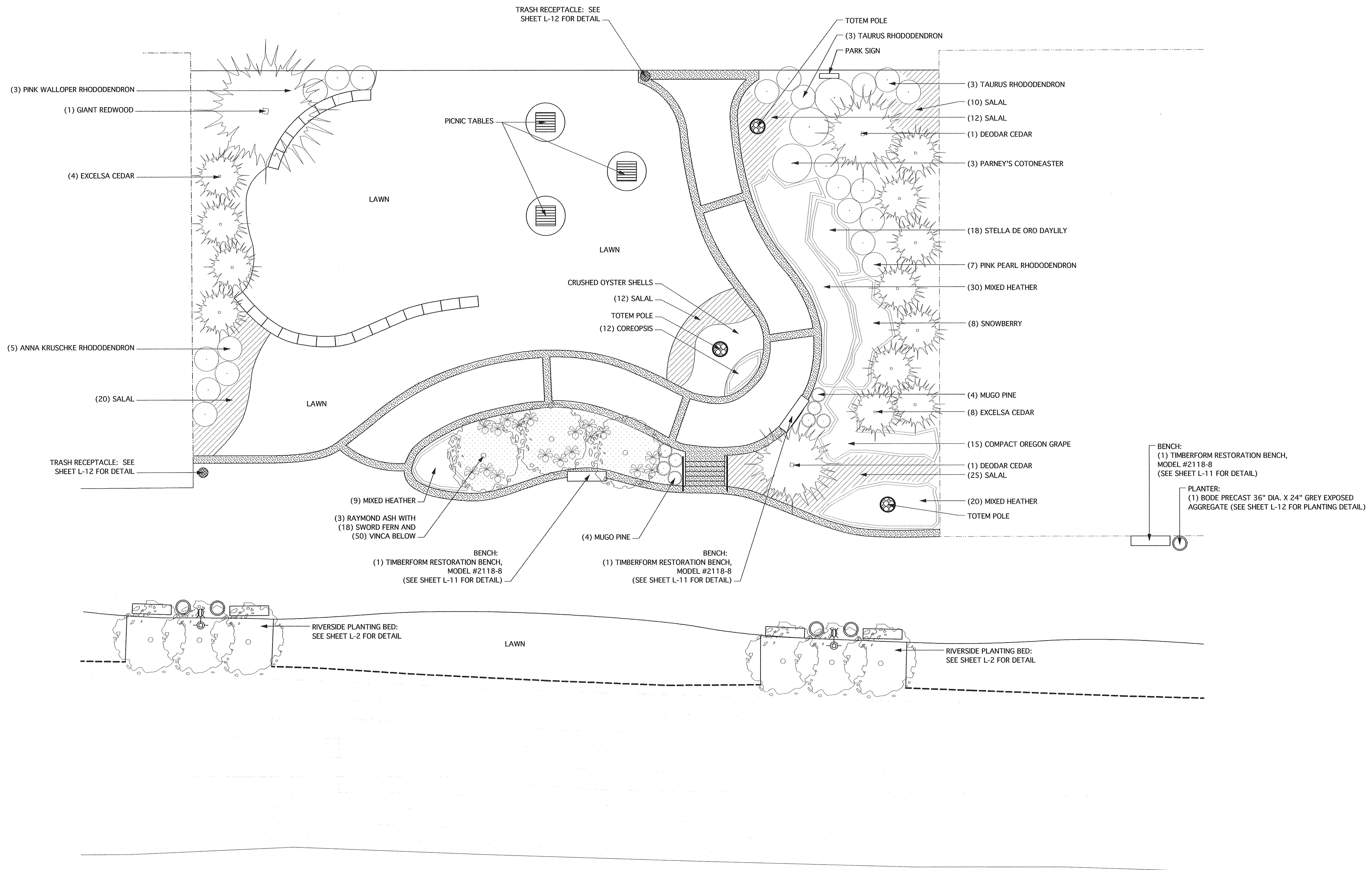
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May 1, 2007

DATE: March 9, 2007



NORTH
L-2

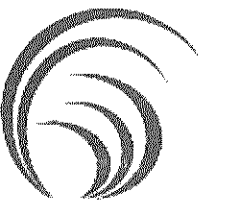


Maple Street Park Planting Plan
Scale: 1" = 10'-0"



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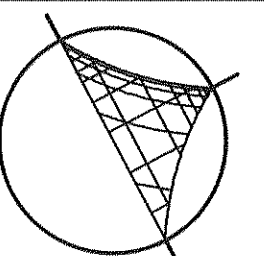
Paul George
Landscape Architect

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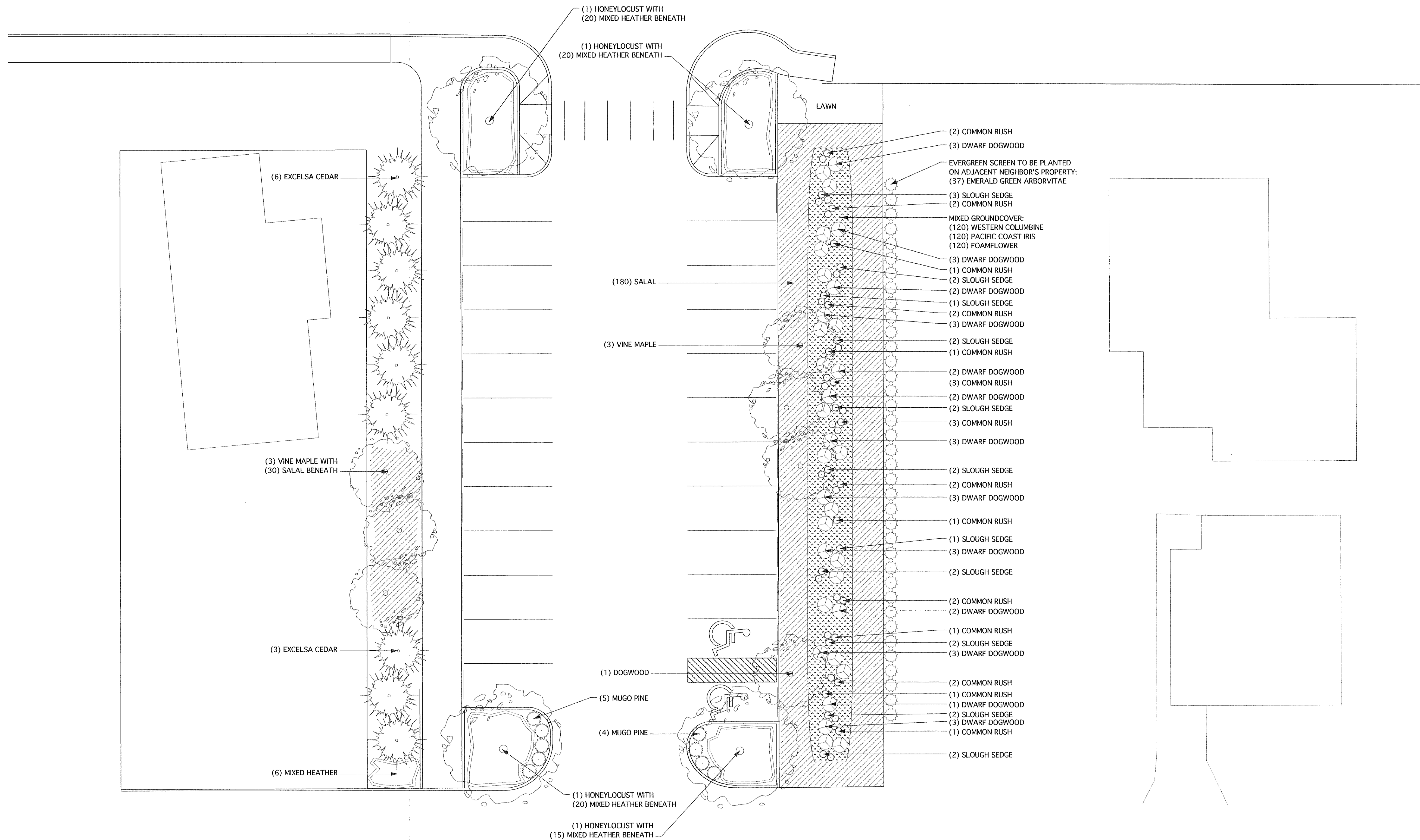
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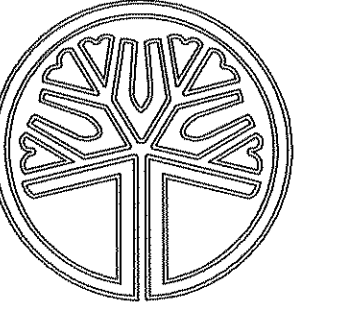
DATE: March 9, 2007



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L-3



Maple Street Parking Planting Plan
Scale: 1" = 10'-0"



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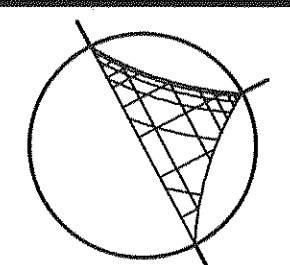
Paul George
Landscape Architect

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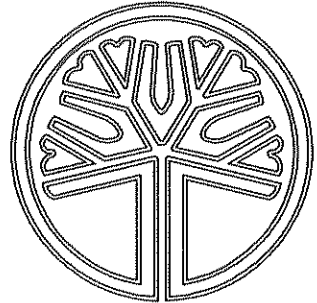
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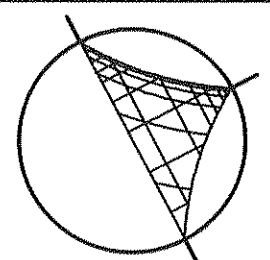
Paul George
Landscape Architect

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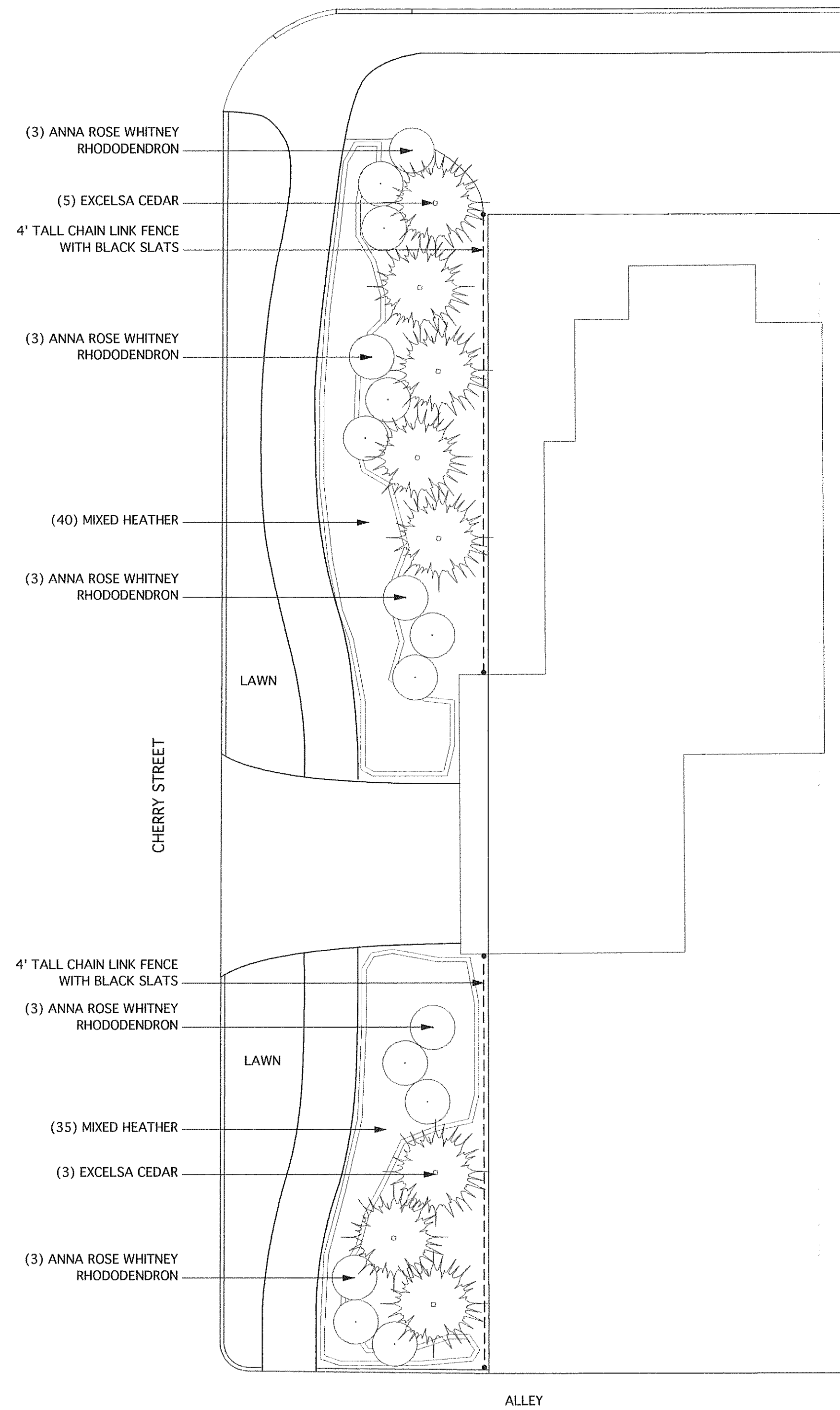
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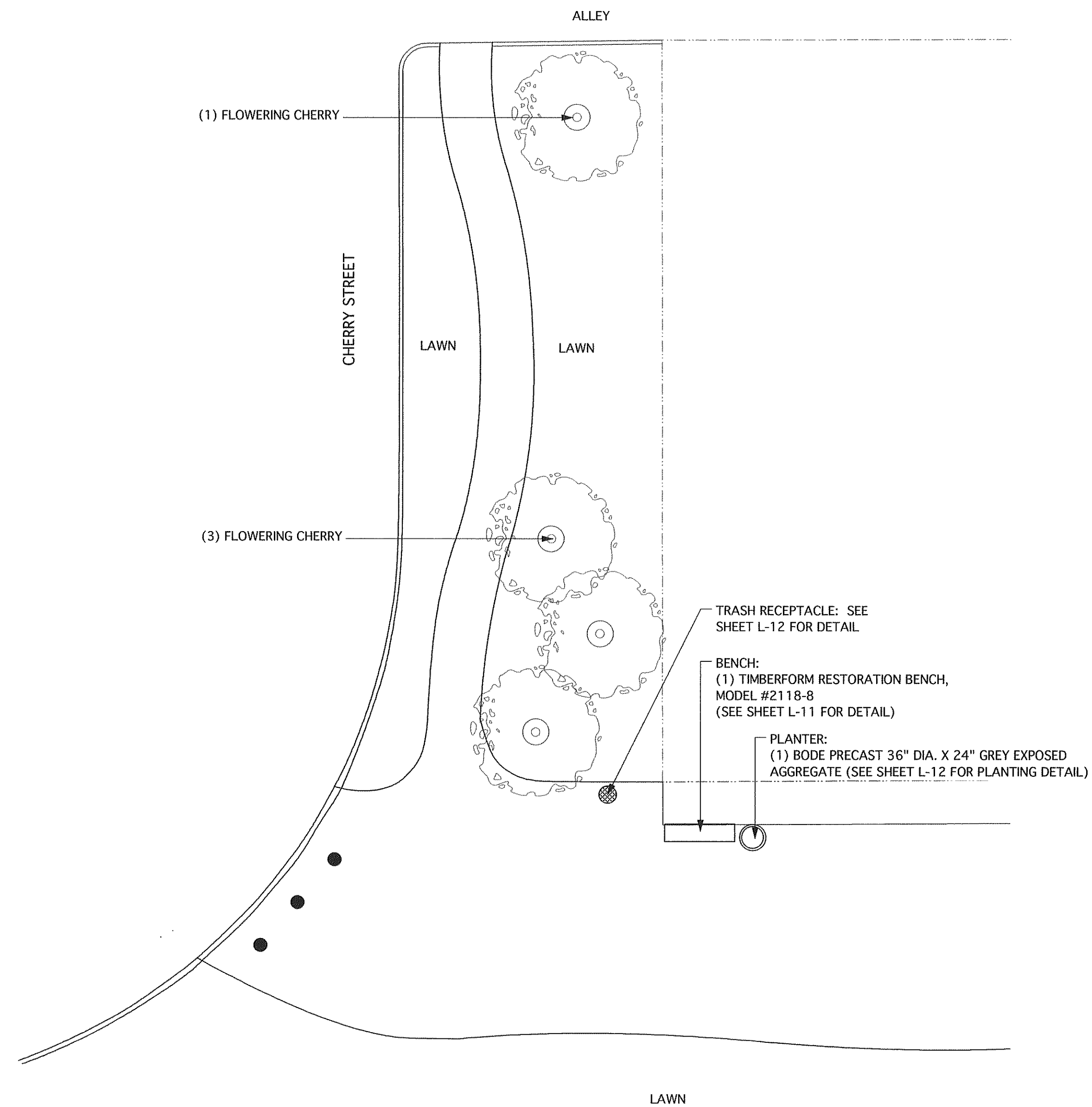
DATE: March 9, 2007



NORTH
L-5



Cherry Street West Detail



Cherry Street East Detail

Cherry Street Planting Plan

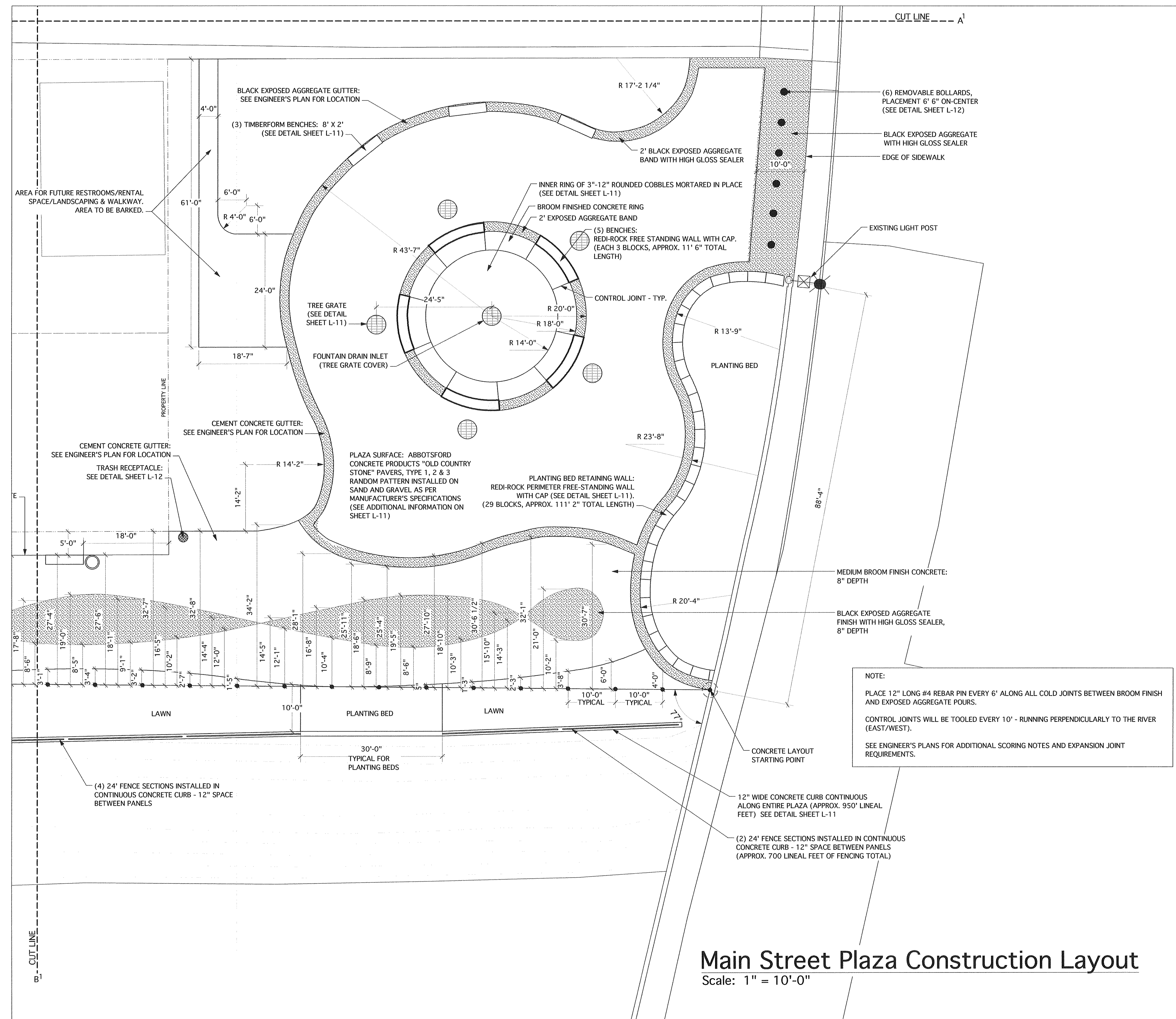
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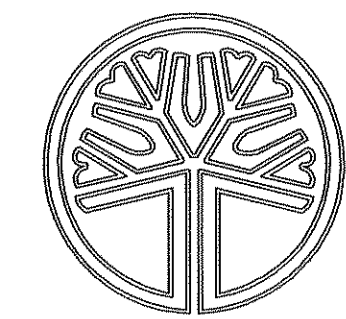
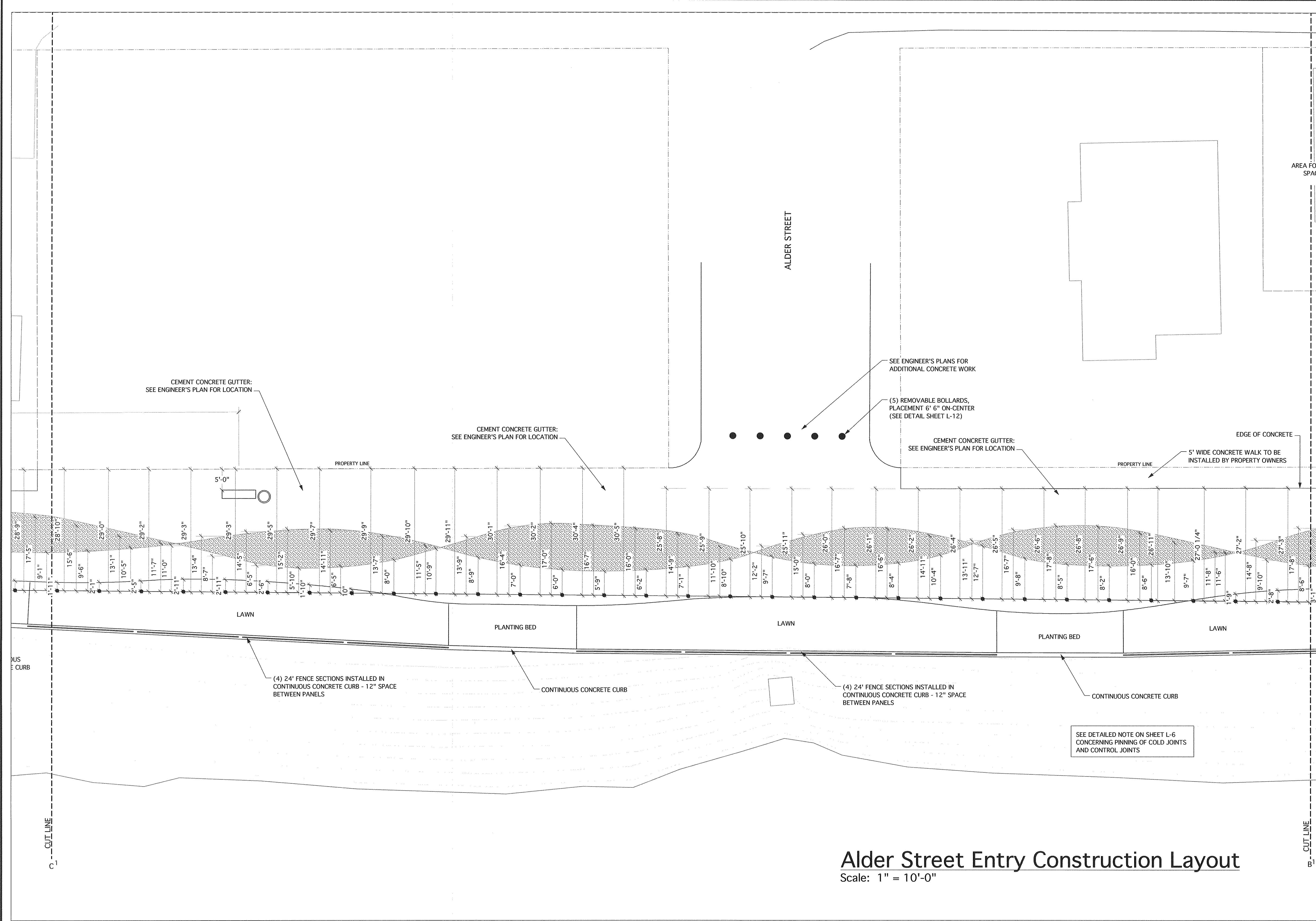
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Main Street Plaza Construction Layout

