

TIGARD ENTRYWAY MONUMENTS



City of Tigard
Downtown Redevelopment

13125 SW Hall Blvd.
Tigard, OR 97223
Ph: 503-718-2466

REVISIONS / RELEASES
NO. DATE DESCRIPTION



KLA
KOCH LANDSCAPE ARCHITECTURE
1621 NORTHEAST SECOND AVENUE
PORTLAND, OREGON 97232
p503.286.7175 f503.286.7979

TIGARD ENTRYWAY MONUMENT

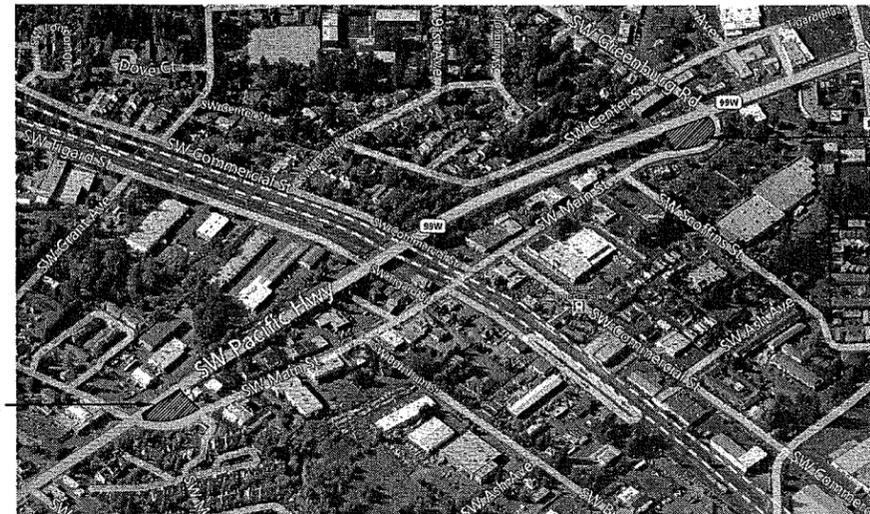
FOR CONSTRUCTION

DESIGNED BY: KLA
DRAWN BY: RK
CHECKED BY: SK
APPROVED BY: ---
PROJECT NO: 1302
DATE: 10-March-2015



L1-00

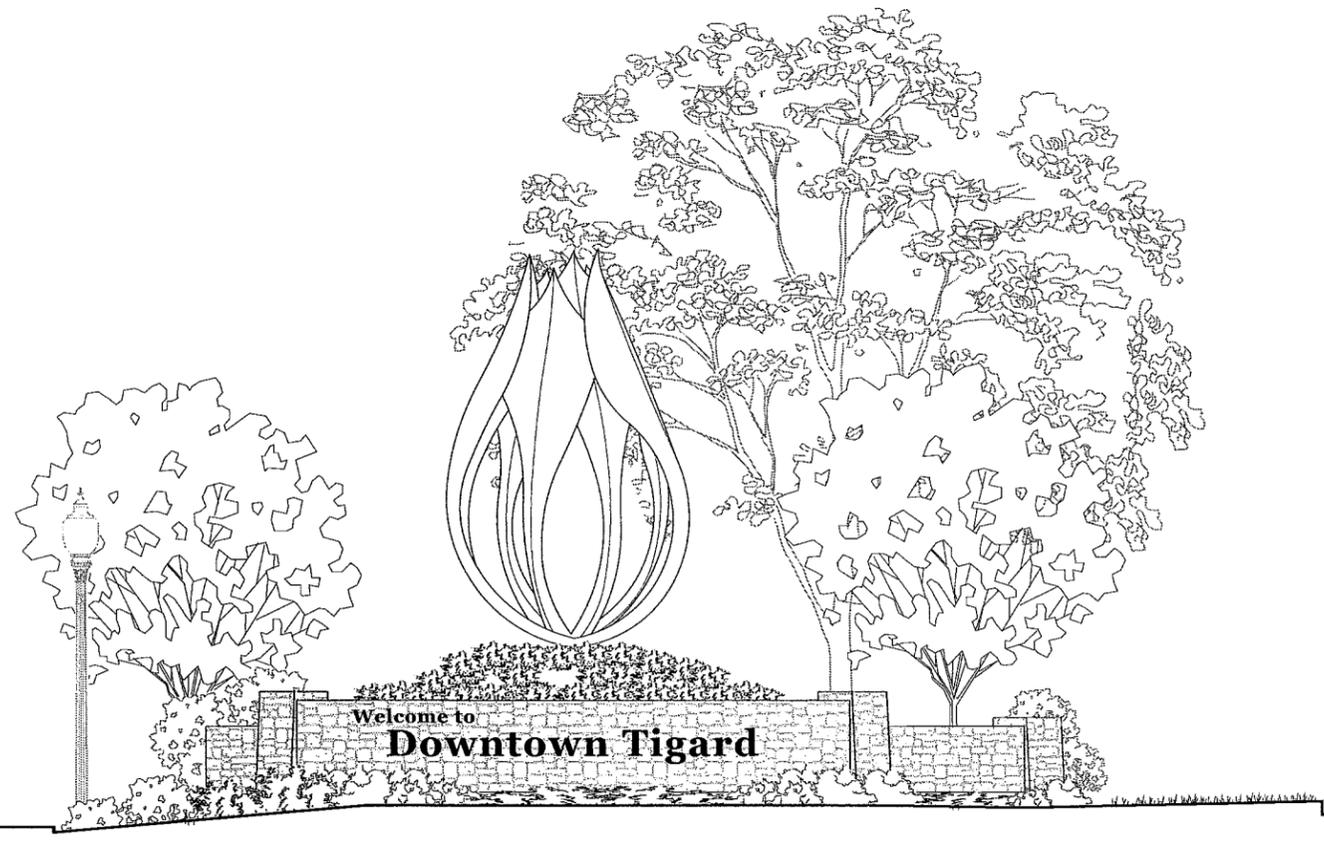
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S1	STRUCTURAL CALCULATIONS
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E2.1	LIGHTING PLAN SOUTH
E3.0	ELECTRICAL DETAILS
E4.0	ELECTRICAL ONE-LINE DIAGRAMS



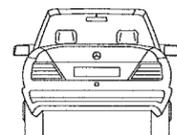
SOUTH ENTRY SITE

NORTH ENTRY SITE

1 SITE CONTEXT MAP
NTS



"CALL BEFORE YOU DIG"
Oregon Utility Notification Center (OUNC)
Call: 1-800-332-2344 (or 811)



NGVD 29

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Downtown Redevelopment

13125 SW Hall Blvd.
Tigard, OR 97223
Ph: 503-718-2466

REVISIONS / RELEASES
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REGISTERED
PROFESSIONAL
LAND SURVEYOR
[Signature]
OREGON
JUNE 30, 1997
TROY T. TETSUKA
2841
EXPIRES 6/30/16

KLA
KOCH LANDSCAPE ARCHITECTURE
1621 NORTHEAST SECOND AVENUE
PORTLAND, OREGON 97232
p 503.286.7175 f 503.286.7979

**TIGARD ENTRYWAY
MONUMENT**

FOR CONSTRUCTION

DESIGNED BY: ---
DRAWN BY: ---
CHECKED BY: ---
APPROVED BY: ---
PROJECT NO: 1302
DATE: 10-MARCH-2015

NORTH
ENTRY
SURVEY

SV-1

TOPOGRAPHIC SURVEY

LOCATED IN THE NE QUARTER OF SECTION 2
TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN
CITY OF TIGARD, WASHINGTON COUNTY, OREGON
FIELD SURVEYED: FEBRUARY 28, 2014

NOTES:

- 1.) VERTICAL DATUM: CITY OF TIGARD
BENCHMARK: 3 INCH BRASS DISK AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF SW MAIN STREET AND SW TIGARD STREET.
BENCHMARK NO. 157 ELEVATION = 157.86'
- 2.) BASIS OF BEARINGS FOR THIS SURVEY IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.
THE RESULTANT BEARING BETWEEN CONTROL POINTS 4 & 5 BEING SOUTH 89°54'11" EAST.
- 3.) A TITLE REPORT WAS NOT PROVIDED FOR THE PURPOSE OF THIS SURVEY. ADDITIONAL EASEMENTS AFFECTING THE SUBJECT PROPERTY MAY EXIST.
- 4.) UTILITY LOCATIONS SHOWN ARE PER FIELD LOCATED UTILITY PAINT MARKS & REFERENCE MAPS MADE AVAILABLE BY THE VARIOUS UTILITY PROVIDERS. UNLESS INDICATED, DEPTHS OF UTILITY LINES ARE NOT AVAILABLE. ALL UTILITY LOCATIONS SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

PROJECT CONTROL:

STATION	DESCRIPTION	NORTHING	EASTING	ELEVATION
4	1-1/8" BRASS CAP "KPFF CONTROL"	139493.24'	323480.22'	191.08'
5	1-1/8" BRASS CAP "KPFF CONTROL"	139492.87'	323695.72'	194.97'
6	MAG NAIL W/ WASHER "KPFF CONTROL"	139575.23'	323566.92'	197.37'

LEGEND:

- BUILDING OUTLINE WITH DOOR
- CONCRETE SURFACE
- ASPHALT SURFACE
- CURB LINE
- EDGE OF GRAVEL
- GUARDRAIL
- ELECTRICAL LINE
- TRAFFIC SIGNAL LINE
- STORM LINE
- SANITARY SEWER LINE
- WATER LINE
- GAS LINE
- TELECOMMUNICATION LINE
- OVERHEAD UTILITY LINE
- RECORD/ASSUMED UTILITY LINE
- 6' HIGH CYCLONE FENCE
- 5' HIGH WOOD FENCE
- EDGE OF LAWN
- ROOF DRAIN
- SIGN
- HANDICAP RAMP
- VEGETATED STORMWATER FACILITY
- TRASH CAN
- ELECTRIC JUNCTION BOX
- ELECTRIC METER
- LUMINAIRE
- POWER POLE
- GUY ANCHOR
- WITH UTILITY DROP
- GAS VALVE
- SANITARY MANHOLE WITH STRUCTURE
- STORM MANHOLE WITH STRUCTURE
- CATCH BASIN
- SANITARY/STORM STRUCTURE #
- STORM/SANITARY CLEANOUT
- TRAFFIC SIGNAL / STREETLIGHT BOX
- TRAFFIC CONTROL SIGNAL ARM WITH X-WALK SIGNALS, BUTTONS & STREETLIGHT
- TRAFFIC SIGNAL POLE
- WATER VALVE
- FIRE HYDRANT
- WATER METER
- WATER RISER
- IRRIGATION CONTROL VALVE
- SPRINKLER HEAD
- TELECOMMUNICATION VAULT
- DECIDUOUS TREE W/DBH - PERIMETER REPRESENTS DRILINE
- CONIFEROUS TREE W/DBH - PERIMETER REPRESENTS DRILINE
- SHRUB
- FOUND MONUMENT
- PROJECT CONTROL POINT

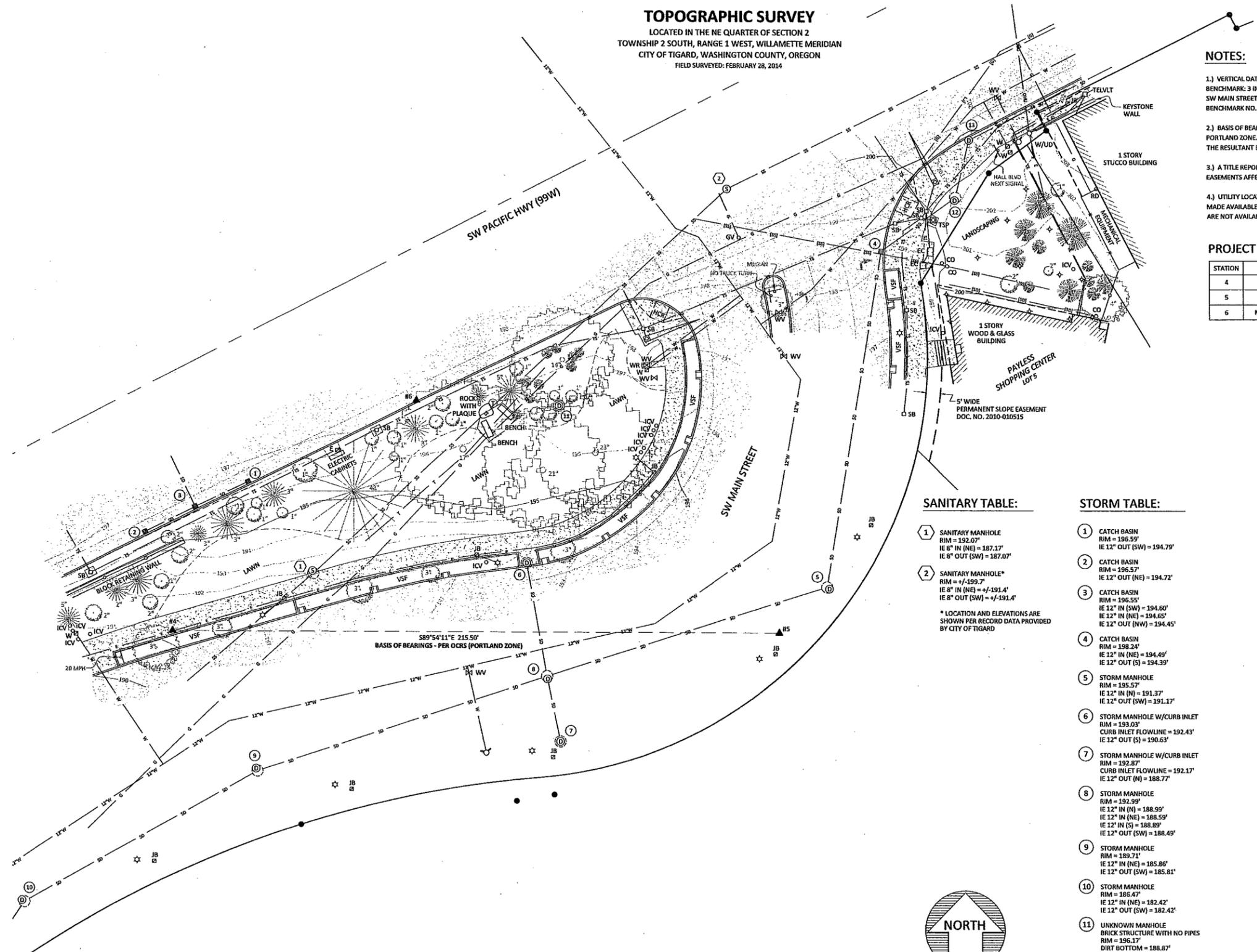
SANITARY TABLE:

1. SANITARY MANHOLE
RIM = 192.07'
IE 8" IN (NE) = 187.17'
IE 8" OUT (SW) = 187.07'
2. SANITARY MANHOLE*
RIM = +/- 199.7'
IE 8" IN (NE) = +/- 191.4'
IE 8" OUT (SW) = +/- 191.4'

* LOCATION AND ELEVATIONS ARE SHOWN PER RECORD DATA PROVIDED BY CITY OF TIGARD

STORM TABLE:

1. CATCH BASIN
RIM = 195.59'
IE 12" OUT (SW) = 194.79'
2. CATCH BASIN
RIM = 196.57'
IE 12" OUT (NE) = 194.72'
3. CATCH BASIN
RIM = 196.55'
IE 12" IN (SW) = 194.60'
IE 12" IN (NE) = 194.65'
IE 12" OUT (NW) = 194.45'
4. CATCH BASIN
RIM = 198.24'
IE 12" IN (NE) = 194.49'
IE 12" OUT (S) = 194.39'
5. STORM MANHOLE
RIM = 195.57'
IE 12" IN (N) = 191.37'
IE 12" OUT (SW) = 191.17'
6. STORM MANHOLE W/CURB INLET
RIM = 193.03'
CURB INLET FLOWLINE = 192.43'
IE 12" OUT (S) = 190.63'
7. STORM MANHOLE W/CURB INLET
RIM = 192.87'
CURB INLET FLOWLINE = 192.17'
IE 12" OUT (N) = 188.77'
8. STORM MANHOLE
RIM = 192.99'
IE 12" IN (N) = 188.99'
IE 12" IN (NE) = 188.59'
IE 12" IN (S) = 188.89'
IE 12" OUT (SW) = 188.49'
9. STORM MANHOLE
RIM = 189.71'
IE 12" IN (NE) = 185.86'
IE 12" OUT (SW) = 185.81'
10. STORM MANHOLE
RIM = 186.47'
IE 12" IN (NE) = 182.42'
IE 12" OUT (SW) = 182.42'
11. UNKNOWN MANHOLE
BRICK STRUCTURE WITH NO PIPES
RIM = 196.17'
DIRT BOTTOM = 188.87'
12. STORM MANHOLE
RIM = 201.27'
IE 12" IN (N) = 196.87'
IE 12" OUT (SW) = 195.57'
13. STORM MANHOLE W/CURB INLET
RIM = 201.37'
CURB INLET FLOWLINE = 200.68'
IE 12" IN (NE) = 197.02'
IE 12" OUT (S) = 196.87'



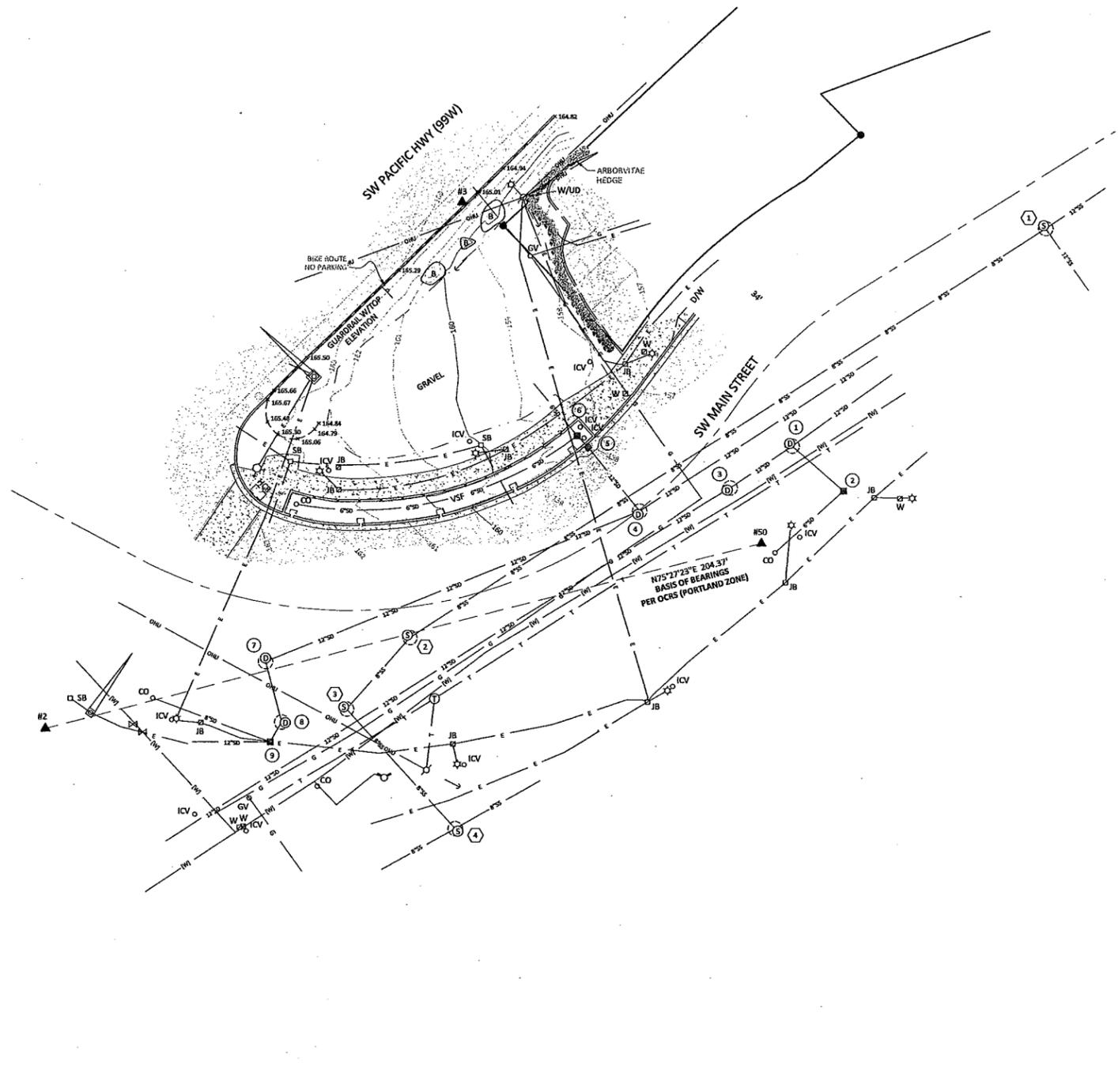
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kpff
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Portland, OR 97204
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F: 503.224.4681
www.kpff.com

JOB NO. 313159

TOPOGRAPHIC SURVEY
 LOCATED IN THE NE QUARTER OF SECTION 2
 TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN
 CITY OF TIGARD, WASHINGTON COUNTY, OREGON
 FIELD SURVEYED: FEBRUARY 10, 2015



LEGEND:

	CONCRETE SURFACE
	ASPHALT SURFACE
	STANDARD CURB LINE
	EXTRUDED CURB LINE
	EDGE OF ASPHALT
	GUARDRAIL
	APPROXIMATE RIGHT-OF-WAY LINE
	APPROXIMATE RIGHT-OF-WAY ALIGNMENT
	ELECTRICAL LINE
	TRAFFIC SIGNAL LINE
	STORM LINE
	TELECOMMUNICATIONS LINE
	SANITARY SEWER LINE
	WATER LINE PER AS-BUILTS
	GAS LINE
	OVERHEAD UTILITY LINE
	EDGE OF GRAVEL
	TOP OF GUARDRAIL ELEVATION
	SIGN
	DRIVEWAY ENTRY
	HANDICAP RAMP
	VEGETATED STORMWATER FACILITY
	BOULDER
	ELECTRICAL JUNCTION BOX
	GUY ANCHOR
	POWER POLE
	LUMINAIRE
	UTILITY DROP
	GAS VALVE
	SANITARY MANHOLE WITH STRUCTURE
	STORM MANHOLE WITH STRUCTURE
	CATCH BASIN
	SANITARY/STORM CLEAN OUT
	SANITARY/STORM STRUCTURE #
	TELECOMMUNICATIONS MANHOLE
	TRAFFIC SIGNAL BOX
	TRAFFIC SIGNAL LOOP
	PEDESTRIAN X-WALK CONTROL
	TRAFFIC CONTROL SIGNAL ARM
	WATER VALVE
	WATER METER
	FIRE HYDRANT
	IRRIGATION CONTROL VALVE
	SHRUB
	FOUND MONUMENT
	PROJECT CONTROL POINT

NOTES:

- VERTICAL DATUM: CITY OF TIGARD
 BENCHMARK: 3 INCH BRASS DISK AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF SW MAIN STREET AND SW TIGARD STREET.
 BENCHMARK NO. 157 ELEVATION = 157.86'
- BASIS OF BEARINGS FOR THIS SURVEY IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE.
- THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY. RIGHT OF WAY LINES SHOWN HEREON ARE APPROXIMATE AND FOR REFERENCE ONLY.
- UTILITY LOCATIONS SHOWN ARE PER FIELD LOCATED UTILITY PAINT MARKS & REFERENCE MAPS MADE AVAILABLE BY THE VARIOUS UTILITY PROVIDERS. UNLESS INDICATED, DEPTHS OF UTILITY LINES ARE NOT AVAILABLE. ALL UTILITY LOCATIONS SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

PROJECT CONTROL:

