CITY OF TIGARD

BID SET

DIRKSEN NATURE PARK IMPROVEMENTS - PHASE I

TIGARD, OREGON
AUGUST 2015

OWNER

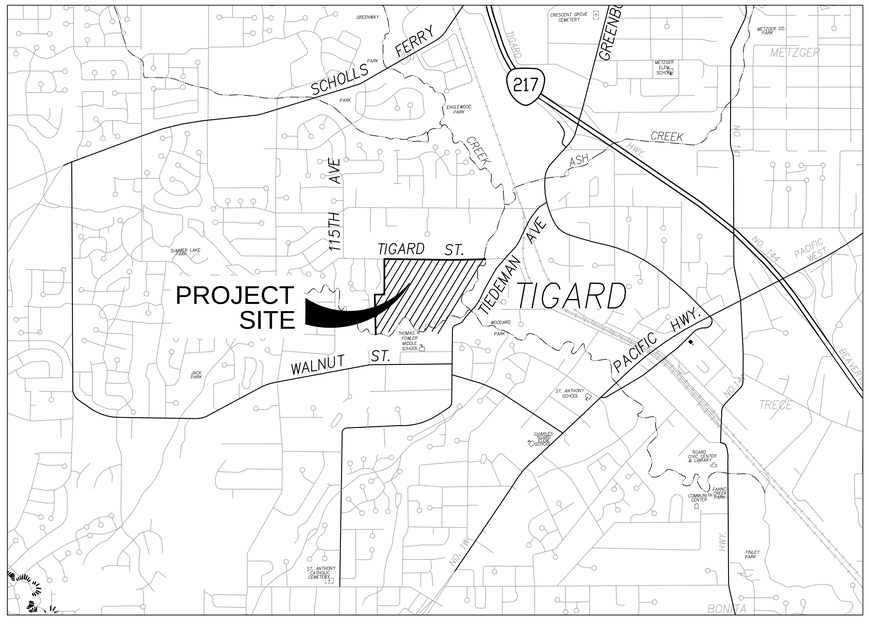
CITY OF TIGARD
PUBLIC WORKS DEPARTMENT
13125 SW HALL BLVD.
TIGARD, OREGON 97223
CONTACT: JEFF PECK
PHONE: 503-718-2466
FAX: 503-624-0752

LANDSCAPE ARCHITECT / PLANNER & CIVIL ENGINEER

WHPACIFIC, INC.
9755 SW BARNES ROAD, SUITE 300
PORTLAND, OREGON 97225
CONTACT: MARK HADLEY, ASLA
PHONE: 503-626-0455
FAX: 503-526-0775

BUILDING DESIGN

ROBERT YAKAS DESIGN
CONTACT: ROBERT 'BOB' YAKAS
PHONE: 971-221-7580
EMAIL: RYAKAS@GMAIL.COM



VICINITY MAP

N.T.S.

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LEGAL DESCRIPTION

PARCEL LOCATED IN WASHINGTON COUNTY, OREGON:
TAXMAP 1S1 34DC TAXLOTS: 3400, 3300, 3102, 3101, 3100, 3002, 3001, 3000
TAXMAP 1S1 34DD TAXLOTS: 2500, 2400, 1000, 900
TAXMAP 2S1 03AB TAXLOT: 200
TAXMAP 2S1 03AA TAXLOT: 200

CALL BEFORE YOU DIG

POTENTIAL UNDERGROUND FACILITY OWNERS
"ONE CALL"
UTILITY NOTIFICATION CENTER
1-800-332-2344

ATTENTION:
OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 1-800-332-2344 or 811).

BID SET - 8/20/15

WHPacific
9755 SW Barnes Rd. Suite 300
Portland, OR 97225
503-626-0455 Fax 503-526-0775
www.whpacific.com

REGISTERED LANDSCAPE ARCHITECT
MARK A. HADLEY
OREGON
04/20/84

REVISIONS			
NO.	BY	DATE	REMARKS

SHEET INFO	
DESIGNED	JJG
DRAWN	RAI
CHECKED	MAH
APPROVED	
LAST EDIT	1/8/2015
PLOT DATE	8/18/2015
SUBMITTAL	

SCALE: AS SHOWN

COVER SHEET

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER: P0003115W
DRAWING FILE NAME: 035975-C-CS11

SHEET NUMBER
CS 1

[DATE: 8/18/2015 3:33 PM] [AUTHOR: jmaynard] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
[PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE I\035975-C-CS11.dwg] [LAYOUT: CS 1 COVER SHEET]

OVERALL PROPERTY MAP (1 / C1.1.0)
SCALE: N.T.S.

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9755 SW Barnes Rd., Suite 300
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REGISTERED LANDSCAPE ARCHITECT
189
MARK A. HADLEY
OREGON
04/20/84

REVISIONS			
NO.	BY	DATE	REMARKS

SHEET INFO	
DESIGNED	JJG
DRAWN	RAI
CHECKED	MAH
APPROVED	
LAST EDIT	1/8/2015
PLOT DATE	8/18/2015
SUBMITTAL	

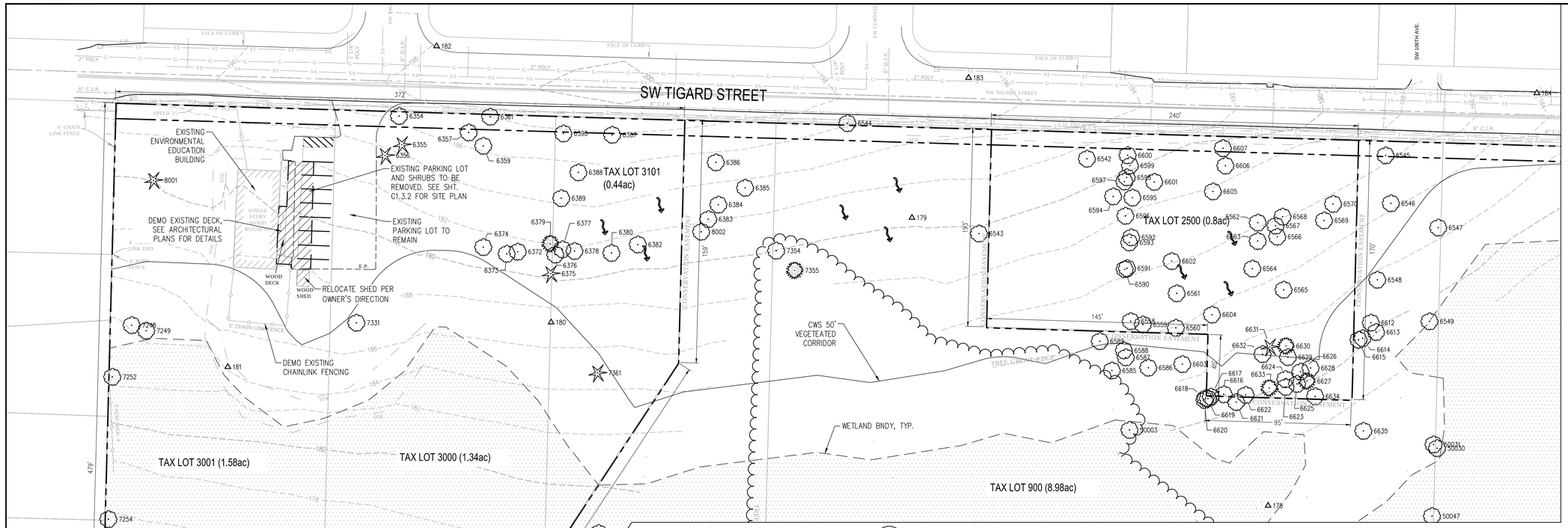
OVERALL EXISTING CONDITIONS PLAN

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

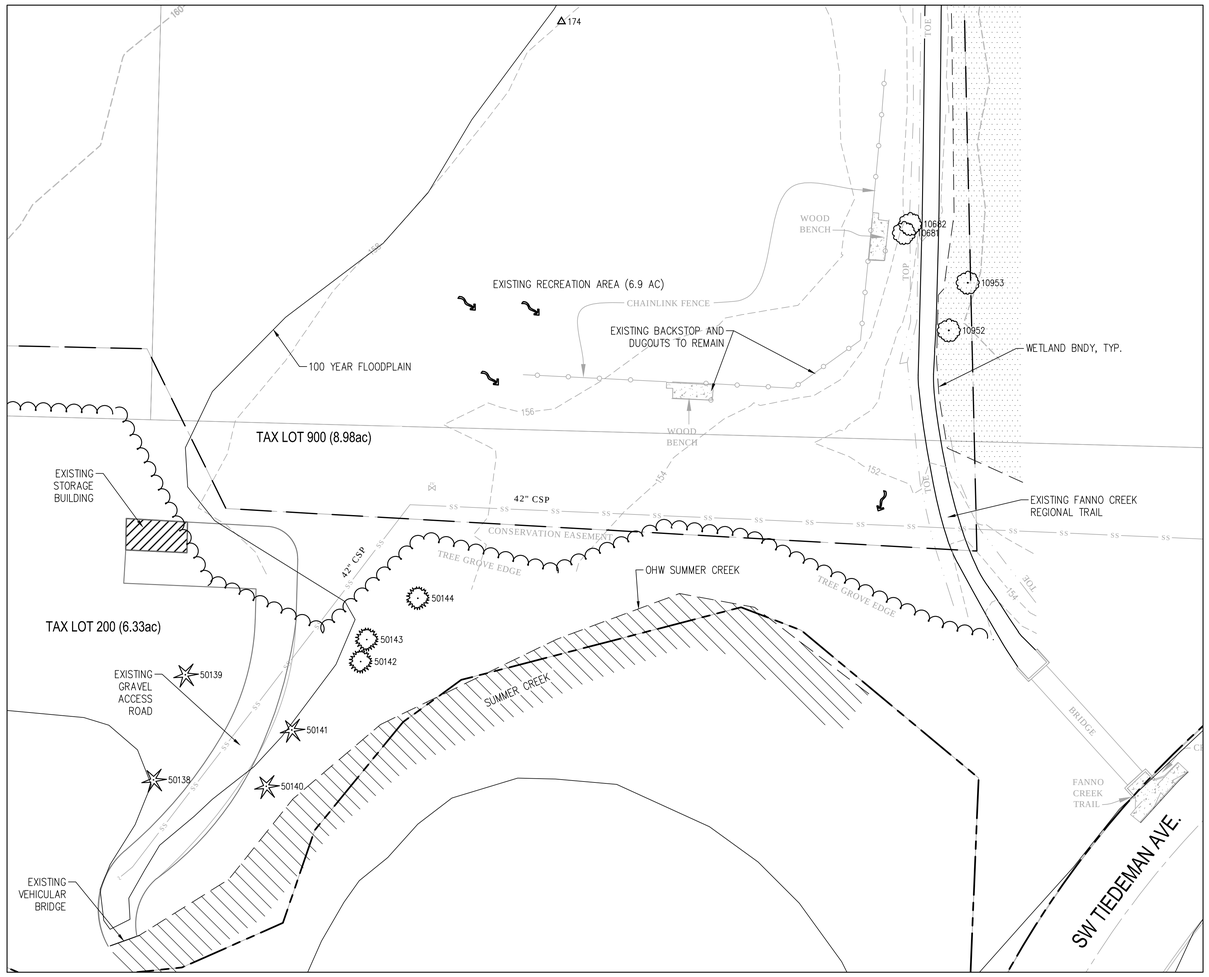
PROJECT NUMBER: P000315W
DRAWING FILE NAME: 035975-C-EC11
SCALE: AS SHOWN

SHEET NUMBER
C1.1.0

[DATE: 8/18/2015 3:34 PM] [AUTHOR: jmaynard] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
[PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-EC11.dwg] [LAYOUT: C1.1.0 OVERALL EXISTING CONDITIONS PLAN]