Scale: 1" = 10'-0"



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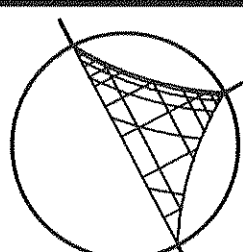
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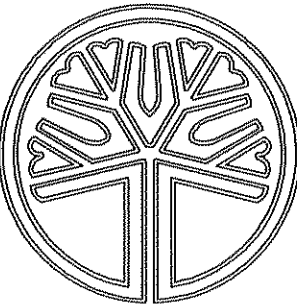
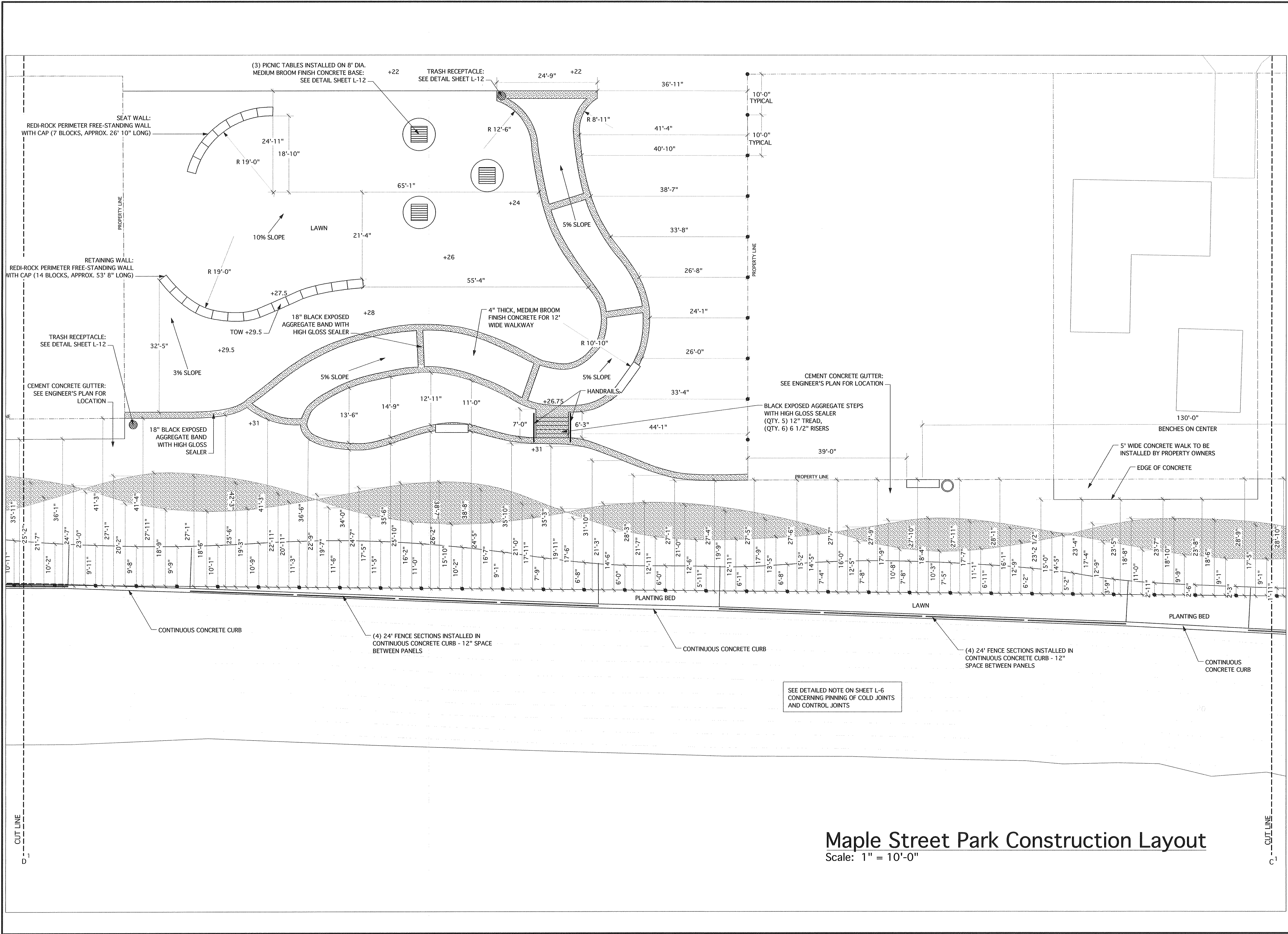


NORTH

L-7

Alder Street Entry Construction Layout

Scale: 1" = 10'-0"



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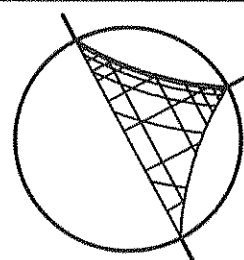
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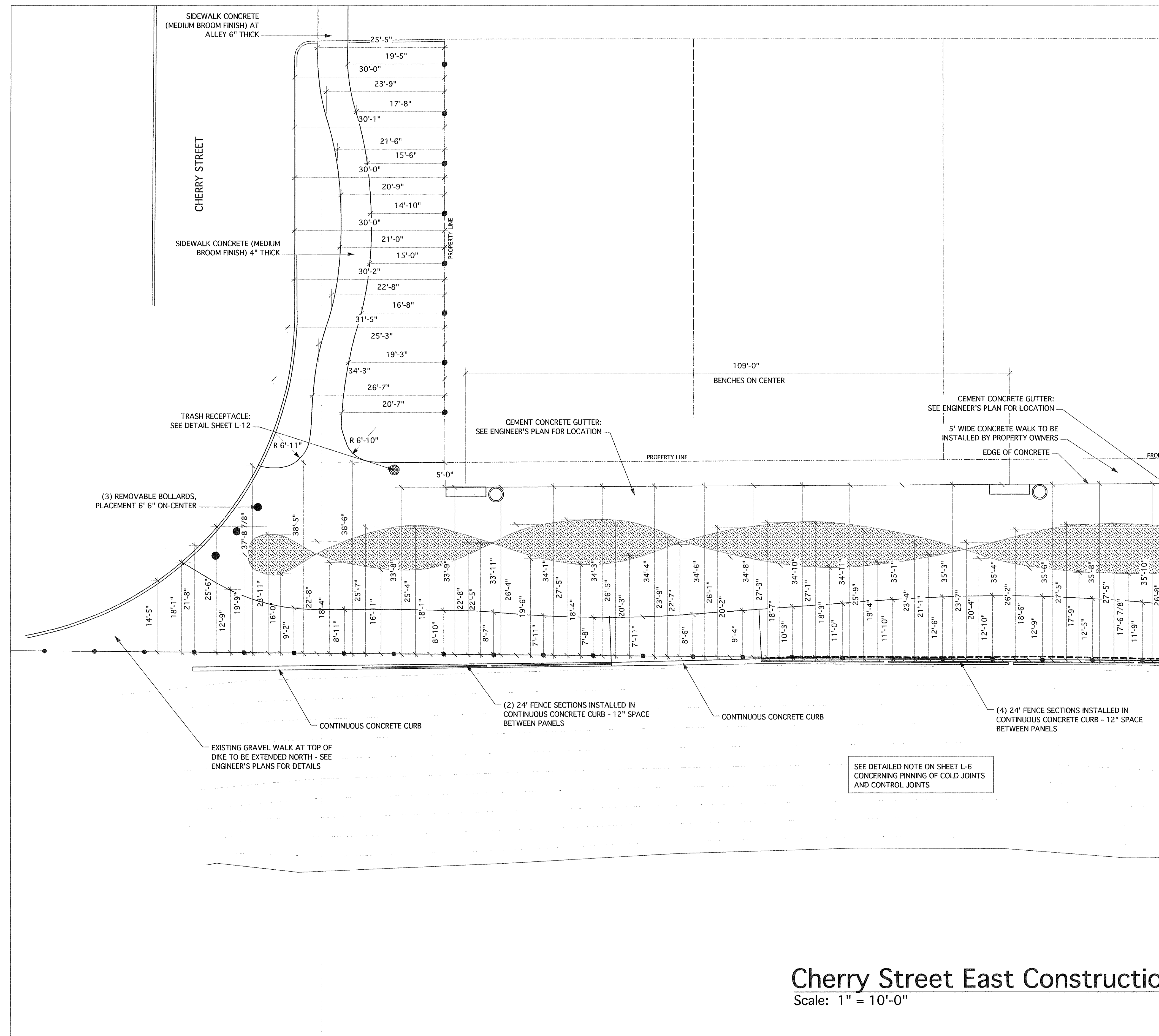
REVISIONS

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DATE: March 9, 2007

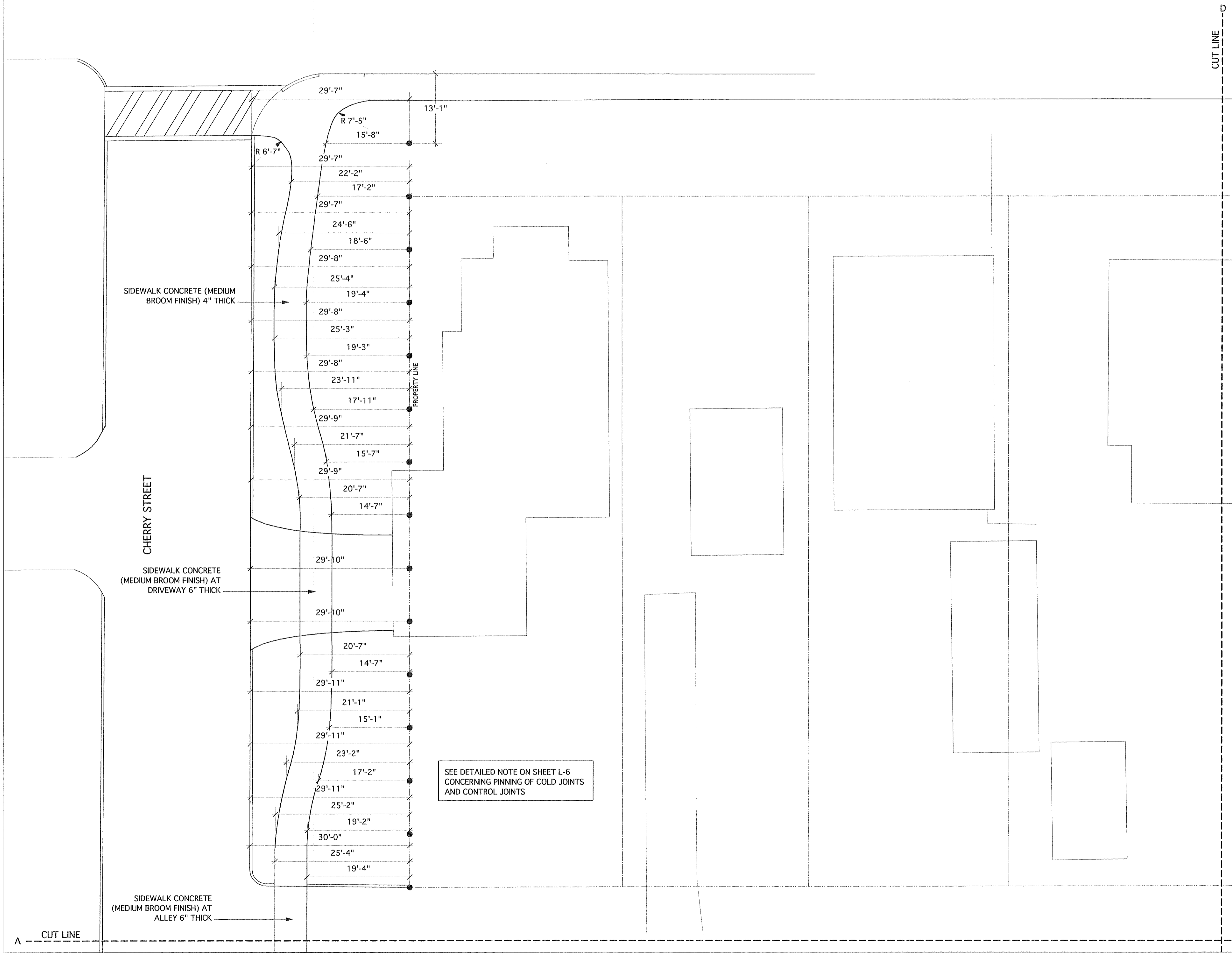


L-9

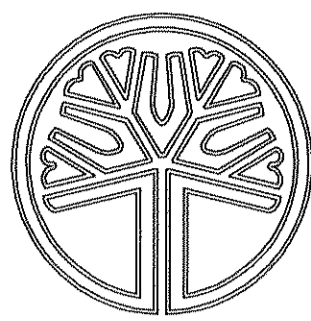


Cherry Street East Construction Layout

Scale: 1" = 10'-0"



Cherry Street West Construction Layout
Scale: 1" = 10'-0"



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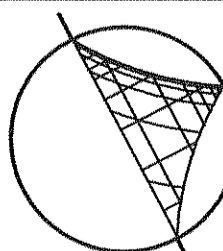
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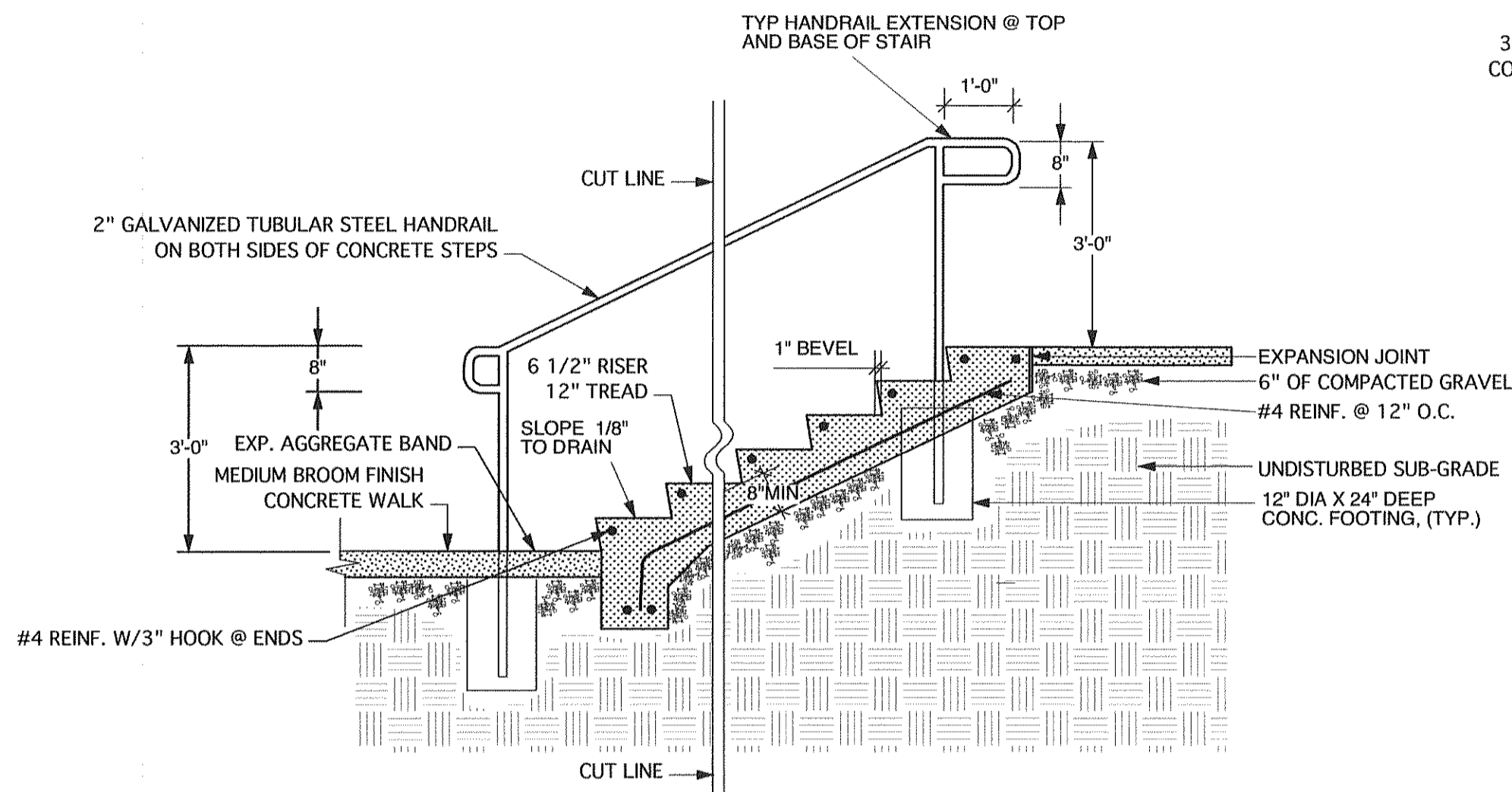


NORTH
L-10

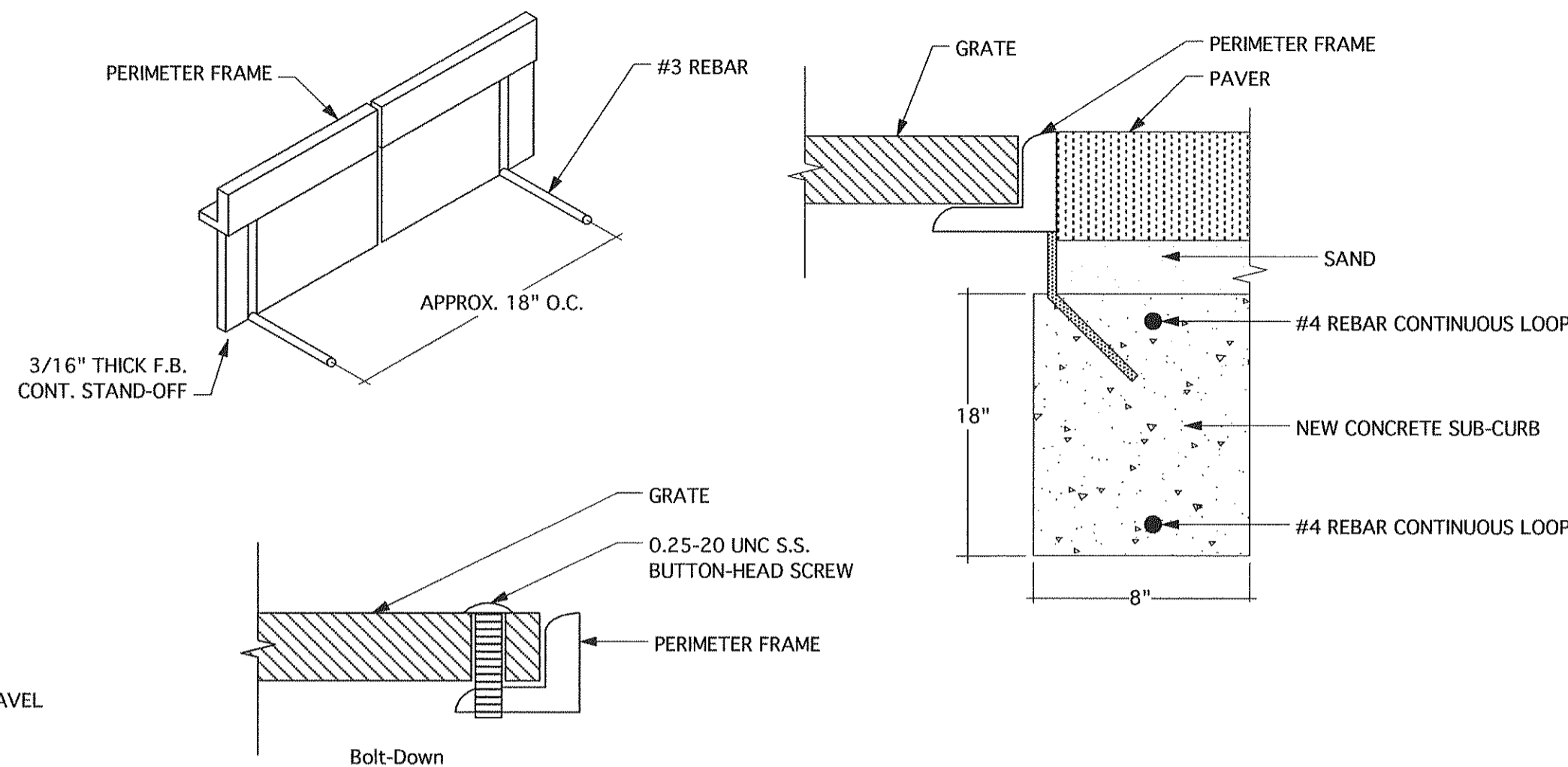
- SITE FURNISHINGS:
- BENCH: (QTY. 24) TIMBERFORM
RESTORATION
MODEL #2118-8
YELLOW CEDAR SLATS
BLACK FINISH
WWW.TIMBERFORM.COM
- LITTER RECEPTACLE: (QTY. 4) TIMBERFORM
PLAZA
MODEL #2772-DT-P
DOME-TOP, PEDESTAL MOUNTING
WWW.TIMBERFORM.COM
- TABLES: (QTY. 3) TIMBERFORM
MODEL #2056-8484-P
WWW.TIMBERFORM.COM
- BOLLARDS: (QTY. 14) TIMBERFORM
TIMBER BOLLARD
MODEL #2563-R
36" HEIGHT - LATHE TURNED
WWW.TIMBERFORM.COM
- CONCRETE PLANTERS: (QTY. 19) BODES PRECAST
ROUND PLANTER
EXPOSED AGGREGATE FINISH
36" DIAMETER/24" HEIGHT
WWW.BODESPRECAST.COM
- TREE GRATES: (QTY. 6) URBAN ACCESSORIES
SANSKRIT
4" DIAMETER/ROUND
WWW.URBANACCESSORIES.COM
- SEAT/RETAINING WALLS: (APPROX. 250 LINEAL FEET) REDI-ROCK FREE
STANDING WALL BLOCKS WITH CAPS
WWW.REDI-ROCK.COM/BODE'S PRECAST
- PAVERS: ABBOTSFORD CONCRETE PRODUCTS
OLD COUNTRY STONE
TYPE 1, 2 & 3 RANDOM PATTERN
TYPE 1 COMPRISES 50% OF TOTAL AREA (COLOR: CHARCOAL)
TYPE 2 COMPRISES 34% OF TOTAL AREA (COLOR: NATURAL)
TYPE 3 COMPRISES 16% OF TOTAL AREA (COLOR: RED/BLACK)
WWW.PAVINGSTONES.COM