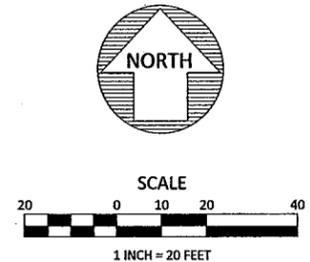
STATION	DESCRIPTION	NORTHING	EASTING	ELEVATION
2	5/8" IR W/ RED PLASTIC CAP "KPFF CONTROL"	138011.43'	321525.75'	165.70'
3	MAG NAIL W/ WASHER "KPFF CONTROL"	138157.39'	321641.58'	162.79'
50	MAG NAIL W/ WASHER "KPFF CONTROL"	138062.75'	321723.57'	157.01'

STORM TABLE:

- STORM MANHOLE
 RIM = 156.42'
 IE 12" IN (SW) = 151.22'
 IE 10" IN (SE) = 151.42'
 IE 12" OUT (NE) = 151.12'
- DOME CATCH BASIN
 RIM FLOWLINE = 156.10'
 IE 6" IN (SW) = 153.80'
 IE 10" OUT (NW) = 151.45'
- CONTECH STORM MANHOLE
 NOT SHOWN IN CONSTRUCTION PLANS
 RIM = 157.25'
 IE 12" IN (SW) = 152.21'
 IE 12" OUT (NE) = NOT VISIBLE
- STORM MANHOLE
 RIM = 158.35'
 IE 12" IN (SW) = 152.33'
 IE 12" IN (NW) = 152.73'
 IE 12" OUT (NE) = 152.08'
- CATCH BASIN
 RIM = 157.78'
 IE 6" IN (NW) = 154.05'
 IE 12" OUT (SE) = 154.05'
- DOME CATCH BASIN
 RIM FLOWLINE = 157.87'
 IE 6" IN (SW) = 154.05'
 IE 6" IN (NW) = 154.05'
 IE 6" OUT (SE) = 154.05'
- STORM MANHOLE
 RIM = 163.31'
 IE 12" IN (SE) = 158.81'
 IE 12" OUT (NE) = 158.51'
- STORM MANHOLE
 RIM = 162.74'
 IE 8" IN (SW) = 159.24'
 IE 12" OUT (NW) = 159.09'
- DOME CATCH BASIN
 RIM FLOWLINE = 162.22'
 IE 8" IN (W) = 159.57'
 IE 6" IN (NW) = 159.82'
 IE 8" OUT (NE) = 159.72'

SANITARY TABLE:

- SANITARY MANHOLE
 RIM = 153.85'
 IE 8" IN (SW) = 144.15'
 IE 12" IN (NE) = 143.95'
 IE 12" OUT (SE) = 143.55'
- SANITARY MANHOLE
 RIM = 161.77'
 IE 8" IN (SW) = 151.02'
 IE 8" OUT (NE) = 150.87'
- SANITARY MANHOLE
 RIM = 162.37'
 IE 8" IN (SE) = 152.97'
 IE 8" OUT (NE) = 152.67'
- SANITARY MANHOLE
 RIM = 162.18'
 IE 6" IN (NE) = 153.18'
 IE 8" IN (SW) = 153.28'
 IE 8" OUT (NW) = 153.08'



NGVD 29

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 Downtown Redevelopment

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 Tigard, OR 97223
 Ph: 503-718-2466

REVISIONS / RELEASES

NO. DATE DESCRIPTION

REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

 OREGON
 JUNE 30, 1997
 TROY T. TETSUKA
 2841
 EXPIRES 6/30/16

KLA
 KOCH LANDSCAPE ARCHITECTURE
 1621 NORTHEAST SECOND AVENUE
 PORTLAND, OREGON 97232
 p503.286.7175 f503.286.7979

TIGARD ENTRYWAY MONUMENT

FOR CONSTRUCTION

DESIGNED BY: ---
 DRAWN BY: ---
 CHECKED BY: ---
 APPROVED BY: ---
 PROJECT NO: 1302
 DATE: 10-MARCH-2015

SOUTH ENTRY SURVEY

SV-2



City of Tigard
Downtown Redevelopment

13125 SW Hall Blvd.
Tigard, OR 97223
Ph: 503-718-2466

NO.	DATE	DESCRIPTION



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1621 NORTHEAST SECOND AVENUE
PORTLAND, OREGON 97232
p503.286.7175 1503.286.7979

TIGARD ENTRYWAY MONUMENT

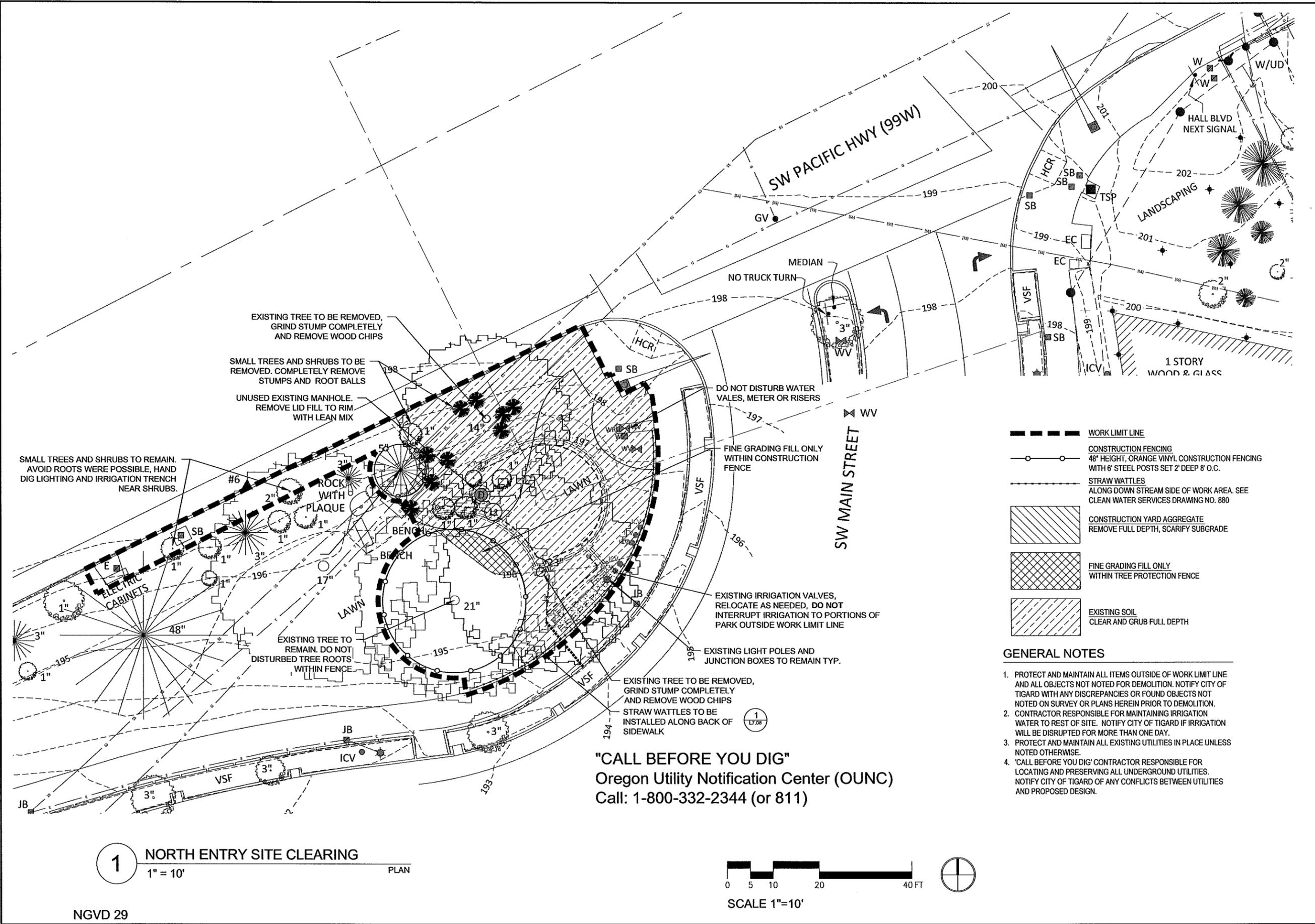
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APPROVED BY: ---
PROJECT NO: 1302
DATE: 10-March-2015



SITE
CLEARING
PLAN - NORTH

L1.01

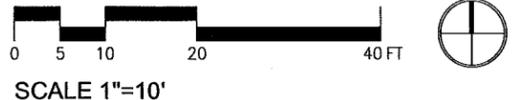


- WORK LIMIT LINE
- CONSTRUCTION FENCING
48" HEIGHT, ORANGE VINYL CONSTRUCTION FENCING WITH 6" STEEL POSTS SET 2' DEEP 8' O.C.
- STRAW WATTLES
ALONG DOWN STREAM SIDE OF WORK AREA. SEE CLEAN WATER SERVICES DRAWING NO. 880
- CONSTRUCTION YARD AGGREGATE
REMOVE FULL DEPTH, SCARIFY SUBGRADE
- FINE GRADING FILL ONLY
WITHIN TREE PROTECTION FENCE
- EXISTING SOIL
CLEAR AND GRUB FULL DEPTH

- GENERAL NOTES**
- PROTECT AND MAINTAIN ALL ITEMS OUTSIDE OF WORK LIMIT LINE AND ALL OBJECTS NOT NOTED FOR DEMOLITION. NOTIFY CITY OF TIGARD WITH ANY DISCREPANCIES OR FOUND OBJECTS NOT NOTED ON SURVEY OR PLANS HEREIN PRIOR TO DEMOLITION.
 - CONTRACTOR RESPONSIBLE FOR MAINTAINING IRRIGATION WATER TO REST OF SITE. NOTIFY CITY OF TIGARD IF IRRIGATION WILL BE INTERRUPTED FOR MORE THAN ONE DAY.
 - PROTECT AND MAINTAIN ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OTHERWISE.
 - 'CALL BEFORE YOU DIG' CONTRACTOR RESPONSIBLE FOR LOCATING AND PRESERVING ALL UNDERGROUND UTILITIES. NOTIFY CITY OF TIGARD OF ANY CONFLICTS BETWEEN UTILITIES AND PROPOSED DESIGN.

"CALL BEFORE YOU DIG"
Oregon Utility Notification Center (OUNC)
Call: 1-800-332-2344 (or 811)

1 NORTH ENTRY SITE CLEARING
1" = 10'
PLAN



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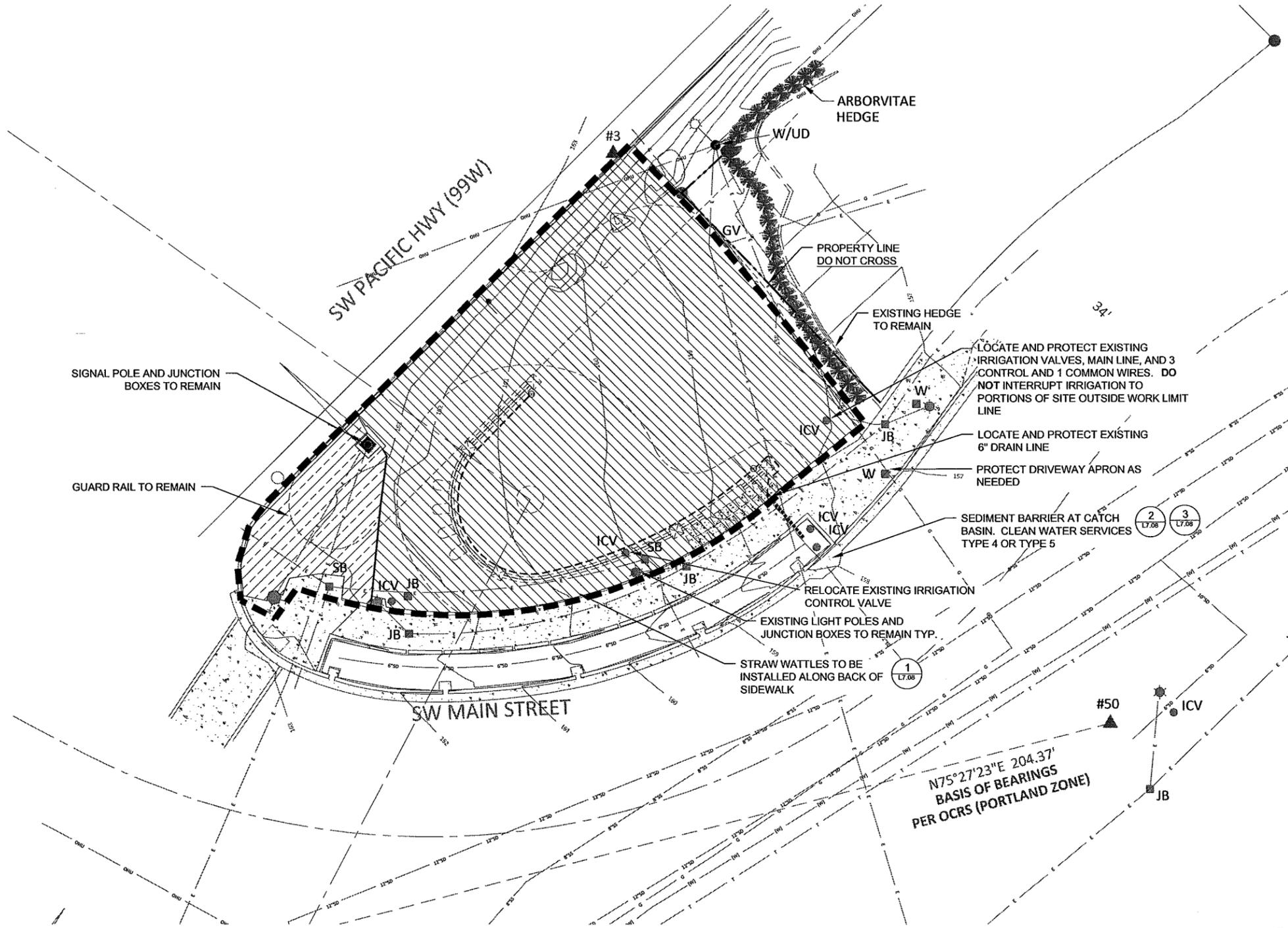
TIGARD ENTRYWAY MONUMENT

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TIGARD
SITE
CLEARING
PLAN - SOUTH

L1.02

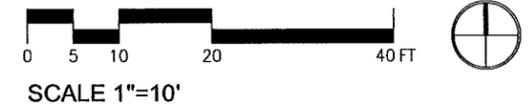


- WORK LIMIT LINE
- CONSTRUCTION FENCING
48" HEIGHT, ORANGE VINYL CONSTRUCTION FENCING WITH 6" STEEL POSTS SET 2' DEEP 8' O.C.
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ALONG DOWN STREAM SIDE OF WORK AREA. SEE CLEAN WATER SERVICES DRAWING NO. 880
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WITHIN TREE PROTECTION FENCE
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CLEAR AND GRUB FULL DEPTH

- GENERAL NOTES**
1. PROTECT AND MAINTAIN ALL ITEMS OUTSIDE OF WORK LIMIT LINE AND ALL OBJECTS NOT NOTED FOR DEMOLITION. NOTIFY CITY OF TIGARD WITH ANY DISCREPANCIES OR FOUND OBJECTS NOT NOTED ON SURVEY OR PLANS HEREIN PRIOR TO DEMOLITION.
 2. CONTRACTOR RESPONSIBLE FOR MAINTAINING IRRIGATION WATER TO REST OF SITE. NOTIFY CITY OF TIGARD IF IRRIGATION WILL BE INTERRUPTED FOR MORE THAN ONE DAY.
 3. PROTECT AND MAINTAIN ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OTHERWISE.
 4. 'CALL BEFORE YOU DIG' CONTRACTOR RESPONSIBLE FOR LOCATING AND PRESERVING ALL UNDERGROUND UTILITIES. NOTIFY CITY OF TIGARD OF ANY CONFLICTS BETWEEN UTILITIES AND PROPOSED DESIGN.

1 SOUTH ENTRY SITE CLEARING
1" = 10'
PLAN

"CALL BEFORE YOU DIG"
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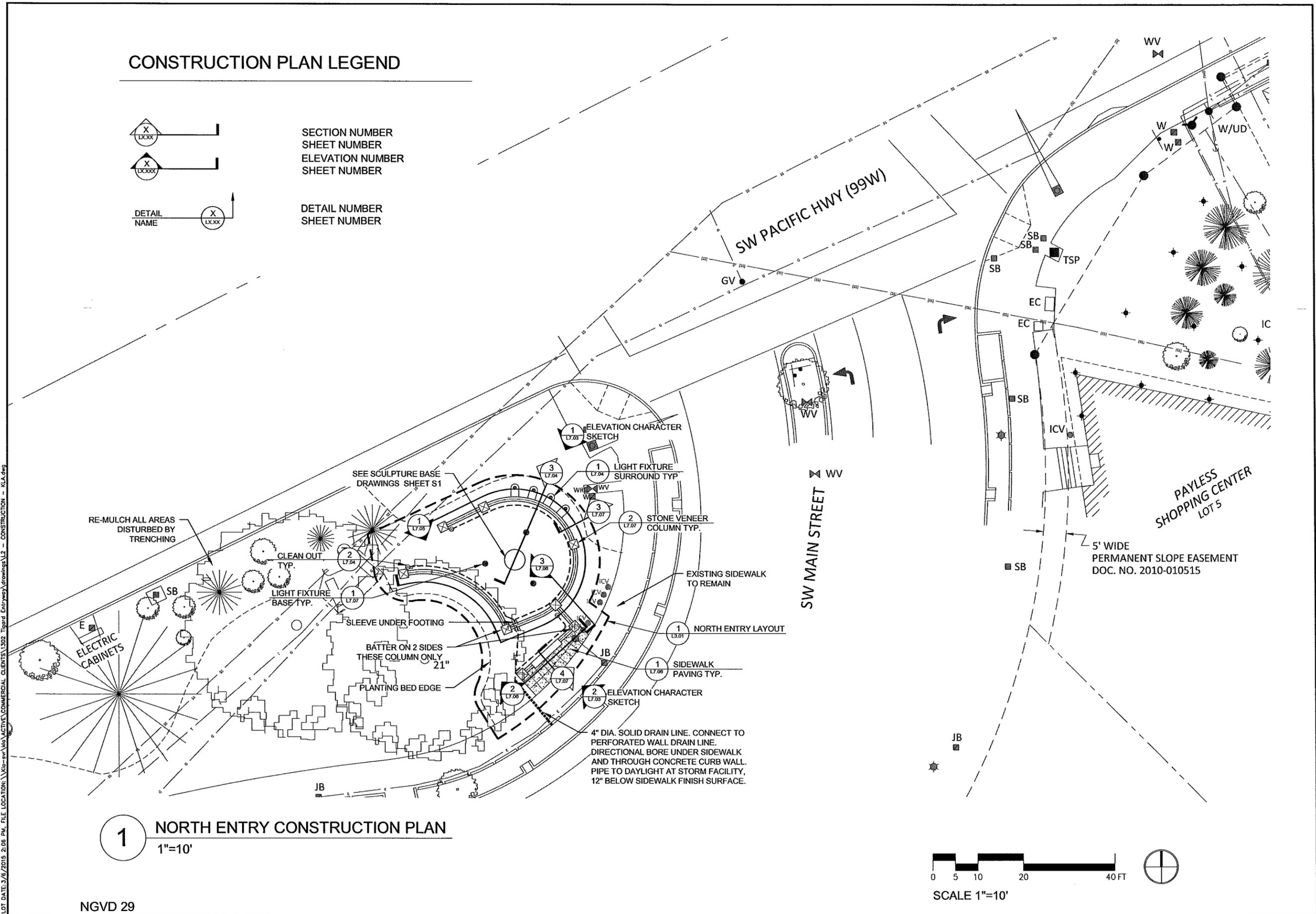
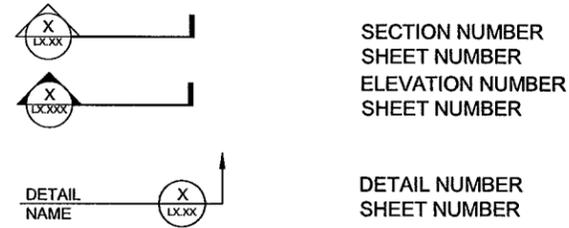
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CONSTRUCTION PLAN LEGEND



City of Tigard
Downtown Redevelopment

13125 SW Hall Blvd.
Tigard, OR 97223
Ph: 503-718-2466

REVISIONS / RELEASES
NO. DATE DESCRIPTION



KLA
Koch Landscape Architecture
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Portland, Oregon 97232
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TIGARD ENTRYWAY MONUMENT

FOR CONSTRUCTION

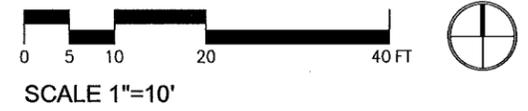
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CONSTRUCTION
PLAN - NORTH

L2.01

1 NORTH ENTRY CONSTRUCTION PLAN
1"=10'



NGVD 29

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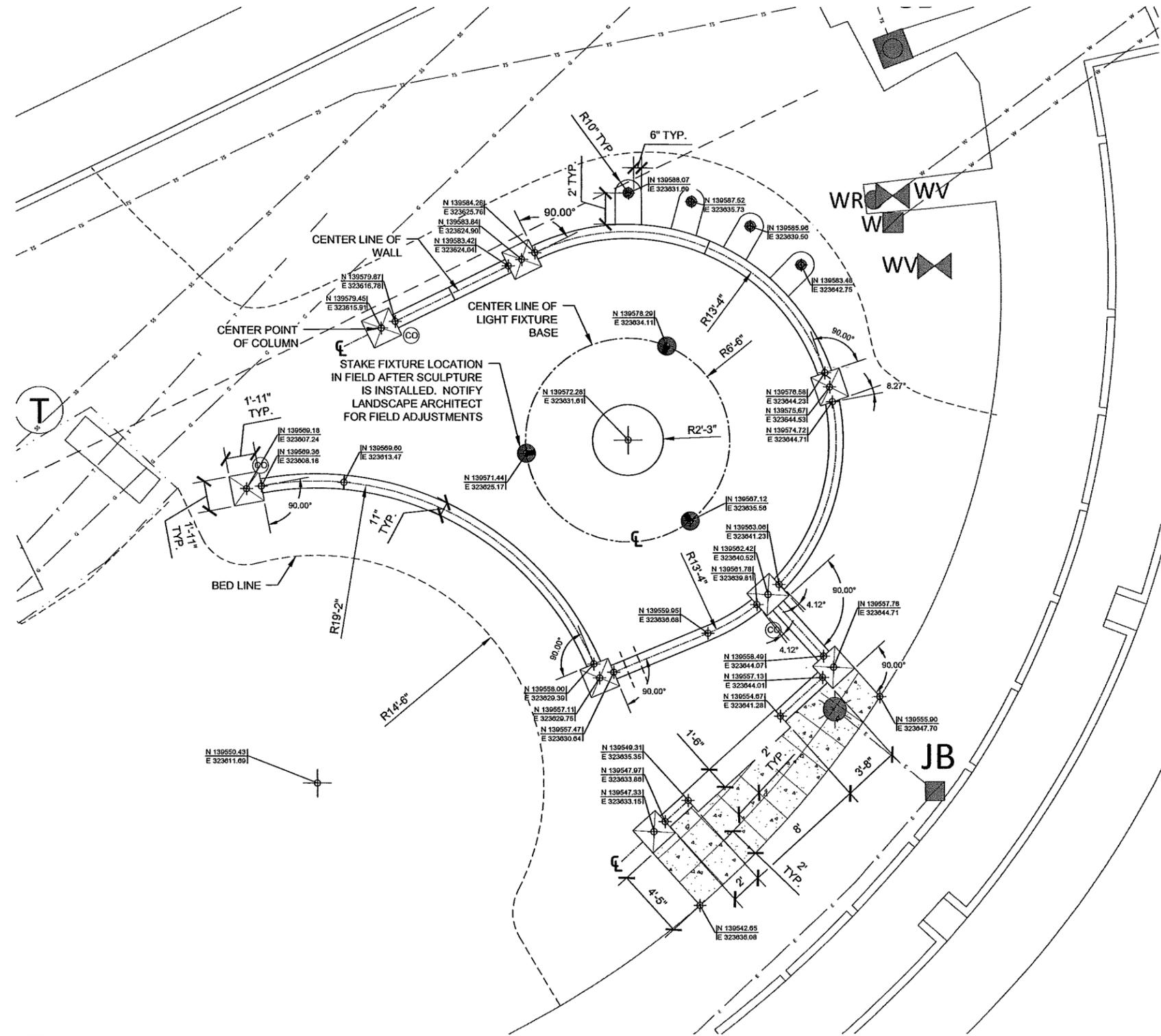
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SYMBOLS AND ABBREVIATIONS

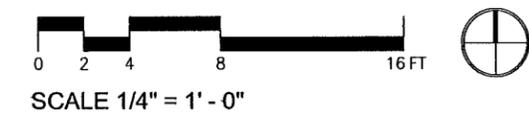
- ⊖ CENTERLINE
- R RADIUS
- + RADIUS CENTER POINT
- ⊕ COORDINATE CENTER POINT

LAYOUT NOTES

1. WORK LIMIT LINE NOT SHOWN FOR CLARITY - REFER TO SITE CLEARING PLAN SHEET L1.01 FOR PROJECT WORK LIMITS.
2. NORTHING AND EASTING COORDINATES BASED ON 'TIGARD GATEWAY - NORTH SURVEY' PROJECT CONTROL POINTS 4, 5, AND 6. SEE SHEET SV-1 FOR CONTROL POINTS AND COMPLETE SURVEY.