AREA #1
SCALE: 1"=30'
1 C1.1.1



AREA #3
SCALE: 1"=30'
2 C1.1.1

SURVEY CONTROL TABLE			
POINT #	NORTHING	EASTING	ELEVATION
174	652670.36	7614959.36	158.08
175	653007.06	7615147.02	151.66
176	653331.60	7615125.92	160.50
177	653246.65	7614869.90	168.14
178	653214.07	7614668.80	175.14
179	653402.40	7614436.07	190.49
180	653334.02	7614200.23	187.28
181	653304.78	7613988.89	184.62
182	653514.61	7614125.34	198.65
183	653493.91	7614473.02	196.54
184	653483.93	7614844.43	184.03
185	653480.55	7615330.67	165.75
186	653117.00	7614664.62	171.02

LEGEND

- WETLAND
- EXISTING TREE GROVE EDGE
- PROPOSED DEMOLITION AREA
- △ 180 SURVEY CONTROL POINT

VERTICAL DATUM

BASED ON CITY OF TIGARD VERTICAL DATUM DESIGNATION NO. 249; A 2 ¾" BRASS DISK INSCRIBED "CITY OF TIGARD SURVEY CONTROL POINT 249; LOCATED ON THE TOP OF CURB AT THE NORTHEAST CORNER OF THE INTERSECTION OF SW TIGARD STREET AND SW TIEDEMAN AVENUE, ELEVATION 166.01'.

WETLAND SOURCE: DELINEATION BY WHPACIFIC INC.

SURVEYED BY:

CES | NW
13190 SW 68TH PARKWAY, SUITE 150
TIGARD, OREGON 97223
503.968.6655 WWW.CESNW.COM

N

SCALE
30 0 15 30 60
(FEET)
1 INCH = 30 FT.

NOTE: IF PLOTTED ON SIZE 24" X 36" PAPER, SCALE IS 1" = 40'

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APPROVED	
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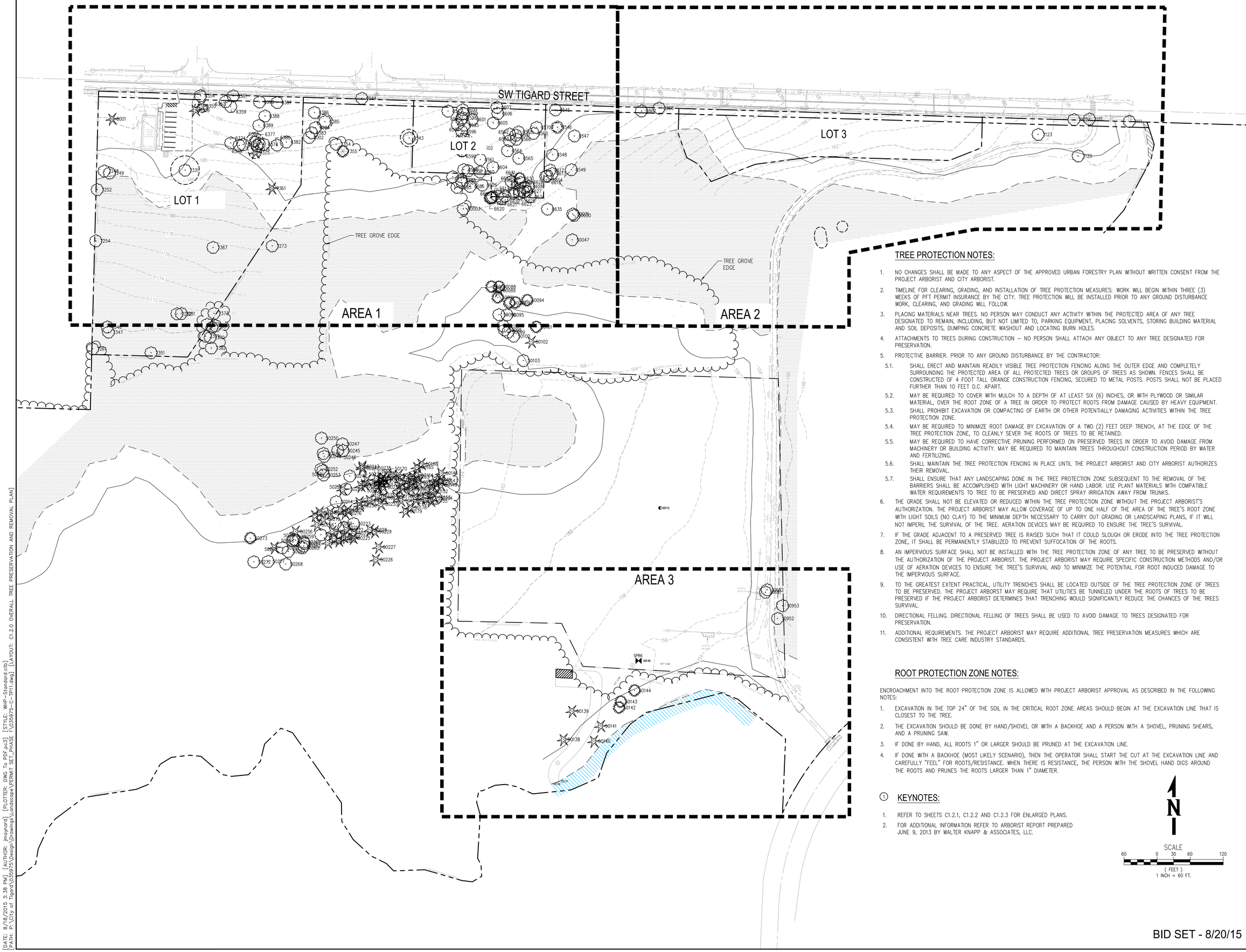
SUBMITTAL	

EXISTING CONDITIONS AND DEMO PLAN

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER P000315W
DRAWING FILE NAME 035975-C-EC12
SCALE AS SHOWN
SHEET NUMBER C1.1.1

DATE: 8/18/2015 3:36 PM] [AUTHOR: jmaynard] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-EC12.dwg] [LAYOUT: C1.1.1 EXISTING CONDITIONS AND DEMO PLAN]



TREE PROTECTION NOTES:

1. NO CHANGES SHALL BE MADE TO ANY ASPECT OF THE APPROVED URBAN FORESTRY PLAN WITHOUT WRITTEN CONSENT FROM THE PROJECT ARBORIST AND CITY ARBORIST.
2. TIMELINE FOR CLEARING, GRADING, AND INSTALLATION OF TREE PROTECTION MEASURES: WORK WILL BEGIN WITHIN THREE (3) WEEKS OF PFT PERMIT INSURANCE BY THE CITY. TREE PROTECTION WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBANCE WORK, CLEARING, AND GRADING WILL FOLLOW.
3. PLACING MATERIALS NEAR TREES. NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE PROTECTED AREA OF ANY TREE DESIGNATED TO REMAIN, INCLUDING, BUT NOT LIMITED TO, PARKING EQUIPMENT, PLACING SOLVENTS, STORING BUILDING MATERIAL AND SOIL DEPOSITS, DUMPING CONCRETE WASHOUT AND LOCATING BURN HOLES.
4. ATTACHMENTS TO TREES DURING CONSTRUCTION – NO PERSON SHALL ATTACH ANY OBJECT TO ANY TREE DESIGNATED FOR PRESERVATION.
5. PROTECTIVE BARRIER. PRIOR TO ANY GROUND DISTURBANCE BY THE CONTRACTOR:
   - 5.1. SHALL ERECT AND MAINTAIN READILY VISIBLE TREE PROTECTION FENCING ALONG THE OUTER EDGE AND COMPLETELY SURROUNDING THE PROTECTED AREA OF ALL PROTECTED TREES OR GROUPS OF TREES AS SHOWN. FENCES SHALL BE CONSTRUCTED OF 4 FOOT TALL ORANGE CONSTRUCTION FENCING, SECURED TO METAL POSTS. POSTS SHALL NOT BE PLACED FURTHER THAN 10 FEET O.C. APART.
   - 5.2. MAY BE REQUIRED TO COVER WITH MULCH TO A DEPTH OF AT LEAST SIX (6) INCHES, OR WITH PLYWOOD OR SIMILAR MATERIAL, OVER THE ROOT ZONE OF A TREE IN ORDER TO PROTECT ROOTS FROM DAMAGE CAUSED BY HEAVY EQUIPMENT.
   - 5.3. SHALL PROHIBIT EXCAVATION OR COMPACTING OF EARTH OR OTHER POTENTIALLY DAMAGING ACTIVITIES WITHIN THE TREE PROTECTION ZONE.
   - 5.4. MAY BE REQUIRED TO MINIMIZE ROOT DAMAGE BY EXCAVATION OF A TWO (2) FEET DEEP TRENCH, AT THE EDGE OF THE TREE PROTECTION ZONE, TO CLEANLY SEVER THE ROOTS OF TREES TO BE RETAINED.
   - 5.5. MAY BE REQUIRED TO HAVE CORRECTIVE PRUNING PERFORMED ON PRESERVED TREES IN ORDER TO AVOID DAMAGE FROM MACHINERY OR BUILDING ACTIVITY. MAY BE REQUIRED TO MAINTAIN TREES THROUGHOUT CONSTRUCTION PERIOD BY WATER AND FERTILIZING.
   - 5.6. SHALL MAINTAIN THE TREE PROTECTION FENCING IN PLACE UNTIL THE PROJECT ARBORIST AND CITY ARBORIST AUTHORIZES THEIR REMOVAL.
   - 5.7. SHALL ENSURE THAT ANY LANDSCAPING DONE IN THE TREE PROTECTION ZONE SUBSEQUENT TO THE REMOVAL OF THE BARRIERS SHALL BE ACCOMPLISHED WITH LIGHT MACHINERY OR HAND LABOR. USE PLANT MATERIALS WITH COMPATIBLE WATER REQUIREMENTS TO TREE TO BE PRESERVED AND DIRECT SPRAY IRRIGATION AWAY FROM TRUNKS.
6. THE GRADE SHALL NOT BE ELEVATED OR REDUCED WITHIN THE TREE PROTECTION ZONE WITHOUT THE PROJECT ARBORIST'S AUTHORIZATION. THE PROJECT ARBORIST MAY ALLOW COVERAGE OF UP TO ONE HALF OF THE AREA OF THE TREE'S ROOT ZONE WITH LIGHT SOILS (NO CLAY) TO THE MINIMUM DEPTH NECESSARY TO CARRY OUT GRADING OR LANDSCAPING PLANS, IF IT WILL NOT IMPERIL THE SURVIVAL OF THE TREE. AERATION DEVICES MAY BE REQUIRED TO ENSURE THE TREE'S SURVIVAL.
7. IF THE GRADE ADJACENT TO A PRESERVED TREE IS RAISED SUCH THAT IT COULD SLOUGH OR ERODE INTO THE TREE PROTECTION ZONE, IT SHALL BE PERMANENTLY STABILIZED TO PREVENT SUFFOCATION OF THE ROOTS.
8. AN IMPERVIOUS SURFACE SHALL NOT BE INSTALLED WITH THE TREE PROTECTION ZONE OF ANY TREE TO BE PRESERVED WITHOUT THE AUTHORIZATION OF THE PROJECT ARBORIST. THE PROJECT ARBORIST MAY REQUIRE SPECIFIC CONSTRUCTION METHODS AND/OR USE OF AERATION DEVICES TO ENSURE THE TREE'S SURVIVAL AND TO MINIMIZE THE POTENTIAL FOR ROOT INDUCED DAMAGE TO THE IMPERVIOUS SURFACE.
9. TO THE GREATEST EXTENT PRACTICAL, UTILITY TRENCHES SHALL BE LOCATED OUTSIDE OF THE TREE PROTECTION ZONE OF TREES TO BE PRESERVED. THE PROJECT ARBORIST MAY REQUIRE THAT UTILITIES BE TUNNELED UNDER THE ROOTS OF TREES TO BE PRESERVED IF THE PROJECT ARBORIST DETERMINES THAT TRENCHING WOULD SIGNIFICANTLY REDUCE THE CHANCES OF THE TREES SURVIVAL.
10. DIRECTIONAL FELLING. DIRECTIONAL FELLING OF TREES SHALL BE USED TO AVOID DAMAGE TO TREES DESIGNATED FOR PRESERVATION.
11. ADDITIONAL REQUIREMENTS. THE PROJECT ARBORIST MAY REQUIRE ADDITIONAL TREE PRESERVATION MEASURES WHICH ARE CONSISTENT WITH TREE CARE INDUSTRY STANDARDS.

ROOT PROTECTION ZONE NOTES:

ENCROACHMENT INTO THE ROOT PROTECTION ZONE IS ALLOWED WITH PROJECT ARBORIST APPROVAL AS DESCRIBED IN THE FOLLOWING NOTES:

1. EXCAVATION IN THE TOP 24" OF THE SOIL IN THE CRITICAL ROOT ZONE AREAS SHOULD BEGIN AT THE EXCAVATION LINE THAT IS CLOSEST TO THE TREE.
2. THE EXCAVATION SHOULD BE DONE BY HAND/SHOVEL OR WITH A BACKHOE AND A PERSON WITH A SHOVEL, PRUNING SHEARS, AND A PRUNING SAW.
3. IF DONE BY HAND, ALL ROOTS 1" OR LARGER SHOULD BE PRUNED AT THE EXCAVATION LINE.
4. IF DONE WITH A BACKHOE (MOST LIKELY SCENARIO), THEN THE OPERATOR SHALL START THE CUT AT THE EXCAVATION LINE AND CAREFULLY "FEEL" FOR ROOTS/RESISTANCE. WHEN THERE IS RESISTANCE, THE PERSON WITH THE SHOVEL HAND DIGS AROUND THE ROOTS AND PRUNES THE ROOTS LARGER THAN 1" DIAMETER.

① KEYNOTES:

1. REFER TO SHEETS C1.2.1, C1.2.2 AND C1.2.3 FOR ENLARGED PLANS.
2. FOR ADDITIONAL INFORMATION REFER TO ARBORIST REPORT PREPARED JUNE 9, 2013 BY WALTER KNAPP & ASSOCIATES, LLC.

N

SCALE
60 0 30 60 120
(FEET)
1 INCH = 60 FT.

BID SET - 8/20/15

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REGISTERED LANDSCAPE ARCHITECT
189
MARK A. HADLEY
OREGON
04/20/84

REVISIONS			
NO.	BY	DATE	REMARKS

SHEET INFO	
DESIGNED	JJG
DRAWN	RAI
CHECKED	MAH
APPROVED	
LAST EDIT	1/8/2015
PLOT DATE	8/18/2015
SUBMITTAL	

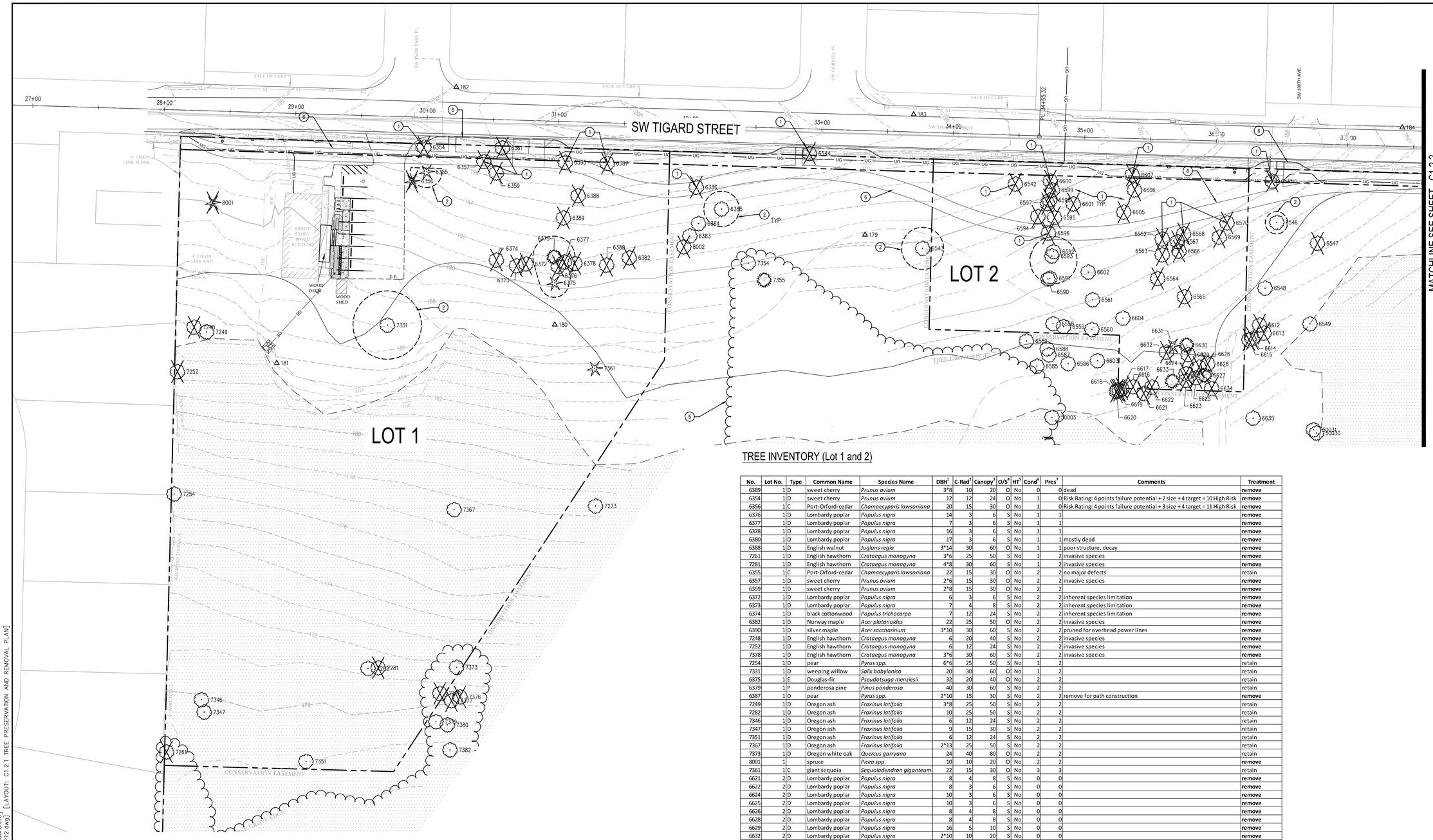
OVERALL TREE PRESERVATION AND REMOVAL PLAN

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER: P0003150W
DRAWING FILE NAME: 035975-C-TP11
SCALE: AS SHOWN

SHEET NUMBER
C1.2.0

[DATE: 8/18/2015 3:38 PM] [AUTHOR: jmaynard] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
[PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-TP11.dwg] [LAYOUT: C1.2.0 OVERALL TREE PRESERVATION AND REMOVAL PLAN]



TREE INVENTORY (Lot 1 and 2)