NOTE FOR CONTRACTORS:

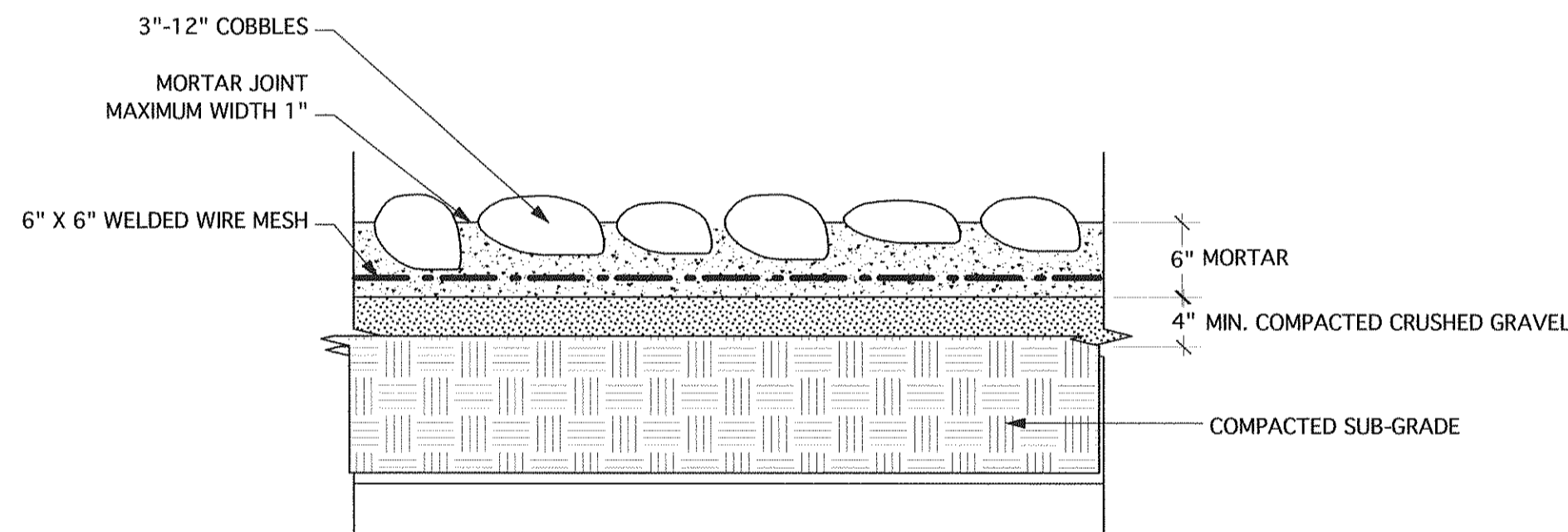
ALL MEASUREMENTS AND QUANTITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION & ANY/ ALL DISCREPANCIES BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE AUTHORIZATION OF THE LANDSCAPE ARCHITECT.



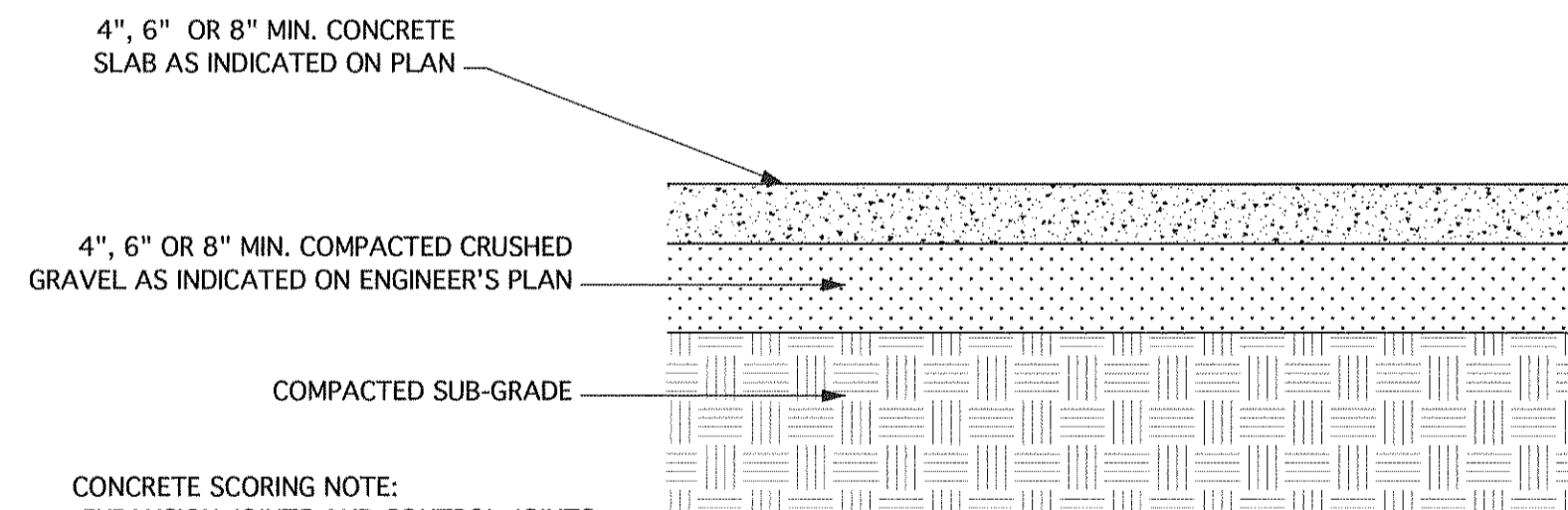
Stair & Handrail Detail
Scale: NTS



Tree Grate Details
Scale: NTS

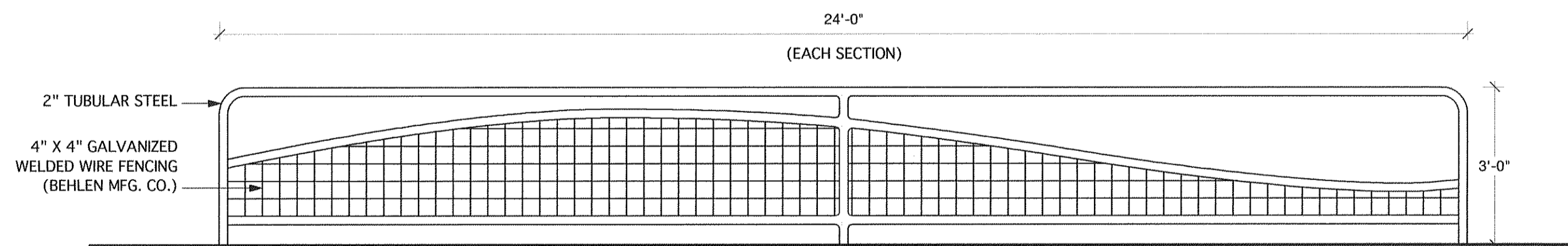


Mortared Cobble Detail
Scale: 1" = 1'-0"

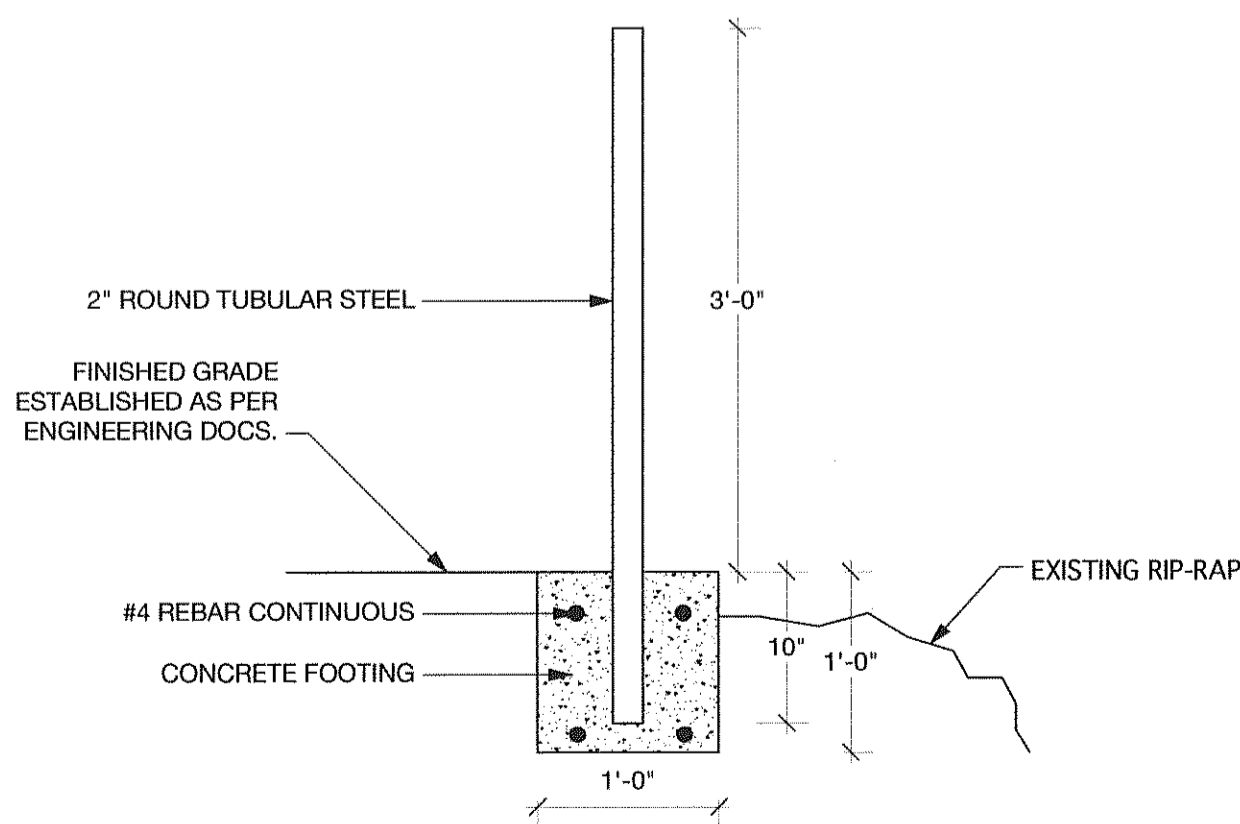


CONCRETE SCORING NOTE:
-EXPANSION JOINTS AND CONTROL JOINTS
WILL BE INCLUDED PER INDUSTRY STANDARD
(SEE ENGINEER'S SPECS. FOR ADDITIONAL
INFORMATION).
-CONTROL JOINTS SHOULD PENETRATE TO A
DEPTH EQUAL TO 25% OF SLAB THICKNESS.
-SCORING DETAILS, LAYOUT AND PATTERN
ARE TO BE CONFIRMED BETWEEN THE
CONCRETE CONTRACTOR AND LANDSCAPE
ARCHITECT PRIOR TO INSTALLATION.

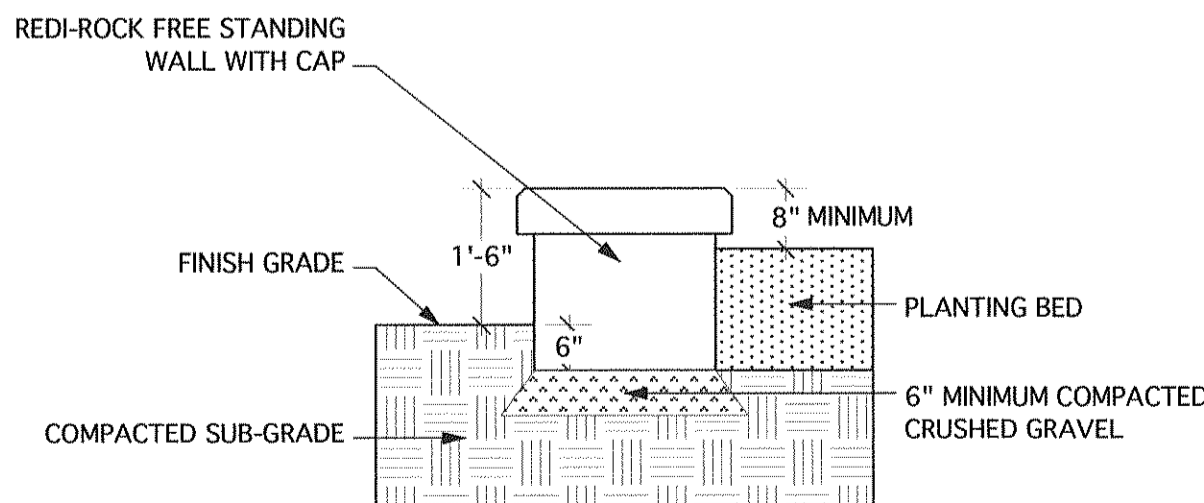
Concrete Walkway Detail (Typical)
Scale: 1" = 1'-0"



Riverside Fence Detail
Scale: 1/2" = 1'-0"



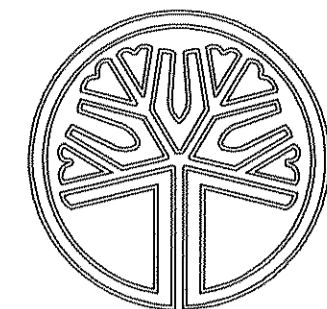
Riverside Fence Construction Detail
Scale: 1/2" = 1'-0"



Redi-Rock Wall Detail
Scale: 1" = 1'-0"

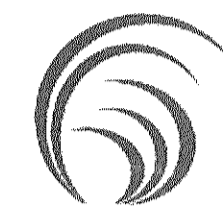
Site Furnishings & Landscape Construction Details

Scale: As Indicated



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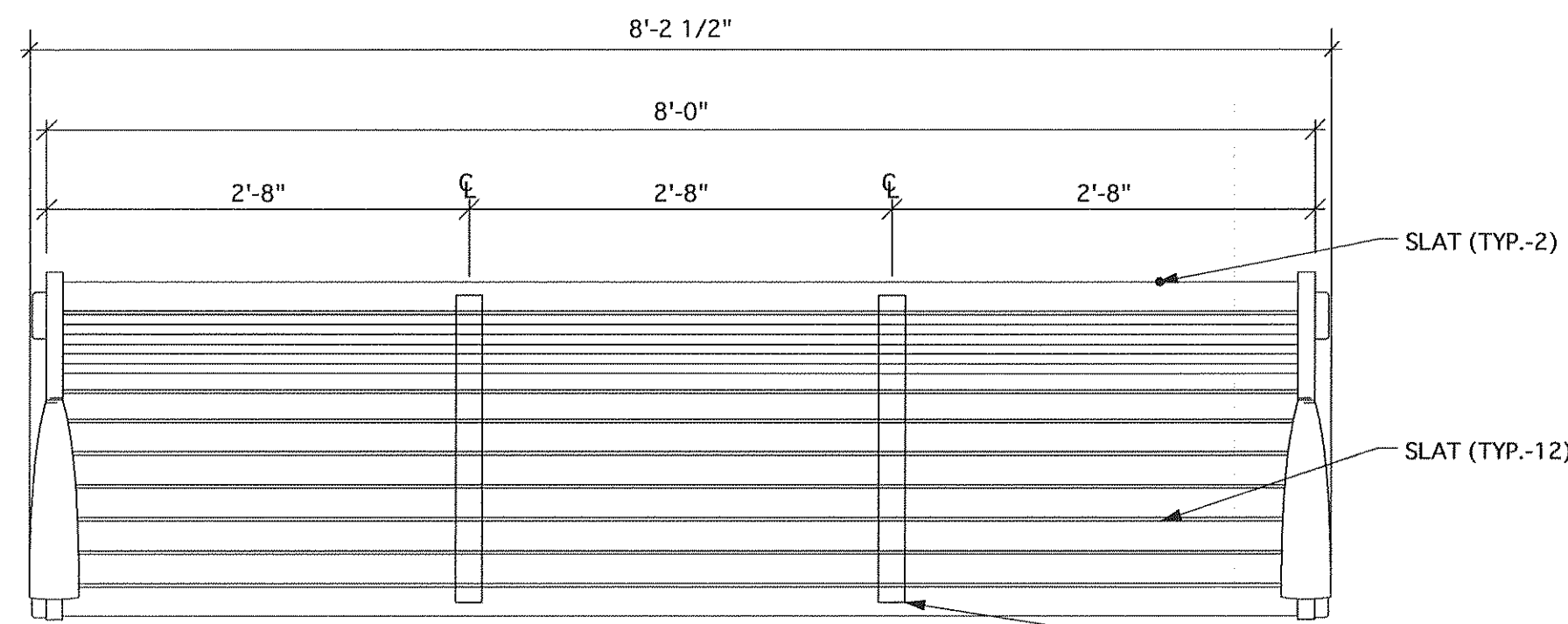
Paul George
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Ferndale, WA

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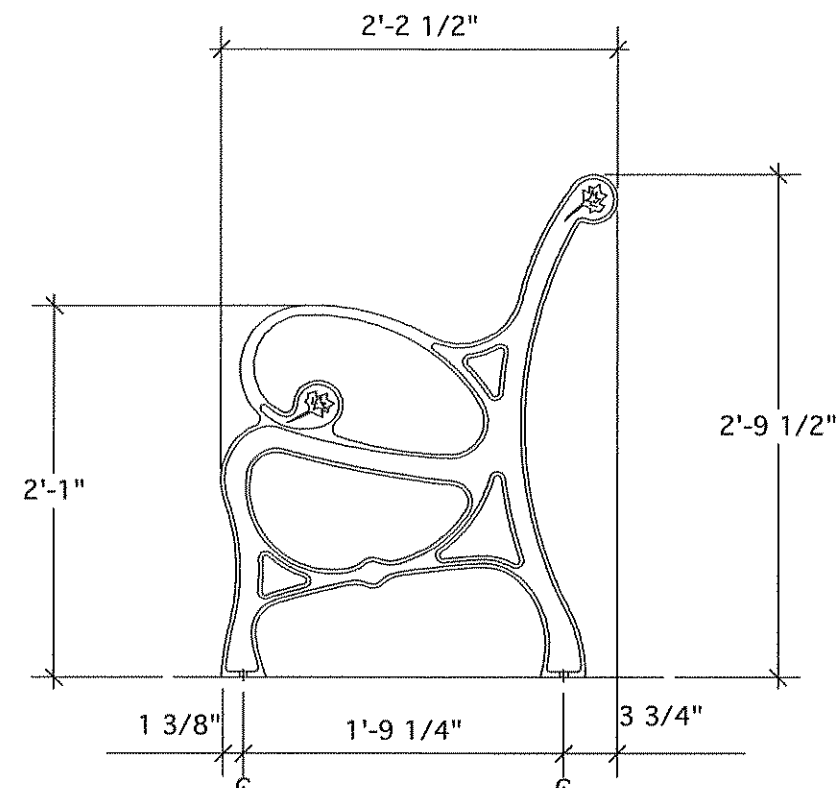
May 1, 2007

DATE: March 9, 2007



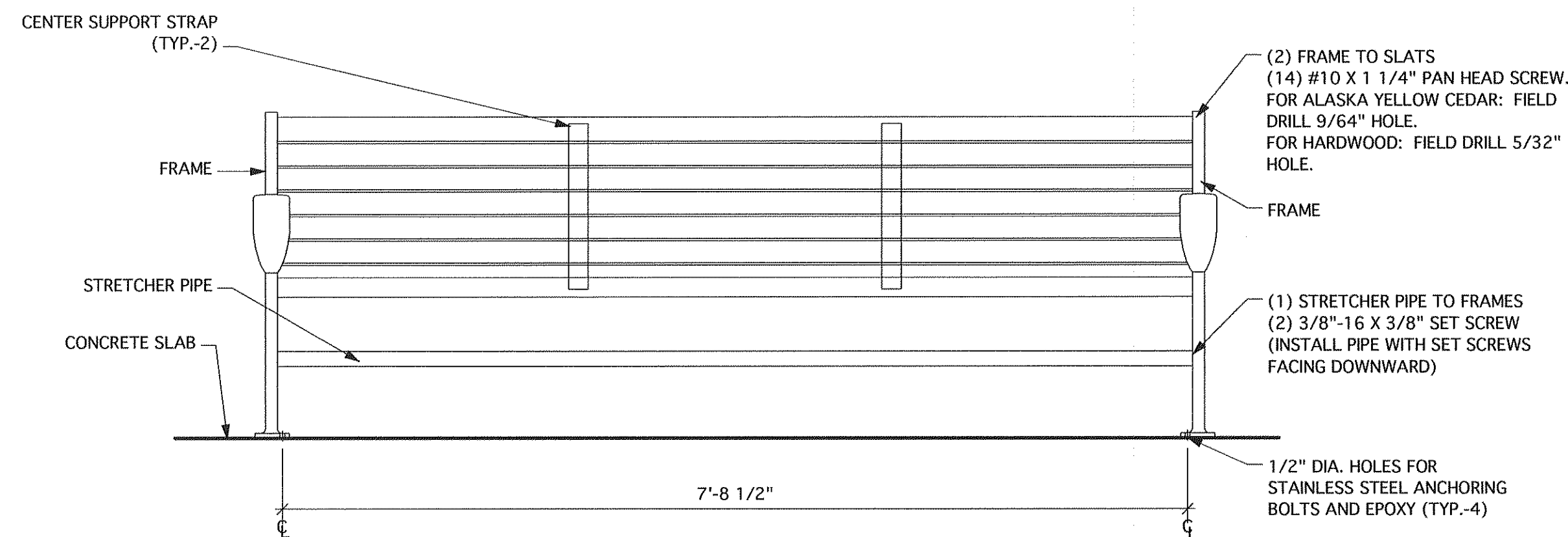
Bench Plan View
Scale: NTS

- (1) SUPPORT STRAP TO SLATS
(14) #10 X 1 1/4" PAN HEAD SCREW
FOR ALASKA YELLOW CEDAR: FIELD DRILL
9/64" PILOT HOLE.
FOR HARDWOOD: FIELD DRILL 5/32" PILOT
HOLE.