1 NORTH ENTRY LAYOUT
1/4"=1' PLAN



PLOT DATE: 3/16/2015 2:07 PM, FILE LOCATION: \\kls-svr\kls\active\commercial clients\1302 Tigard Entryway\Drawings\L3.01 - NORTH LAYOUT - KLA.dwg

NGVD 29

THIS DRAWING IS FULL SIZE WHEN 22" X 34" OR IS REDUCED TO HALF SCALE WHEN 11" X 17"

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City of Tigard
Downtown Redevelopment

13125 SW Hall Blvd.
Tigard, OR 97223
Ph: 503-718-2466

REVISIONS / RELEASES
NO. DATE DESCRIPTION

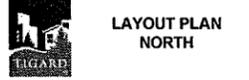


KLA
KOCH LANDSCAPE ARCHITECTURE
1621 NORTHEAST SECOND AVENUE
PORTLAND, OREGON 97232
p503.286.7175 f503.286.7979

TIGARD ENTRYWAY MONUMENT

FOR CONSTRUCTION

DESIGNED BY: KLA
DRAWN BY: RK
CHECKED BY: SK
APPROVED BY: ---
PROJECT NO: 1302
DATE: 10-March-2015



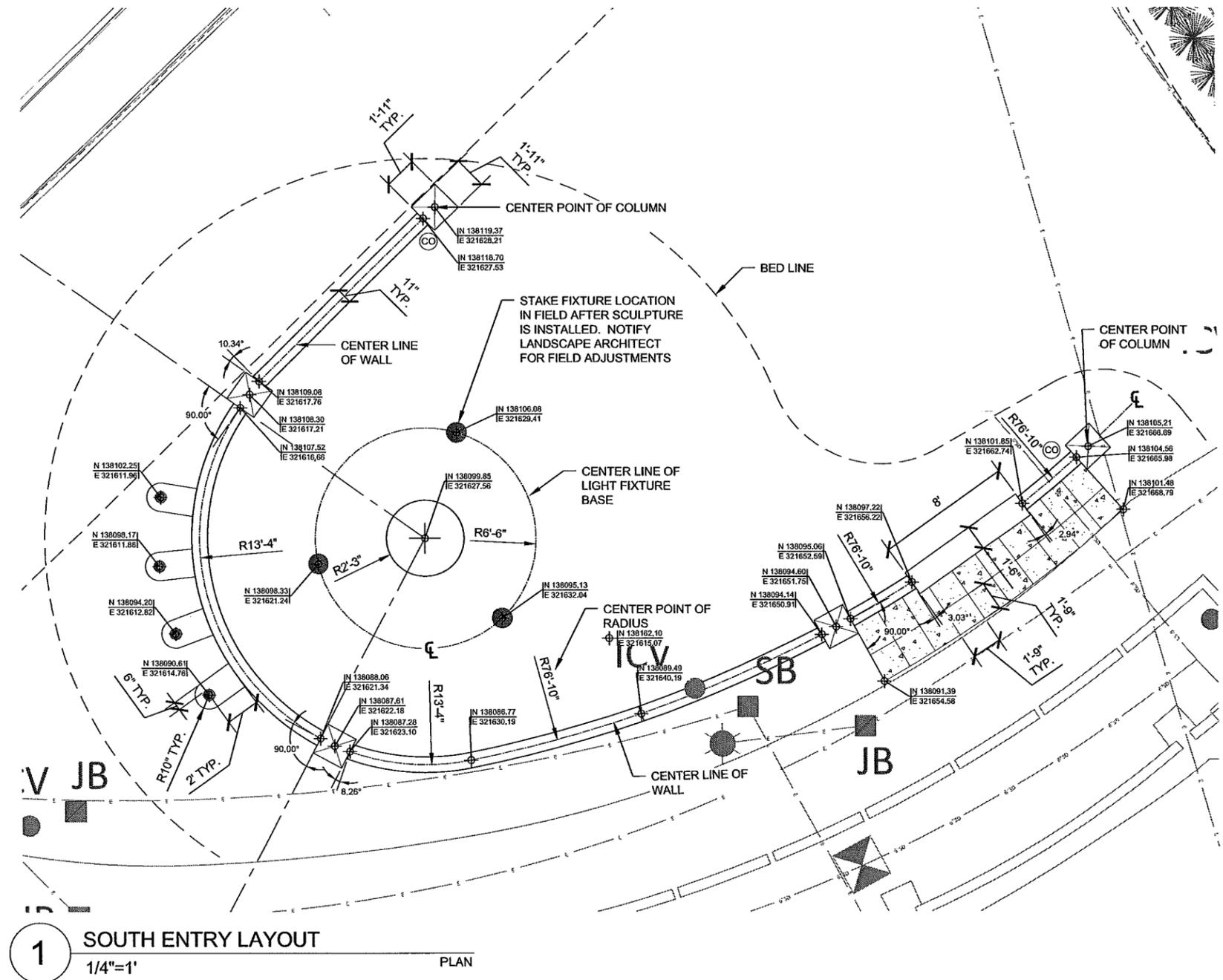
L3.01

SYMBOLS AND ABBREVIATIONS

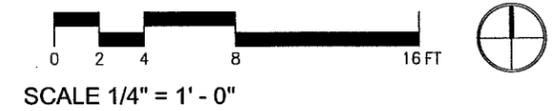
- ⊖ CENTERLINE
- R RADIUS
- ⊕ RADIUS CENTER POINT
- ⊗ COORDINATE CENTER POINT

LAYOUT NOTES

1. WORK LIMIT LINE NOT SHOWN FOR CLARITY - REFER TO SITE CLEARING PLAN SHEET L1.02 FOR PROJECT WORK LIMITS.
2. NORTING AND EASTING COORDINATES BASED ON 'TIGARD GATEWAY - SOUTH SURVEY' PROJECT CONTROL POINTS 1, 2, AND 3. SEE SHEET SV-2 FOR CONTROL POINTS AND COMPLETE SURVEY.
3. SEE L7.05 FOR WALL LENGTHS AND HEIGHTS.



1 SOUTH ENTRY LAYOUT
1/4"=1'
PLAN



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TIGARD ENTRYWAY MONUMENT

FOR CONSTRUCTION

DESIGNED BY: KLA
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L3.02

PLOT DATE: 2/10/2015 2:07 PM, FILE LOCATION: \\kls-svr\kls\active\commercial clients\1302 Tigard Entryway\Drawings\L3.02 - SOUTH LAYOUT - KLA.dwg

NGVD 29

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**TIGARD ENTRYWAY
MONUMENT**

FOR CONSTRUCTION

DESIGNED BY: KLA
DRAWN BY: RK
CHECKED BY: SK
APPROVED BY: ---
PROJECT NO: 1302
DATE: 10-March-2015

**GRADING PLAN -
NORTH**

L4.01

LEGEND

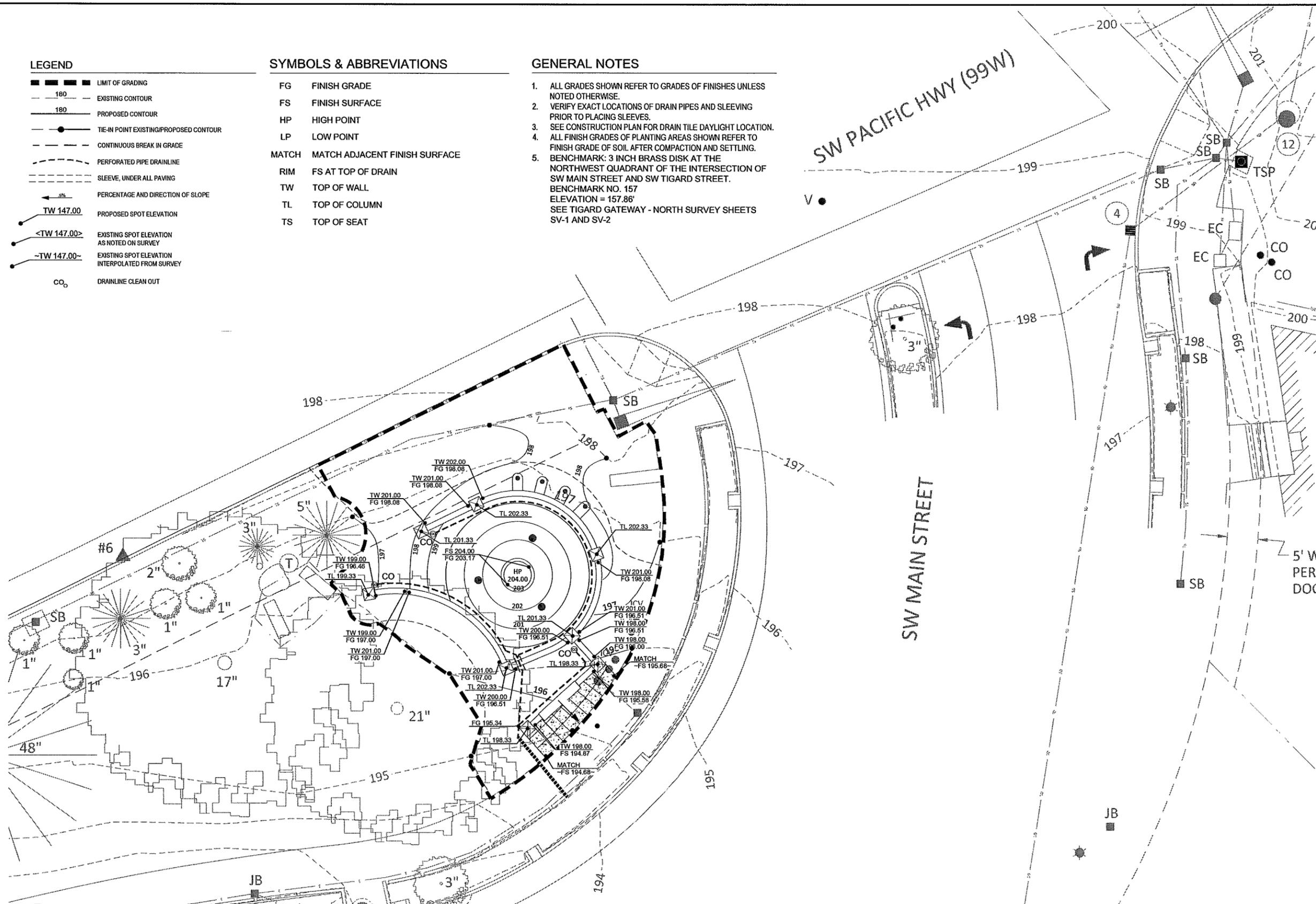
—●—	LIMIT OF GRADING
- - - 180	EXISTING CONTOUR
- - - 180	PROPOSED CONTOUR
—●—	TIE-IN POINT EXISTING/PROPOSED CONTOUR
- - -	CONTINUOUS BREAK IN GRADE
- - -	PERFORATED PIPE DRAINLINE
- - -	SLEEVE, UNDER ALL PAVING
← 0%	PERCENTAGE AND DIRECTION OF SLOPE
TW 147.00	PROPOSED SPOT ELEVATION
<TW 147.00>	EXISTING SPOT ELEVATION AS NOTED ON SURVEY
-TW 147.00-	EXISTING SPOT ELEVATION INTERPOLATED FROM SURVEY
CO	DRAINLINE CLEAN OUT

SYMBOLS & ABBREVIATIONS

FG	FINISH GRADE
FS	FINISH SURFACE
HP	HIGH POINT
LP	LOW POINT
MATCH	MATCH ADJACENT FINISH SURFACE
RIM	FS AT TOP OF DRAIN
TW	TOP OF WALL
TL	TOP OF COLUMN
TS	TOP OF SEAT

GENERAL NOTES

1. ALL GRADES SHOWN REFER TO GRADES OF FINISHES UNLESS NOTED OTHERWISE.
2. VERIFY EXACT LOCATIONS OF DRAIN PIPES AND SLEEVING PRIOR TO PLACING SLEEVES.
3. SEE CONSTRUCTION PLAN FOR DRAIN TILE DAYLIGHT LOCATION.
4. ALL FINISH GRADES OF PLANTING AREAS SHOWN REFER TO FINISH GRADE OF SOIL AFTER COMPACTION AND SETTLING.
5. BENCHMARK: 3 INCH BRASS DISK AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF SW MAIN STREET AND SW TIGARD STREET. BENCHMARK NO. 157 ELEVATION = 157.86' SEE TIGARD GATEWAY - NORTH SURVEY SHEETS SV-1 AND SV-2



1 NORTH ENTRY GARDING PLAN
1"=10'



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TIGARD ENTRYWAY MONUMENT

FOR CONSTRUCTION

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GRADING PLAN - SOUTH

L4.02

LEGEND

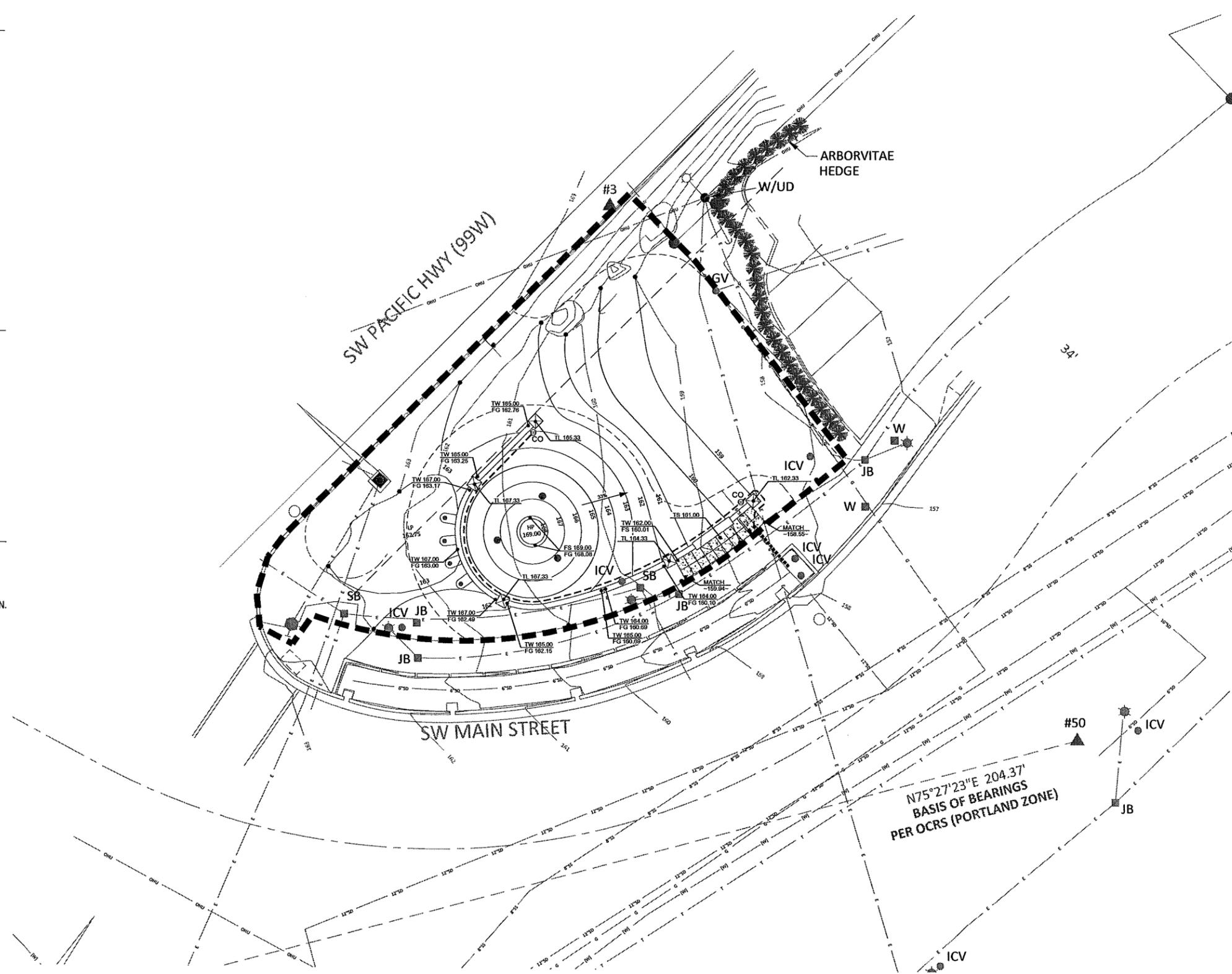
- LIMIT OF GRADING
- - - 180 EXISTING CONTOUR
- 180 PROPOSED CONTOUR
- TIE-IN POINT EXISTING/PROPOSED CONTOUR
- - - CONTINUOUS BREAK IN GRADE
- - - PERFORATED PIPE DRAINLINE
- - - SLEEVE, UNDER ALL PAVING
- ← 2% PERCENTAGE AND DIRECTION OF SLOPE
- TW 147.00 PROPOSED SPOT ELEVATION
- <TW 147.00> EXISTING SPOT ELEVATION AS NOTED ON SURVEY
- TW 147.00- EXISTING SPOT ELEVATION INTERPOLATED FROM SURVEY
- CO₀ DRAINLINE CLEAN OUT

SYMBOLS & ABBREVIATIONS

- FG FINISH GRADE
- FS FINISH SURFACE
- HP HIGH POINT
- LP LOW POINT
- MATCH MATCH ADJACENT FINISH SURFACE
- RIM FS AT TOP OF DRAIN
- TW TOP OF WALL
- TL TOP OF COLUMN
- TS TOP OF SEAT

GENERAL NOTES

- ALL GRADES SHOWN REFER TO GRADES OF FINISHES UNLESS NOTED OTHERWISE.
- VERIFY EXACT LOCATIONS OF DRAIN PIPES AND SLEEVING PRIOR TO PLACING SLEEVES.
- SEE CONSTRUCTION PLAN FOR DRAIN TILE DAYLIGHT LOCATION.
- ALL FINISH GRADES OF PLANTING AREAS SHOWN REFER TO FINISH GRADE OF SOIL AFTER COMPACTION AND SETTLING.
- BENCHMARK: 3 INCH BRASS DISK AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF SW MAIN STREET AND SW TIGARD STREET. BENCHMARK NO. 157 ELEVATION = 157.86' SEE TIGARD GATEWAY - NORTH SURVEY SHEETS SV-1 AND SV-2



1 SOUTH ENTRY GARDING PLAN
1"=10'



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LEGEND

IRRIGATION EQUIPMENT

SYMBOL	DESCRIPTION	DETAIL
	POINT OF CONNECTION	4/7.02
	GATE VALVE AS SPECIFIED	
	HUNTER HQ-330LRG QUICK COUPLER WITH LOCKING CAP	5/7.02
	HUNTER ICV-(SIZE AS NEEDED)-AS-ADJ SERIES VALVE	1/7.02
	SCHEDULE 40 PVC MAINLINE SIZE TO MATCH EXISTING MAIN LINE	3/7.02
	CLASS 200 PVC SLEEVE, 4" MIN.	3/7.02
	CLASS 200 PVC LATERAL LINE	3/7.02

IRRIGATION KEY

Symbol	Spray Heads	Description	Nozzel	Radius	Acc	G.P.M at Minimum Radius	G.P.M at Maximum Radius	Del/Sheet
		HUNTER MP1000 ROTOR W/ PROS-08-PRS40-CV BODY	1000	6'-15"	360, 270, 180, 90	.61, .33, .21, .11	.80, .61, .40, .20	6 / L7.02
		HUNTER MP2000 ROTOR W/ PROS-08-PRS40-CV BODY	2000	13'-21"	360, 270, 180, 90	1.01, .75, .51, .26	1.62, 1.22, .83, .42	6 / L7.02
		HUNTER MP3000 ROTOR W/ PROS-08-PRS40-CV BODY	3000	22'-00"	360, 270, 180, 90	2.87, 2.00, 1.33, .63	3.64, 2.73, 1.82, .89	6 / L7.02
		HUNTER MPSS530-PRS40	SS	MIN. 4'X23" MAX. 5'X30"		.33	.44	6 / L7.02
		HUNTER MPRCS15-PRS40	RCS	4'X11" 5'X15"		.17	.22	6 / L7.02
		HUNTER MPLCS530-PRS40	LCS	4'X11" 5'X15"		.17	.22	6 / L7.02

ZONE KEY

ZONE NO.	VALVE SIZE
16	2 1/2"

PIPE SIZING CHART

GPM	SIZE
1 - 10	3/4"
11 - 18	1"
17 - 26	1-1/4"
27 - 35	1-1/2"
36 - 55	2"
66 - 80	2-1/2"
81 - 120	3"

IRRIGATION NOTES

- INSTALL IRRIGATION SYSTEM IN ACCORDANCE WITH ALL LOCAL CODES & ORDINANCES. CONTRACTOR SHALL DESIGN AND BUILD THE IRRIGATION SYSTEM ACCORDING TO STANDARD CONSTRUCTION PRACTICES AND THESE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL GUARANTEE MATERIALS AND WORKMANSHIP FOR ONE YEAR BEYOND THE DATE OF FINAL ACCEPTANCE OF IRRIGATION SYSTEM.
- COORDINATE IRRIGATION POINTS OF CONNECTION AND LOCATION OF AUTOMATIC CONTROLLER(S) WITH OTHER TRADES INVOLVED.
- SYSTEM IS DESIGNED TO RUN AT 60 PSI STATIC PRESSURE WITH 20 GPM AT POINT OF CONNECTION. CONTRACTOR SHALL VERIFY GPM / PSI AT POINT OF CONNECTION PRIOR TO COMMENCING WORK. NOTIFY LANDSCAPE ARCHITECT IF ACTUAL FIELD DATA DIFFERS FROM THIS INFORMATION.
- IRRIGATION PLAN DRAWINGS SHOW DIAGRAMMATIC IRRIGATION LAYOUT. CONTRACTOR IS RESPONSIBLE FOR DESIGN-BUILD OF A COMPLETE AND WORKING SYSTEM INCLUDING ALL PIPE SIZING, TRENCHING AND WIRING.
- CONTRACTOR TO MARK LAYOUT OF TRENCHES AND VALVE LOCATIONS FOR REVIEW BY LANDSCAPE ARCHITECT IN FIELD PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ANY AND ALL EXISTING UTILITIES ON AND ADJACENT TO THE PROJECT PRIOR TO BEGINNING CONSTRUCTION. FOR UTILITY LOCATE CALL: 1-800-332-2344.
- ALL IRRIGATION EQUIPMENT SHALL BE PLACED IN PLANTED AREAS WHENEVER POSSIBLE. FIELD ADJUST LINES TO AVOID CONFLICT WITH UTILITIES AND EXISTING TREE ROOTS.
- WHERE EXISTING TREE DRIP LINES ARE IN LINE WITH TRENCH LOCATIONS THE CONTRACTOR SHALL HAND DIG.
- ALL VALVES WILL BE PLACED IN VALVE BOXES IN A MANNER THAT FACILITATES ACCESS FOR MAINTENANCE. SIZE BOXES TO ACCOMMODATE COMPLETE VALVE ASSEMBLY INCLUDING UNIONS. LOCATE VALVE BOXES IN SHRUB AND GROUND COVER BEDS WHENEVER POSSIBLE.
- IRRIGATION LATERALS SHALL BE SIZED STARTING AT VALVE AND CONTINUING IN DIRECTION OF FLOW.
- ALL COMPONENTS OF IRRIGATION SYSTEM SHALL BE INSTALLED AND ADJUSTED TO PROVIDE 100% COVERAGE AND MINIMIZE OVERSPRAY ONTO BUILDINGS, SIDEWALKS AND ROAD.
- SLEEVES SHOWN ARE FOR CONTRACTOR'S CONVENIENCE ONLY. CONTRACTOR SHALL VERIFY INSTALLATION OF SLEEVE LOCATIONS, QUANTITIES AND SIZES TO ACCOMMODATE ALL IRRIGATION PIPING.
- PROVIDE PRESSURE COMPENSATING DEVICES AS REQUIRED.
- CONTRACTOR TO KEEP EXISTING IRRIGATION OPERATIONAL TO AREAS OUTSIDE WORK LIMIT LINE. NOTIFY LANDSCAPE ARCHITECT AND OWNER IF IRRIGATION TO PARK WILL BE OFF FOR MORE THEN 1 DAY.