No.	Lot No.	Type	Common Name	Species Name	DBH[1]	C-Rad[2]	Canopy[3]	O/S[4]	HT[5]	Cond[6]	Pres[7]	Comments	Treatment
6389	1	D	sweet cherry	*Prunus avium*	3*8	10	20	O	No	0	0	dead	**remove**
6354	1	D	sweet cherry	*Prunus avium*	12	12	24	O	No	1	0	Risk Rating: 4 points failure potential + 2 size + 4 target = 10 High Risk	**remove**
6356	1	C	Port-Orford-cedar	*Chamaecyparis lawsoniana*	20	15	30	O	No	1	0	Risk Rating: 4 points failure potential + 3 size + 4 target = 11 High Risk	**remove**
6376	1	D	Lombardy poplar	*Populus nigra*	14	3	6	S	No	1	1		**remove**
6377	1	D	Lombardy poplar	*Populus nigra*	7	3	6	S	No	1	1		**remove**
6378	1	D	Lombardy poplar	*Populus nigra*	16	3	6	S	No	1	1		**remove**
6380	1	D	Lombardy poplar	*Populus nigra*	17	3	6	S	No	1	1	mostly dead	**remove**
6388	1	D	English walnut	*Juglans regia*	3*14	30	60	O	No	1	1	poor structure, decay	**remove**
7261	1	D	English hawthorn	*Crataegus monogyna*	3*6	25	50	S	No	1	2	invasive species	**remove**
7281	1	D	English hawthorn	*Crataegus monogyna*	4*8	30	60	S	No	1	2	invasive species	**remove**
6355	1	C	Port-Orford-cedar	*Chamaecyparis lawsoniana*	22	15	30	O	No	2	2	no major defects	retain
6357	1	D	sweet cherry	*Prunus avium*	2*6	15	30	O	No	2	2	invasive species	**remove**
6359	1	D	sweet cherry	*Prunus avium*	2*8	15	30	O	No	2	2		**remove**
6372	1	D	Lombardy poplar	*Populus nigra*	6	3	6	S	No	2	2	inherent species limitation	**remove**
6373	1	D	Lombardy poplar	*Populus nigra*	7	4	8	S	No	2	2	inherent species limitation	**remove**
6374	1	D	black cottonwood	*Populus trichocarpa*	7	12	24	S	No	2	2	inherent species limitation	**remove**
6382	1	D	Norway maple	*Acer platanoides*	22	25	50	O	No	2	2	invasive species	**remove**
6390	1	D	silver maple	*Acer saccharinum*	3*10	30	60	S	No	2	2	pruned for overhead power lines	**remove**
7248	1	D	English hawthorn	*Crataegus monogyna*	6	20	40	S	No	2	2	invasive species	**remove**
7252	1	D	English hawthorn	*Crataegus monogyna*	6	12	24	S	No	2	2	invasive species	**remove**
7378	1	D	English hawthorn	*Crataegus monogyna*	3*6	30	60	S	No	2	2	invasive species	**remove**
7254	1	D	pear	*Pyrus spp.*	6*6	25	50	S	No	1	2		retain
7331	1	D	weeping willow	*Salix babylonica*	20	30	60	O	No	1	2		retain
6375	1	E	Douglas-fir	*Pseudotsuga menziesii*	32	20	40	O	No	2	2		retain
6379	1	P	ponderosa pine	*Pinus ponderosa*	40	30	60	S	No	2	2		retain
6387	1	D	pear	*Pyrus spp.*	2*10	15	30	S	No	2	2	remove for path construction	**remove**
7249	1	D	Oregon ash	*Fraxinus latifolia*	3*8	25	50	S	No	2	2		retain
7282	1	D	Oregon ash	*Fraxinus latifolia*	10	25	50	S	No	2	2		retain
7346	1	D	Oregon ash	*Fraxinus latifolia*	6	12	24	S	No	2	2		retain
7347	1	D	Oregon ash	*Fraxinus latifolia*	9	15	30	S	No	2	2		retain
7351	1	D	Oregon ash	*Fraxinus latifolia*	6	12	24	S	No	2	2		retain
7367	1	D	Oregon ash	*Fraxinus latifolia*	2*13	25	50	S	No	2	2		retain
7373	1	D	Oregon white oak	*Quercus garryana*	24	40	80	O	No	2	2		retain
8001	1		spruce	*Picea spp.*	10	10	20	O	No	2	2		**remove**
7361	1	C	giant sequoia	*Sequoiadendron giganteum*	22	15	30	O	No	3	3		retain
6621	2	D	Lombardy poplar	*Populus nigra*	8	4	8	S	No	0	0		**remove**
6622	2	D	Lombardy poplar	*Populus nigra*	8	3	6	S	No	0	0		**remove**
6624	2	D	Lombardy poplar	*Populus nigra*	10	3	6	S	No	0	0		**remove**
6625	2	D	Lombardy poplar	*Populus nigra*	10	3	6	S	No	0	0		**remove**
6626	2	D	Lombardy poplar	*Populus nigra*	8	4	8	S	No	0	0		**remove**
6628	2	D	Lombardy poplar	*Populus nigra*	8	4	8	S	No	0	0		**remove**
6629	2	D	Lombardy poplar	*Populus nigra*	16	5	10	S	No	0	0		**remove**
6632	2	D	Lombardy poplar	*Populus nigra*	2*10	10	20	S	No	0	0		**remove**
6634	2	D	Lombardy poplar	*Populus nigra*	7	3	6	S	No	0	0		**remove**
6542	2	D	pear	*Pyrus spp.*	3*15	15	30	S	No	1	0	decay with hollows Risk Rating: 3 points failure potential + 2 size + 4 target = 9 High Risk	**remove**
6562	2	D	Scouler's willow	*Salix scouleriana*	4*7	30	60	S	No	1	1	decrepit	**remove**
6563	2	D	Scouler's willow	*Salix scouleriana*	7	10	20	S	No	1	1	decrepit	**remove**
6564	2	D	Scouler's willow	*Salix scouleriana*	7*10	30	60	S	No	1	1	decrepit	**remove**
6565	2	D	Scouler's willow	*Salix scouleriana*	2*10	25	50	S	No	1	1	decrepit	**remove**
6566	2	D	Scouler's willow	*Salix scouleriana*	7	10	20	S	No	1	1	decrepit	**remove**
6567	2	D	Scouler's willow	*Salix scouleriana*	12	16	32	S	No	1	1	decrepit	**remove**
6568	2	D	Scouler's willow	*Salix scouleriana*	2*6	15	30	S	No	1	1	decrepit	**remove**
6570	2	D	English hawthorn	*Crataegus monogyna*	2*6	15	30	S	No	2	2	invasive species	**remove**
6595	2	D	Oregon ash	*Fraxinus latifolia*	6	12	24	S	No	2	2		**remove**
6596	2	D	Oregon ash	*Fraxinus latifolia*	8	15	30	S	No	2	2		**remove**
6569	2	D	pear	*Pyrus spp.*	6	6	12	S	No	1	1	remove for path construction	**remove**
6558	2	D	Oregon ash	*Fraxinus latifolia*	6	6	12	S	No	2	2		retain
6559	2	D	Oregon ash	*Fraxinus latifolia*	6	6	12	S	No	2	2		retain
6560	2	D	Oregon ash	*Fraxinus latifolia*	6	6	12	S	No	2	2		retain
6561	2	D	Oregon ash	*Fraxinus latifolia*	6	10	20	S	No	2	2		retain
6590	2	D	Oregon ash	*Fraxinus latifolia*	10	15	30	S	No	2	2		retain
6591	2	D	Oregon ash	*Fraxinus latifolia*	7	10	20	S	No	2	2		retain
6592	2	D	Oregon ash	*Fraxinus latifolia*	7	10	20	S	No	2	2		retain
6593	2	D	Oregon ash	*Fraxinus latifolia*	6	12	24	S	No	2	2	remove for path Tigard street widening	**remove**
6594	2	D	Oregon ash	*Fraxinus latifolia*	6	12	24	S	No	2	2	remove for path Tigard street widening	**remove**
6597	2	D	Oregon ash	*Fraxinus latifolia*	6	10	20	S	No	2	2	remove for path Tigard street widening	**remove**
6598	2	D	Oregon ash	*Fraxinus latifolia*	6	10	20	S	No	2	2	remove for path Tigard street widening	**remove**
6599	2	D	Oregon ash	*Fraxinus latifolia*	6	10	20	S	No	2	2	remove for path Tigard street widening	**remove**
6600	2	D	Oregon ash	*Fraxinus latifolia*	6	12	24	S	No	2	2	remove for path Tigard street widening	**remove**
6601	2	D	Oregon ash	*Fraxinus latifolia*	6	15	30	S	No	2	2	remove for path Tigard street widening	**remove**
6602	2	D	Oregon ash	*Fraxinus latifolia*	7	12	24	S	No	2	2		retain
6604	2	D	Oregon ash	*Fraxinus latifolia*	6	12	24	S	No	2	2		retain
6605	2	D	Scouler's willow	*Salix scouleriana*	6	12	24	S	No	2	2	remove for path Tigard street widening	**remove**
6606	2	D	Oregon ash	*Fraxinus latifolia*	6	12	24	S	No	2	2	remove for path Tigard street widening	**remove**
6627	2	P	ponderosa pine	*Pinus ponderosa*	6	10	20	S	No	2	2		retain
6630	2	P	ponderosa pine	*Pinus ponderosa*	7	10	20	S	No	2	2		retain
6631	2	F	Douglas-fir	*Pseudotsuga menziesii*	8	12	24	S	No	2	2		retain
6633	2	P	ponderosa pine	*Pinus ponderosa*	8	12	24	S	No	2	2		retain

LEGEND:

- EXISTING TREE TO REMAIN
- EXISTING TREE DRIPLINE
- EXISTING TREE TO BE REMOVED

KEYNOTES:

1. TREE TO BE REMOVED DURING STREET WIDENING.
2. PROPOSED TREE PROTECTION FENCING. 4' HT. ORANGE CONSTRUCTION FENCING WITH METAL POSTS EVERY 10' O.C. MAX.
3. REFER TO SHEET C1.2.0 FOR TREE PROTECTION NOTES AND DETAILS.
4. FOR ADDITIONAL INFORMATION REFER TO ARBORIST REPORT PREPARED JUNE 9, 2013 BY WALTER KNAPP & ASSOCIATES, LLC.
5. EXISTING TREE GROVE EDGE.
6. FUTURE ROAD AND PATH IMPROVEMENTS, FOR REFERENCE ONLY.

N

SCALE
30 0 15 30 60
(FEET)
1 INCH = 30 FT.