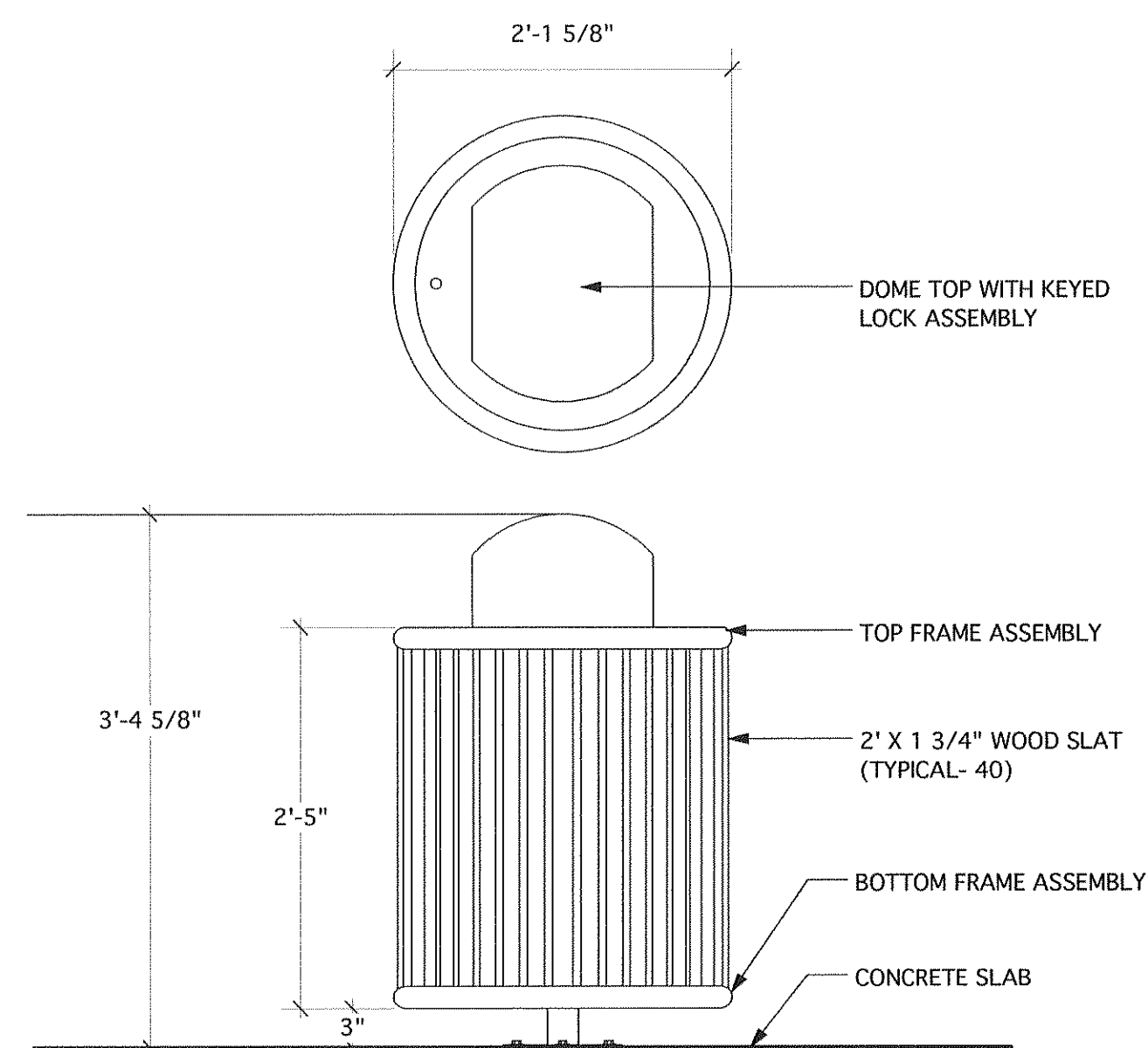
Bench End View
Scale: NTS

- ADDITIONAL INSTALLATION NOTES:
1. BEFORE ANCHORING, ASSEMBLE CAST IRON FRAMES, SLATS, AND STRETCHER PIPE
PER NOTES 2-5. USE ASSEMBLED BENCH TO LOCATE ANCHORS.
2. INSTALL STRETCHER PIPE SO THAT THE ENDS ARE FLUSH WITH THE FRAMES.
3. EACH SLAT MUST BE POSITIONED SO THAT THE BEST FACE IS
EXPOSED WHEN ASSEMBLED. NOTE THAT BACKREST SLATS HAVE
TWO VISIBLE FACES. THEREFORE, IF A SLAT HAS A BLEMISH, IT MUST
BE INSTALLED ON THE SEAT PORTION OF THE BENCH WITH THE BEST
FACE VISIBLE. FOR MULTIPLE BENCH ORDERS, EXAMINE AND SORT ALL SLATS
PRIOR TO COMMENCING ASSEMBLY TO ENSURE THE BEST FACES ARE EXPOSED.
4. ATTACH SLATS TO END FRAMES AFTER DRILLING PILOT HOLES.
5. AFTER SLATS ARE FASTENED TO END FRAMES, ALIGN ALL SLATS FOR UNIFORM SPACING
IN CENTER AREA. WE RECOMMEND THE USE OF TEMPORARY SHIMS BY OTHERS AS NECESSARY.
ATTACH CENTER SUPPORT STRAP TO BACK OF SLATS. REMOVE SHIMS AFTER ATTACHING STRAP.

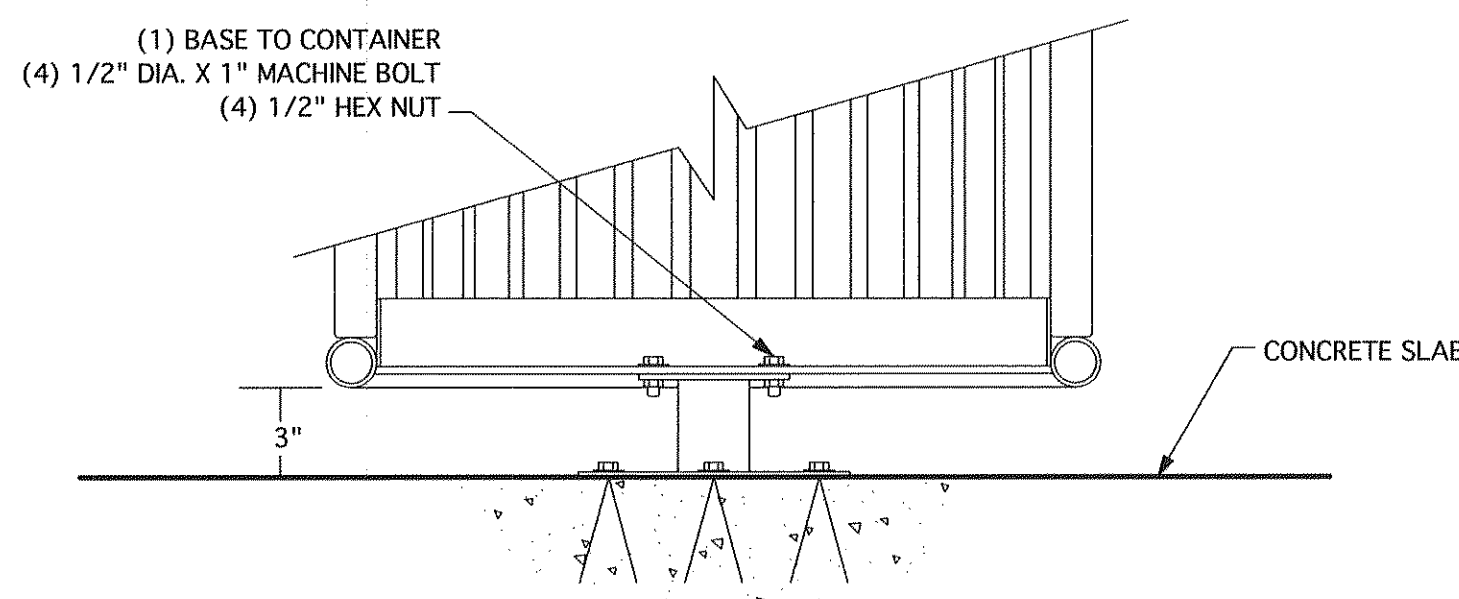
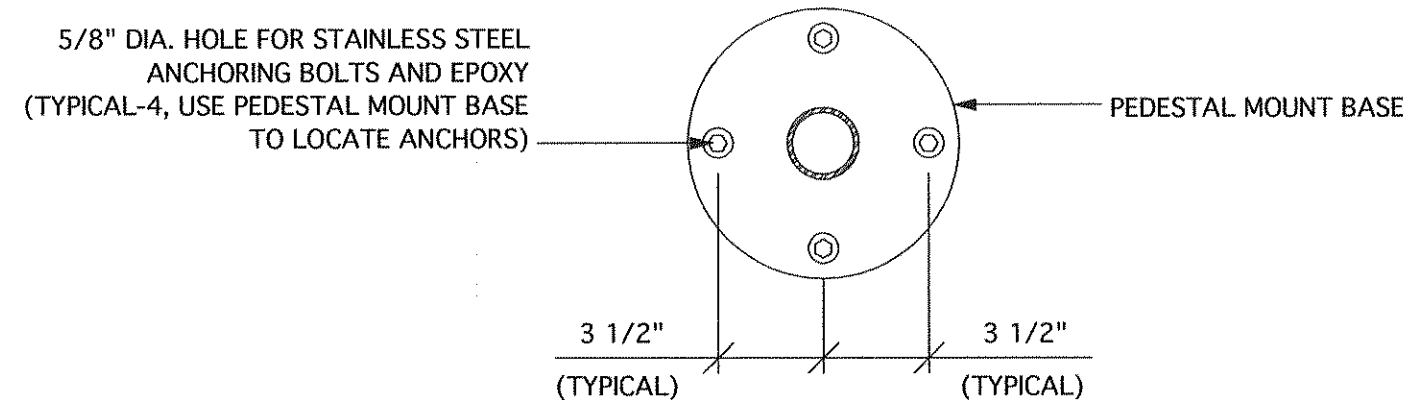


Bench Front Elevation
Scale: NTS

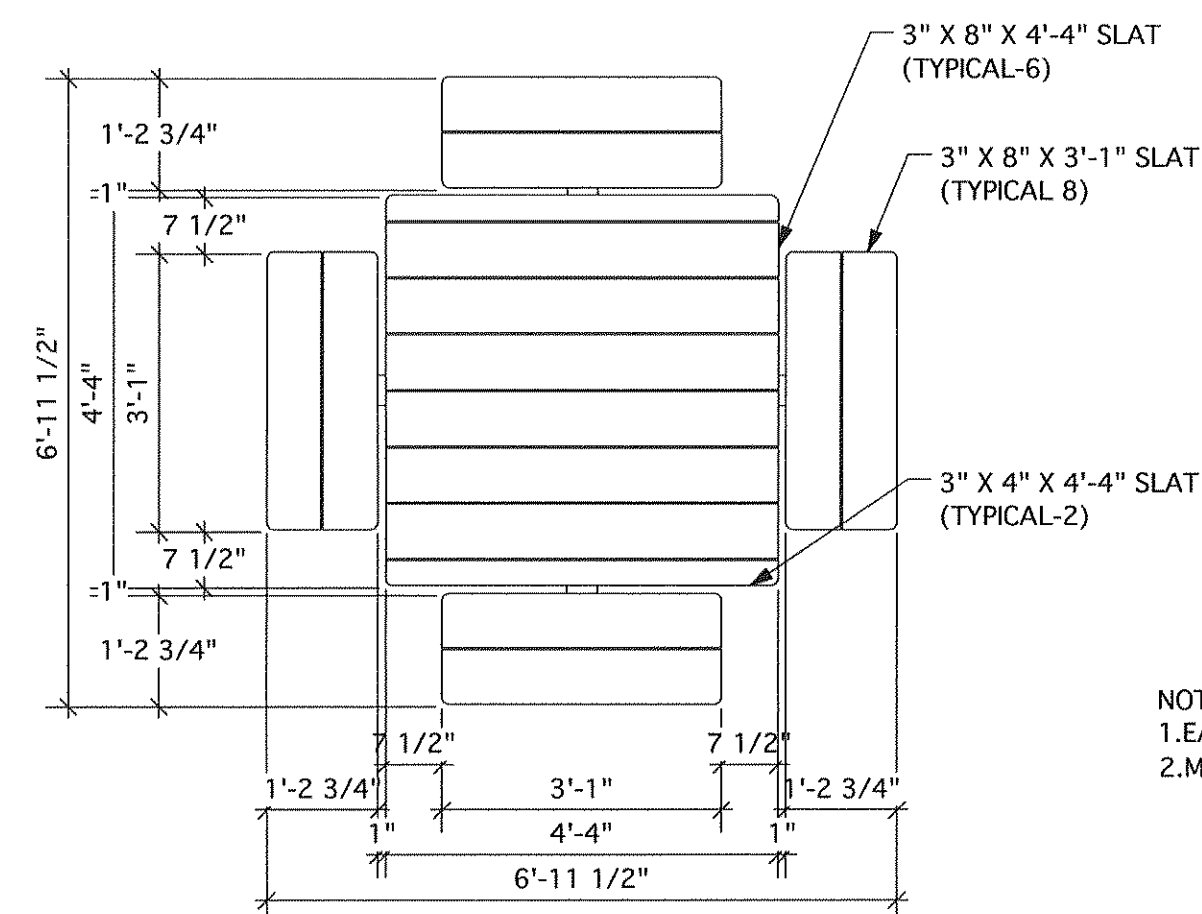
Bench Details
Scale: As Indicated



Trash Receptacle Detail
Scale: NTS

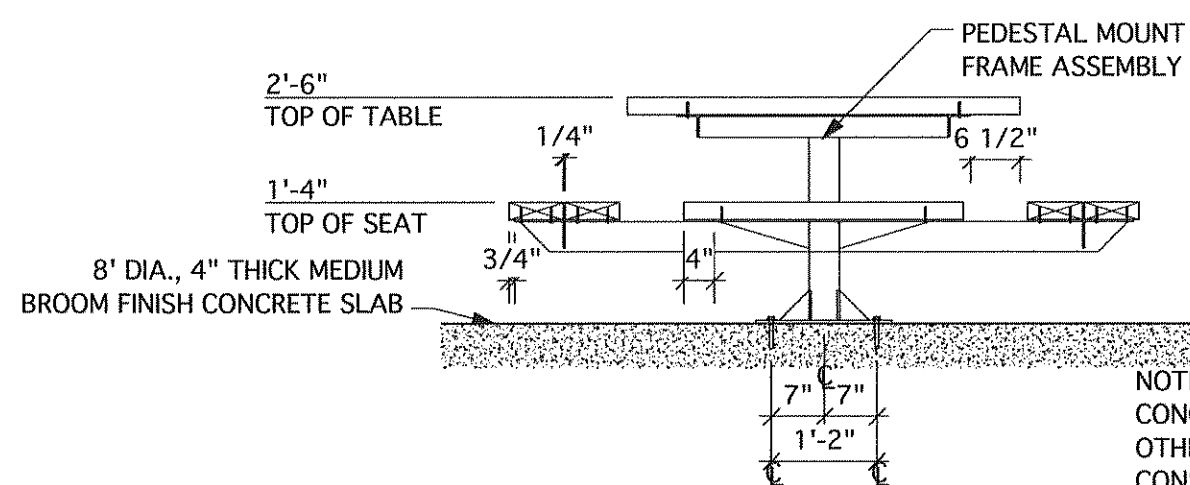


Trash Receptacle Mounting Detail
SCALE: NTS



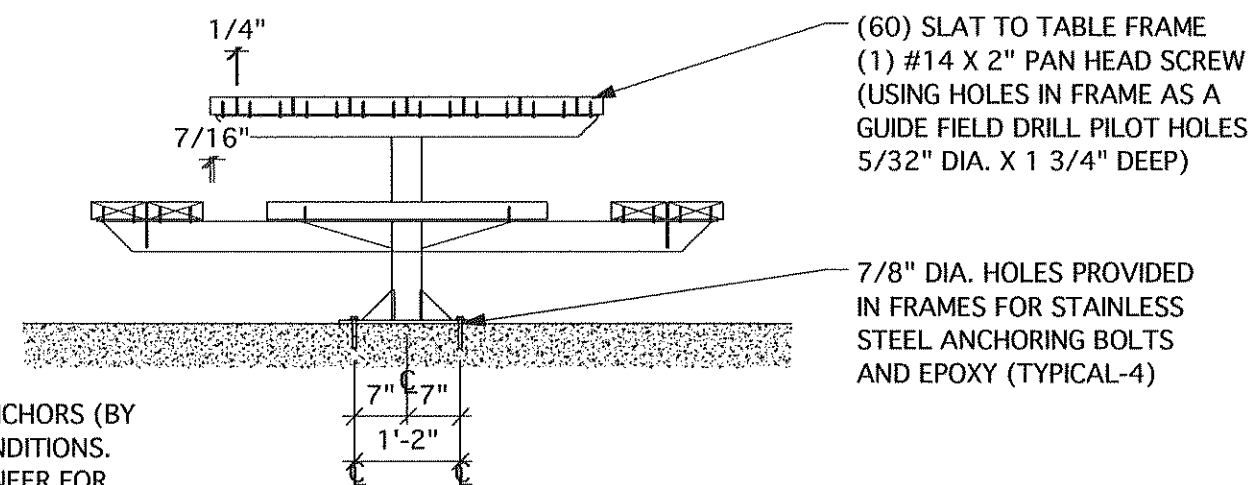
Picnic Table Plan View
Scale: NTS

- NOTE:
1. EACH SLAT MUST BE POSITIONED SO THAT THE BEST FACE IS EXPOSED WHEN ASSEMBLED.
2. MAINTAIN CONSISTENT SPACING WITH THE USE OF SHIMS, (BY OTHERS) IF NECESSARY.



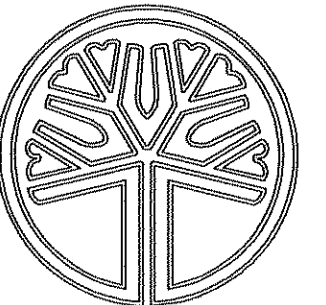
Picnic Table Front Elevation
Scale: NTS

Picnic Table Details
Scale: As Indicated



Picnic Table Side Elevation
Scale: NTS

Site Furnishing Details
Scale: As Indicated



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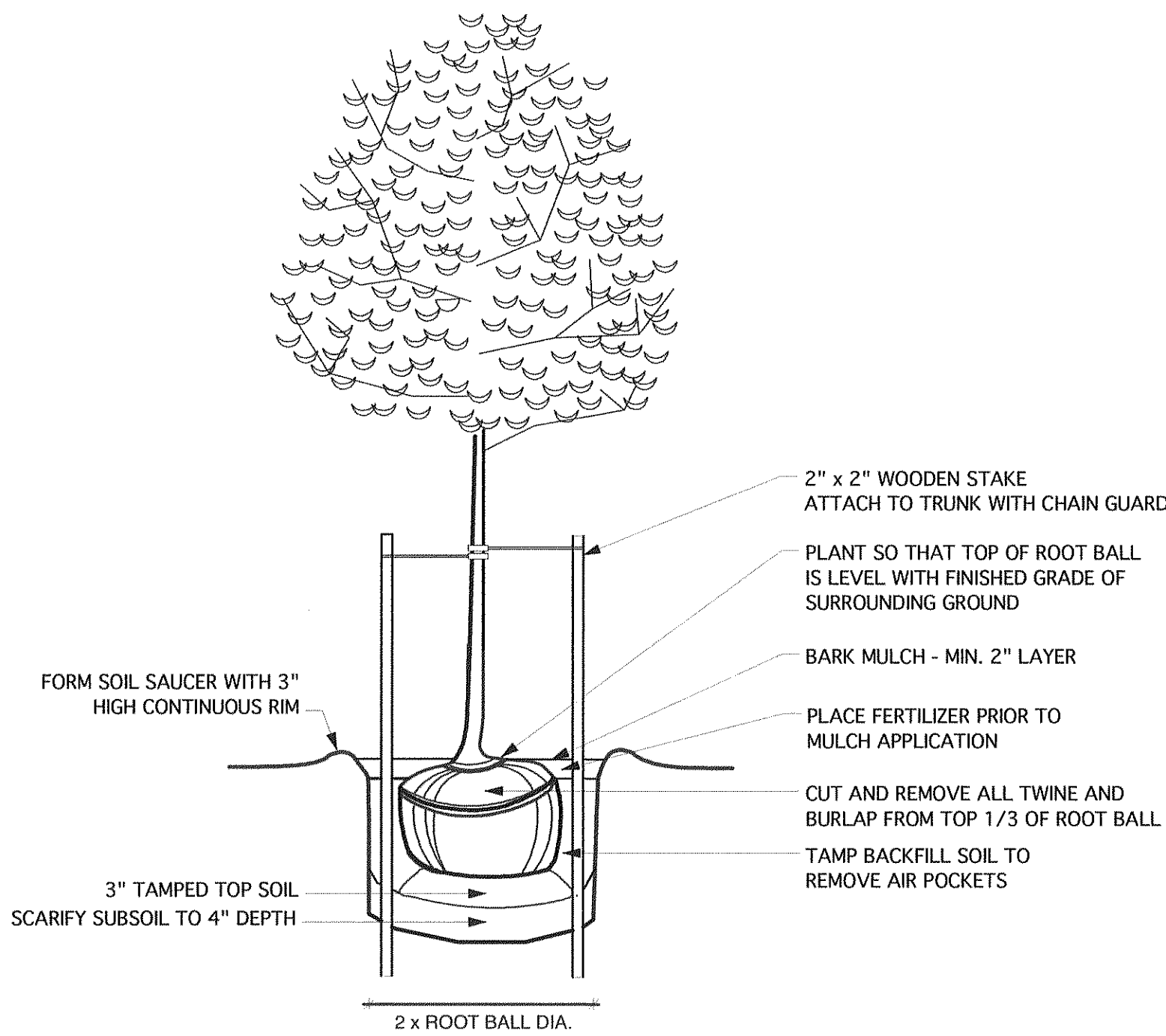
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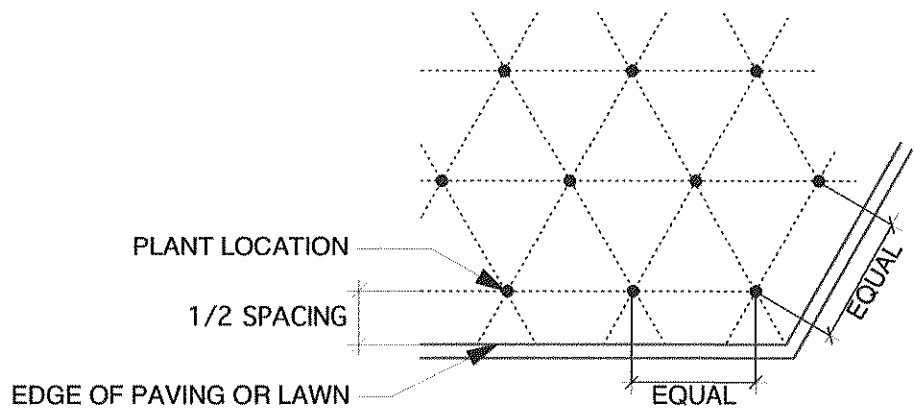
L-12