SCULPTURE AND WALL UP LIGHTING. USE CAUTION WHEN TRENCHING TO AVOID ELECTRICAL CONDUIT. SEE E2.0 FOR ADDITIONAL ELECTRICAL INFORMATION.

NEW IRRIGATION CONTROL WIRE, IF NEEDED, TO BE PLACED IN COMMON TRENCH WITH LOW VOLTAGE LIGHTING CONDUIT. SEE E2.0 FOR LOCATOIN

EXISTING HUNTER CONTROLLER MOUNTED TO PLYWOOD BACKBOARD

ELECTRIC CABINETS

IF NEEDED CONTRACTOR TO INSTALL NEW CONTROL WIRE TO IRRIGATION CONTROLLER LOCATED TO THE WEST ALONG HWY 99.

4.80	A1 1"
5.63	A2 1"
5.24	A3 1"

P.O.C. CONNECT TO EXISTING MAIN LINE

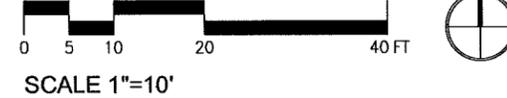
EXISTING IRRIGATION VALVES TO REMAIN, RESET VALVE BOXES AS NEEDED TO REMAIN FLUSH WITH GRADE. CONTRACTOR TO VERIFY LATERAL ZONE LOCATIONS. CONTRACTOR TO USE EXISTING IRRIGATION WIRES IF AVAILABLE DUE TO DEMOLITION OF EXISTING ZONES.

CONNECT TO EXISTING LAWN LATERAL LINE. PROPOSED LAWN HEADS TO MATCH EXISTING HUNTER HEADS AND NOZZLES. ADJUSTS HEADS AS NEEDED FOR EVEN HEAD TO HEAD COVERAGE.

1 NORTH ENTRY IRRIGATION PLAN

1"=10'

NGVD 29



City of Tigard
Downtown Redevelopment

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TIGARD ENTRYWAY MONUMENT

FOR CONSTRUCTION

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DATE: 10-March-2015



L5.01



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L5.02

LEGEND

IRRIGATION EQUIPMENT

SYMBOL	DESCRIPTION	DETAIL
	POINT OF CONNECTION	
	GATE VALE AS SPECIFIED	4/7.02
	HUNTER HQ-33DLRC QUICK COUPLER WITH LOCKING CAP	6/1.02
	HUNTER ICV-(SIZE AS NEEDED)-AS-ADJ SERIES VALVE	1/7.02
	SCHEDULE 40 PVC MAINLINE SIZE TO MATCH EXISTING MAIN LINE.	3/7.02
	CLASS 200 PVC SLEEVE, 4" MIN.	2/7.02
	CLASS 200 PVC LATERAL LINE	3/7.02

IRRIGATION KEY

Symbol	Description	Nozzel	Radius	Arc	G.P.M at Minimum Radius	G.P.M at Maximum Radius	Det/Sheet
	HUNTER MP1000 ROTOR W/ PROS-09-PRS40-CV BODY	1000	8'-15"	300, 270, 180, 90	.61, .33, .21, .11	.80, .61, .40, .20	6/L7.02
	HUNTER MP2000 ROTOR W/ PROS-09-PRS40-CV BODY	2000	13'-21"	300, 270, 180, 90	1.01, .75, .51, .28	1.02, 1.22, .83, .42	6/L7.02
	HUNTER MP3000 ROTOR W/ PROS-09-PRS40-CV BODY	3000	22'-30"	300, 270, 180, 90	2.67, 2.00, 1.33, .63	3.64, 2.73, 1.82, .88	6/L7.02
	HUNTER MPSS530-PRS40	SS	MIN. 4'X23" MAX. 6'X30"		.33	.44	6/L7.02
	HUNTER MPRCS16-PRS40	RCS	4'X11" 6'X15"		.17	.22	6/L7.02
	HUNTER MPLCS30-PRS40	LCS	4'X11" 6'X15"		.17	.22	6/L7.02

ZONE KEY

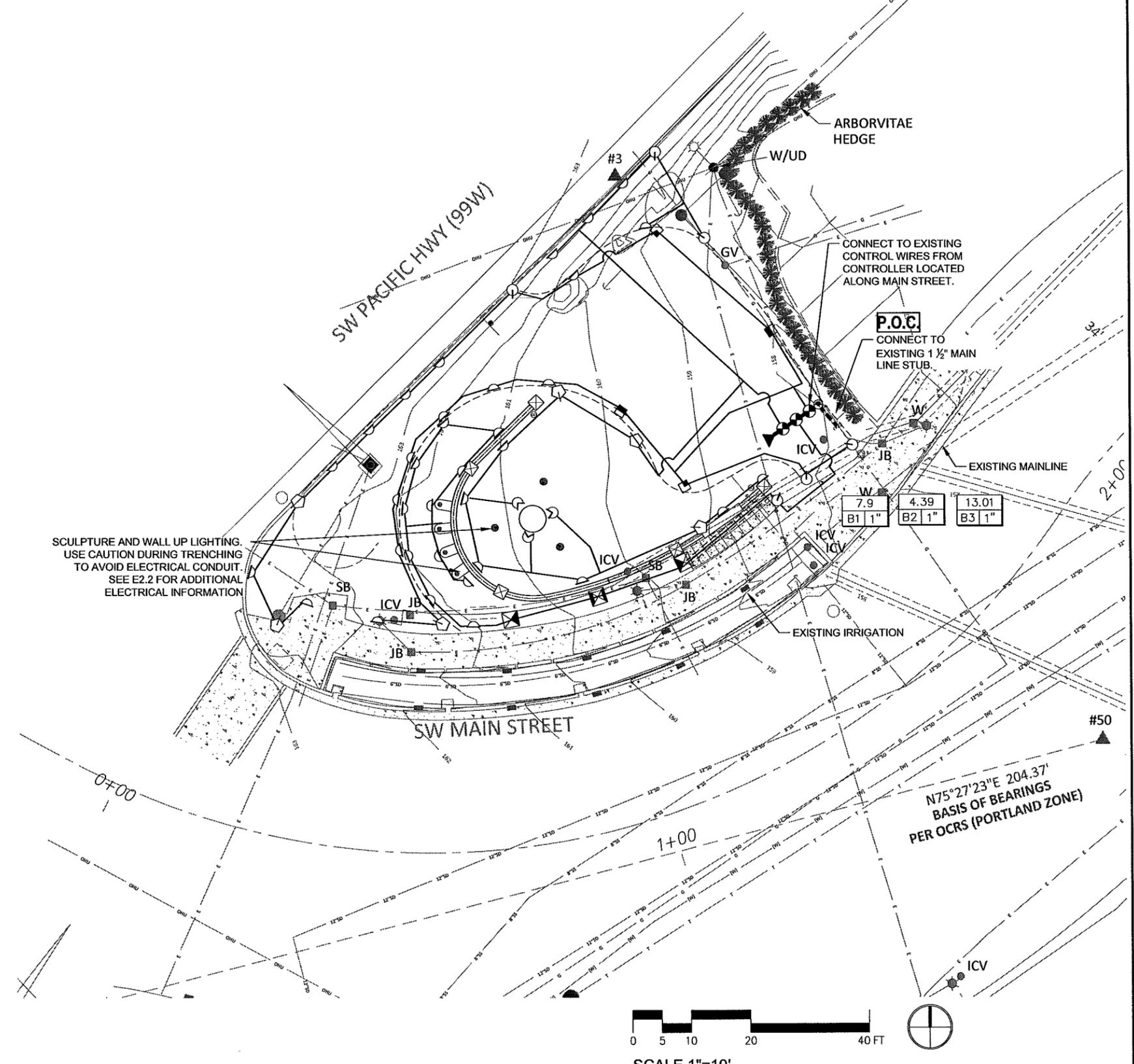
16	GPM
2	1"
ZONE NO.	VALVE SIZE

PIPE SIZING CHART

GPM	SIZE
1 - 10	3/4"
11 - 16	1"
17 - 26	1-1/4"
27 - 35	1-1/2"
36 - 55	2"
56 - 80	2-1/2"
81 - 120	3"

IRRIGATION NOTES

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- PROVIDE PRESSURE COMPENSATING DEVICES AS REQUIRED.
- CONTRACTOR TO KEEP EXISTING IRRIGATION OPERATIONAL TO AREAS OUTSIDE WORK LIMIT LINE. NOTIFY LANDSCAPE ARCHITECT AND OWNER IF IRRIGATION TO PARK WILL



SCULPTURE AND WALL UP LIGHTING.
USE CAUTION DURING TRENCHING
TO AVOID ELECTRICAL CONDUIT.
SEE E2.2 FOR ADDITIONAL
ELECTRICAL INFORMATION

CONNECT TO EXISTING
CONTROL WIRES FROM
CONTROLLER LOCATED
ALONG MAIN STREET.

P.O.C.
CONNECT TO
EXISTING 1 1/2" MAIN
LINE STUB.

7.9
4.39
13.01
B1 1" B2 1" B3 1"

N75°27'23"E 204.37'
BASIS OF BEARINGS
PER OCRS (PORTLAND ZONE)



1 SOUTH ENTRY IRRIGATION PLAN
1"=10'

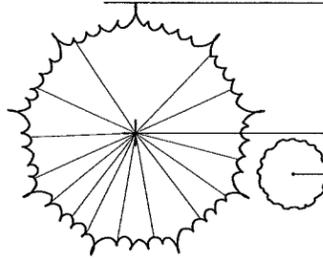
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PLANTING SCHEDULE



TREES

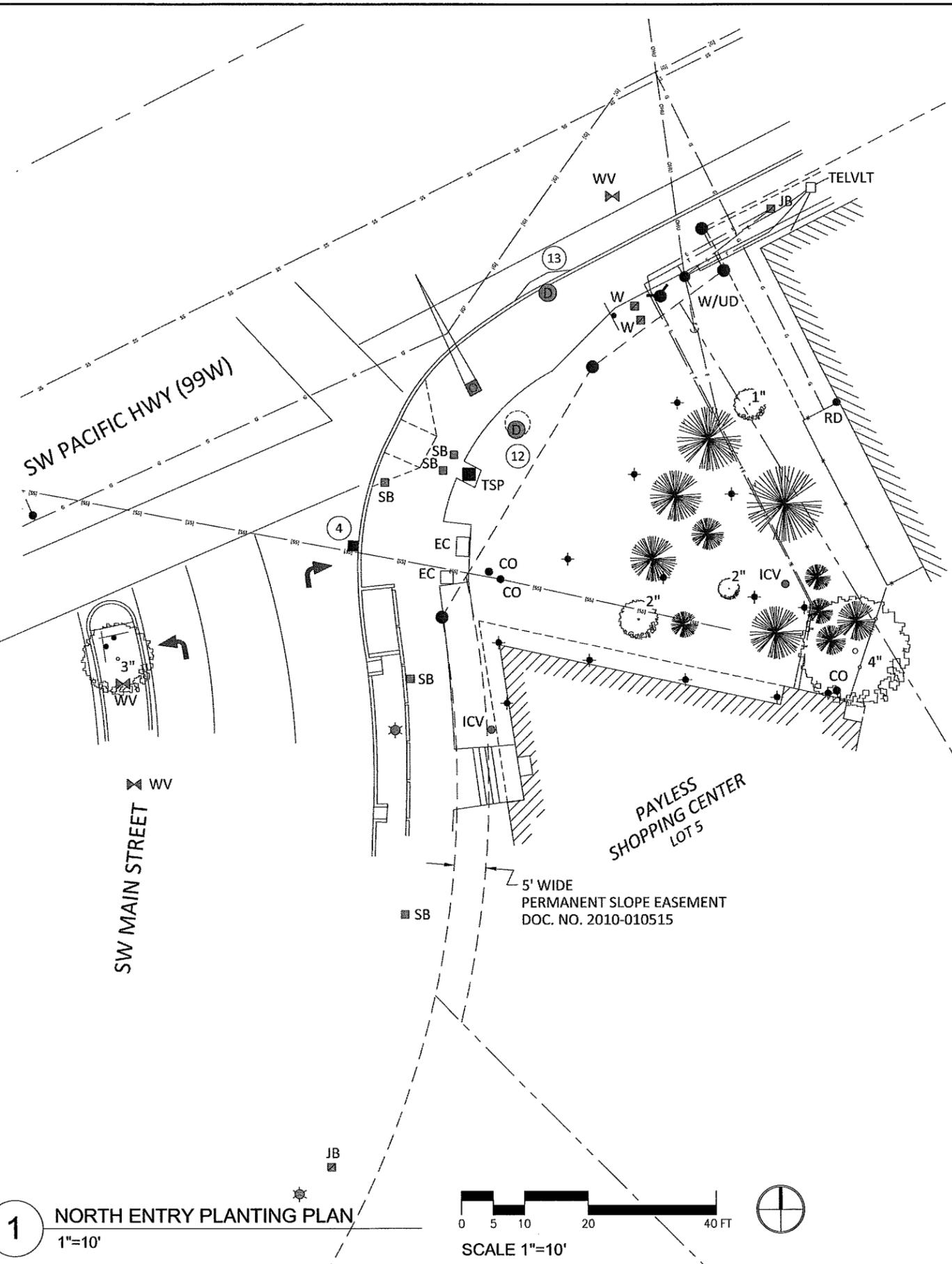
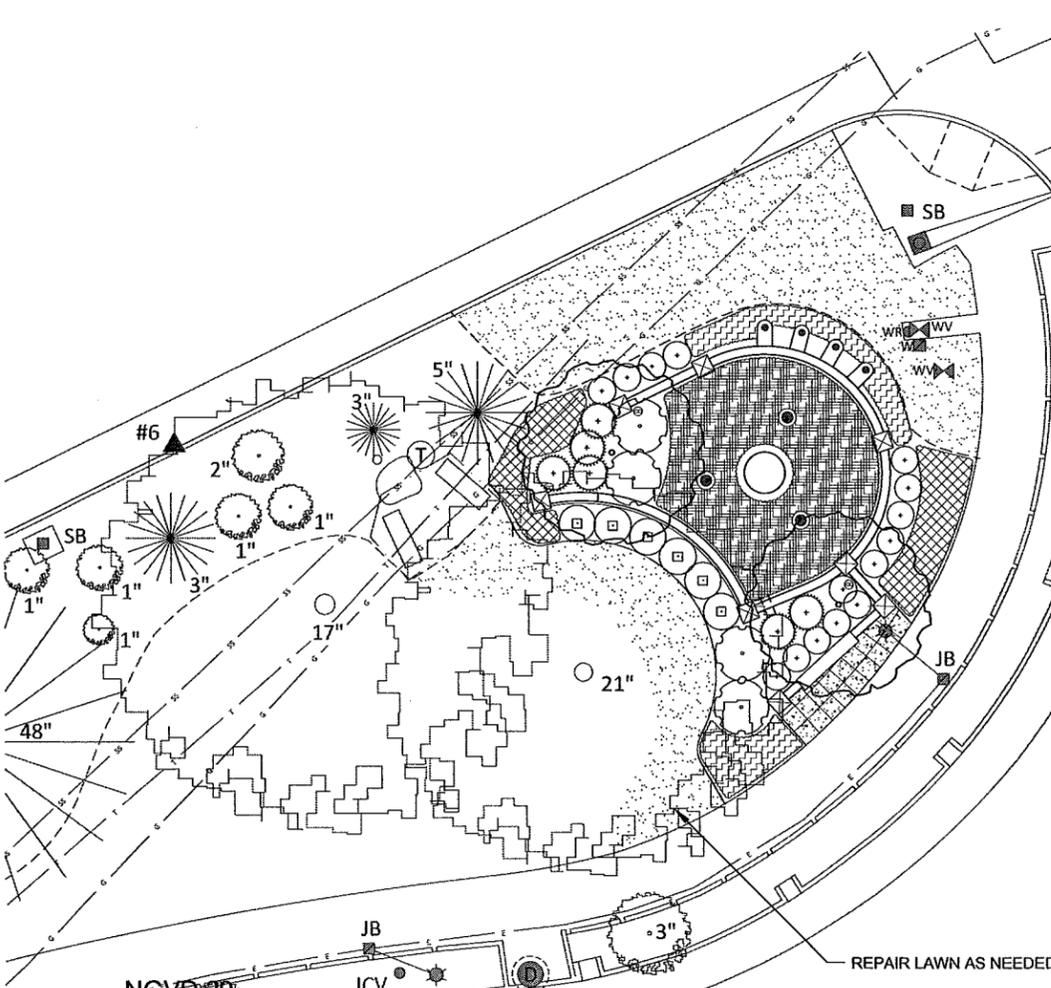
ABBREVIATION	BOTANICAL NAME / COMMON NAME	SIZE	SPACING
SG	Sequoiadendron giganteum Giant Sequoia	3" CAL.	AS SHOWN
ML	Magnolia x loebneri 'Leonard Messel' Leonard Messel Magnolia	3.5" CAL. STANDARD	AS SHOWN

SHRUBS

ABBREVIATION	BOTANICAL NAME / COMMON NAME	SIZE	SPACING
MY	Miscanthus sinensis 'Yakushima' Dwarf Maiden Grass	5 GAL.	AS SHOWN
SJ	Spiraea japonica 'Alpine Nana' Alpine Spirea	5 GAL.	AS SHOWN
VS	Viburnum plicatum 'Summer Snowflake' Summer Snowflake Viburnum	5 GAL.	AS SHOWN
VB	Viburnum tinus 'Spring Bouquet' Spring Bouquet Viburnum	5 GAL.	AS SHOWN

GROUNDCOVERS

SYMBOL	BOTANICAL NAME / COMMON NAME	SIZE	SPACING
[Dotted pattern]	Lawn Sod	-	-
[Diagonal lines /]	Liriope muscari 'Silvery Sunproof' Silvery Sunproof Lily Turf	1 GAL.	18" O.C.
[Diagonal lines \]	Cotoneaster dammeri 'Lowfast' Lowfast Cotoneaster	2 GAL.	24" O.C.
[Cross-hatch pattern]	Saponaria ocymoides Soapwort	1 GAL.	18" O.C.
[Stippled pattern]	Vinca minor 'Bowles' Bowles' Common Periwinkle	1 GAL.	18" O.C.



1 NORTH ENTRY PLANTING PLAN
1"=10'



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NO.	DATE	DESCRIPTION



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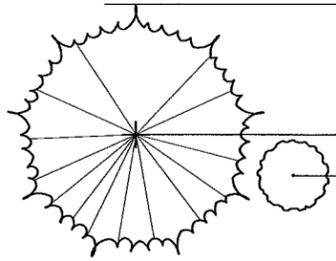
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PLANTING SCHEDULE



TREES

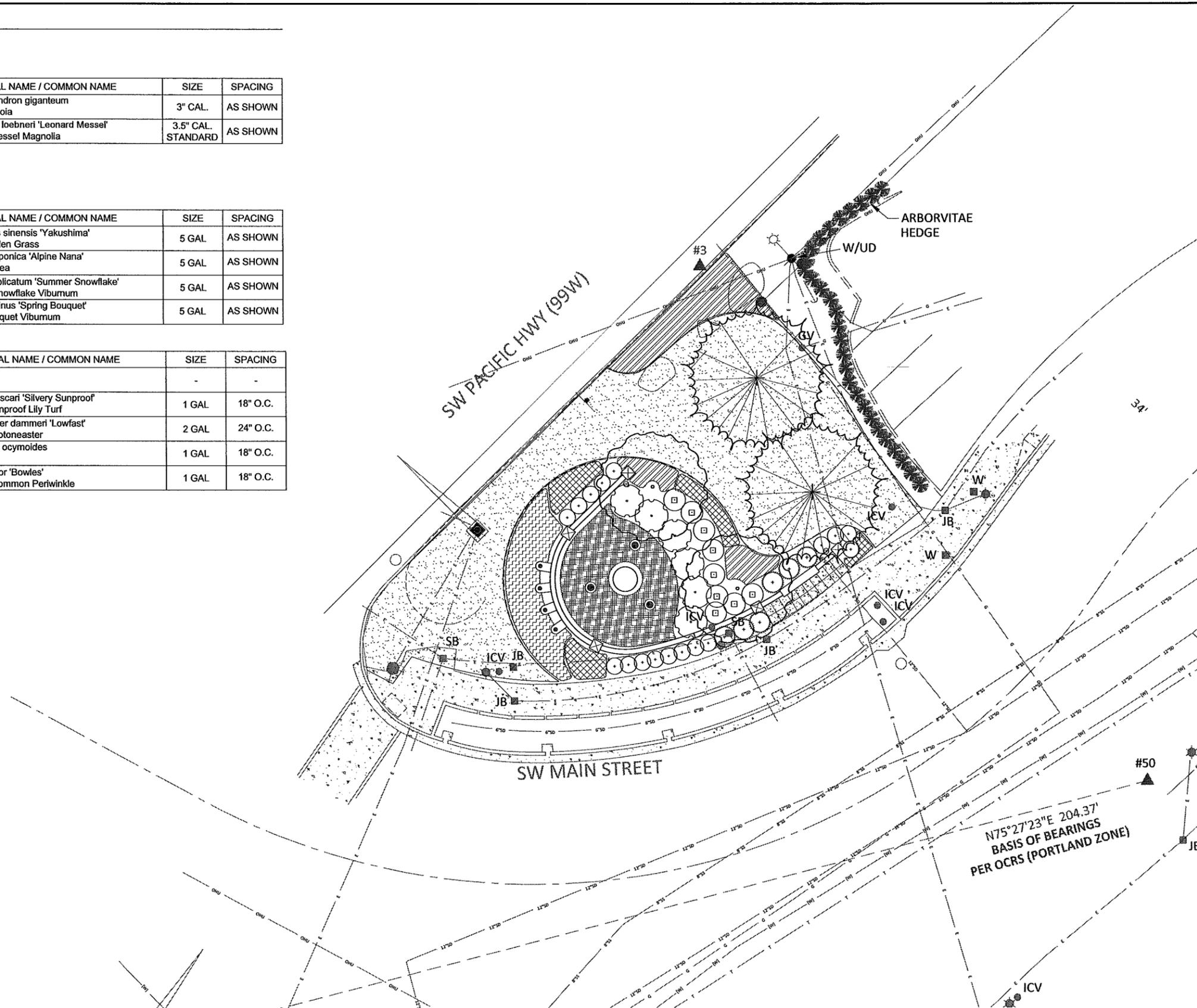
ABBREVIATION	BOTANICAL NAME / COMMON NAME	SIZE	SPACING
SG	Sequoiadendron giganteum Giant Sequoia	3" CAL.	AS SHOWN
ML	Magnolia x loebneri 'Leonard Messel' Leonard Messel Magnolia	3.5" CAL. STANDARD	AS SHOWN

SHRUBS

ABBREVIATION	BOTANICAL NAME / COMMON NAME	SIZE	SPACING
MY	Miscanthus sinensis 'Yakushima' Dwarf Maiden Grass	5 GAL	AS SHOWN
SJ	Spiraea japonica 'Alpine Nana' Alpine Spirea	5 GAL	AS SHOWN
VS	Viburnum plicatum 'Summer Snowflake' Summer Snowflake Viburnum	5 GAL	AS SHOWN
VB	Viburnum tinus 'Spring Bouquet' Spring Bouquet Viburnum	5 GAL	AS SHOWN

GROUNDCOVERS

SYMBOL	BOTANICAL NAME / COMMON NAME	SIZE	SPACING
[Dotted pattern]	Lawn Sod	-	-
[Diagonal lines]	Liriope muscari 'Silvery Sunproof' Silvery Sunproof Lily Turf	1 GAL	18" O.C.
[Cross-hatch pattern]	Cotoneaster dammeri 'Lowfast' Lowfast Cotoneaster	2 GAL	24" O.C.
[Grid pattern]	Saponaria ocymoides Soapwort	1 GAL	18" O.C.
[Diagonal lines]	Vinca minor 'Bowles' Bowles' Common Periwinkle	1 GAL	18" O.C.