BID SET - 8/20/15

WHPacific
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REGISTERED LANDSCAPE ARCHITECT
189
MARK A. HADLEY
OREGON
04/20/84

REVISIONS			
NO.	BY	DATE	REMARKS

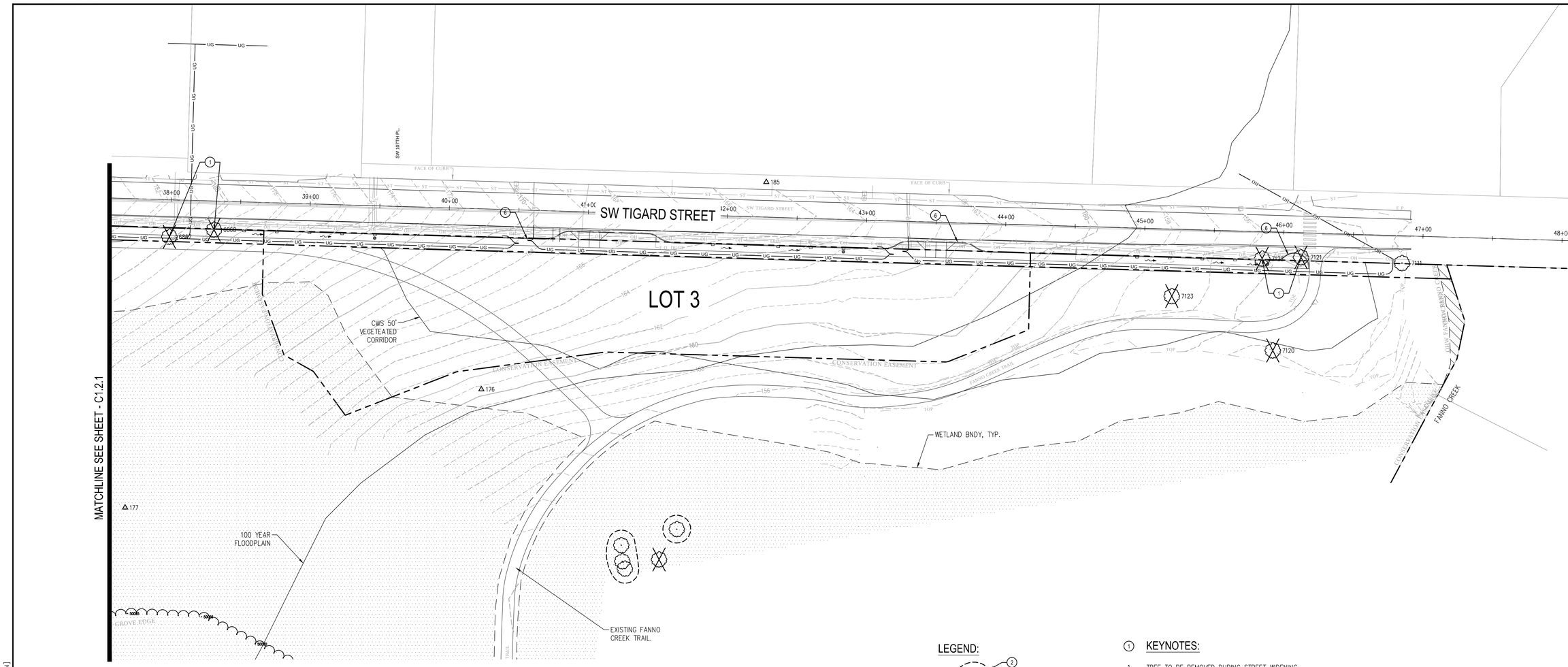
SHEET INFO	
DESIGNED	JJG
DRAWN	RAI
CHECKED	MAH
APPROVED	
LAST EDIT	1/9/2015
PLOT DATE	8/18/2015
SUBMITTAL	

TREE PRESERVATION AND REMOVAL PLAN
AREA 1
CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER: P000315W
DRAWING FILE NAME: 035975-C-TP12
SCALE: AS SHOWN

SHEET NUMBER
C1.2.1

DATE: 8/18/2015 3:45 PM] [AUTHOR: jgillies] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
[PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-TP12.dwg] [LAYOUT: C1.2.1 TREE PRESERVATION AND REMOVAL PLAN]



LEGEND:

- EXISTING TREE TO REMAIN
- EXISTING TREE DRIPLINE
- EXISTING TREE TO BE REMOVED

① KEYNOTES:

1. TREE TO BE REMOVED DURING STREET WIDENING.
2. PROPOSED TREE PROTECTION FENCING. 4' HT. ORANGE CONSTRUCTION FENCING WITH METAL POSTS EVERY 10' O.C. MAX.
3. REFER TO SHEET C1.2.0 FOR TREE PROTECTION NOTES AND DETAILS.
4. FOR ADDITIONAL INFORMATION REFER TO ARBORIST REPORT PREPARED JUNE 9, 2013 BY WALTER KNAPP & ASSOCIATES, LLC.
5. EXISTING TREE GROVE EDGE.
6. FUTURE ROAD AND PATH IMPROVEMENTS, FOR REFERENCE ONLY.

N

SCALE
30 0 15 30 60
(FEET)
1 INCH = 30 FT.

BID SET - 8/20/15

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REGISTERED LANDSCAPE ARCHITECT
189
MARK A. HADLEY
OREGON
04/20/84

REVISIONS			
NO.	BY	DATE	REMARKS

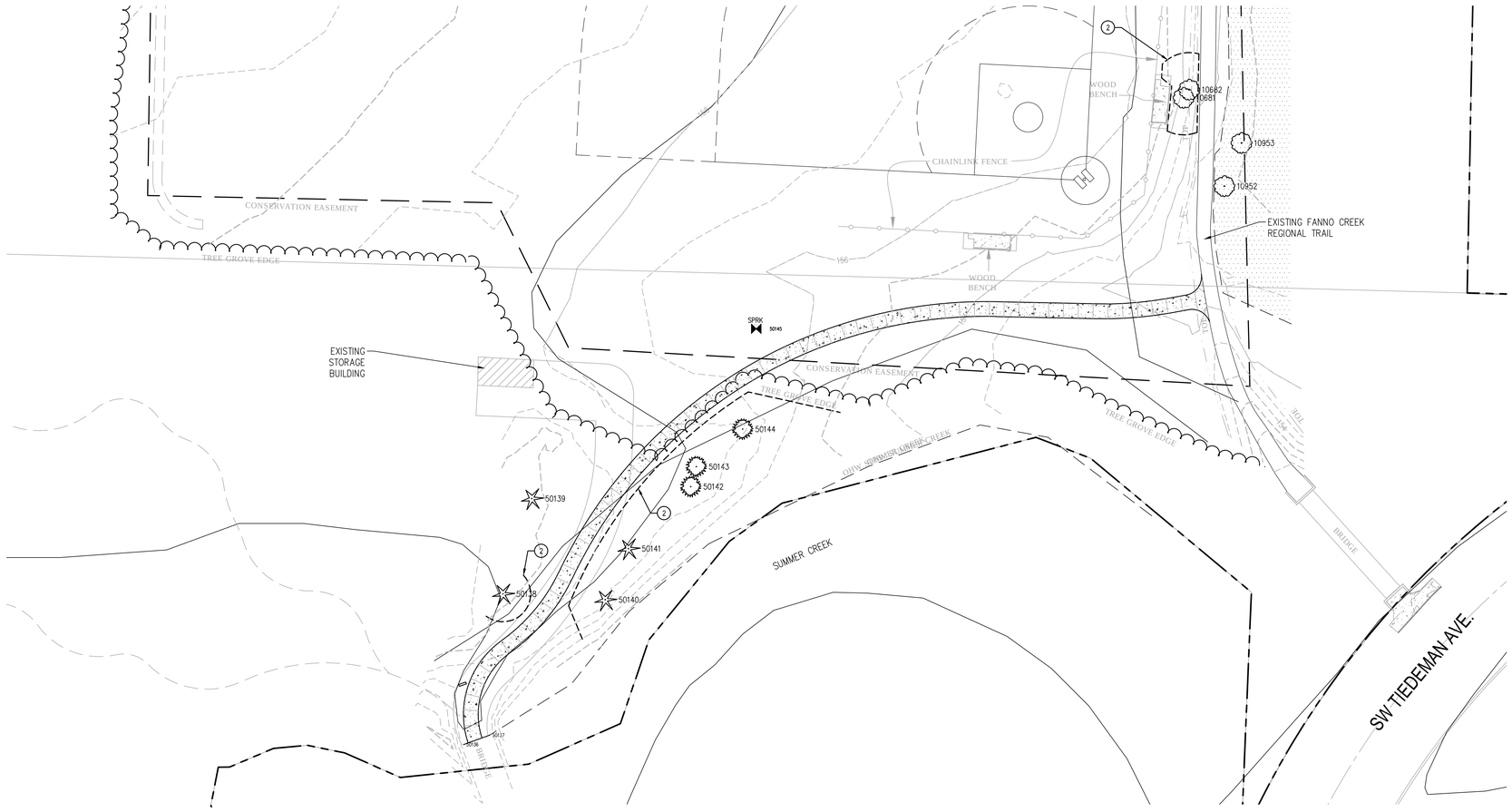
SHEET INFO	
DESIGNED	JJG
DRAWN	RAI
CHECKED	MAH
APPROVED	
LAST EDIT	1/9/2015
PLOT DATE	8/18/2015
SUBMITTAL	

TREE PRESERVATION AND REMOVAL PLAN
AREA 2
CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER: P000315W
DRAWING FILE NAME: 035975-C-TP12
SCALE: AS SHOWN

SHEET NUMBER
C1.2.2

DATE: 8/18/2015 3:46 PM] [AUTHOR: jgilles] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-TP12.dwg] [LAYOUT: C1.2.2 TREE PRESERVATION AND REMOVAL PLAN]



LEGEND:

- EXISTING TREE TO REMAIN
- EXISTING TREE DRIPLINE
- EXISTING TREE TO BE REMOVED

KEYNOTES:

1. TREE TO BE REMOVED DURING STREET WIDENING.
2. PROPOSED TREE PROTECTION FENCING. 4' HT. ORANGE CONSTRUCTION FENCING WITH METAL POSTS EVERY 10' O.C. MAX.
3. REFER TO SHEET C1.2.0 FOR TREE PROTECTION NOTES AND DETAILS.
4. FOR ADDITIONAL INFORMATION REFER TO ARBORIST REPORT PREPARED JUNE 9, 2013 BY WALTER KNAPP & ASSOCIATES, LLC.
5. EXISTING TREE GROVE EDGE.
6. FUTURE ROAD AND PATH IMPROVEMENTS, FOR REFERENCE ONLY.

N

SCALE
30 0 15 30 60
(FEET)
1 INCH = 30 FT.