PLANT LIST			
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE & SPACING
TREES			
6	Acer circinatum	Vine Maple	1 1/2" caliper, multi-stem
5	Acer palmatum 'Beni Kawa'	Beni Kawa Japanese Maple	1 1/2" caliper
34	Thuja plicata 'Excelsa'	Excelsa Cedar	8-10' basket, 10' o.c.
37	Thuja occidentalis smaragd 'Emerald Green'	Emerald Green Arborvitae	5-6' B&B, 3' o.c.
3	Cedrus deodara	Deodar Cedar	8-10' basket
1	Picea jezoensis	Japanese Spruce	25' specimen
14	Crataegus viridis 'Winter King'	Winter King Hawthorn	1 1/2" caliper
8	Cornus kousa 'Satomi'	Pink Japanese Dogwood	1 1/2" caliper
4	Gleditsia triacanthos	Honey Locust	1 1/2" caliper
3	Fraxinus oxycarpa 'Raywood'	Raywood Ash	1 1/2" caliper, 15' o.c.
4	Prunus serrulata 'Kwanzan'	Kwanzan Flowering Cherry	1 1/2" caliper, 15' o.c.
1	Sequoiadendron giganteum	Giant Redwood	8-10' basket
SHRUBS			
86	Erica darleyensis 'Mediterranean White'	Mediterranean White Heather	1 gal. pot, 3' o.c.
87	Erica darleyensis 'Mediterranean Pink'	Mediterranean Pink Heather	1 gal. pot, 3' o.c.
87	Erica darleyensis 'Kramer's Red'	Kramer's Red Heather	1 gal. pot, 3' o.c.
77	Rosa woodsii	Wood's Rose	5 gal. pot, 4' o.c.
73	Pinus mugo pumilio	Dwarf Mugo Pine	24-30", 3' o.c.
33	Cornus sericea 'Kelsey'	Dwarf Dogwood	5 gal. pot
15	Mahonia aquifolium 'Compacta'	Compact Oregon Grape Holly	5 gal. pot, 3' o.c.
8	Symphoricarpos albus	Common Snowberry	5 gal. pot, 4' o.c.
3	Cotoneaster lacteus	Parney's Red Clusterberry	5 gal. pot, 8' o.c.
13	Rhododendron 'Taurus'	Taurus Rhododendron	5 gal. pot, 4' o.c.
6	Rhododendron 'Unique Marmalade'	'Unique Marmalade' Rhododendron	5 gal. pot, 4' o.c.
5	Rhododendron 'Lord Roberts'	Lord Roberts Rhododendron	5 gal. pot, 4' o.c.
8	Rhododendron 'Hallelujah'	Hallelujah Rhododendron	5 gal. pot, 4' o.c.
7	Rhododendron 'Pink Pearl'	Pink Pearl Rhododendron	5 gal. pot, 4' o.c.
3	Rhododendron 'Pink Walloper'	Pink Walloper Rhododendron	5 gal. pot, 6' o.c.
5	Rhododendron 'Anna Kruschke'	Anna Kruschke Rhododendron	5 gal. pot, 4' o.c.
15	Rhododendron 'Anna Rose Whitney'	Anna Rose Whitney Rhododendron	5 gal. pot, 4' o.c.
PERENNIALS & GROUNDCOVERS			
437	Gaultheria shallon	Salal	1 gal. pot, 3' o.c.
50	Vinca minor 'Atropurpurea'	Wine Periwinkle	1 gal. pot, 3' o.c.
19	Arctostaphylos uva-ursi 'Vancouver Jade'	Vancouver Jade Kinnikinnick	1 gal. pot for containers
19	Huechera x brizoides 'Firefly'	Firefly Coral Bells	1 gal. pot for containers
95	Hemerocallis 'Stella de Oro'	Stella de Oro Daylily	1 gal. pot, 2' o.c.
91	Coreopsis verticillata 'Zagreb'	Zagreb Threadleaf Coreopsis	1 gal. pot, 18" o.c.
30	Crocsmia 'Lucifer'	Lucifer Crocosmia	1 gal. pot, 18" o.c.
100	Scabiosa columbaria 'Butterfly Blue'	Butterfly Blue Pincushion Flower	1 gal. pot, 15" o.c.
17	Salvia 'May Night'	May Night Sage	1 gal. pot, 2' o.c.
13	Bergenia cordifolia	Heart Leaf Bergenia	1 gal. pot, 2' o.c.
FERN, GRASSES & EMERGENTS			
18	Polystichum munitum	Sword Fern	1 gal. pot, 3' o.c.
8	Calamagrostis x acutiflora 'Karl Foerster'	Foerster's Feather Reed Grass	1 gal. pot, 2' o.c.
23	Carex obnupta	Slough Sedge	1 gal. pot
24	Juncus effusus	Common Rush	1 gal. pot
120	Tiarella trifoliata	Foamflower	1 gal. pot, 2' o.c.
120	Aquilegia formosa	Western Columbine	1 gal. pot, 2' o.c.
120	Iris douglasiana	Pacific Coast Iris	1 gal. pot, 2' o.c.
5	Phygelius capensis	Cape Fuchsia	5 gal. pot, 3' o.c.
ANNUALS			
7 Flats	See Recommendation List on Sheet L-11	Seasonal Color Annuals	Use 1/3 flat of 4" pots per container

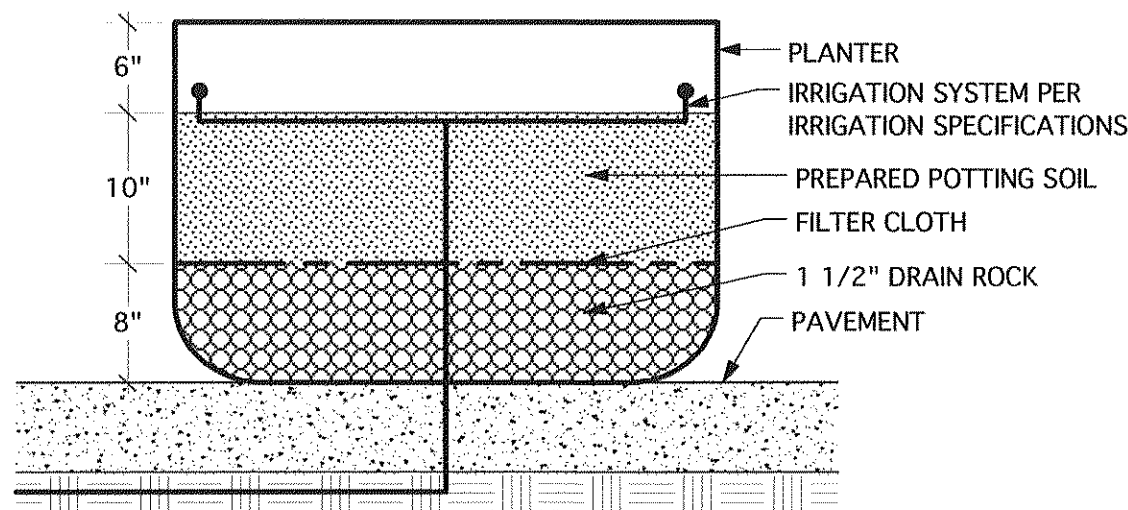
RECOMMENDED ANNUALS FOR SEASONAL COLOR	
COOL SEASON:	WARM SEASON:
FLOWERING KALE	COCKSCOMB (CELOSIA)
FLOWERING CABBAGE	COSMOS
CORNFLOWER (CENTAUREA CYANUS)	GERANIUM
PRIMROSE (PRIMULA)	IMPATIENS
PANSY (VIOLA)	LOBELIA
DIANTHUS	SWEET ALYSSUM (LOBULARIA MARITIMA)
CHRYSANTHEMUM	NICOTIANA
FORGET-ME-NOT (MYOSOTIS SYLVATICA)	PETUNIA
CANDYTUFT (IBERIS UMBELLATA)	ANNUAL PHLOX (PHLOX DRUMMONDII)
CANTERBURY BELL (CAMPANULA MEDIUM)	PAINTED TONGUE (SALPIGLOSSIS SINUATA)
POT MARIGOLD (CALENDULA OFFICINALIS)	SAGE (SALVIA)
	MARIGOLD (TAGETES)
	NASTURTIUM (TROPAEOLUM MAJUS)
	DAHLIA
	ZINNIA



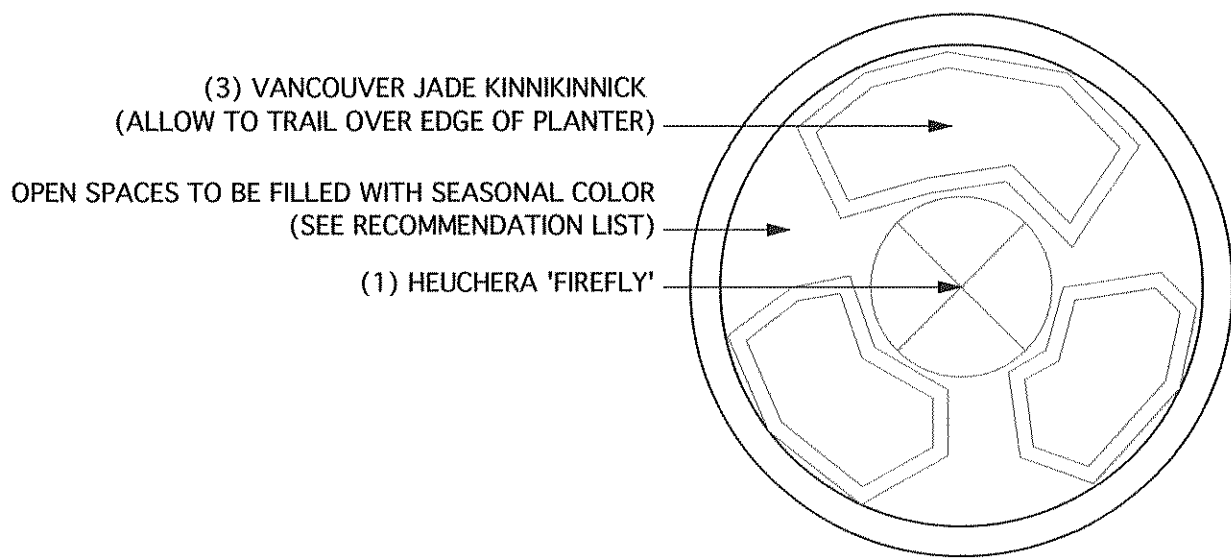
DECIDUOUS TREE PLANTING DETAIL
NTS



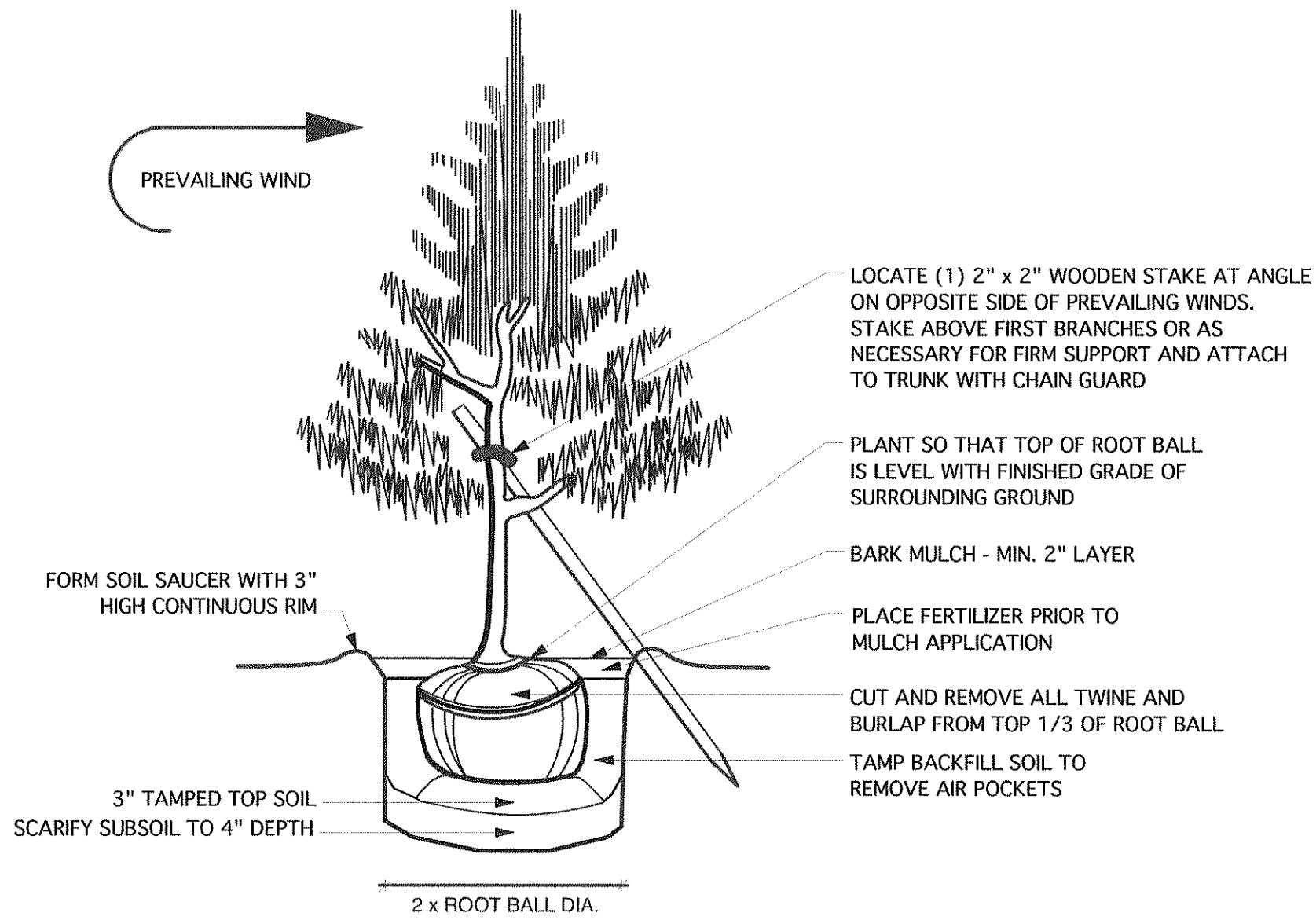
TRIANGULAR SPACING DETAIL
NTS



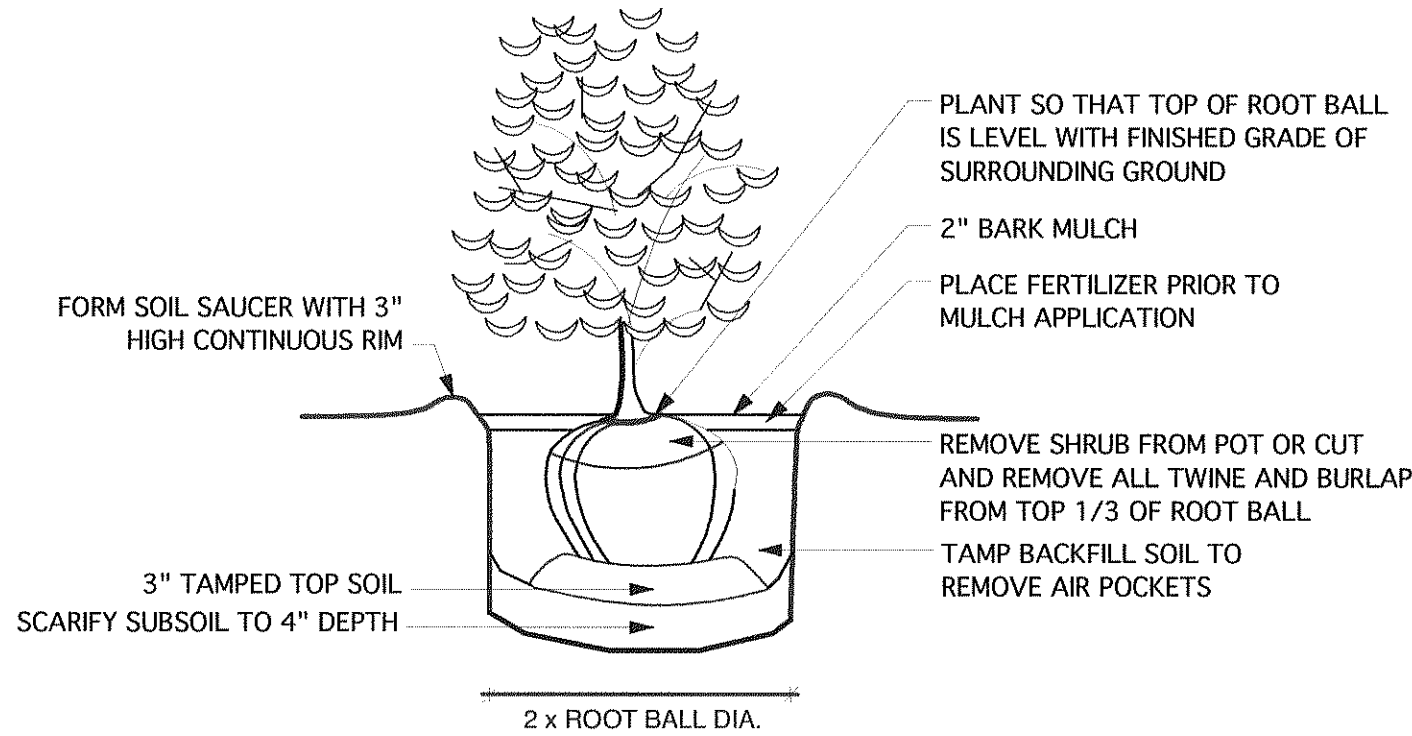
Planter Installation Detail
Scale: 1" = 1'-0"



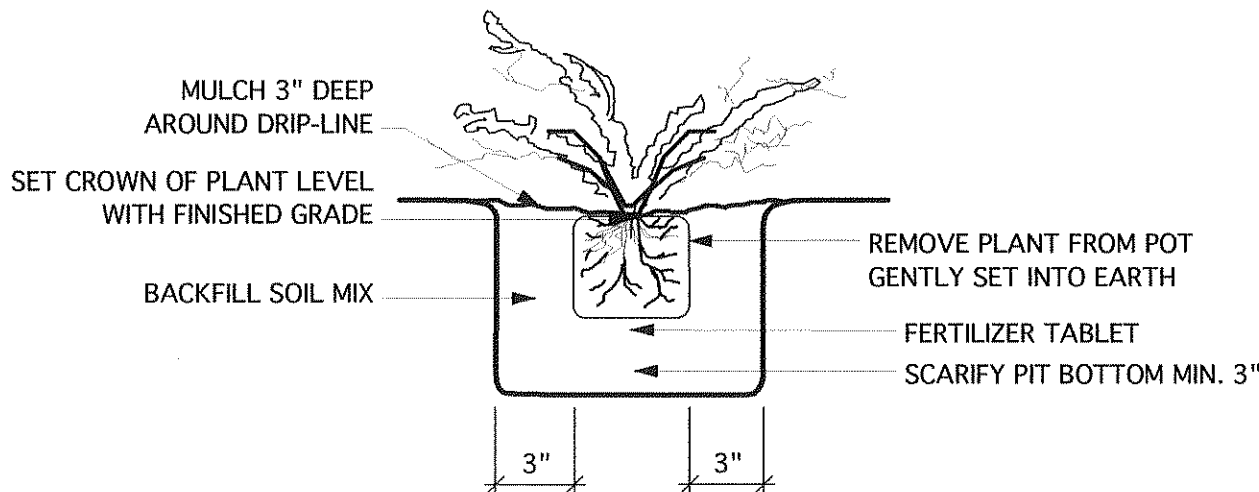
Planter Detail (Typical)
Scale: 1" = 1'-0"



EVERGREEN TREE PLANTING DETAIL
NTS



SHRUB PLANTING DETAIL
NTS



GROUND COVER PLANTING DETAIL
NTS

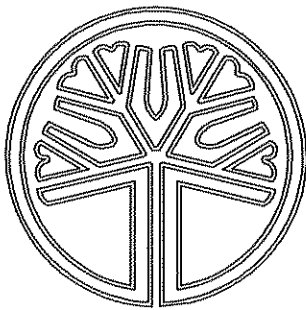
NOTE FOR CONTRACTORS:

ALL PLANT MATERIAL MUST CONFORM TO A.N.L.A. (AMERICAN NURSERY AND LANDSCAPE ASSOCIATION) STANDARDS FOR BOTH PLANT SIZE AND FORM. ALL QUANTITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION & ANY/ALL DISCREPANCIES BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE AUTHORIZATION OF THE LANDSCAPE ARCHITECT.

ALL LAWN AREAS WILL RECEIVE 4"-6" PREPARED TOP-SOIL MIX (IN ADDITION TO REQUIRED SOILS SPECIFIED IN PLANTING DETAILS). ALL PLANTING BEDS WILL RECEIVE 8" OF TOPSOIL.