1 SOUTH ENTRY PLANTING PLAN
1"=10'

NGVD 29

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TIGARD ENTRYWAY
MONUMENT

FOR CONSTRUCTION

DESIGNED BY: KLA
DRAWN BY: RK
CHECKED BY: SK
APPROVED BY: ---
PROJECT NO: 1302
DATE: 10-March-2015



PLANTING
PLAN - SOUTH

L6.02

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MONUMENT**

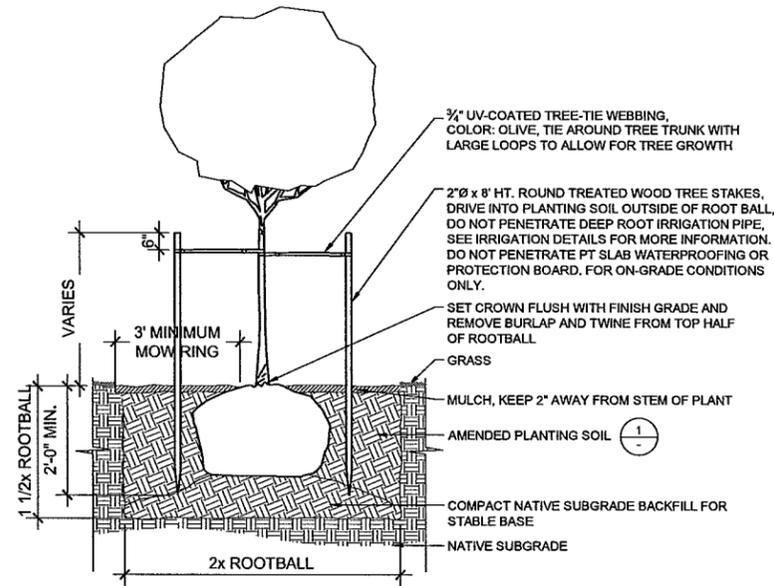
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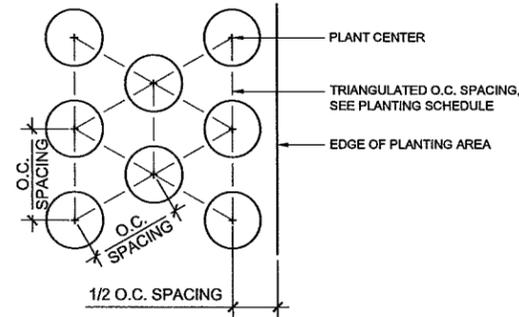


PLANTING
DETAILS

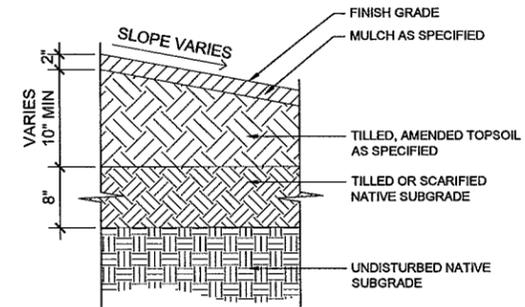
L7.01



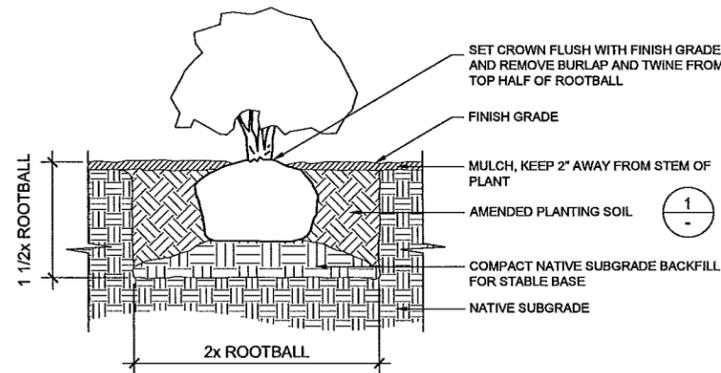
5 TREE PLANTING
NTS DETAIL



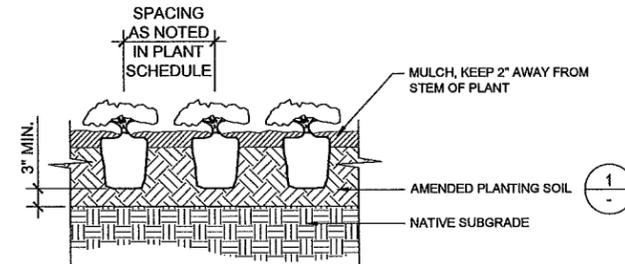
3 PLANT SPACING
NTS DETAIL



1 IMPORTED TOPSOIL APPLICATION
NTS DETAIL



4 SHRUB PLANTING
NTS DETAIL



2 GROUNDCOVER PLANTING
NTS DETAIL

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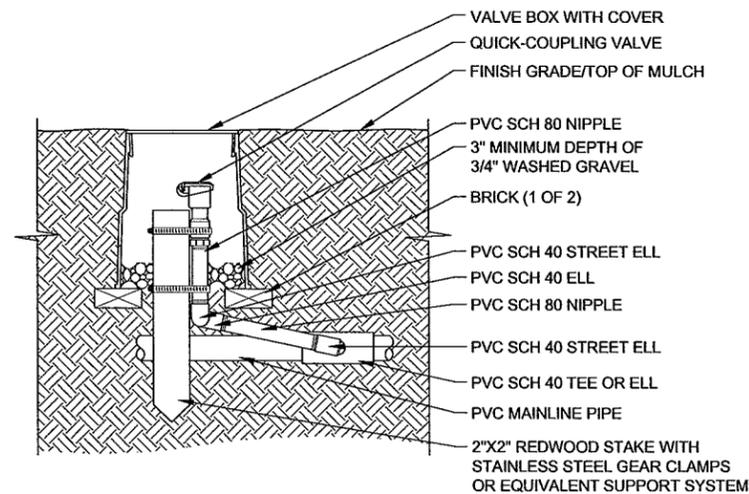
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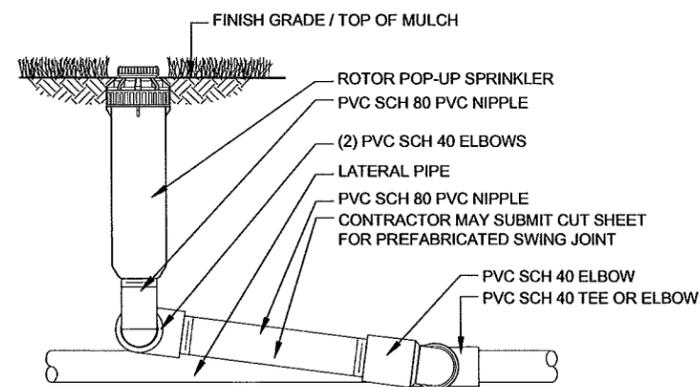


IRRIGATION
DETAILS

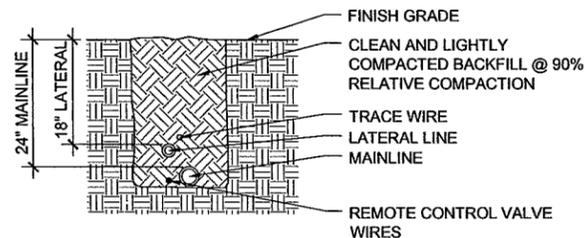
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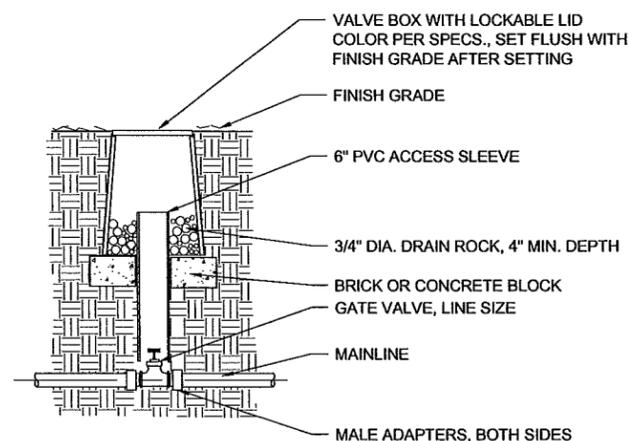
5 QUICK COUPLER
NTS
DETAIL



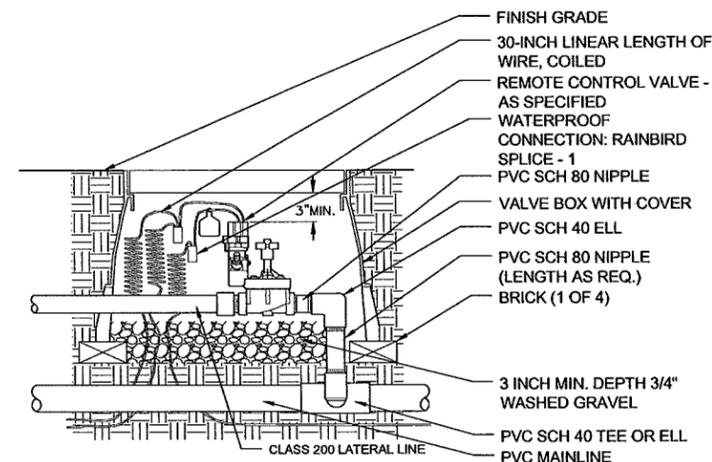
6 POP UP ROTOR
NTS
PLAN



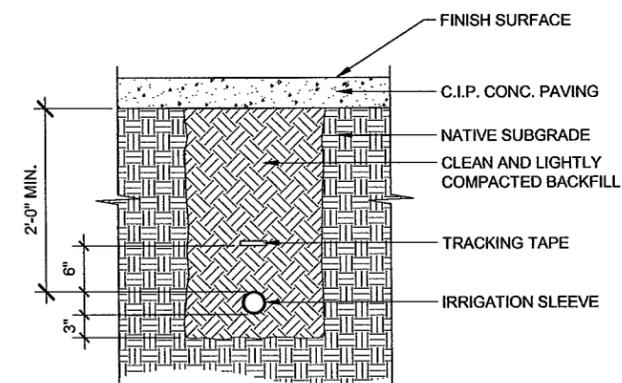
3 IRRIGATION TRENCH
NTS
DETAIL



4 ISOLATION GATE VALVE
NTS
DETAIL

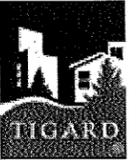


1 REMOTE CONTROL VALVE
NTS
DETAIL



2 IRRIGATION SLEEVE
NTS
DETAIL

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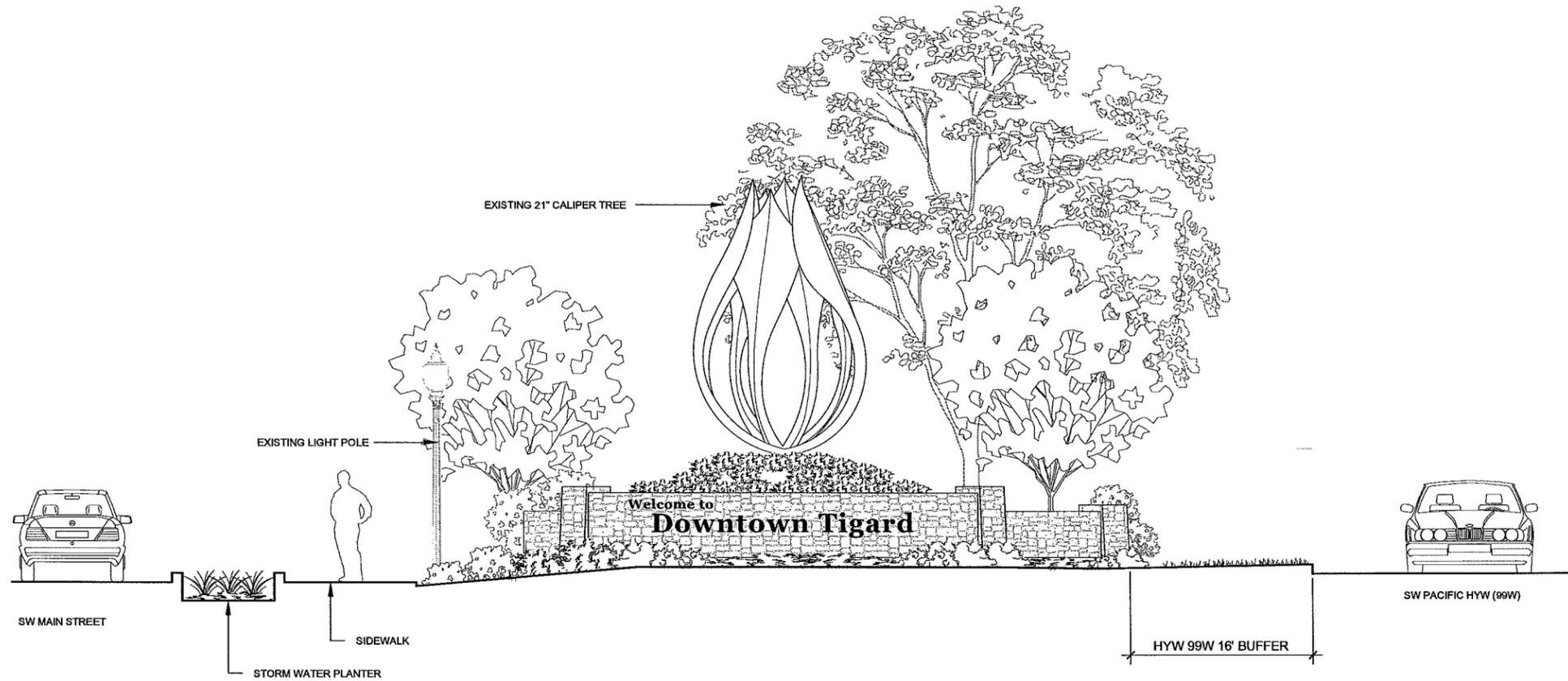
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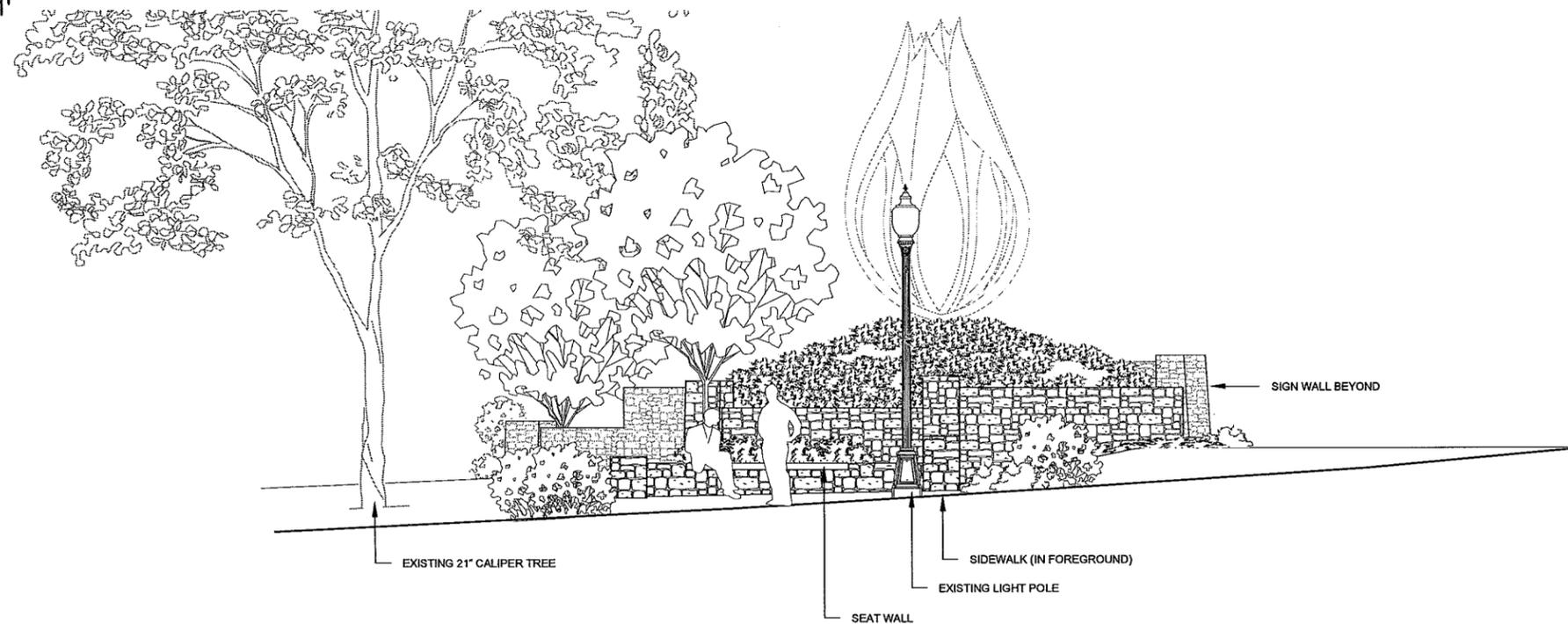
CONSTRUCTION
DETAILS

L7.03



1 NORTH ENTRY- SOUTH ELEVATION CHARACTER SKETCH
1/4" = 1'

ELEVATION



2 NORTH ENTRY-SEATWALL ELEVATION CHARACTER SKETCH
1/4" = 1'

ELEVATION

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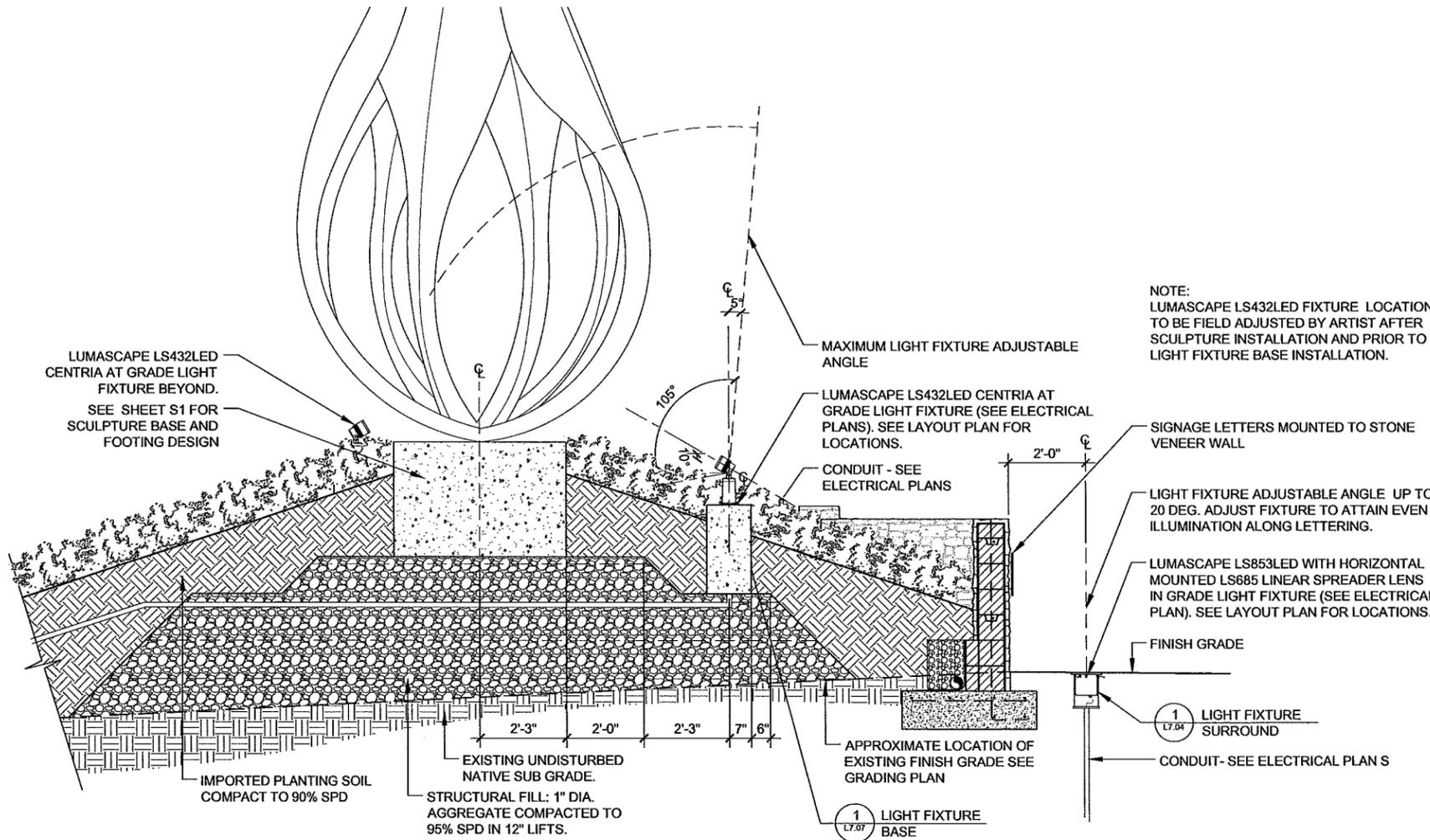
TIGARD ENTRYWAY MONUMENT

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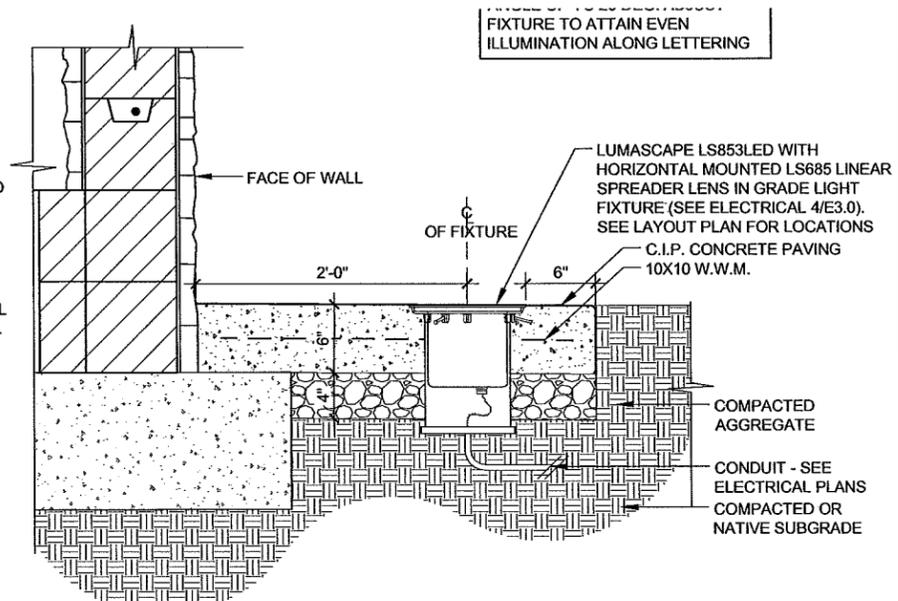
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L7.04



NOTE:
LUMASCAPE LS432LED FIXTURE LOCATION TO BE FIELD ADJUSTED BY ARTIST AFTER SCULPTURE INSTALLATION AND PRIOR TO LIGHT FIXTURE BASE INSTALLATION.