BID SET - 8/20/15

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NO.	BY	DATE	REMARKS

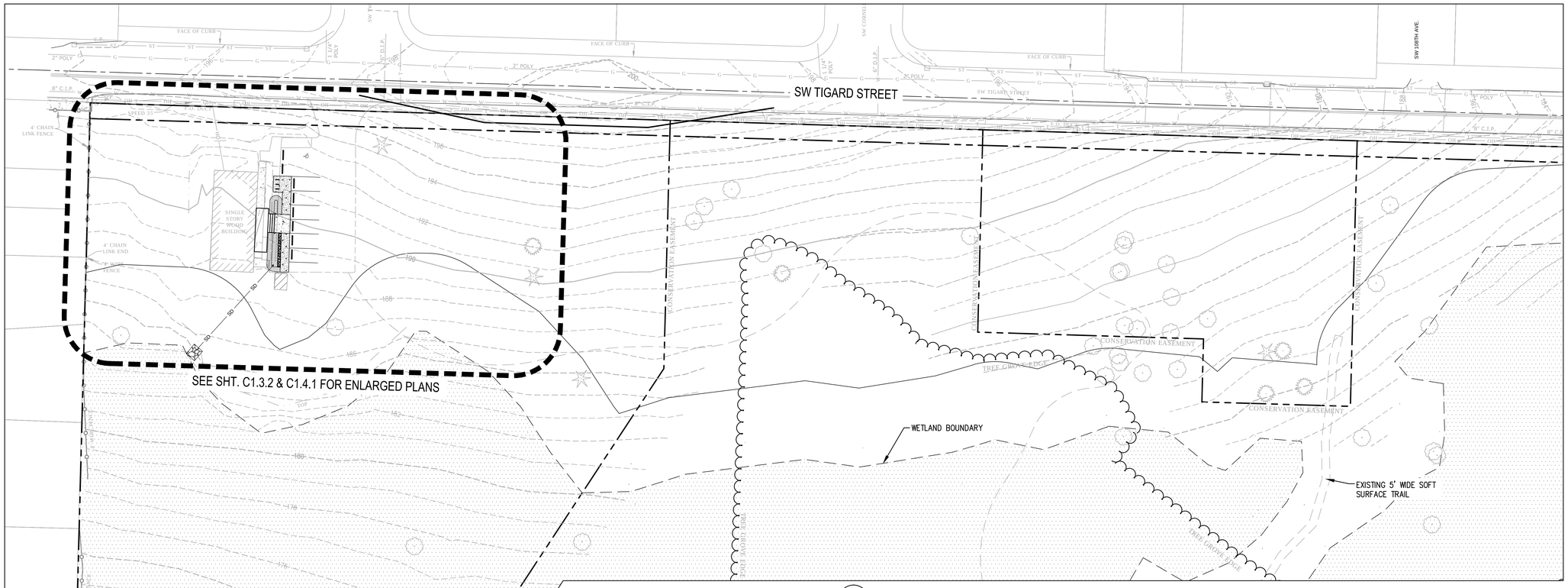
SHEET INFO	
DESIGNED	JJG
DRAWN	RAI
CHECKED	MAH
APPROVED	
LAST EDIT	1/9/2015
PLOT DATE	8/18/2015
SUBMITTAL	

TREE PRESERVATION AND REMOVAL PLAN
AREA 3
CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

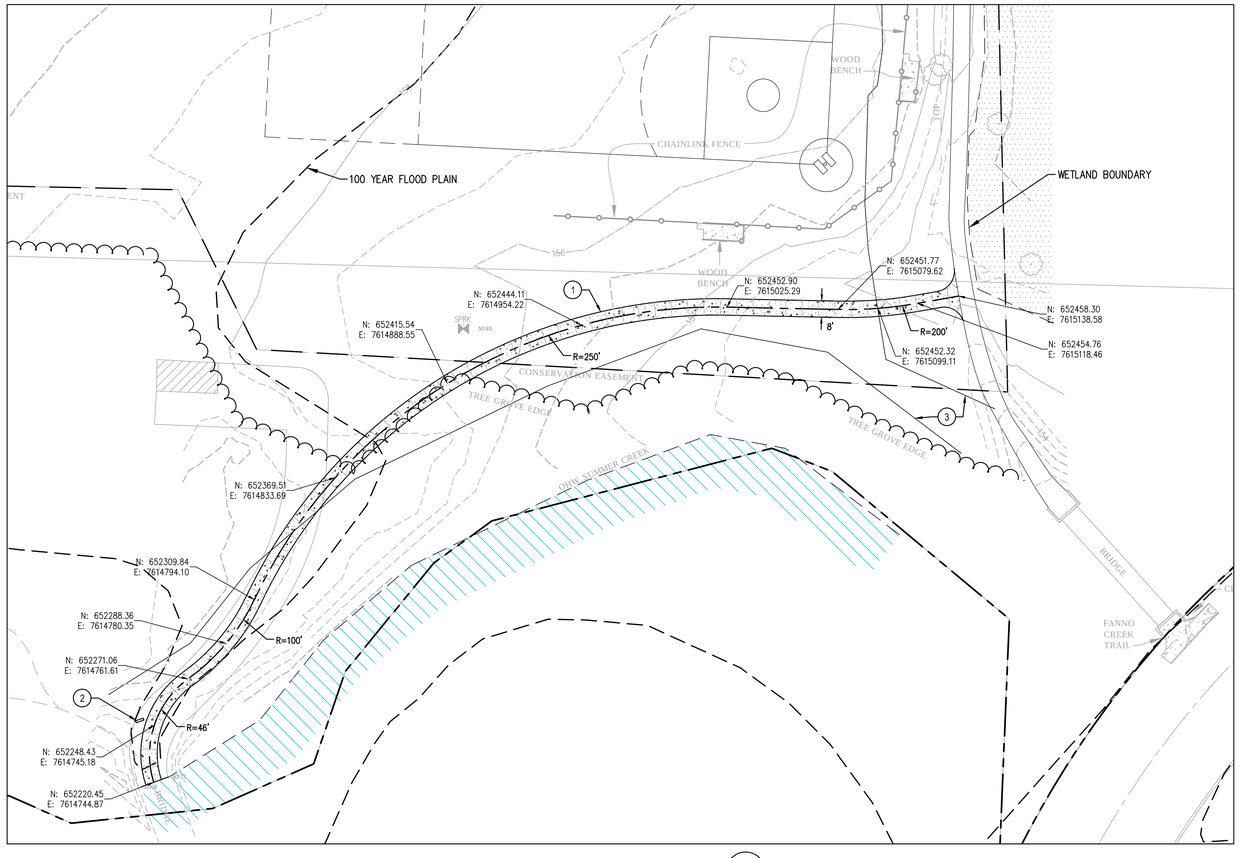
PROJECT NUMBER P000315W
DRAWING FILE NAME 035975-C-TP12
SCALE AS SHOWN

SHEET NUMBER C1.2.3

[DATE: 8/18/2015 3:47 PM] [AUTHOR: jgillies] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb] [LAYOUT: C1.2.3 TREE PRESERVATION AND REMOVAL PLAN]
[PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-TP12.dwg]



AREA #1
SCALE: 1"=30'
1 / C1.3.1



AREA #3
SCALE: 1"=30'
2 / C1.3.1

LEGEND:

- CONCRETE
- WETLAND
- EXISTING TREE GROVE EDGE

① GENERAL KEYNOTES:

1. INSTALL VEHICLE RATED CONCRETE PER 4/C1.3.3. WEAKENED PLANE SCORE JOINTS EVERY 8' AS SHOWN AND EXPANSION JOINTS EVERY 48'
2. INSTALL ENTRY SIGN PER DETAIL 8/C1.3.3
3. VEGETATED CORRIDOR BOUNDARY

N

SCALE
30 0 15 30 60
(FEET)
1 INCH = 30 FT.

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DRAWN	RAI
CHECKED	MAH
APPROVED	
LAST EDIT	1/9/2015
PLOT DATE	8/18/2015
SUBMITTAL	