ALL PLANTING BEDS WILL RECEIVE A MINIMUM OF 4" OF MEDIUM BARK MULCH.

Plant List & Details
Scale: As Indicated



STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

PAUL M. GEORGE
CERTIFICATE NO. 641



Cascade Design Group

P.O. Box 5938
Bellingham, WA 98227
360-715-2119

cgroup@cascaadedesigngroup.net

Paul George
Landscape Architect

Centennial Riverwalk
Ferndale, WA

REVISIONS

May 1, 2007

DATE: March 9, 2007

Recessed Low Voltage Light - 50W

1/2" Sch 40 PVC Conduit

Hi-Tech Fountain Components #HNSJ-2000 Nozzle

24"x24" Concrete Pipe with 8" penetration and sealed bottom
with CI Grate

Carlton 6"x6"x4" PVC Junction Box

8" Sch 40 PVC

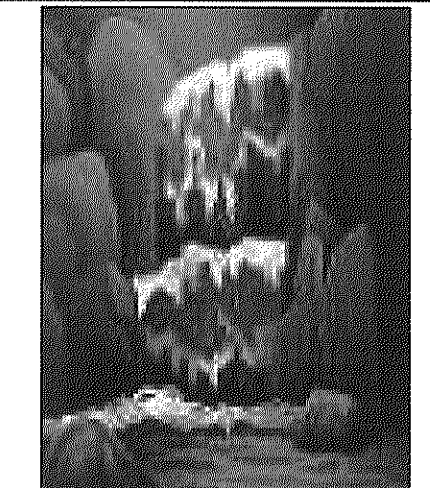
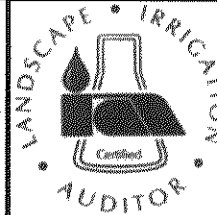
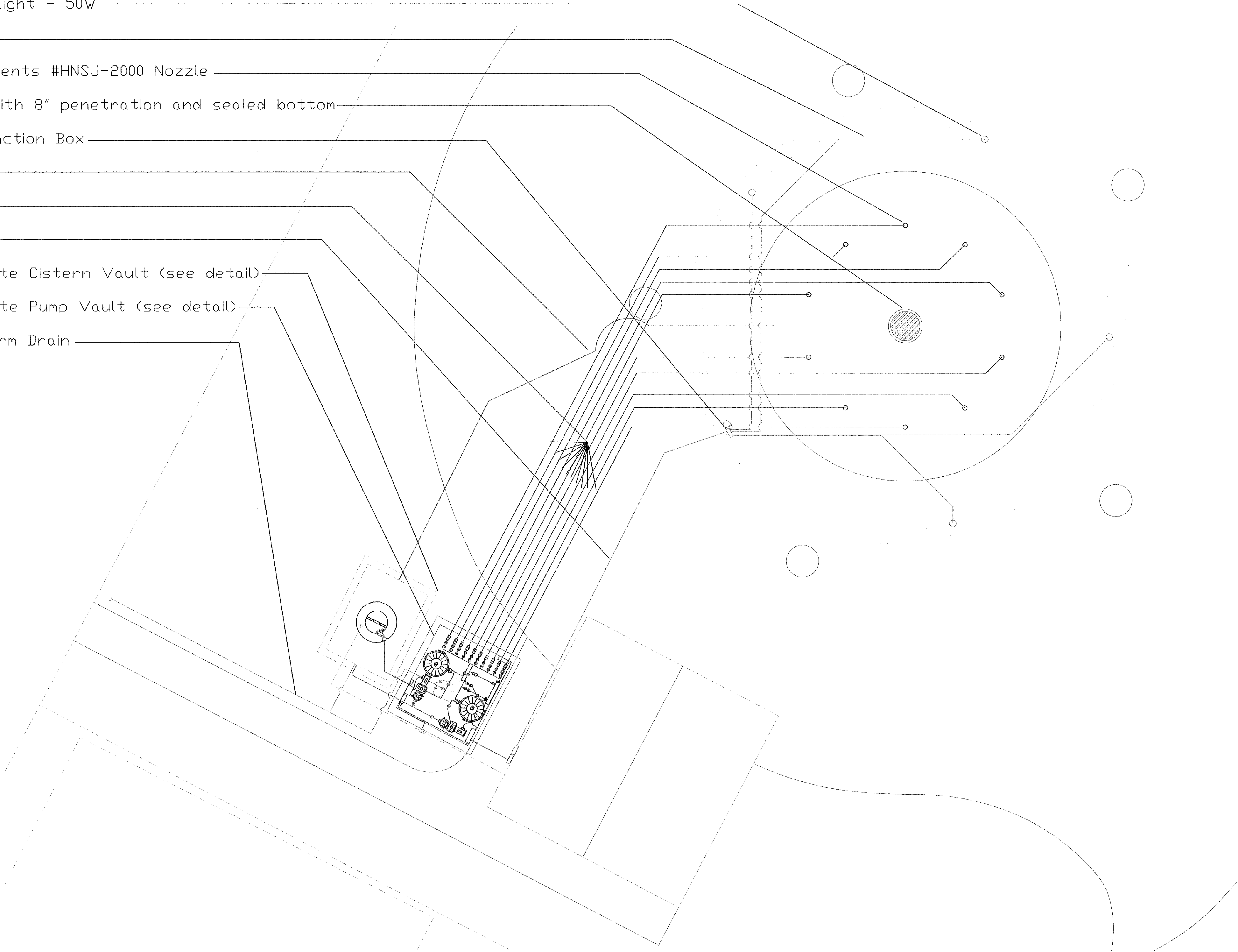
2" Sch 40 PVC

1" Sch 40 PVC Conduit

5'x5'x7' Precast Concrete Cistern Vault (see detail)

7'x7'x6' Precast Concrete Pump Vault (see detail)

3" D&S PVC Pipe to Storm Drain



Gresham
Design

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CLIENT:

City of Ferndale

PROJECT:

Riverwalk Park-
Fountain Layout

Sheet Title:

Fountain Layout

Sheet Number:

FL-01

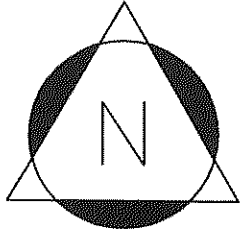
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03-07

Issue:

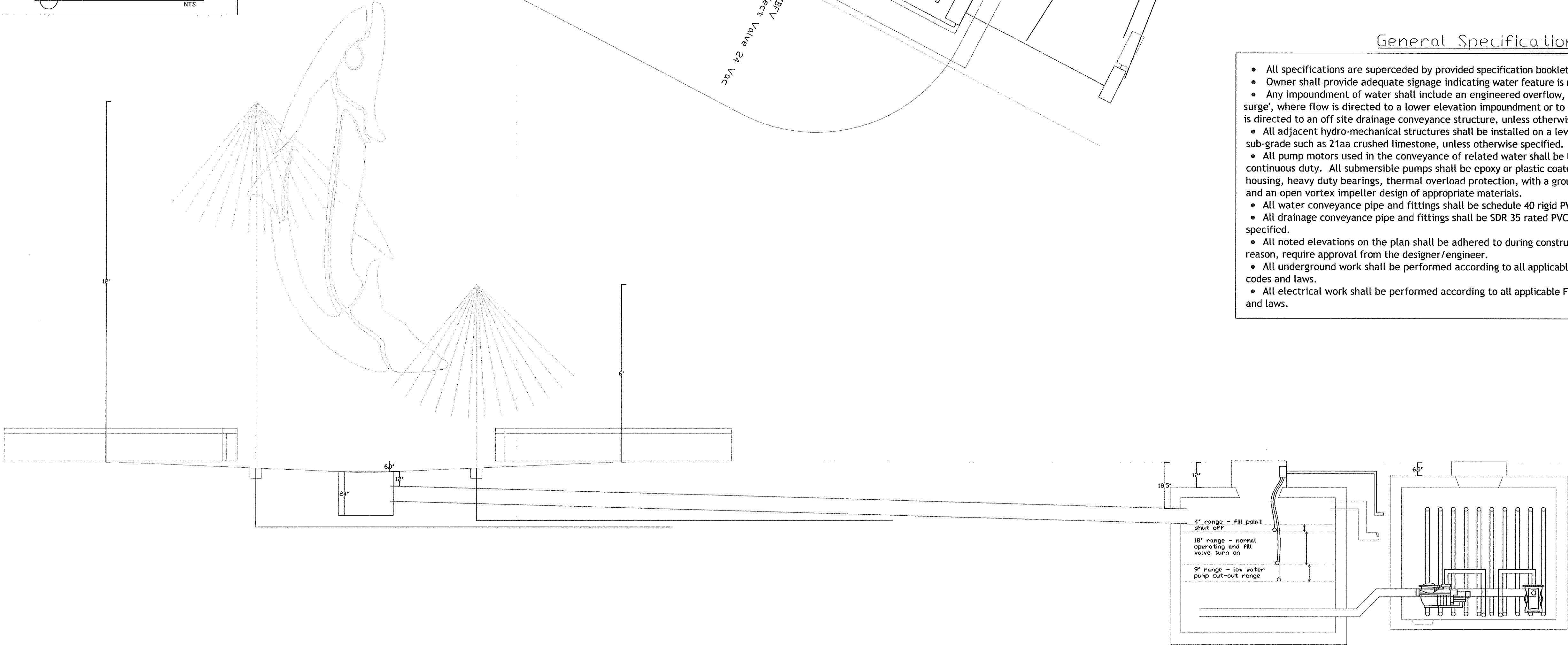
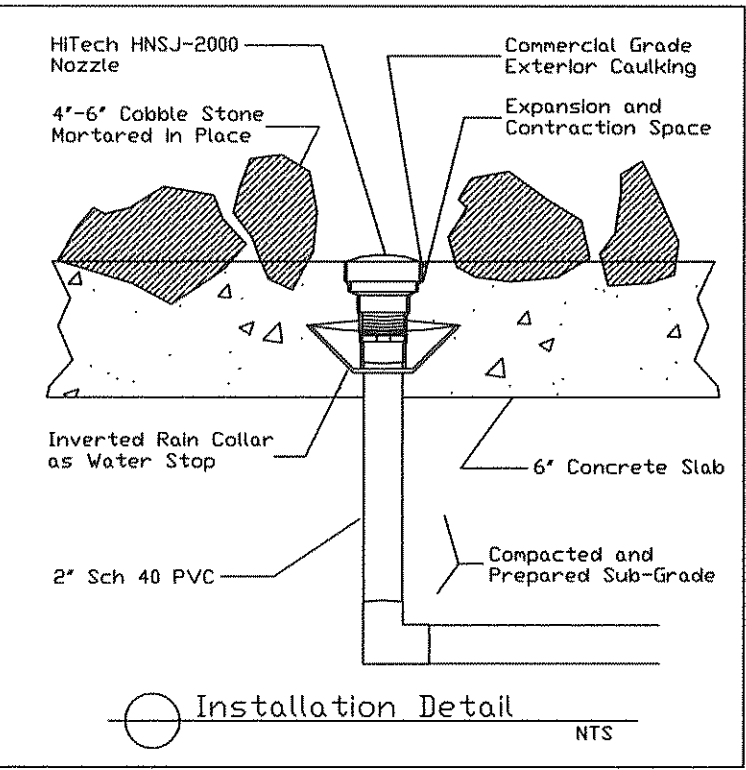
Prelim Submittal

Design and Drawing:
BLG



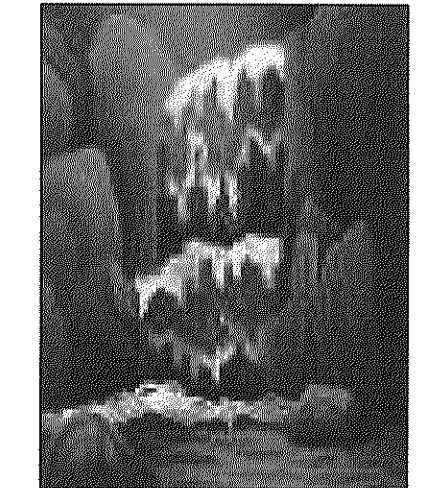
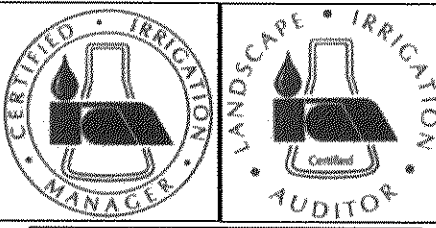
8" Sch 40 PVC
5'x7'x6' Precast Concrete Cistern Vault
7'x7'x6' Precast Concrete Pump Vault
24" Manhole Access Opening
Low Voltage Float Level Switches
1" Sch 40 PVC Fill Line Inflow
4" Sch 40 PVC
3" Sch 40 PVC Overflow Outflow
2" Butterfly Valve, Gate Valve, and Flapper Check Valve
UltraViolet Sterilizer Unit Power
Aqua 57 Watt UV Sterilizer w/ wiper
Hayward 3025 Swim Clear Cartridge Filter
Hayward Northstar 1.5 Hp Pump
115 Vac Outdoor Approved GFI Receptacle
230 Vac Pump Timer
1" Sch 40 PVC Conduit
300 Watt Low Voltage Lighting Transformer
230 Vac and 115 Vac Power Source-by others

Nozzle Installation Detail



General Specifications

- All specifications are superceded by provided specification booklet.
- Owner shall provide adequate signage indicating water feature is not interactive, KEEP OUT.
- Any impoundment of water shall include an engineered overflow, capable of handling 'shut off surge', where flow is directed to a lower elevation impoundment or to a piping structure where flow is directed to an off site drainage conveyance structure, unless otherwise specified.
- All adjacent hydro-mechanical structures shall be installed on a level, compacted, prepared sub-grade such as 21aa crushed limestone, unless otherwise specified.
- All pump motors used in the conveyance of related water shall be UL and CSA listed and rated as continuous duty. All submersible pumps shall be epoxy or plastic coated, with a sealed motor housing, heavy duty bearings, thermal overload protection, with a ground fault protected source, and an open vortex impeller design of appropriate materials.
- All water conveyance pipe and fittings shall be schedule 40 rigid PVC unless otherwise specified.
- All drainage conveyance pipe and fittings shall be SDR 35 rated PVC materials unless otherwise specified.
- All noted elevations on the plan shall be adhered to during construction. Any deviations, for any reason, require approval from the designer/engineer.
- All underground work shall be performed according to all applicable Federal, State, and Local codes and laws.
- All electrical work shall be performed according to all applicable Federal, State, and Local codes and laws.



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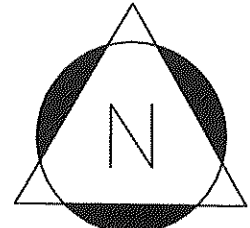
CITY OF FERNDALE
PROJECT: Riverwalk Park - Fountain Detail

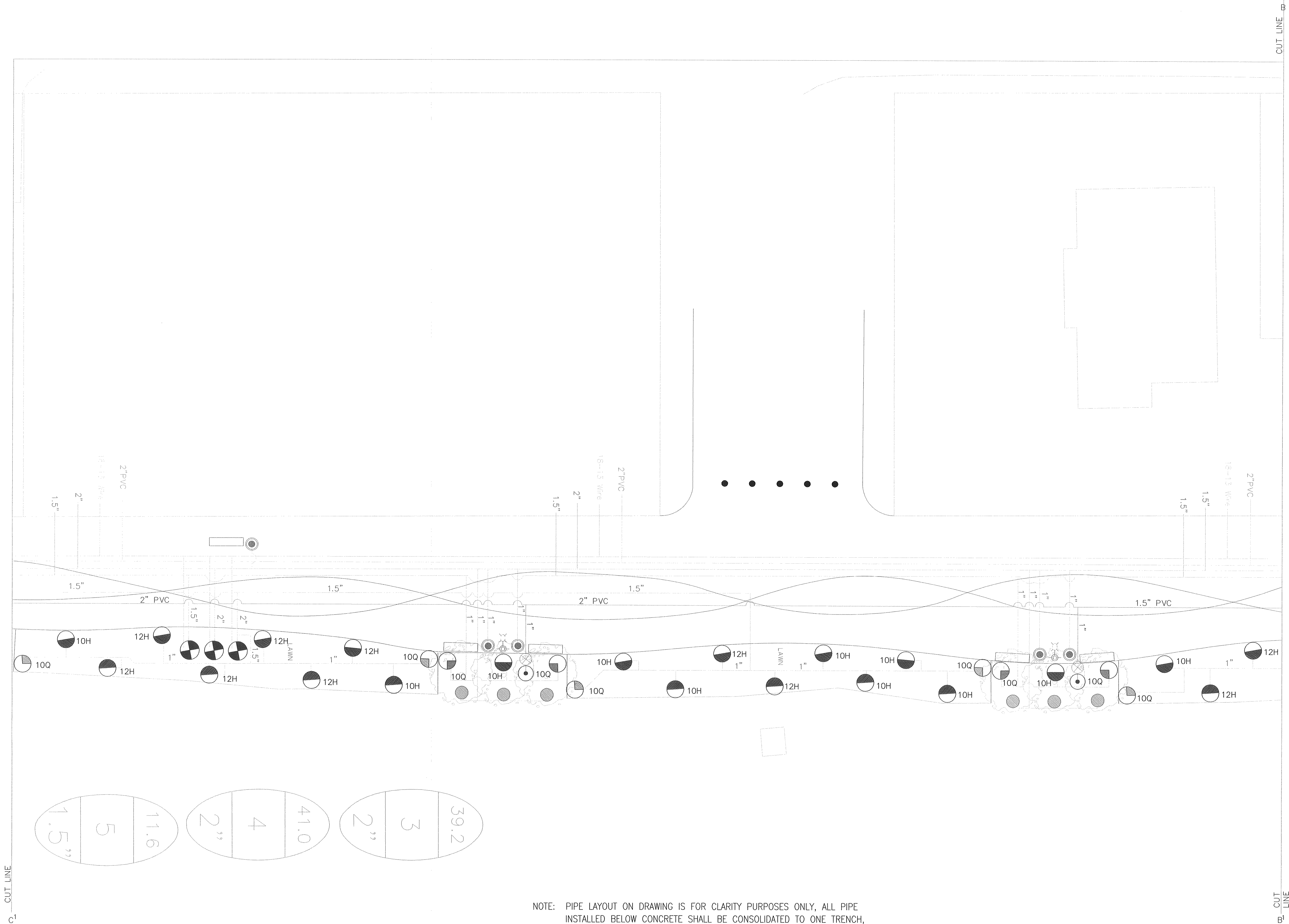
Sheet Title:
Fountain Detail

Sheet Number:
FD-01

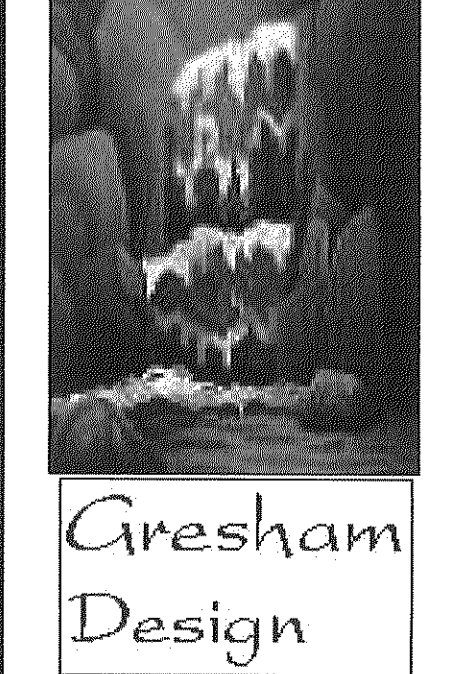
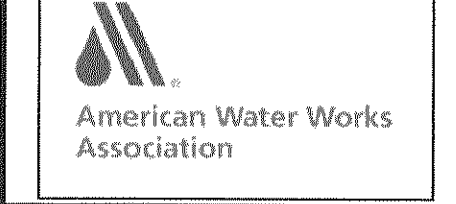
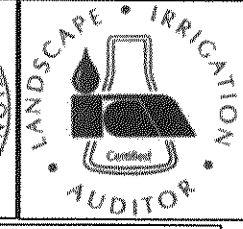
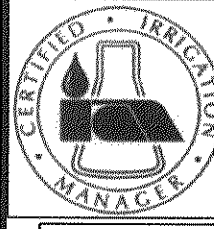
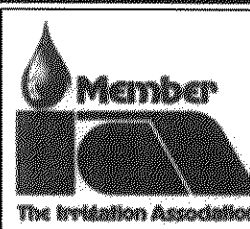
Date: 03-07 Issue: Prelim Submittal

Design and Drawing:
BLG





NOTE: PIPE LAYOUT ON DRAWING IS FOR CLARITY PURPOSES ONLY, ALL PIPE
INSTALLED BELOW CONCRETE SHALL BE CONSOLIDATED TO ONE TRENCH,
TRENCH DIMENSIONS SHALL NOT EXCEED 24" WIDTH X 36" DEPTH



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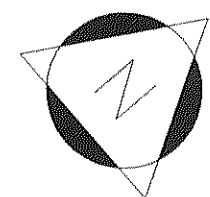
CLIENT: City of Ferndale
Whatcom County, WA
PROJECT: Centennial Riverwalk Park

Sheet Title:
Irrigation Layout

Sheet Number:
1 - 2

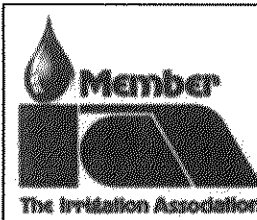
Date:	Issue:
03-07	Preliminary
	Submittal