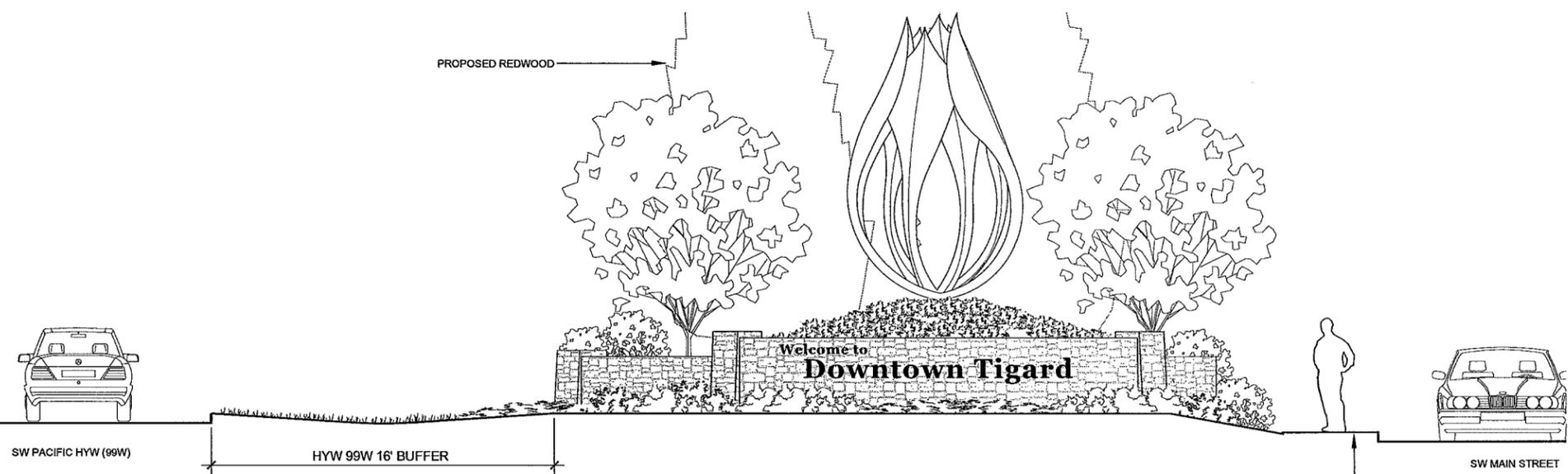


3 SCULPTURE MOUND AND LIGHTING
1/2" = 1'

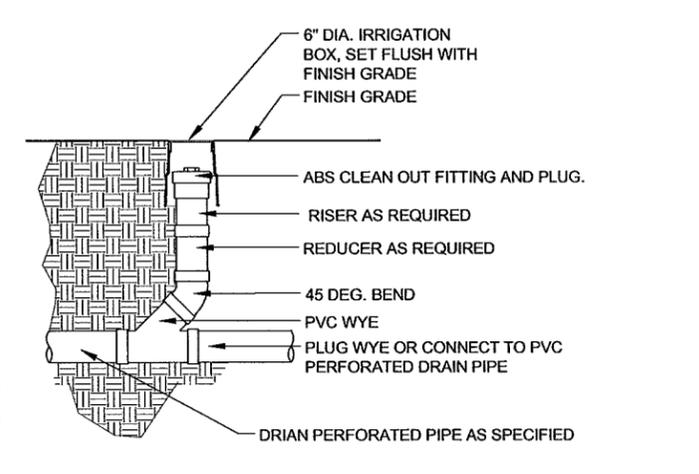
SECTION

1 LIGHT FIXTURE SURROUND
1 1/2" = 1'

SECTION



4 SOUTH ENTRY- NORTH ELEVATION CHARACTER SKETCH
1/4" = 1'
NGVD 29



2 CLEAN OUT
1" = 1'

ELEVATION

SECTION

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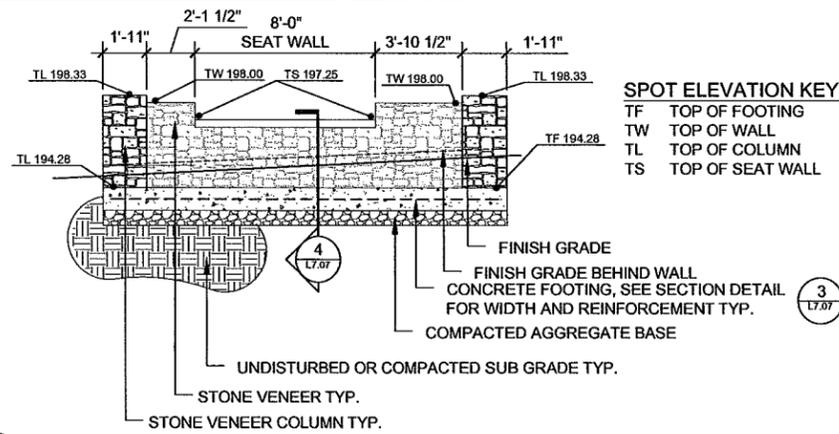
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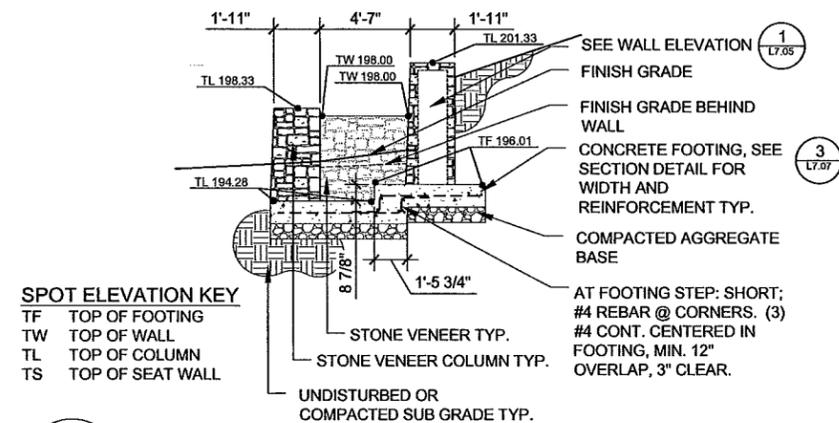


CONSTRUCTION
DETAILS

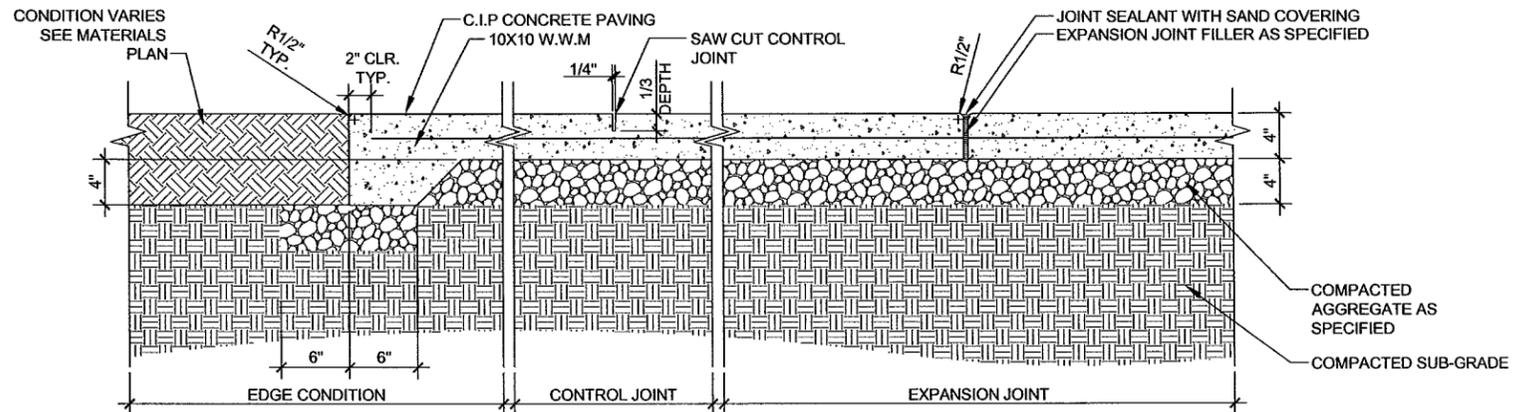
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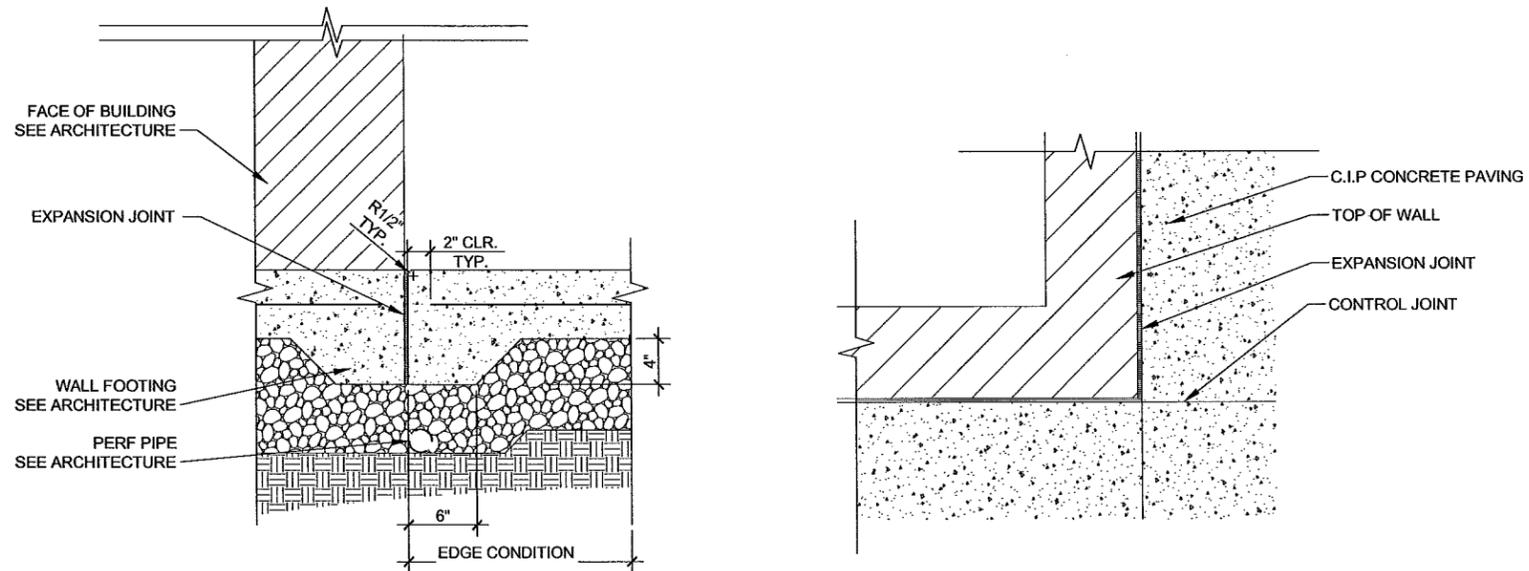
2 NORTH ENTRY SEAT WALL ELEVATION
1/4" = 1' SECTION / ELEVATION



3 NORTH ENTRY CONNECTING WALL
1/4" = 1' SECTION / ELEVATION



- NOTES:
1. SEE CONSTRUCTION PLAN FOR JOINT PLACEMENT.
 2. NO SHINERS ON TOOLED EDGES OR RADII.
 3. EXPANSION JOINTS SHALL BE PLACED WHERE CONCRETE MEETS ALL VERTICAL FACES/ELEMENTS AND AS SHOWN ON PLANS
 4. CONCRETE TO RECEIVE NO COLOR.
 5. LIGHT BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.
 6. EXPANSION JOINTS AT ALL VERTICAL FACES. SEE DETAIL



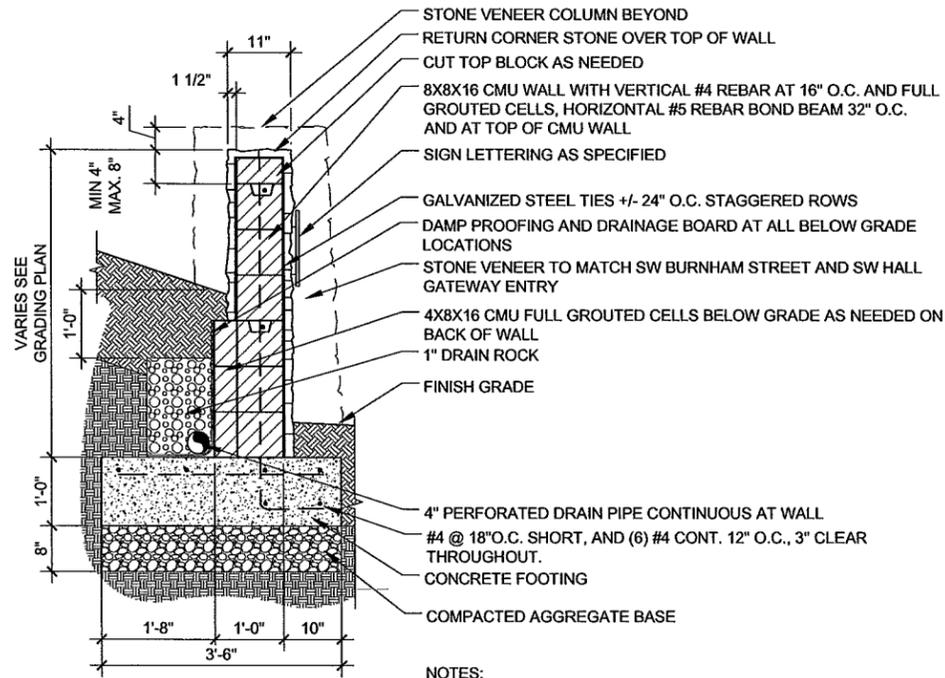
1 SIDEWALK PAVING TYP.
1 1/2" = 1' DETAIL

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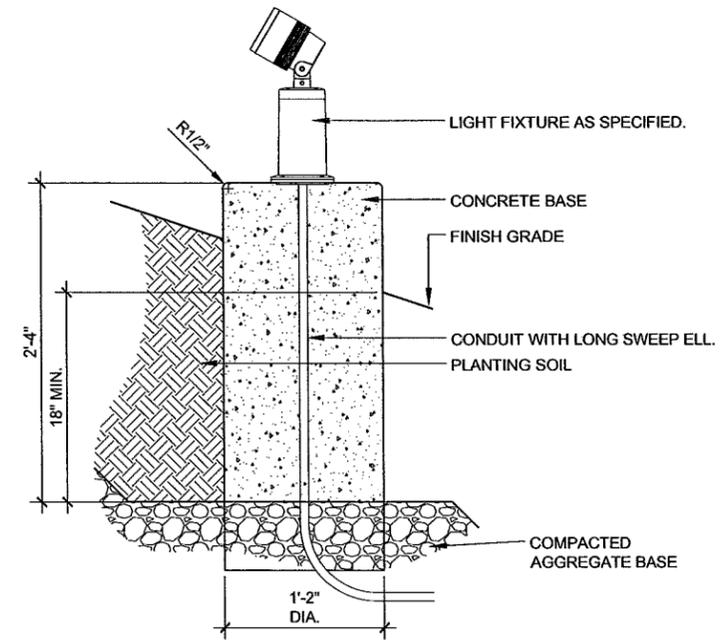
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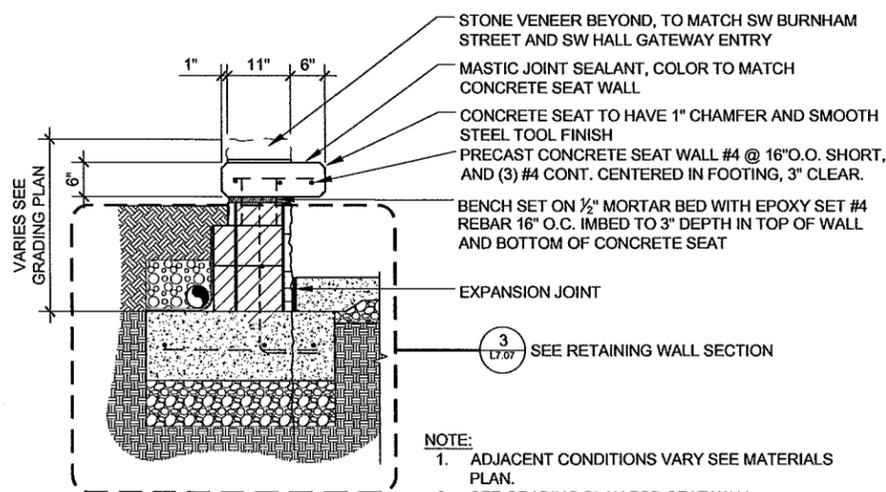


3 RETAINING WALL SECTION
3/4" = 1' SECTION

- NOTES:
 1. ADJACENT CONDITIONS VARY SEE MATERIALS PLAN.
 2. SEE SHEET S1.1 FOR ADDITIONAL REINFORCEMENT AND STRUCTURAL CALCULATIONS.

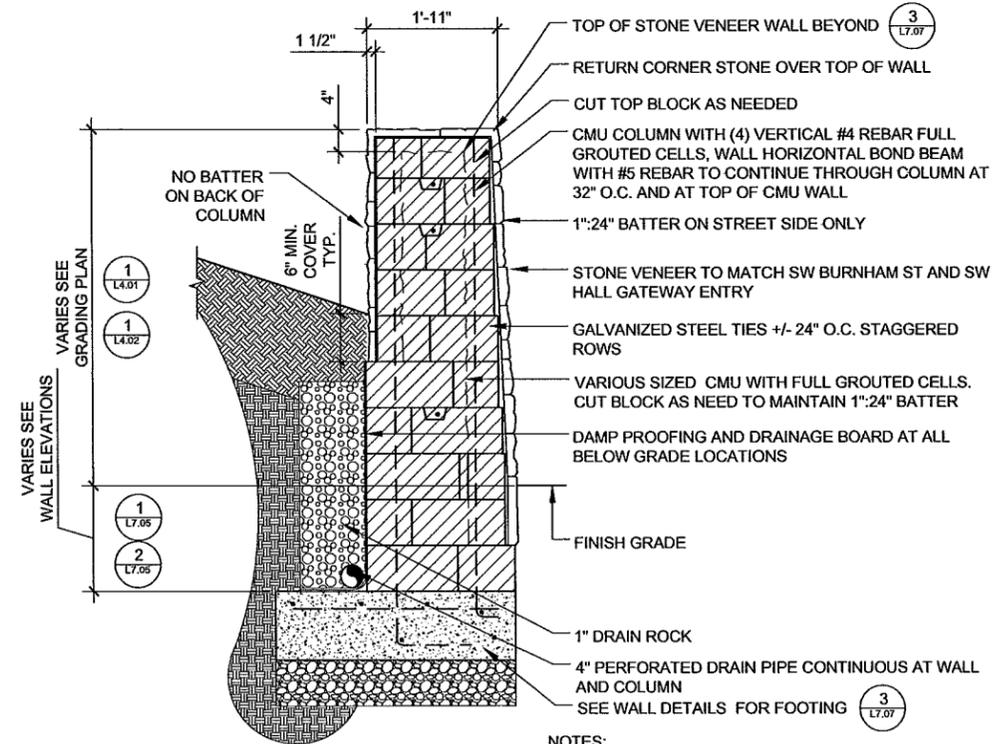


1 LIGHT FIXTURE BASE
1 1/2" = 1' SECTION



4 SEAT WALL
3/4" = 1' SECTION

- NOTE:
 1. ADJACENT CONDITIONS VARY SEE MATERIALS PLAN.
 2. SEE GRADING PLAN FOR SEAT WALL ELEVATIONS



2 STONE VENEER COLUMN
3/4" = 1' SECTION

- NOTES:
 1. ADJACENT CONDITIONS VARY SEE CONSTRUCTION PLAN.
 2. SEE SHEET S1.1 FOR ADDITIONAL REINFORCEMENT AND STRUCTURAL CALCULATIONS.



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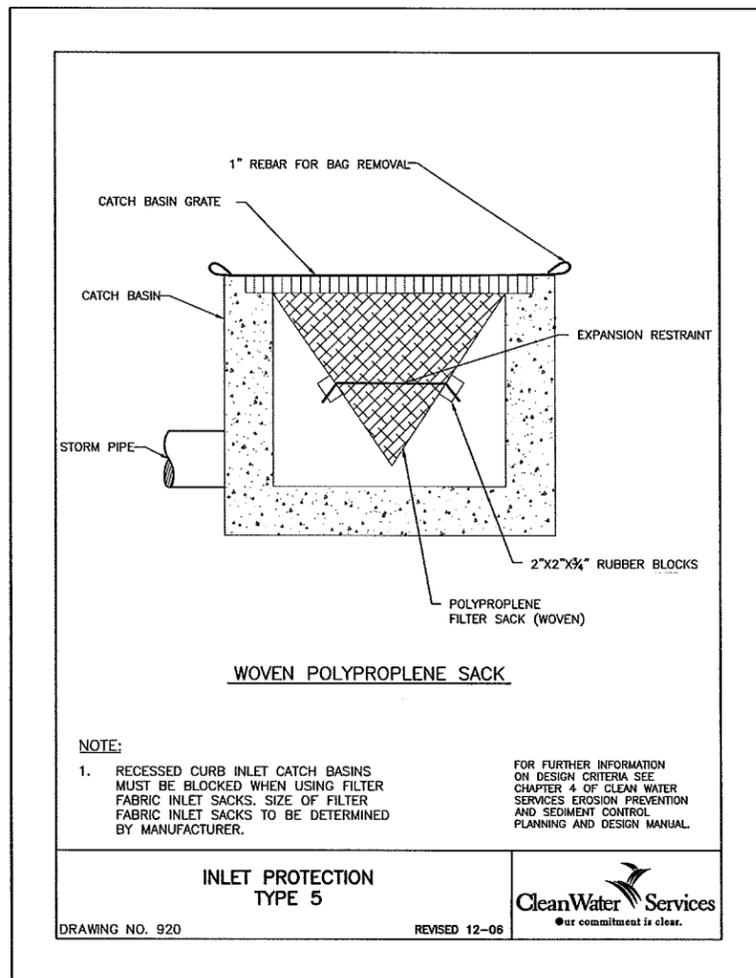
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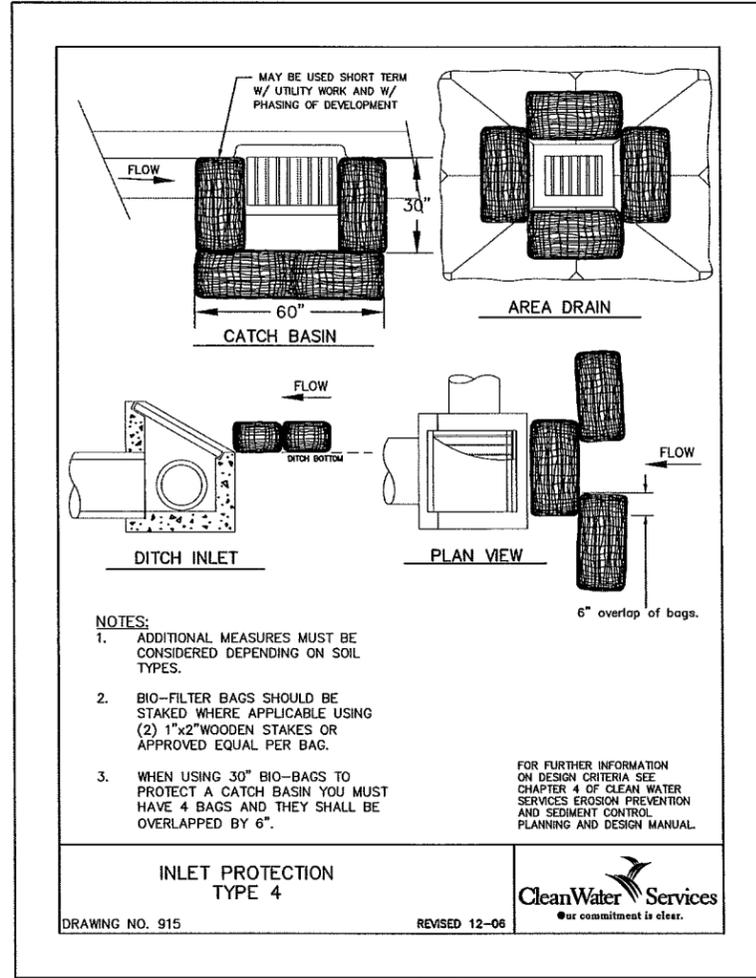
CONSTRUCTION
DETAILS