SCALE: AS SHOWN

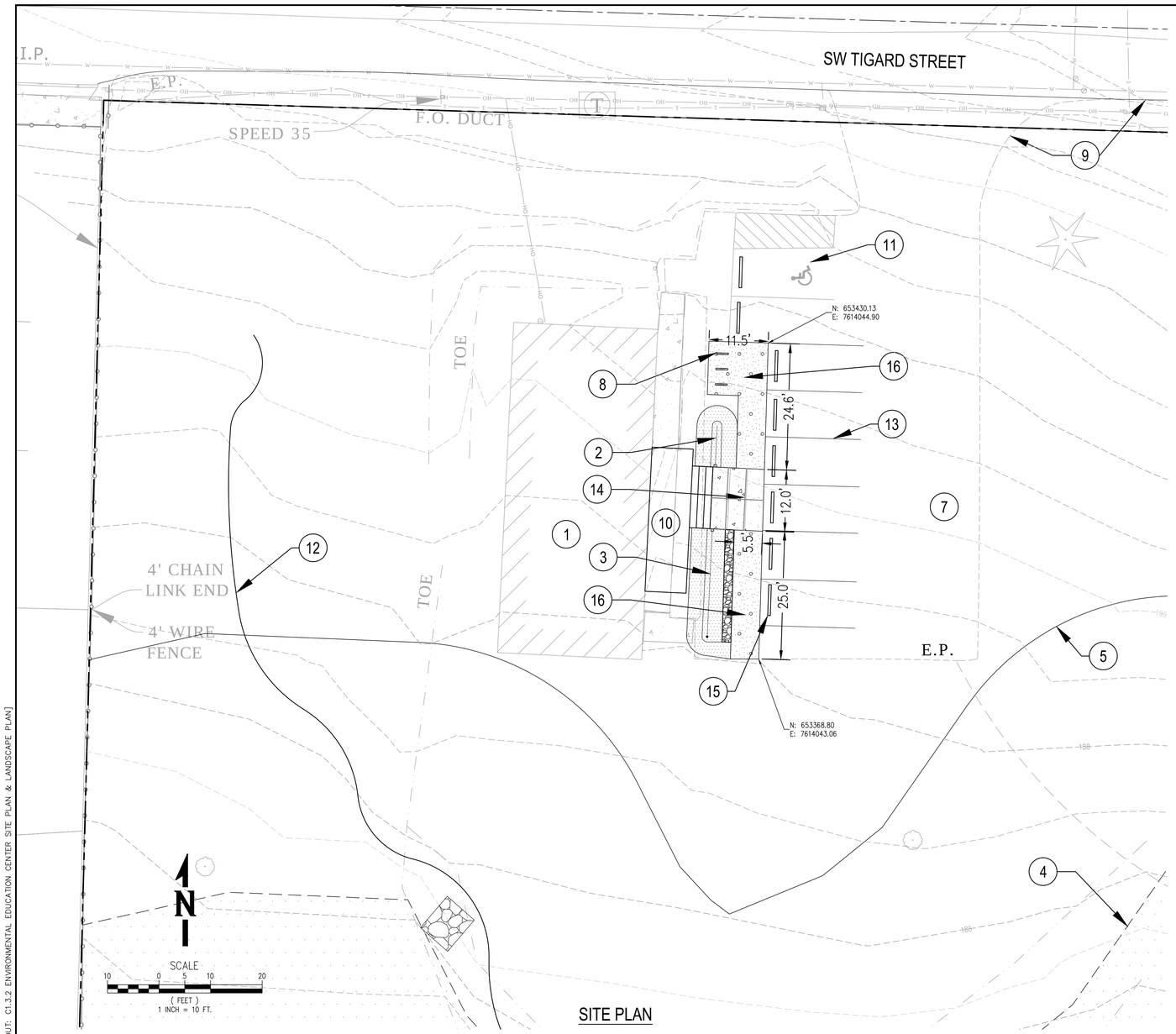
SITE PLAN

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

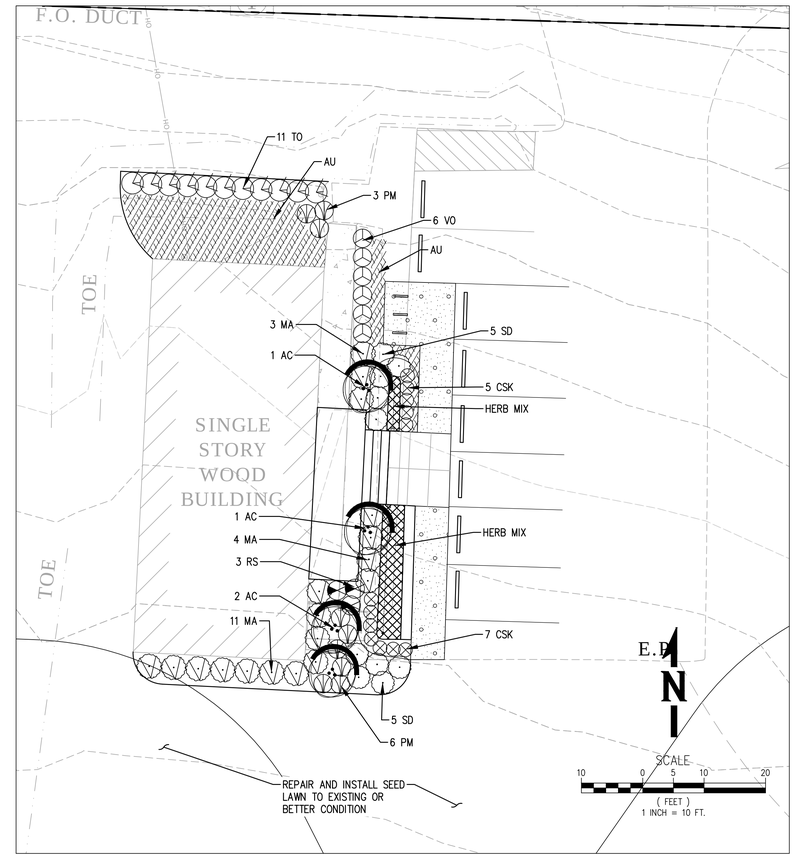
PROJECT NUMBER: P0003115W
DRAWING FILE NAME: 035975-C-SP11

SHEET NUMBER
C1.3.1

DATE: 8/18/2015 3:55 PM] [AUTHOR: jmaynard] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-SP11.dwg] [LAYOUT: C1.3.1 SITE PLAN]



SITE PLAN



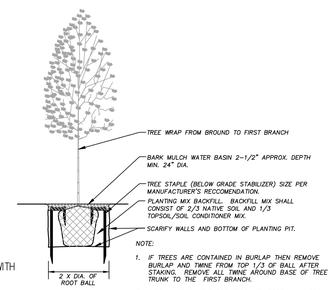
LANDSCAPE PLAN

LEGEND

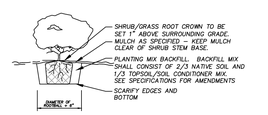
- CONCRETE
- CRUSHED ROCK PATH
- WATER QUALITY SWALE
- WETLAND

① GENERAL KEYNOTES:

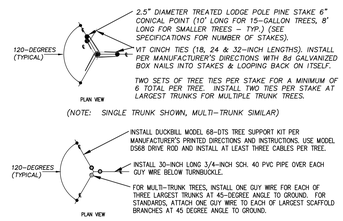
1. ENVIRONMENTAL EDUCATION CENTER. SEE SHT. A1.2–A1.6.
2. CWS LIDA SWALE, PER DETAIL 9/C1.4.3
3. CWS LIDA SWALE WITH ROCKERY WALL, PER DETAIL 7/C1.4.3
4. WETLAND BOUNDARY.
5. VEGETATED CORRIDOR BOUNDARY.
6. NOT USED.
7. EXISTING ASPHALT PAVING TO REMAIN
8. INSTALL BICYCLE RACK. 3' O.C., IMBED MOUNT.
9. EXISTING EDGE OF PAVEMENT
10. PROPOSED NEW DECK AREA
11. EXISTING ACCESSIBLE PARKING STALL TO REMAIN
12. EXISTING EDGE OF VEGETATION LINE.
13. RE–STRIPE PARKING STALL LINES OVER THE TOP OF THE EXISTING LINES WITH 4" WIDE WHITE TRAFFIC RATED PAINT TO A STALL DEPTH OF 18 FT.
14. PEDESTRIAN RATED CONCRETE PER 4/C1.3.3. USE THICKENED EDGE AT CULVERT LOCATION PER DETAIL 6/C1.3.3.
15. CONCRETE WHEEL STOP PER 1/C1.3.3
16. 5' WIDE CRUSHED ROCK PATH PER 7/C1.3.3



DECIDUOUS TREE PLANTING DETAIL (1 / C1.3.2)
SCALE: N.T.S.



SHRUB/GRASS PLANTING DETAIL (2 / C1.3.2)
SCALE: N.T.S.



TREE STAKING/GUYING (3 / C1.3.2)
SCALE: N.T.S.

STORMWATER PLANTING LEGEND

FACILITY AREA: 170 SF
PLANTING REQUIREMENTS: 100 HERBACEOUS PLANTS & 4 SHRUBS PER 100 SF = 170 HERBACEOUS PLANTS AND 7 SHRUBS MINIMUM

SYM.	ABV.	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	REMARKS
TREES						
	AC	ACER CIRCINATUM	VINE MAPLE	8'–10'	2	B&B, 3 STEM
SHRUBS						
	CSK	CORNUS SERICEA 'KELSYI'	DWARF RED–OSIER DOGWOOD	#3 CONT.	12	
	MA	MAHONIA AQUIFOLIUM	OREGON GRAPE	#5 CONT.	4	
	SD	SPIRAEA DOUGLASII	DOUGLAS'S SPIRAEA	#5 CONT.	10	
	RS	RIBES SANGUINEUM	RED FLOWERING CURRANT	#5 CONT.	3	
HERB MIX						
		JUNCUS PATENS 'ELK BLUE'	CALIFORNIA GREY RUSH	#1 CONT.	170	@ 9" O.C. SPACING

PLANTING LEGEND

SYM.	ABV.	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	REMARKS
TREES						
	AC	ACER CIRCINATUM	VINE MAPLE	8'–10'	2	B&B, 3 STEM
	TO	THUJA OCCIDENTALIS	ARBORVITAE	5'–6'	11	B&B
SHRUBS						
	MA	MAHONIA AQUIFOLIUM	OREGON GRAPE	5 GAL	14	CAN
	PM	POLYSTICHUM MUNITUM	SWORD FERN	5 GAL	9	CAN
	VO	VACCINIUM OVATUM	HUCKLEBERRY	5 GAL	6	CAN
GROUNDCOVER						
	AU	ARCTOSTAPHYLOS UVA–URSI	BEARBERRY	1 GAL.	59	@ 30" O.C. SPACING

BID SET - 8/20/15

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REGISTERED LANDSCAPE ARCHITECT
189
MARK A. HADLEY
OREGON
04/20/84

REVISIONS			
NO.	BY	DATE	REMARKS

SHEET INFO	
DESIGNED	JJG
DRAWN	RAI
CHECKED	MAH
APPROVED	
LAST EDIT	8/21/2015
PLOT DATE	9/1/2015
SUBMITTAL	

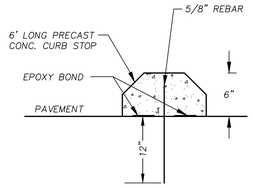
ENVIRONMENTAL EDUCATION CENTER SITE PLAN & LANDSCAPE PLAN

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

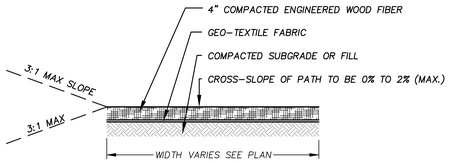
PROJECT NUMBER P000315W
DRAWING FILE NAME 035975-C-SP12
SCALE 1" = 10'

SHEET NUMBER
C1.3.2

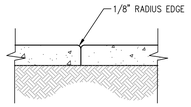
DATE: 9/1/2015 8:52 AM] [AUTHOR: asimpson] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
[PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-SP12.dwg] [LAYOUT: C1.3.2 ENVIRONMENTAL EDUCATION CENTER SITE PLAN & LANDSCAPE PLAN]



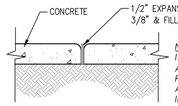
CONCRETE WHEEL STOP (1 / C1.3.3)
SCALE: N.T.S.



SOFT SURFACE PATH (3 / C1.3.3)
SCALE: N.T.S.

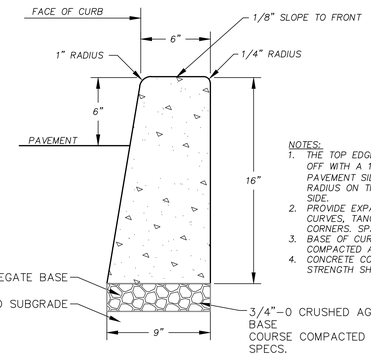


CONSTRUCTION JOINT



NOTE:
ISOLATION JOINTS TO BE USED AT ALL PT'S, PC'S, DRIVEWAYS, POSTS, LIGHTS, FIRE HYDRANTS, AND ALL OTHER STRUCTURES IN WALKS.