Design and Drawing:
BLG

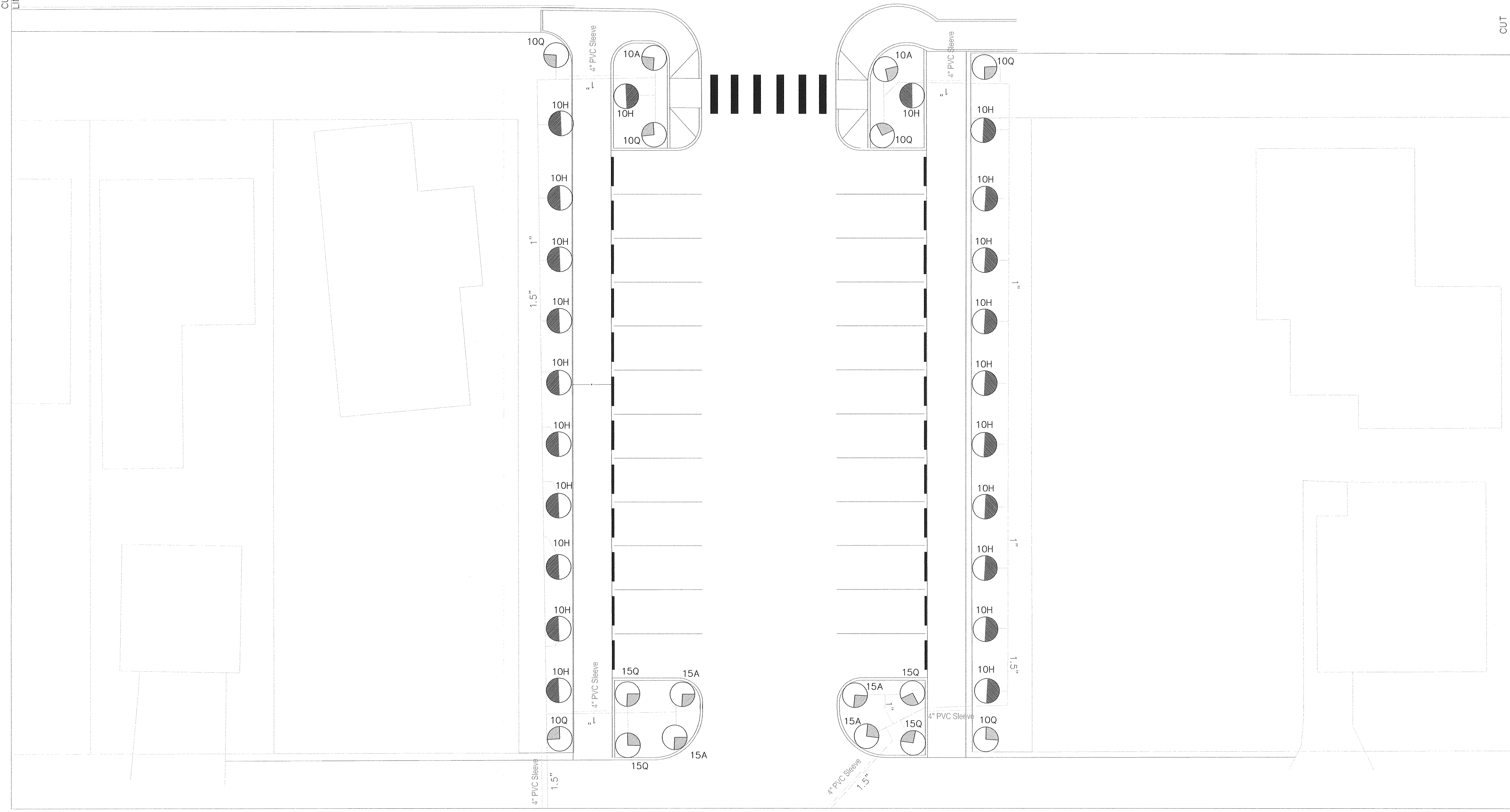




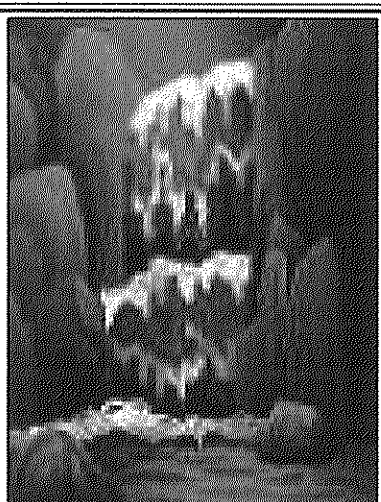
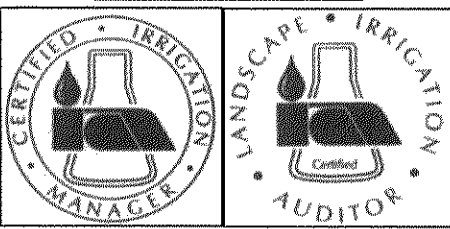
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CUT
LINE



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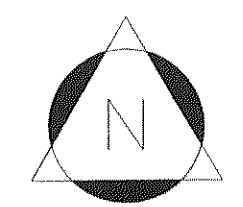
CLIENT: City of Ferndale
Whatcom County, WA
PROJECT: Centennial Riverwalk Park

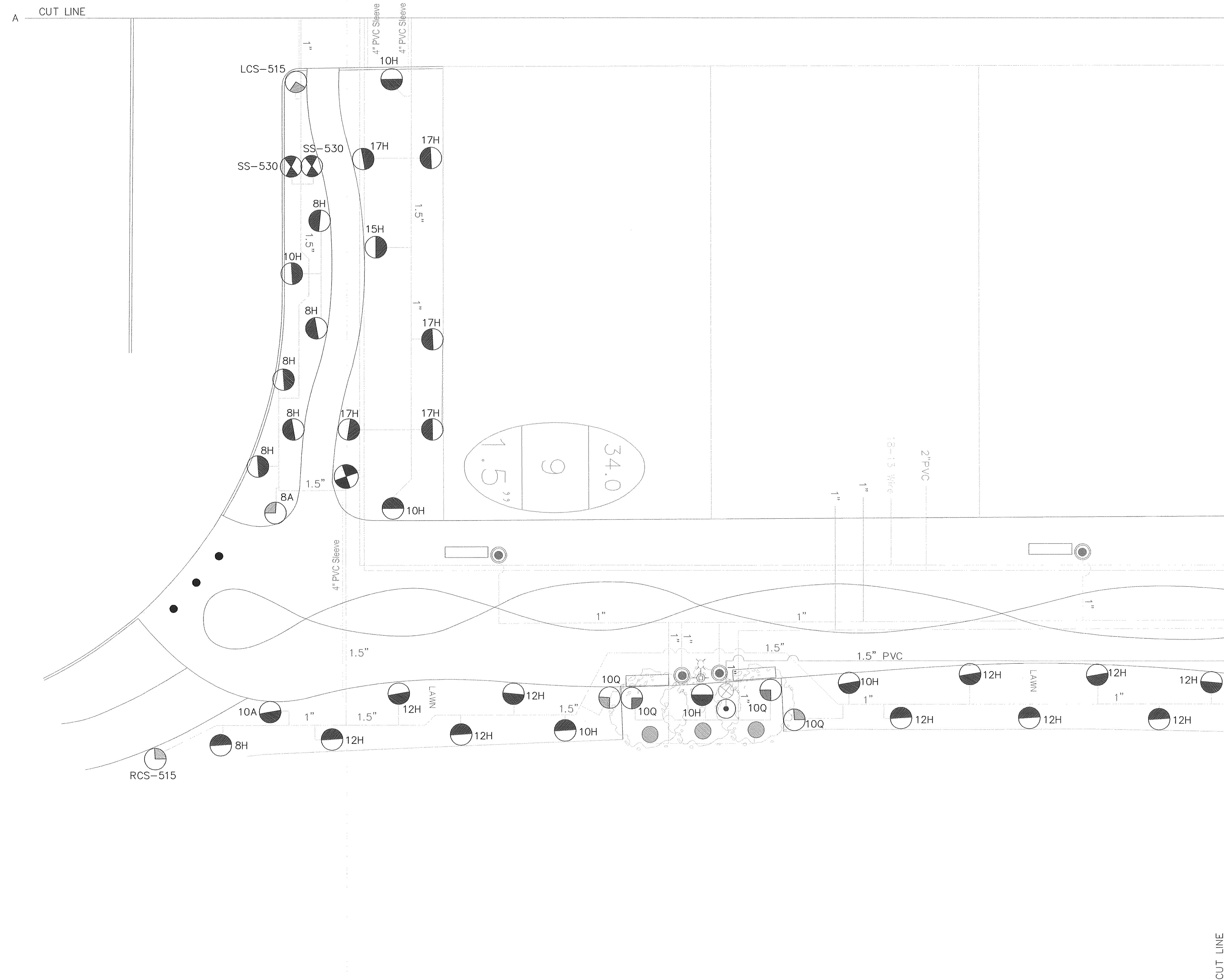
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Irrigation Layout

Sheet Number:
I - 4

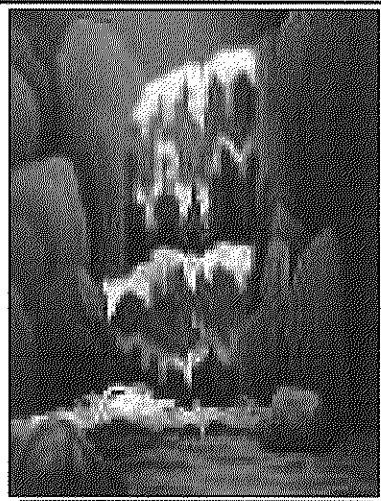
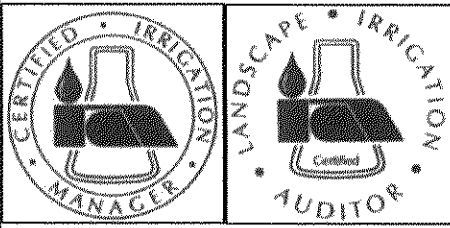
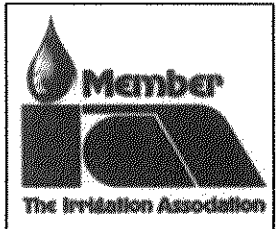
Date: 03-07 Issue: Preliminary
Submittal

Design and Drawing:
BLG





NOTE: PIPE LAYOUT ON DRAWING IS FOR CLARITY PURPOSES ONLY, ALL PIPE
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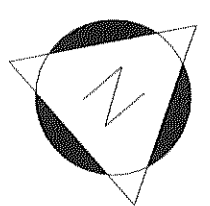
CLIENT: City of Ferndale
Whatcom County, WA
PROJECT: Centennial Riverwalk Park

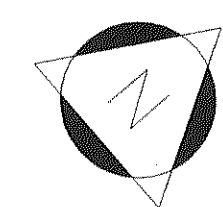
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Sheet Number:
I - 5

Date:	Issue:
03-07	Preliminary
	Submittal

Design and Drawing:
BLG







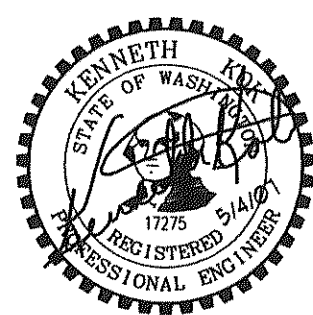


NOTES (APPLICABLE TO ALL ELECTRICAL DRAWINGS)

1. ALL WIRING SHALL BE ENCLOSED WITHIN THE RACEWAY SYSTEM. CONDUIT FILL SHALL NOT EXCEED 40%.
2. BELOW GRADE CONDUIT SHALL BE SCHEDULE 40 PVC, DIRECT BURIED A MINIMUM OF 24" BELOW GRADE. BELOW GRADE BENDS SHALL BE DONE WITH GALVANIZED RIGID STEEL.
3. BELOW GRADE STEEL CONDUITS SHALL BE WRAPPED WITH TAPE OR COATED WITH A SUITABLE ASPHALT (OR EQUIVALENT) COMPOUND FOR CORROSION PROTECTION.
4. EXTERIOR ABOVE GRADE CONDUIT SHALL BE GALVANIZED RIGID STEEL, EXCEPT NON-SERVICE CONDUIT WITHIN ELECTRICAL ENCLOSURES MAY BE EMT.
5. SERVICE & BELOW GRADE FEEDER CABLE SHALL BE 1/2" STRANDED COPPER WITH 600V TYPE USE/RHW/RH INSULATION.
6. CONTROL & BRANCH CIRCUIT CABLES, EQUIPMENT GROUND CABLES & ABOVE GRADE FEEDER CABLES SHALL BE 1/2" COPPER WITH 600V TYPE USE/RHW/RH, XHHW OR THHN/THWN INSULATION.
7. IN ADDITION TO THE CIRCUIT CONDUCTORS INDICATED, CONTRACTOR SHALL PROVIDE AN EQUIPMENT GROUND CABLE (SIZED THE SAME AS THE LARGEST CIRCUIT CONDUCTOR UNLESS SPECIFICALLY NOTED OTHERWISE WITHIN EACH RACEWAY) WITH THE CIRCUIT CONDUCTORS.
8. VERIFY ALL EQUIPMENT, DEVICE, ETC. LOCATIONS WITH THE OWNER & ENGINEER PRIOR TO ROUGH-IN.
9. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, PROTECT EXISTING UTILITIES AS REQUIRED, AND REPAIR ANY DAMAGE TO EXISTING UTILITIES (KNOWN OR UNKNOWN, LOCATED OR NOT LOCATED) RESULTING FROM CONTRACTOR'S OPERATIONS WITHOUT INCREASE IN CONTRACT SUM.

ELECTRICAL LEGEND

-  DOUBLE DUPLEX OUTLET, WEATHERPROOF, GROUND FAULT INTERRUPTING.
-  HANDHOLE
-  POWER OUTLET CENTER, POST MTD.
-  BELOW GRADE CONDUIT



EXPIRES 2/23/08

KENNETH KOK, P.E.
ELECTRICAL ENGINEER
208 Third Street
Lynden, WA 98264
Bus. (360) 354-4757
FAX (360) 354-6794

DESIGNED BY
KK
DRAWN BY
KL
CHECKED BY



REICHHARDT & EBE
ENGINEERING, INC.
CONSULTING ENGINEERS
PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687
Lynden, Washington 98264 Fax (360) 354-0407