L7.07

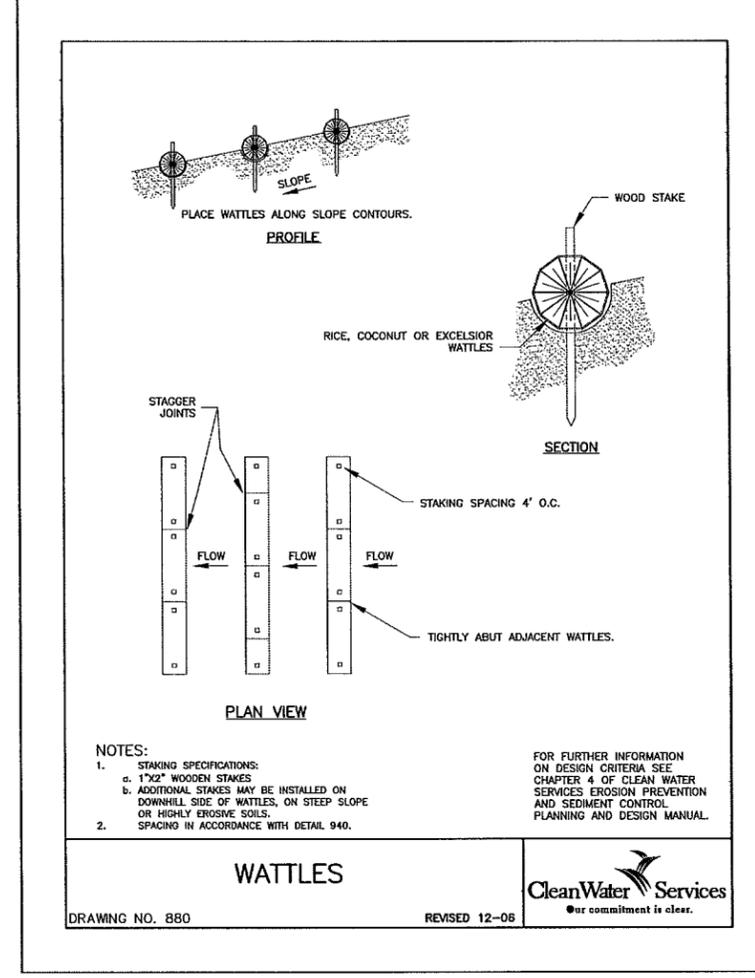
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3 **INLET PROTECTION TYPE 5 (CWS)**
NTS



2 **INLET PROTECTION TYPE 4 (CWS)**
NTS



1 **WATTLE (CWS)**
NTS



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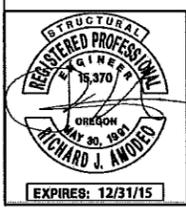
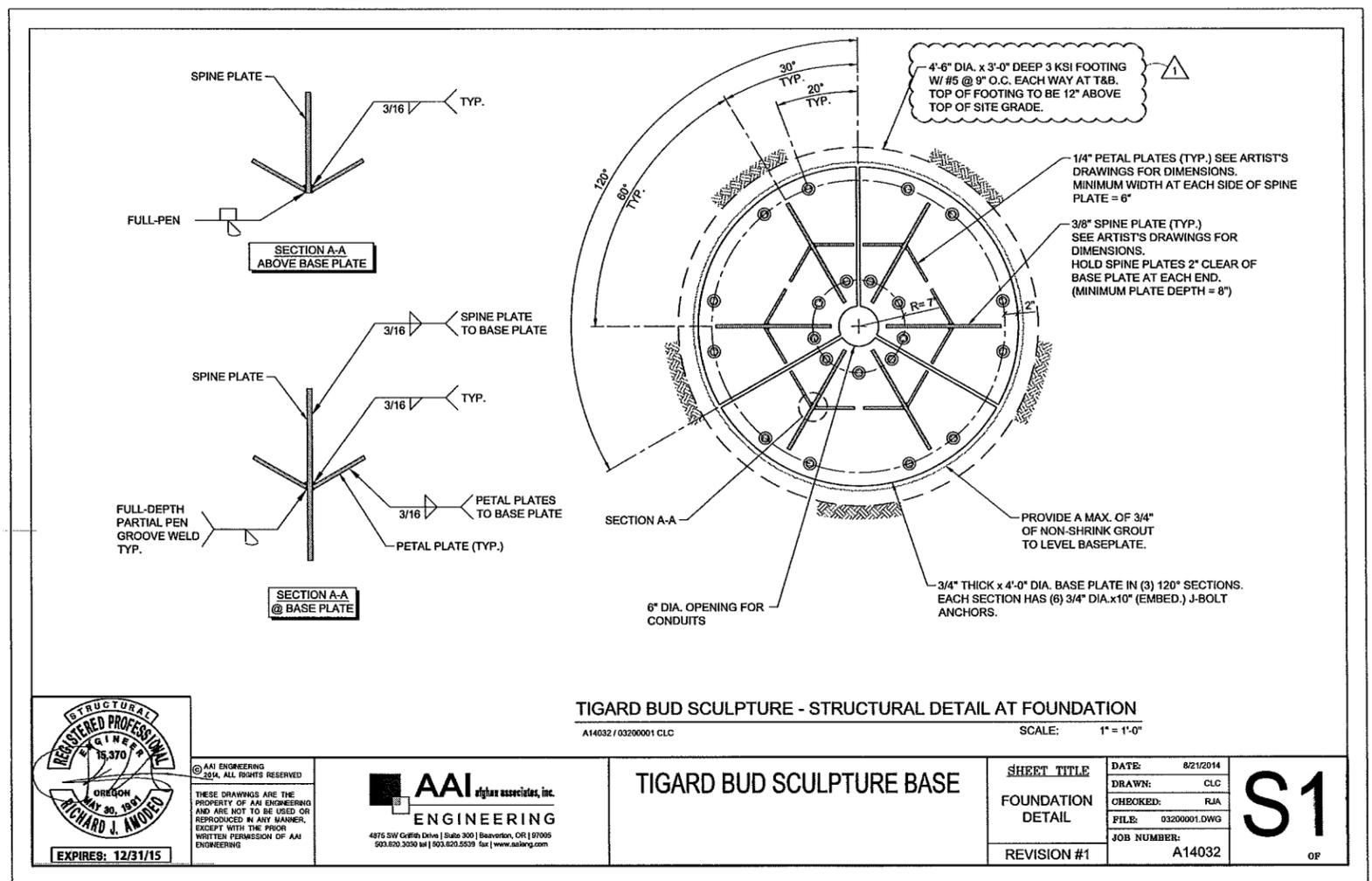
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TIGARD BUD SCULPTURE BASE

SHEET TITLE	DATE: 8/21/2014
FOUNDATION DETAIL	DRAWN: CLC
	CHECKED: RJA
	FILE: 03200001.DWG
REVISION #1	JOB NUMBER: A14032

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OF



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STRUCTURAL
CALCULATIONS

S1

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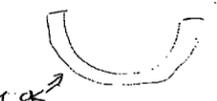
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By: JSSW
Job #: 214217

SOIL BEARING (L=3.5')

$$f = \frac{P}{A} + \frac{M}{S} \leq 1500 \text{ psf}$$

$$f = \frac{110 \times (6.3)}{3.5} + \frac{2572}{\left(\frac{3.5^3}{6}\right)}$$

$$f = 1825 \text{ psf} \text{ CLOSE TO ALLOWED OK}$$



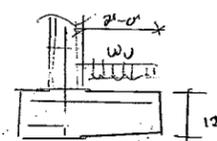
CONCRETE DESIGN

$$W_u = 1.2(110 \times 7) = 924 \text{ lb-ft}$$

$$M_u = W_u \frac{L^2}{8} = 1848 = 22 \text{ k-ft}$$

$$\phi M_n = 0.9 (W_u) \left(\frac{d}{2}\right) A_s \geq 22$$

$$A_s \geq 0.045 \text{ in}^2/\text{ft}$$



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STRUCTURAL CALCULATIONS
FOR
ENTRYWAY RETAINING WALL

DESIGN PARAMETERS

$$f'_c = 3000 \text{ psi}$$

$$f_m = 1500 \text{ psi}$$

$$\text{ALLOWABLE SOIL BEARING} = 1,500 \text{ PSF}$$

$$\text{ACTIVE SOIL PRESSURE} = 45 \text{ k/ft} @ 3:1 \text{ SLOPE}$$



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Page: 4
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CMU DESIGN LRFD

$$f_m = 1500 \text{ psi}$$

$$M_u = \frac{1.0 \cdot A_s \cdot L^3}{6} = 2,592 \text{ lb-ft} = 3 \text{ k}$$

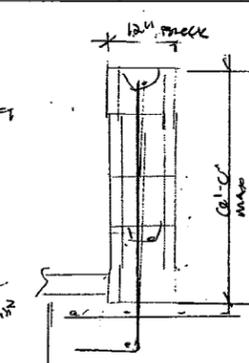
$$\phi M_n = 0.8 A_s f_y \left(\frac{d}{2}\right) \geq M_u$$

$$A_s \geq 0.09 \text{ in}^2/\text{ft} \Rightarrow \text{USE \#4 @ 10" OC}$$

$$\text{CHECK } a \quad A_s = 0.15 \text{ in}^2/\text{ft}$$

$$a = \frac{A_s f_y}{0.80 f'_m b} = \frac{(0.15)(60,000)}{0.80(1500)(10)} = 0.17'$$

$$\left(\frac{d-a}{2}\right) = 5.78' > 6.5' \text{ OK}$$

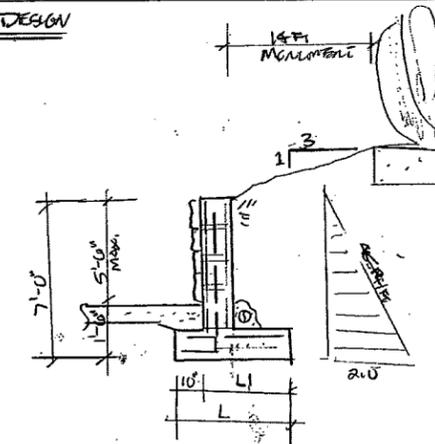


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Job #: 214217

RETAINING WALL DESIGN



OVERTURNING

$$M_o = \frac{A_s L^3}{6} = 2572 \text{ lb-ft}$$

$$M_R = 1100 \text{ psf} (7 \text{ ft}) (L - 0.835) \left(\frac{L - 0.835}{2} + 0.835\right) \geq F.S. \cdot M_o$$

L	M _R	F.S.
3.5	4448	1.72

Grummel Engineering LLC - 79 SW Oak Street, Portland, OR 97204 - Phone: (503) 244-7014



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Downtown Redevelopment

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Ph: 503-718-2466

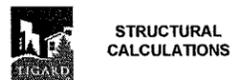
REVISIONS / RELEASES
NO. DATE DESCRIPTION



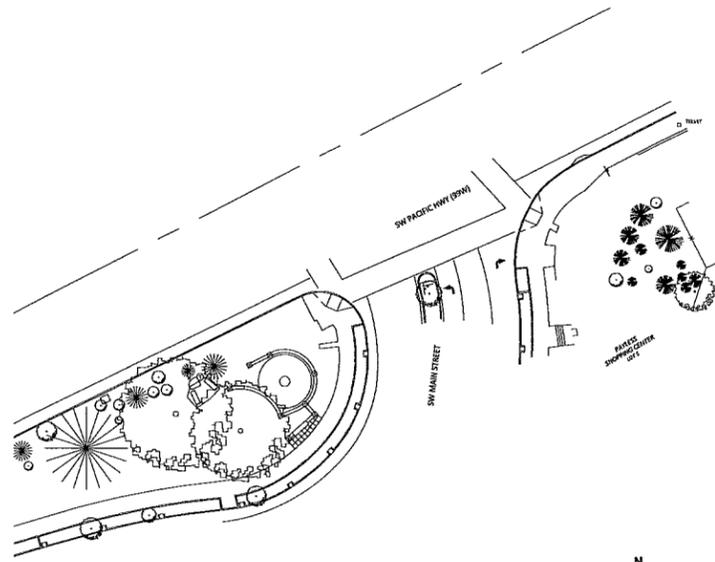
TIGARD ENTRYWAY
MONUMENT

FOR CONSTRUCTION

DESIGNED BY: KLA
DRAWN BY: RK
CHECKED BY: SK
APPROVED BY: ---
PROJECT NO: 1302
DATE: 10-March-2015



S1.1



1 NORTH ENTRY - OVERALL PLAN
 SCALE: 1"=40'-0"
 0 20' 40' 80'

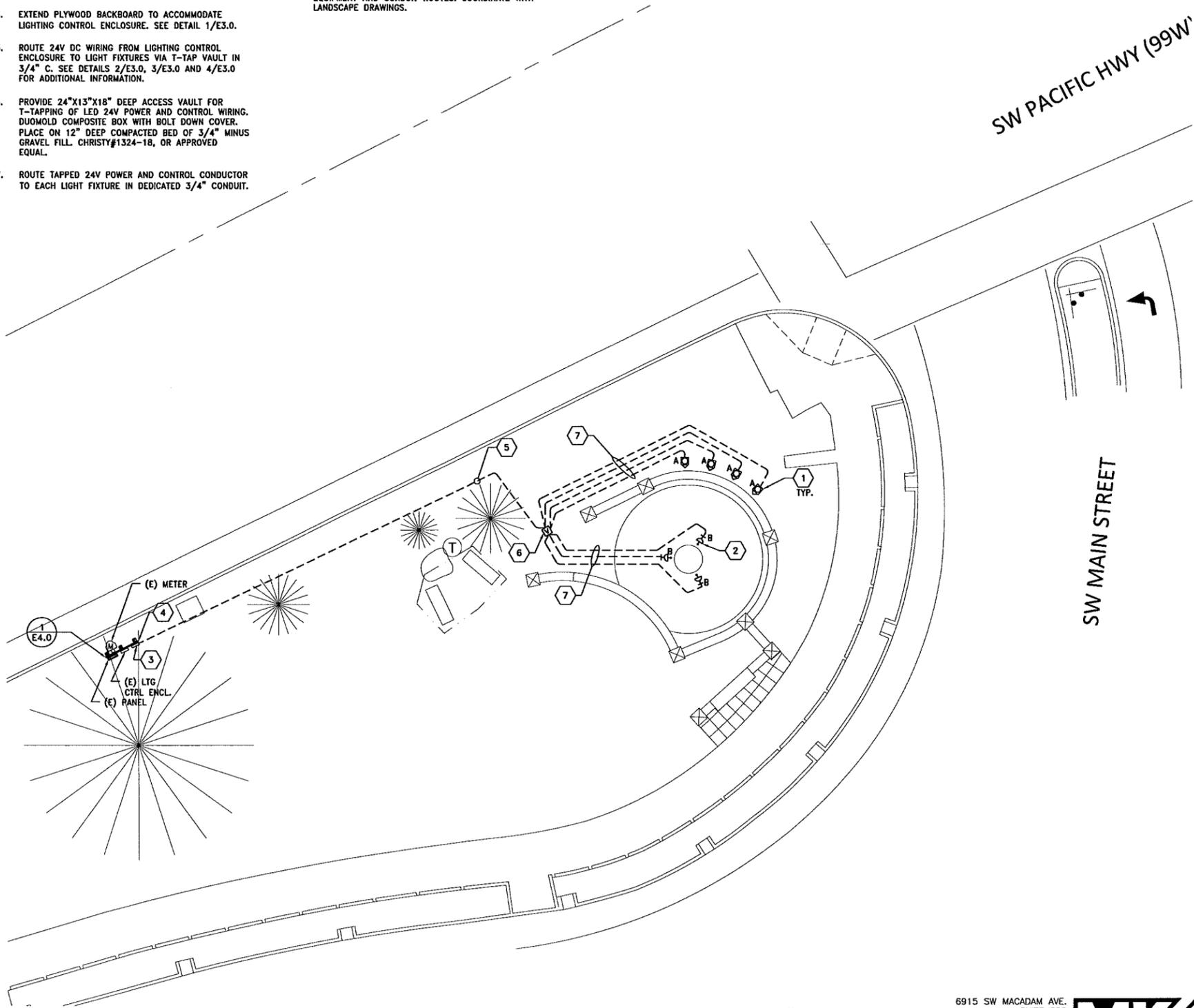
LIGHTING SCHEDULE	
A	<p>DESCRIPTION: 7" DIA (NOMINAL) IN-GRADE LED FLOOD LIGHT FIXTURE, 316 MARINE GRADE STAINLESS STEEL CONSTRUCTION, IP88 RATED, LED MODULE CAPABLE OF 360 DEG ROTATION AND UP TO 20 DEG HORIZONTAL TILT. ARRA CERTIFIED.</p> <p>LENS: CLEAR, STATIC LOAD RATED LENS, IK10 IMPACT RATED. PROVIDE WITH LINEAR SPREAD LENS AND WIDE ANGLE WALL WASH LENS ACCESSORIES.</p> <p>REFLECTOR: INTERNAL LINEAR SPREAD LENS AND WALL WASH LENS IN-GRADE</p> <p>MOUNTING: IN-GRADE</p> <p>DRIVER: 120V SOLID STATE LED DRIVER.</p> <p>LAMPING: (1) 20W WHITE LED, 4,300K</p> <p>INPUT POWER: 20 VA</p> <p>NOTES: PROVIDE WITH CONCRETE POUR PRE-INSTALLATION JUNCTION BOX.</p> <p>MANUFACTURERS: LUMASCAPE #LS83LED-20WH-A-N-82-LH-29-Q-09 LENS ACCESSORY: LS665 & LS699 PRE-INSTALLATION J-BOX: LS6052-K-SP</p>
B	<p>DESCRIPTION: 4" DIA (NOMINAL) PEDISTAL MOUNTED LED FLOOD LIGHT FIXTURE, CAST ALUMINUM HOUSING, 105 DEG VERTICAL X 365 DEG ROTATION ADJUSTABILITY. 8" MOUNTING PEDISTAL, EXTERNAL GLARE SHIELD. FINISH COLOR AS SELECTED BY OWNER.</p> <p>LENS: CLEAR TEMPERED GLASS</p> <p>REFLECTOR: ADJUSTABLE LINEAR HORIZONTAL SPREAD OPTICAL SYSTEM</p> <p>MOUNTING: PEDISTAL MOUNT</p> <p>BALLAST: 120V SOLID STATE LED DRIVER.</p> <p>LAMPING: (1) 19W RGB LED</p> <p>INPUT POWER: 19 VA</p> <p>NOTES: PROVIDE IN-GRADE CONCRETE POUR 4" ROUND J-BOX. PROVIDE WITH DMX-PWM CONTROLLER TRANSLATOR AND DMX 4-BUTTON CONTROLLER.</p> <p>MANUFACTURERS: LUMASCAPE #LS432LED-19M4-LH-PWM</p>

KEYED NOTES:

1. IN-GROUND LIGHT FIXTURE AT 2'-0" FROM WALL TO EDGE OF FIXTURE. AIM 15° TOWARDS WALL.
2. STANCTION MOUNT LIGHT FIXTURE AT 44" FROM SCULPTURE CENTER (AS MEASURED HORIZONTALLY).
3. LIGHTING CONTROL ENCLOSURE FOR SCULPTURE AND SIGN LIGHTING. SEE DETAIL 2/E3.0
4. EXTEND PLYWOOD BACKBOARD TO ACCOMMODATE LIGHTING CONTROL ENCLOSURE. SEE DETAIL 1/E3.0.
5. ROUTE 24V DC WIRING FROM LIGHTING CONTROL ENCLOSURE TO LIGHT FIXTURES VIA T-TAP VAULT IN 3/4" C. SEE DETAILS 2/E3.0, 3/E3.0 AND 4/E3.0 FOR ADDITIONAL INFORMATION.
6. PROVIDE 24"x13"x18" DEEP ACCESS VAULT FOR T-TAPPING OF LED 24V POWER AND CONTROL WIRING. DUOMOLD COMPOSITE BOX WITH BOLT DOWN COVER. PLACE ON 12" DEEP COMPACTED BED OF 3/4" MINUS GRAVEL FILL. CHRISTY#1324-18, OR APPROVED EQUAL.
7. ROUTE TAPPED 24V POWER AND CONTROL CONDUCTOR TO EACH LIGHT FIXTURE IN DEDICATED 3/4" CONDUIT.

GENERAL NOTES:

1. REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATION OF LIGHT FIXTURES.
2. COORDINATE CONDUIT ROUTE WITH LANDSCAPE ARCHITECT AND OWNER.
3. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE USED TO DETERMINE EXACT PLACEMENT OF EQUIPMENT AND CONDUIT ROUTES. COORDINATE WITH LANDSCAPE DRAWINGS.