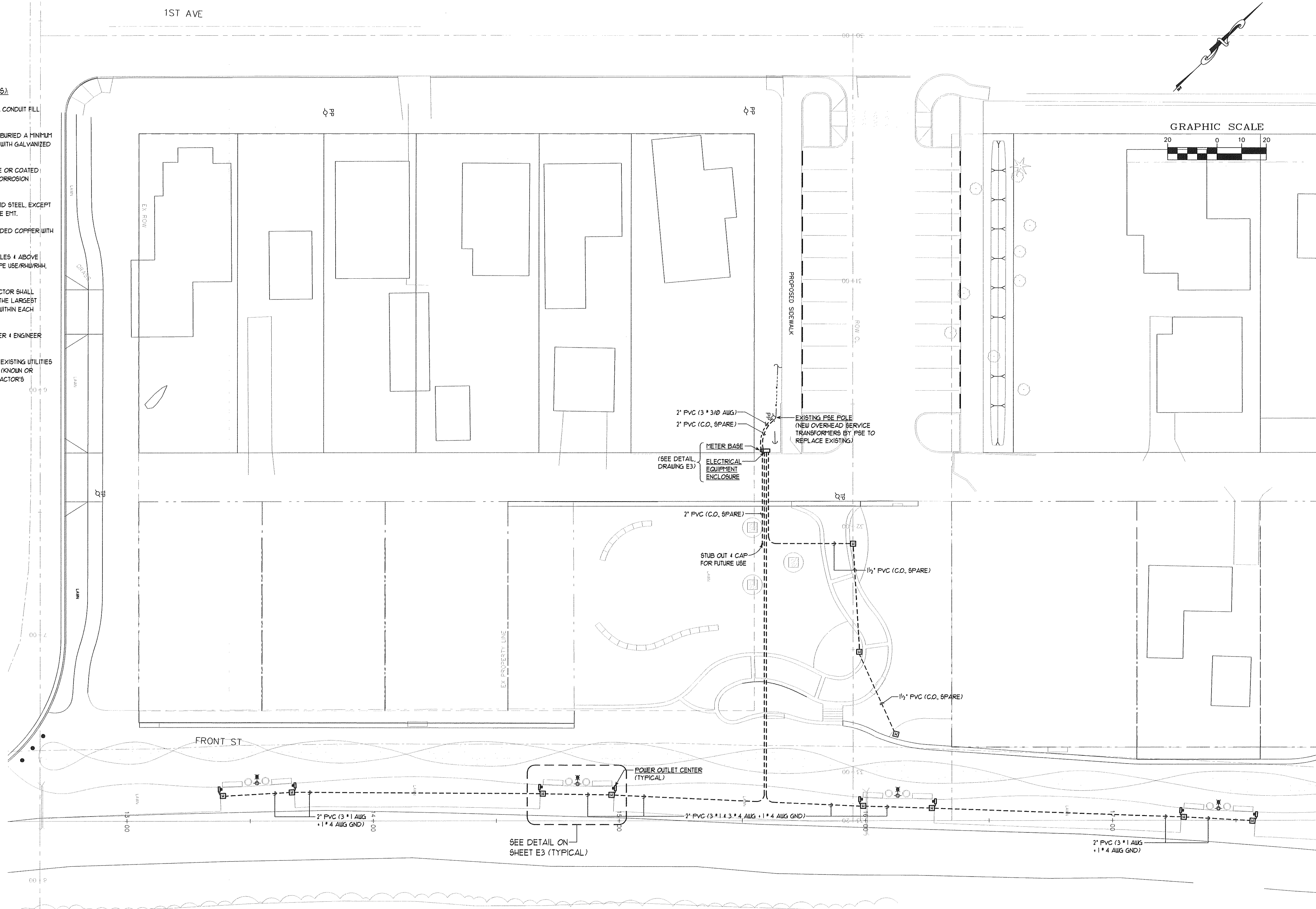
NO.	DATE	REVISION	BY

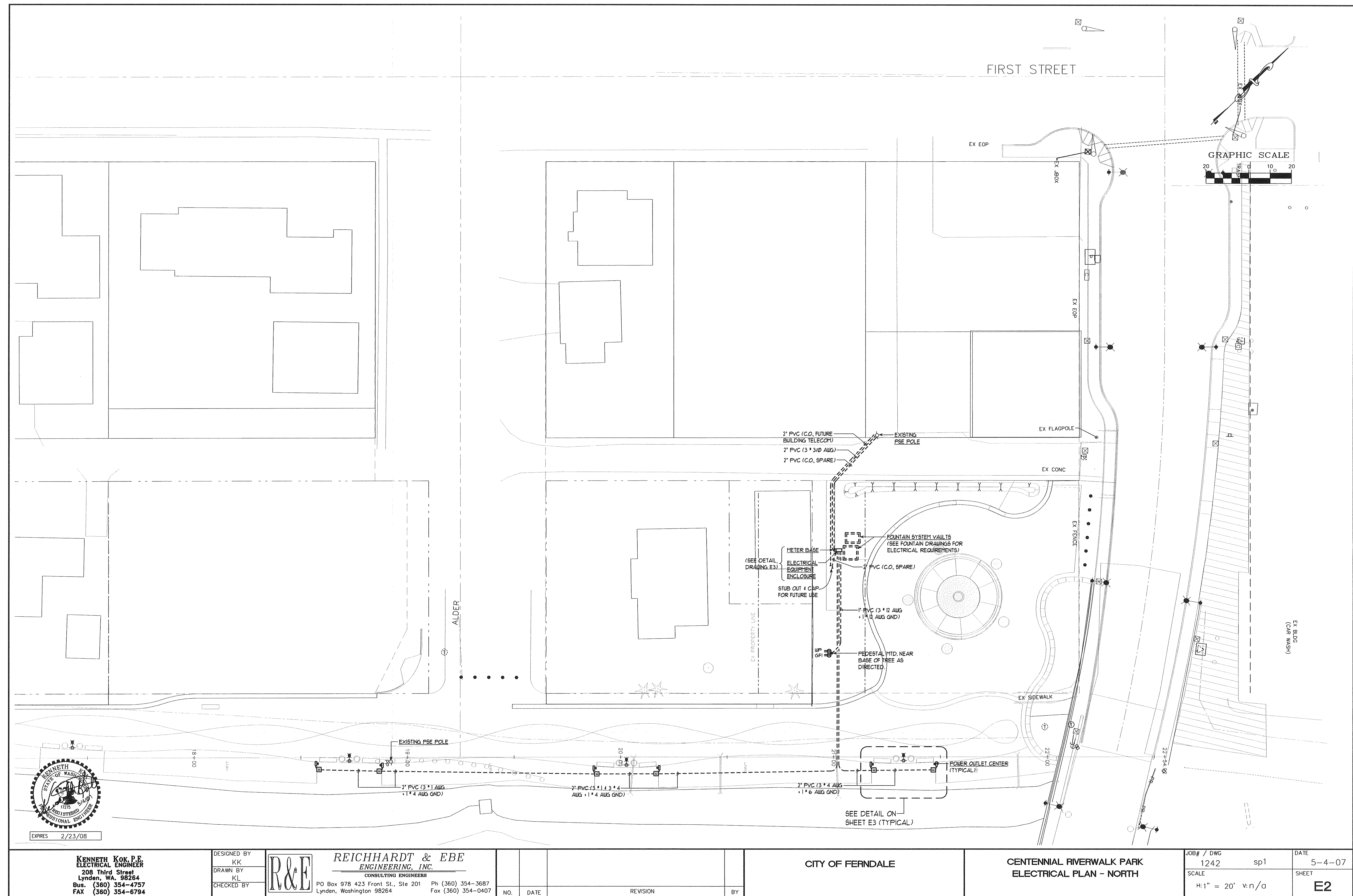
CITY OF FERDALE

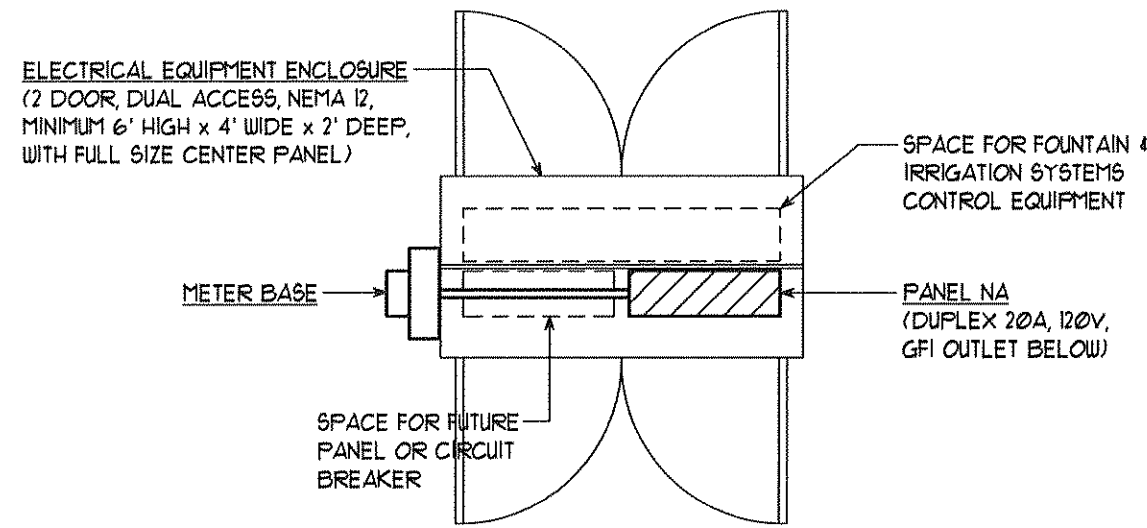
CENTENNIAL RIVERWALK PARK
ELECTRICAL PLAN - SOUTH

JOB# / DWG
1242 sp1
SCALE
H: 1" = 20' v: n/a

DATE
5-4-07
SHEET
E1

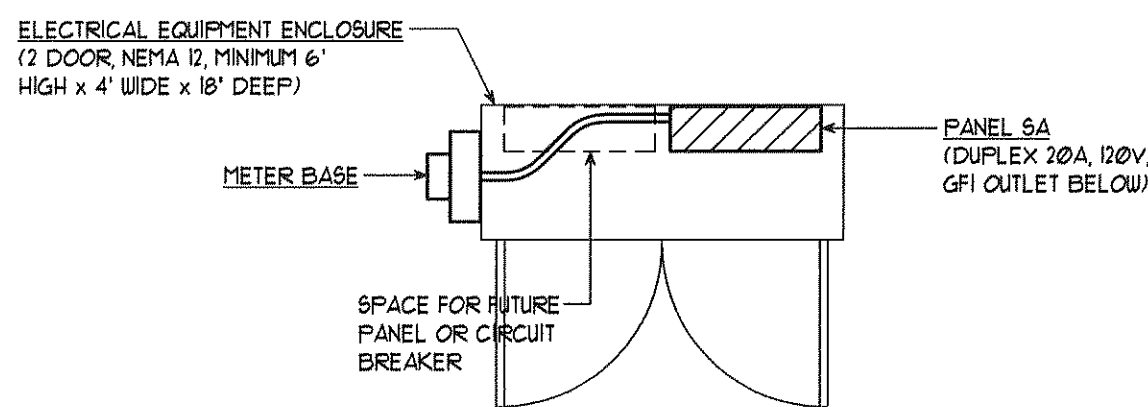






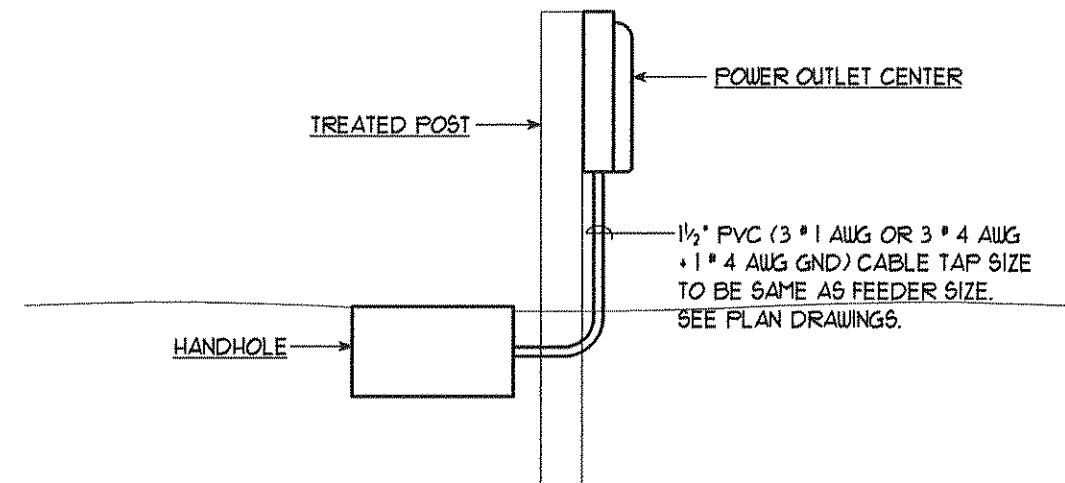
DETAIL - NORTH ELECTRICAL EQUIPMENT ENCLOSURE

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



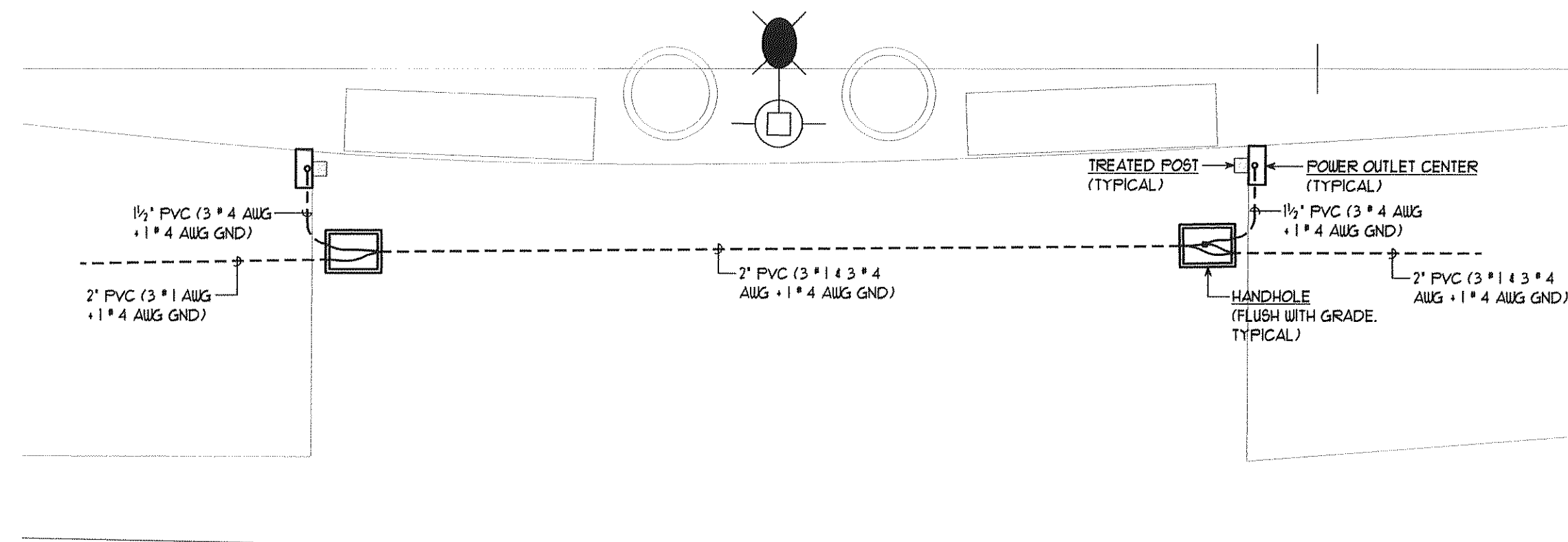
DETAIL - SOUTH ELECTRICAL EQUIPMENT ENCLOSURE

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



DETAIL - TYPICAL POWER OUTLET CENTER

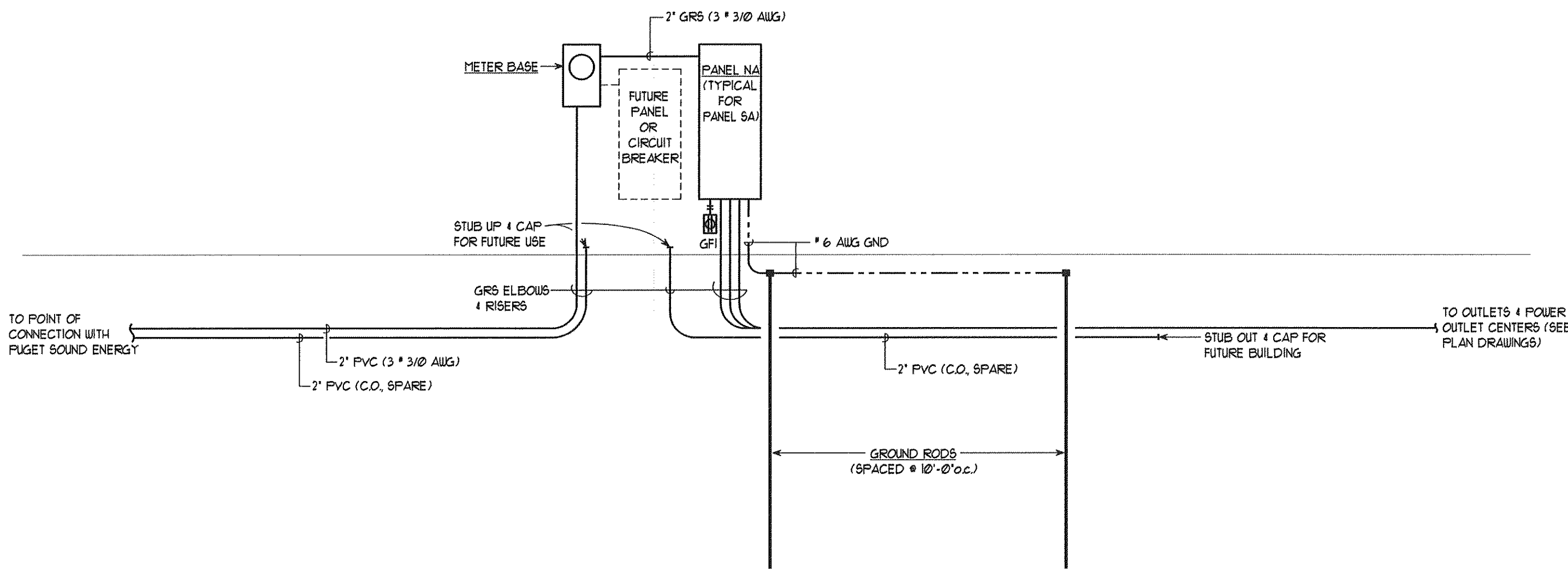
SCALE: 1/2" = 1'-0"



NOTE: CABLE TAPS FROM HANDHOLES UP TO POWER OUTLET CENTERS SHALL BE THE SAME SIZE AS THEIR FEEDER. SEE PLAN.

DETAIL - TYPICAL PLANTING BED

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

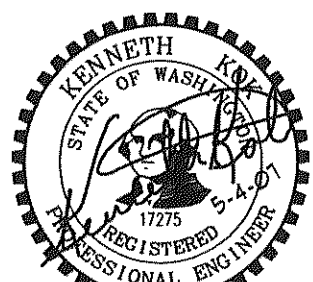


POWER SYSTEM RISER DIAGRAM TYPICAL FOR NORTH & SOUTH SERVICES

NO SCALE

SOUTH PANEL SA									
VOLTAGE:	120/240V, 1 PH, 3 W	FEEDER/BRANCH CIRCUIT DEVICES:	BOLT-ON CIRCUIT BREAKERS		ELECTRICAL LOAD CALCULATION		CONN. LOAD (VA)		DEMAND
TYPE:	PANELBOARD	FULL AIC RATING:	10,000 A		Lighting	EXIST.	NEW	TOTAL	FACTOR
ENCLOSURE:	NEMA 1	SERIES AIC RATING:	22,000 A		Gen. Purpose Outlets (First 10 kVA)	0.0	0.0	0.0	1.25
MOUNTING:	SURFACE				Gen. Purpose Outlets (Remainder)	0.0	180.0	180.0	1.00
BUSSING:	MANUFACTURER'S STANDARD	SPECIAL PROVISIONS:	MASTER NAMEPLATE		Special Purpose Outlets	0.0	0.0	0.0	0.50
CONTINUOUS RATING:	225 A	GROUND BAR	SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT		Mechanical Equipment	0.0	0.0	0.0	1.00
FULL AIC RATING:	22,000 A				Kitchen Equipment & Appliances	0.0	0.0	0.0	1.00
SERIES AIC RATING:	NONE				Miscellaneous	0.0	0.0	0.0	1.00
LOCATION:	TOP				25% Largest Motor	0.0	0.0	0.0	0.0
MAIN:	CIRCUIT BREAKER				TOTAL LOAD	0.0	38580.0	38580.0	38580.0
CONTINUOUS RATING:	200 A				TOTAL AMPS	0.0	160.8	160.8	160.8
FULL AIC RATING:	22,000 A								
SERIES AIC RATING:	NONE								
LOCATION:	TOP								

NORTH PANEL NA									
VOLTAGE:	120/240V, 1 PH, 3 W	FEEDER/BRANCH CIRCUIT DEVICES:	BOLT-ON CIRCUIT BREAKERS		ELECTRICAL LOAD CALCULATION		CONN. LOAD (VA)		DEMAND
TYPE:	PANELBOARD	FULL AIC RATING:	10,000 A		Lighting	EXIST.	NEW	TOTAL	FACTOR
ENCLOSURE:	NEMA 1	SERIES AIC RATING:	22,000 A		Gen. Purpose Outlets (First 10 kVA)	0.0	720.0	720.0	1.00
MOUNTING:	SURFACE				Gen. Purpose Outlets (Remainder)	0.0	0.0	0.0	0.50
BUSSING:	MANUFACTURER'S STANDARD	SPECIAL PROVISIONS:	MASTER NAMEPLATE		Special Purpose Outlets	0.0	28800.0	28800.0	1.00
CONTINUOUS RATING:	225 A	GROUND BAR	SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT		Mechanical Equipment	0.0	0.0	0.0	1.00
FULL AIC RATING:	22,000 A				Kitchen Equipment & Appliances	0.0	0.0	0.0	1.00
SERIES AIC RATING:	NONE				Miscellaneous	0.0	4960.0	4960.0	1.00
LOCATION:	TOP				25% Largest Motor	0.0	0.0	0.0	0.0
MAIN:	CIRCUIT BREAKER				TOTAL LOAD	0.0	34780.0	34780.0	34780.0
CONTINUOUS RATING:	200 A				TOTAL AMPS	0.0	144.9	144.9	144.9
FULL AIC RATING:	22,000 A								
SERIES AIC RATING:	NONE								
LOCATION:	TOP								



EXPIRES 2/23/08

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DESIGNED BY
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Lynden, Washington 98264 Fax (360) 354-0407

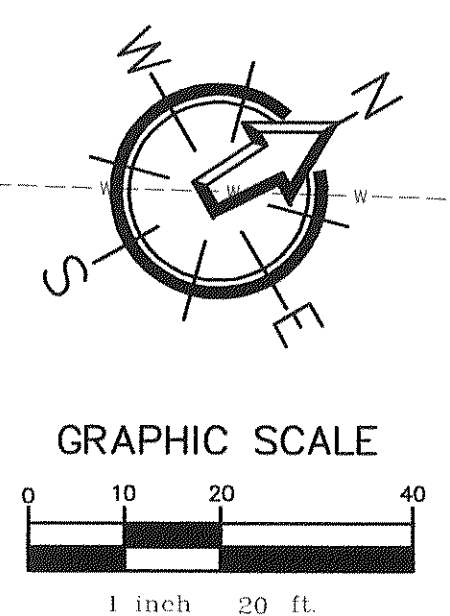
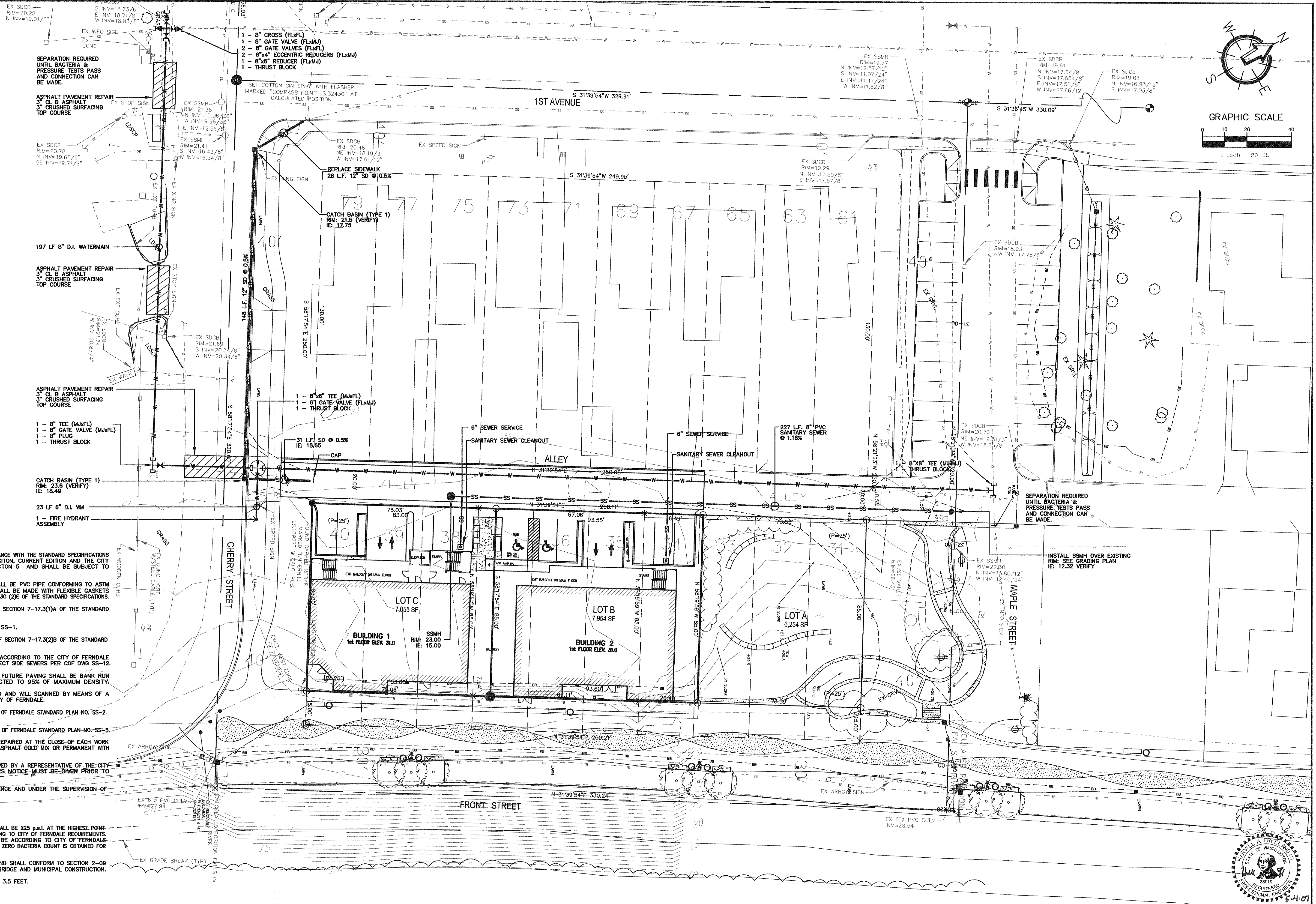
NO.	DATE	REVISION	BY

CITY OF FERNDALE

CENTENNIAL RIVERWALK PARK
ELECTRICAL DETAILS

JOB# / DWG
1242 sp1
SCALE
H:AS NOTED v:n/a

DATE
5-4-07
SHEET
E3



- SANITARY SEWER SPECIFICATIONS**
1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, CURRENT EDITION AND THE CITY OF FERNDALE DEVELOPMENT STANDARDS SECTION 5 AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE.
 2. FOUR INCH THROUGH TWELVE-INCH PIPE SHALL BE PVC PIPE CONFORMING TO ASTM D-3034, SDR-35 OR EQUAL. PIPE JOINTS SHALL BE MADE WITH FLEXIBLE GASKETS CONFORMING TO THE REQUIREMENTS OF SECTION 7-17.30 (2) OF THE STANDARD SPECIFICATIONS.
 3. TRENCH EXCAVATION SHALL BE ACCORDING TO SECTION 7-17.3(1)A OF THE STANDARD SPECIFICATIONS.
 4. THE BEDDING SHALL BE PEA GRAVEL PER SS-1.
 5. PIPE LAYING SHALL MEET THE REQUIREMENTS OF SECTION 7-17.3(2)B OF THE STANDARD SPECIFICATIONS.
 6. ALL SIDE SEWERS SHALL BE CONSTRUCTED ACCORDING TO THE CITY OF FERNDALE STANDARD PLAN SS-6 THROUGH SS-8. CONNECT SIDE SEWERS PER COF DWG SS-12.
 7. ALL TRENCH BACKFILL UNDER EXISTING OR FUTURE PAVING SHALL BE BANK RUN GRAVEL, CLASS "B" AND SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
 8. ALL SEWER PIPE WILL BE PRESSURE TESTED AND WILL BE SCANNED BY MEANS OF A TV CAMERA PRIOR TO ACCEPTANCE BY THE CITY OF FERNDALE.
 9. ALL MANHOLES WILL BE ACCORDING TO THE CITY OF FERNDALE STANDARD PLAN NO. SS-2 THROUGH SS-4.
 10. ALL CLEANOUTS SHALL BE ACCORDING TO CITY OF FERNDALE STANDARD PLAN NO. SS-5.
 11. ALL HARD SURFACED PAVEMENTS MUST BE REPAIRED AT THE CLOSE OF EACH WORK DAY. THE REPAIRS CAN BE TEMPORARY WITH ASPHALT-COLD MIX OR PERMANENT WITH HOT MIX ASPHALT OR CONCRETE.
 12. ALL WORK MUST BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF THE CITY OF FERNDALE PUBLIC WORKS, AND 24 HOURS NOTICE MUST BE GIVEN PRIOR TO STARTING WORK OR TO SCHEDULE INSPECTIONS.
 13. ALL TESTING SHALL BE DONE IN THE PRESENCE AND UNDER THE SUPERVISION OF A REPRESENTATIVE OF THE CITY OF FERNDALE.
- WATER MAINS**
1. TEST PRESSURE FOR WATERMAIN ACCEPTANCE SHALL BE 225 p.s.i. AT THE HIGHEST POINT ON THE WATER LINE AND SHALL BE DONE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. ALL PURIFICATION ACCEPTANCE TESTING SHALL BE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. THE PIPE WILL NOT PASS UNLESS A ZERO BACTERIA COUNT IS OBTAINED FOR TWO CONSECUTIVE TESTS 24 HOURS APART.
 2. ALL BACKFILL SHALL BE IMPORTED GRAVEL AND SHALL CONFORM TO SECTION 2-09 OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
 3. ALL PIPE SHALL HAVE A MINIMUM COVER OF 3.5 FEET.

CALL BEFORE YOU DIG
FOR BURIED UTILITY LOCATIONS
1-800-424-5555

No.	Date	REVISION	By

DESIGNED BY:
HAF

DRAWN BY:
JPS

CHECKED BY:
HAF

**FREELAND**
& ASSOCIATES

1408 North Garden Street
Bellingham, WA 98225

t: 360.650.1408
f: 360.650.1401

CLIENT:
BRAD PETERSON
5257 BARR ROAD
FERNDALE, WA 98248

PROJECT LOCATION:
RIVERWALK PLACE
5606 FRONT STREET
FERNDALE, WA 98248

SHEET CONTENTS: RIVER WALK PLACE OFF-SITE UTILITIES		DWG #: 06153SP3	DATE: 5-04-07
		JOB #: 06153	SHEET: C1
		SCALE: H: 1"=20' V: n/a	