2 NORTH ENTRY - ENLARGED PLAN
 SCALE: 1"=10'-0"
 0 5' 10' 20'

NGVD 29

THIS DRAWING IS FULL SIZE WHEN 22" X 34" OR IS REDUCED TO HALF SCALE WHEN 11" X 17"

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MKE
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 CONSULTING ENGINEERS
 MECHANICAL AND ELECTRICAL SYSTEMS



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 Downtown Redevelopment

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REVISIONS / RELEASES
 NO. DATE DESCRIPTION



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TIGARD ENTRYWAY
 MONUMENT

FOR CONSTRUCTION

DESIGNED BY: MKE
 DRAWN BY: DD
 CHECKED BY: MG
 APPROVED BY: SL
 PROJECT NO: 1302
 DATE: 10-March-2015

TIGARD LIGHTING PLAN-
 NORTH

E2.0



City of Tigard
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TIGARD ENTRYWAY MONUMENT

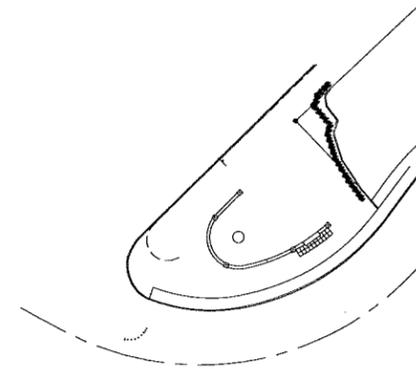
FOR CONSTRUCTION

DESIGNED BY: MKE
DRAWN BY: DD
CHECKED BY: MG
APPROVED BY: SL
PROJECT NO: 1302
DATE: 10-March-2015



LIGHTING PLAN-
SOUTH

E2.1



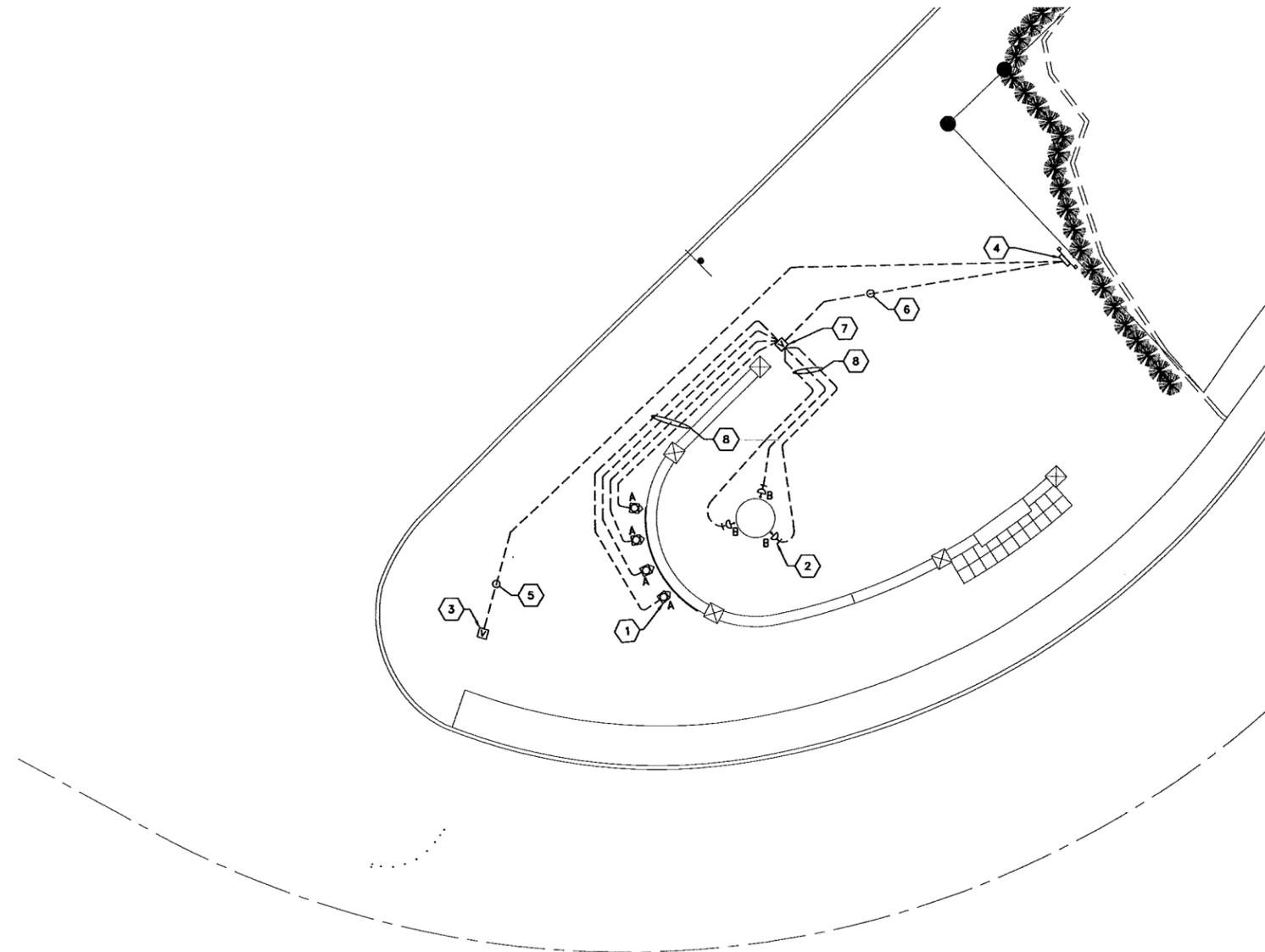
1 SOUTH ENTRY - OVERALL PLAN
E2.1 SCALE: 1"=40'-0"
0 20' 40' 80'

KEYED NOTES:

1. IN-GROUND LIGHT FIXTURE AT 1'-0" FROM WALL TO EDGE OF FIXTURE. AIM 10° TOWARDS WALL.
2. STANCTION MOUNT LIGHT FIXTURE AT 44" FROM SCULPTURE CENTER (AS MEASURED HORIZONTALLY).
3. EXISTING CITY DEDICATED CIRCUIT VAULT WITH SPARE (5) #4 CONDUCTORS FED FROM EXISTING PHOTOCELL CONTROLLED 30A/1P CIRCUIT LOCATED IN EXISTING SERVICE PANEL LOCATED ALONG THE FAND CREEK TRAIL THIS SIDE OF MAIN STREET.
4. LIGHTING CONTROL ENCLOSURE MOUNTED ON PLYWOOD BACKBOARD. SEE DETAIL 1/E3.0.
5. INTERCEPT AND EXTEND (2) #4, (1) #4 GND TO LIGHTING CONTROL ENCLOSURE. TERMINATE ON 20A/1P FUSE. SEE DETAIL 2/E3.0.
6. ROUTE 24V DC WIRING FROM LIGHTING CONTROL ENCLOSURE TO LIGHT FIXTURES VIA T-TAP VAULT IN 3/4" C. SEE DETAILS 2/E3.0, 3/E3.0 AND 4/E3.0 FOR ADDITIONAL INFORMATION.
7. PROVIDE 24"x13"x18" DEEP ACCESS VAULT FOR T-TAPPING OF LED 24V POWER AND CONTROL WIRING. DIUMOLD COMPOSITE BOX WITH BOLT DOWN COVER. PLACE ON 12" DEEP COMPACTED BED OF 3/4" MINUS GRAVEL FILL. CHRISTY#1324-18, OR APPROVED EQUAL.
8. ROUTE TAPPED 24V POWER AND CONTROL CONDUCTOR TO EACH LIGHT FIXTURE IN DEDICATED 3/4" CONDUIT.

GENERAL NOTES:

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2. COORDINATE CONDUIT ROUTE WITH LANDSCAPE ARCHITECT AND OWNER.
3. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE USED TO DETERMINE EXACT PLACEMENT OF EQUIPMENT AND CONDUIT ROUTES. COORDINATE WITH LANDSCAPE DRAWINGS.



2 SOUTH ENTRY - ENLARGED PLAN
E2.1 SCALE: 1"=10'-0"
0 5' 10' 20'

NGVD 29

THIS DRAWING IS FULL SIZE WHEN 22" X 34" OR IS REDUCED TO HALF SCALE WHEN 11" X 17"

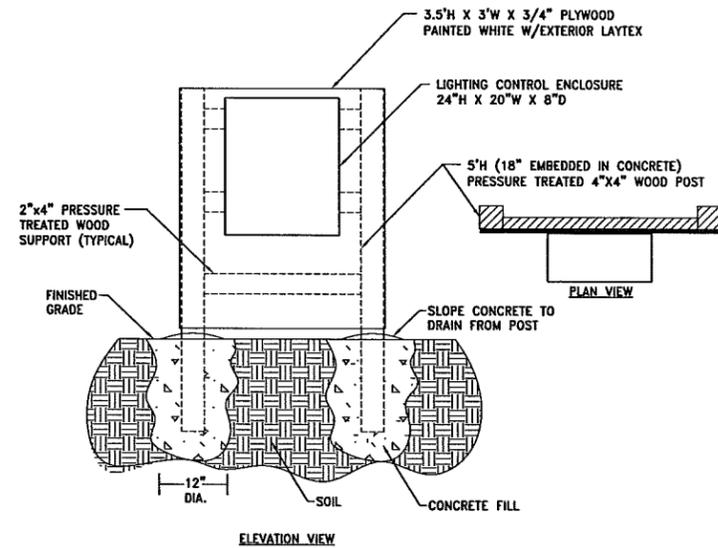
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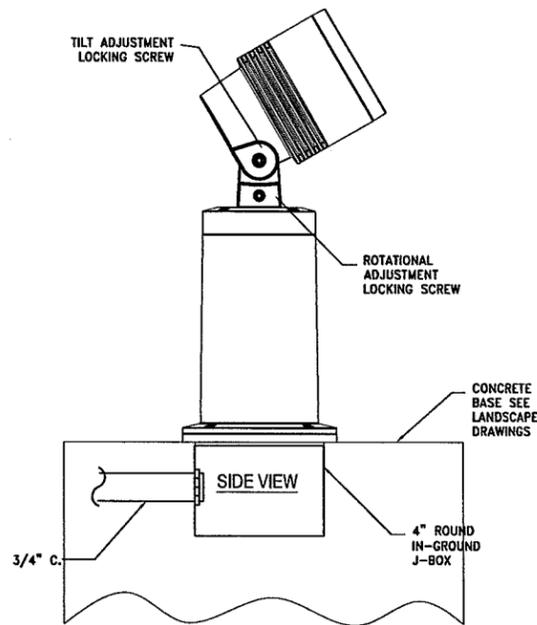
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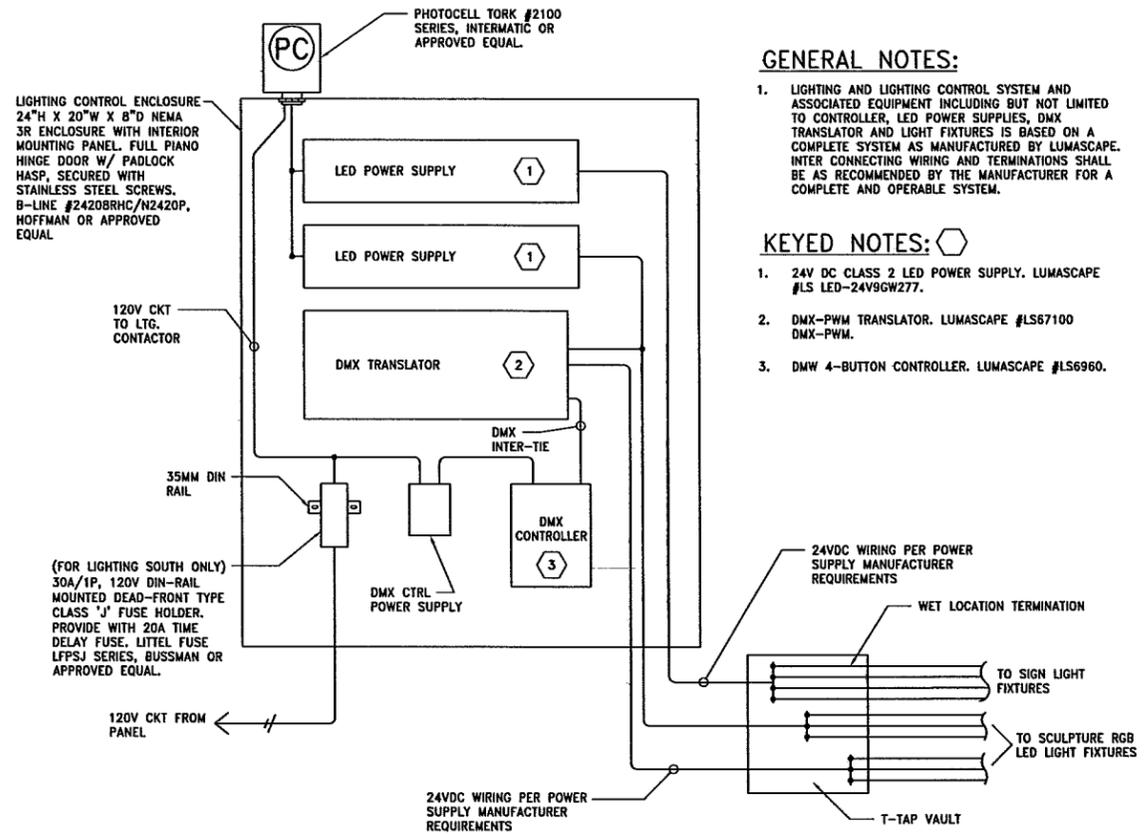
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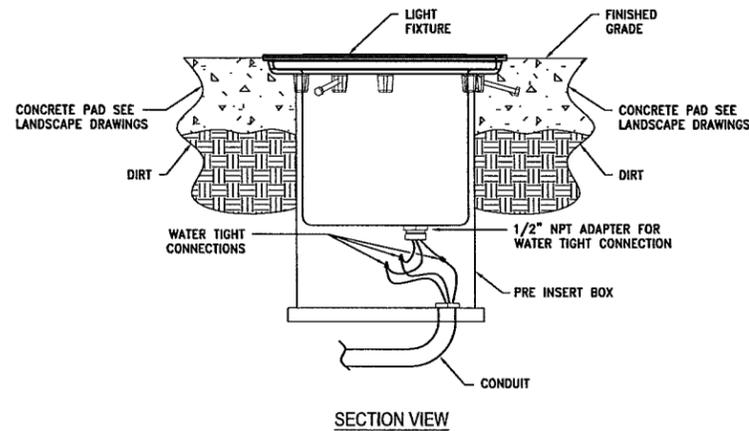
1 LIGHTING CONTROL ENCLOSURE SUPPORT NORTH & SOUTH
E3.0 SCALE: N.T.S.



3 SCULPTURE LIGHT FIXTURE MOUNTING DETAIL
E3.0 SCALE: N.T.S.



2 LIGHTING NORTH & SOUTH CONTROL WIRING/ENCLOSURE DETAIL
E3.0 SCALE: N.T.S.



4 SIGN LIGHT FIXTURE MOUNTING DETAIL
E3.0 SCALE: N.T.S.

GENERAL NOTES:

1. LIGHTING AND LIGHTING CONTROL SYSTEM AND ASSOCIATED EQUIPMENT INCLUDING BUT NOT LIMITED TO CONTROLLER, LED POWER SUPPLIES, DMX TRANSLATOR AND LIGHT FIXTURES IS BASED ON A COMPLETE SYSTEM AS MANUFACTURED BY LUMASCAPE. INTER CONNECTING WIRING AND TERMINATIONS SHALL BE AS RECOMMENDED BY THE MANUFACTURER FOR A COMPLETE AND OPERABLE SYSTEM.

KEYED NOTES:

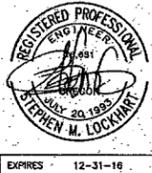
1. 24V DC CLASS 2 LED POWER SUPPLY. LUMASCAPE #LS LED-24V9GW277.
2. DMX-PWM TRANSLATOR. LUMASCAPE #LS67100 DMX-PWM.
3. DMX 4-BUTTON CONTROLLER. LUMASCAPE #LS6960.



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TIGARD ENTRYWAY
MONUMENT

FOR CONSTRUCTION

DESIGNED BY: MKE
DRAWN BY: DD
CHECKED BY: MG
APPROVED BY: SL
PROJECT NO: 1302
DATE: 10-March-2015

ELECTRICAL
DETAILS

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E3.0



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EXPIRES 12-31-16

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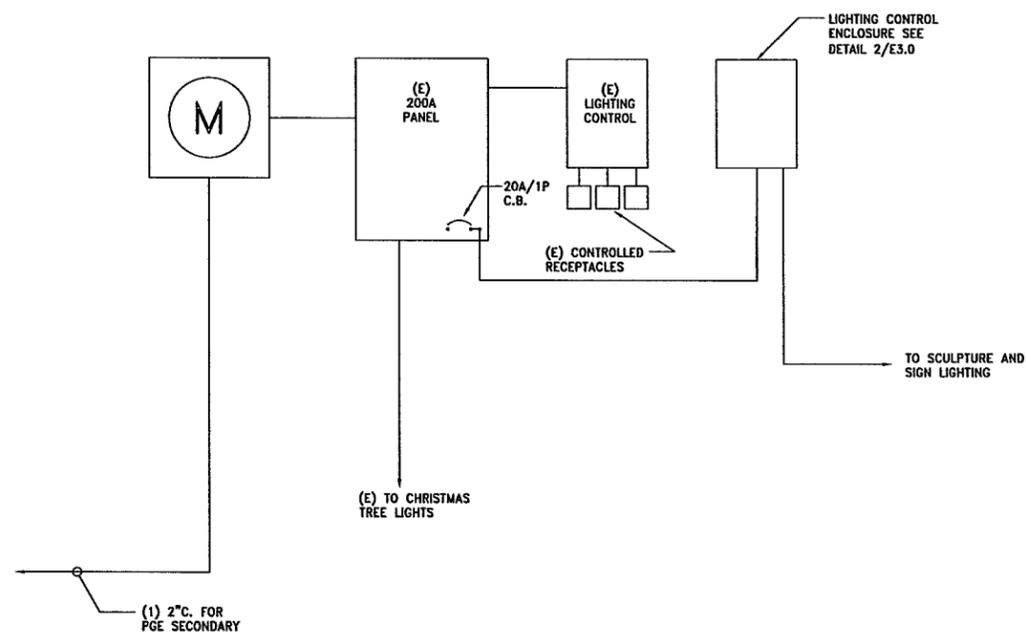
TIGARD ENTRYWAY MONUMENT

FOR CONSTRUCTION

DESIGNED BY: MKE
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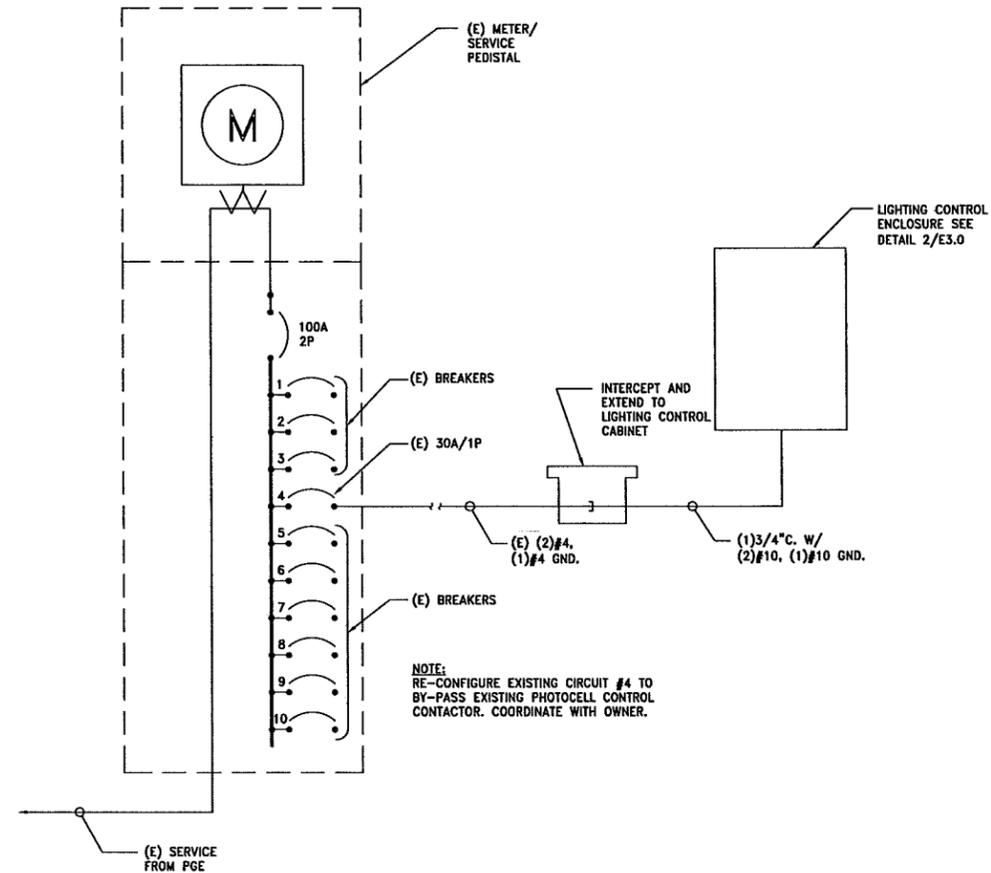
ELECTRICAL ONE-LINE DIAGRAMS

E4.0



1 ELECTRICAL ONE-LINE DIAGRAM NORTH
E4.0 SCALE: 120/240V, 1Ø, 3W

PANEL SCHEDULE											
PANEL: (E) PANEL NORTH			MKE & ASSOCIATES, INC.			MOUNTING: SURFACE			BUS/MAIN: 200A BUS		
FED BY: UTILITY			VOLTS: 120/240			PHASE: 1			WIRE: 200A MAIN C.B.		
LOC: NORTH MAIN ST.			NO. 1			NO. 2			NO. 3		
C	DESCRIPTION	VA	AMP	No.	A	C	No.	AMP	VA	DESCRIPTION	C
5	CONTACTOR ON BOARD	100	20/1	1	*	2	20/1	1500	RECEPTACLE BY PNL	2	
5	CONTACTOR ON BOARD	100	20/1	3	*	4	20/1	1500	RECEPTACLE BY PNL	2	
5	CONTACTOR ON BOARD	100	20/1	5	*	6	20/1	1500	RECEPTACLE BY PNL	2	
5	CONTACTOR ON BOARD	100	20/1	7	*	8	20/1	1500	RECEPTACLE BY PNL	2	
2	RECEPTACLE ON BOARD	360	20/1	9	*	10	20/1	1500	RECEPTACLE BY PNL	2	
	SPACE			11	*	12	20/1	1500	RECEPTACLE BY PNL	2	
	SPACE			13	*	14	15/1	50	LIGHT SENSOR	5	
	SPACE			15	*	16	15/1	120	IRRIGATION PANEL	5	
	SPACE			17	*	18	20/1	200	SCULPTURE LTG & CTRL **	5	
	SPACE			19	*	20			SPACE		
LOAD CODE (VA)		PH A	PH B	TOTAL (VA)		FACTOR		CODE LOAD			
1. LIGHTS:	0	0	0	0	1.25	0					
2. RECEPTACLE:	4,980	4,500	9,360		*	9,360					
3. HEATING:	0	0	0	1.00	0						
4. KITCHEN:	0	0	0	1.00	0						
5. EQUIPMENT:	450	320	770	1.00	770						
6. MOTORS:	0	0	0	**	0						
7. MISC:	0	0	0	1.00	0						
TOTAL (VA):	5,310	4,820	10,130			10,130					
LARGEST MOTOR:	0 VA	TOTAL LOAD:		42 A	CODE DEMAND:		42 A				
# KITCHEN EQUIPMENT	0										
NOTES * NEW LOAD				* FIRST 10 KVA + 50% OF THE BALANCE				** 125% OF THE LARGEST MOTOR + THE BALANCE			
				+ PROVIDE NEW CIRCUIT BREAKER							



2 ELECTRICAL ONE-LINE DIAGRAM SOUTH
E4.0 SCALE: 120/240V, 1Ø, 3W

PANEL SCHEDULE											
PANEL: (E) SERVICE PEDISTAL - SOUTH			MKE & ASSOCIATES, INC.			MOUNTING: PEDISTAL			BUS/MAIN: 100A BUS		
FED BY: UTILITY			VOLTS: 120/240			PHASE: 1			WIRE: 100A MAIN C.B.		
LOC: FANNO CREEK TRAIL			NO. 1			NO. 2			NO. 3		
C	DESCRIPTION	VA	AMP	No.	A	C	No.	AMP	VA	DESCRIPTION	C
1	TO BOLLARDS	720	30/1	1	*	2	30/1	720	TO WALL MOUNT LUMINAIRE	1	
5	EXISTING LOAD	2500	30/1	3	*	4	30/1	200	SCULPTURE LIGHTING *	1	
	SPARE		30/1	5	*	6	30/1		SPARE		
2	GFI RECEPTACLES	2000	30/1	7	*	8	30/1	1000	GFI RECEPTACLES	2	
5	WALL MTD CTRL CABINET	500	30/1	9	*	10	20/1	120	IRRIGATION CONTROL	5	
LOAD CODE (VA)		PH A	PH B	TOTAL (VA)		FACTOR		CODE LOAD			
1. LIGHTS:	1,440	200	1,640	1.25	2,050						
2. RECEPTACLE:	0	3,000	3,000	*	3,000						
3. HEATING:	0	0	0	1.00	0						
4. KITCHEN:	0	0	0	1.00	0						
5. EQUIPMENT:	620	2,500	3,120	1.00	3,120						
6. MOTORS:	0	0	0	**	0						
7. MISC:	0	0	0	1.00	0						
TOTAL (VA):	2,060	5,700	7,760			7,760		8,170			
LARGEST MOTOR:	0 VA	TOTAL LOAD:		32 A	CODE DEMAND:		34 A				
# KITCHEN EQUIPMENT	0										
NOTES * NEW LOAD				* FIRST 10 KVA + 50% OF THE BALANCE				** 125% OF THE LARGEST MOTOR + THE BALANCE			

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NGVD 29

THIS DRAWING IS FULL SIZE WHEN 22" X 34" OR IS REDUCED TO HALF SCALE WHEN 11" X 17"

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