EXPANSION/ISOLATION JOINT

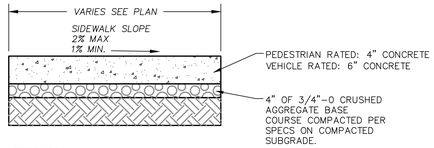


NOTES:
1. THE TOP EDGE TO BE ROUNDED OFF WITH A 1" RADIUS ON THE PAVEMENT SIDE AND 1/4" RADIUS ON THE LANDSCAPED SIDE.
2. PROVIDE EXPANSION JOINTS AT CURVES, TANGENTS, AND CORNERS. SPACING PER SPEC.
3. BASE OF CURB TO REST ON COMPACTED AGGREGATE BASE.
4. CONCRETE COMPRESSIVE STRENGTH SHALL BE PER SPECS.

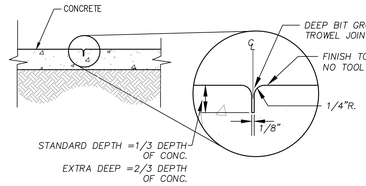
CONCRETE CURB (2 / C1.3.3)
SCALE: N.T.S.

NOTES:

1. PROVIDE EXPANSION JOINT WHERE NEW WORK ABUTS EXISTING CONSTRUCTION.
2. PROVIDE WEAKENED PLANE CONTRACTION JOINTS IN SIDEWALK AT A MAXIMUM SPACING OF 5 FT.
3. SIDEWALKS & PLAZA AREAS SHALL BE LIGHTLY BROOM-FINISHED WITH DIRECTION OF BROOMING PERPENDICULAR TO DIRECTION OF TRAFFIC, UNLESS OTHERWISE INDICATED.
4. SCORE SIDEWALKS AS SHOWN ON PLANS

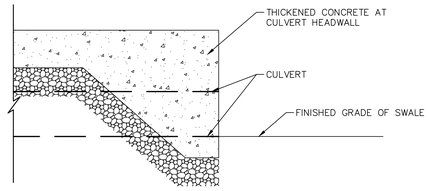


PEDESTRIAN / VEHICLE RATED CONCRETE (4 / C1.3.3)
SCALE: N.T.S.

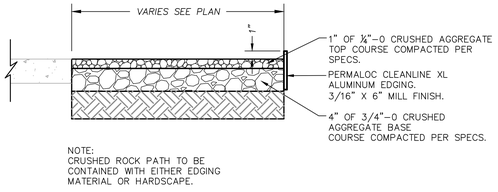


WEAKENED-PLANE CONTRACTION JOINT

CONTROL JOINTS (5 / C1.3.3)
SCALE: N.T.S.

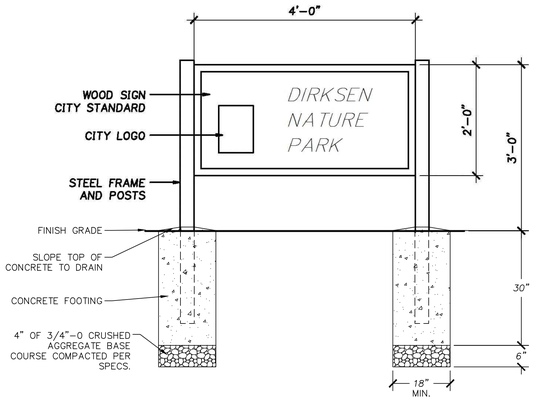


THICKENED EDGE CONCRETE DETAIL (6 / C1.3.3)
SCALE: N.T.S.



NOTE:
CRUSHED ROCK PATH TO BE CONTAINED WITH EITHER EDGING MATERIAL OR HARDSCAPE.

CRUSHED ROCK PATH (7 / C1.3.3)
SCALE: N.T.S.



SIGN DETAIL (8 / C1.3.3)
SCALE: N.T.S.

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REGISTERED LANDSCAPE ARCHITECT
189
MARK A. HADLEY
OREGON
04/20/84

REVISIONS			
NO.	BY	DATE	REMARKS

SHEET INFO	
DESIGNED	JJG
DRAWN	RAI
CHECKED	MAH
APPROVED	
LAST EDIT	1/8/2015
PLOT DATE	8/18/2015
SUBMITTAL	

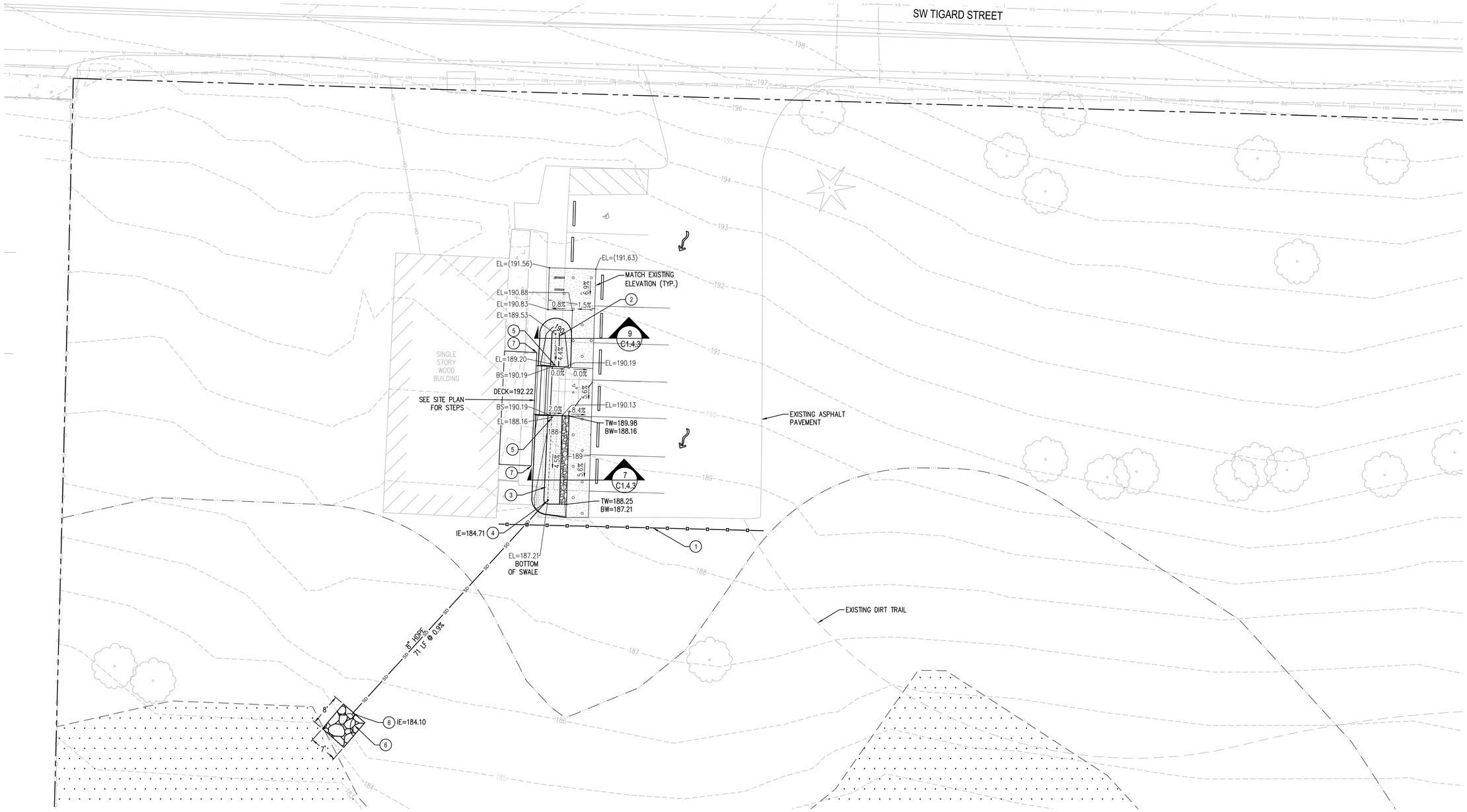
SITE DETAILS

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER: P000315W
DRAWING FILE NAME: 035975-C-DT13
SCALE: AS SHOWN

SHEET NUMBER
C1.3.3

DATE: 8/18/2015 4:44 PM] [AUTHOR: jmaynard] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-DT13.dwg] [LAYOUT: C1.3.3 SITE DETAILS]



ABBREVIATIONS

BS	BOTTOM OF STAIRS
BW	BOTTOM OF WALL
EL	ELEVATION
IE	INVERT ELEVATION
TW	TOP OF WALL

LEGEND

- 250 — EXISTING GROUND CONTOUR
- 250 — PROPOSED GROUND CONTOUR
- PROPERTY LINE
- WETLAND BOUNDARY
- WETLAND BUFFER
- WETLAND
- CONCRETE WALK
- CRUSHED ROCK PATCH
- EXISTING TREE GROVE EDGE
- WATTLES
- SD — STORM LINE
- PERFORATED PIPE
- EXISTING DRAINAGE FLOW ARROW

(1) GENERAL KEYNOTES:

1. EROSION CONTROL WATTLES (FOR DETAIL SEE 2/C1.4.3)
2. LIDA SWALE (FOR DETAIL SEE 9/C1.4.3).
3. LIDA SWALE WITH ROCKERY WALL (FOR DETAIL SEE 7/C1.4.3)
4. AREA DRAIN, RIM=187.71 (FOR DETAIL, SEE 4/C1.4.3)
5. 6" CONCRETE CULVERT UNDER CONCRETE WALK. PIPE TO EXTEND FLUSH WITH THICKENED EDGE CONCRETE PER DETAIL 6/C1.3.3.
6. RIPRAP BASIN, 8'L X 7'W X 1.5'T, CLASS 50 RIPRAP, GEOTEXTILE TYPE 1 UNDER RIPRAP
7. DOWNSPOUTS DISCHARGE AT GROUND LEVEL ONTO SPLASH PAD. DRAIN TO WATER QUALITY SWALE.
8. 8" STORM OUTFALL PIPE. MITER END OF PIPE TO MATCH SLOPE.

N

SCALE

10 0 5 10 20

(FEET)
1 INCH = 10 FT.

BID SET - 8/20/15

WHPacific
9755 SW Barnes Rd, Suite 300
Portland, OR 97225
503-626-0455 Fax 503-526-0775
www.whpacific.com

REGISTERED PROFESSIONAL ENGINEER 58365PE OREGON JULY 30, 1982 MONTE SCOTT HUGHES

EXPIRES: 06/30/2017

REVISIONS			
NO.	BY	DATE	REMARKS

SHEET INFO	
DESIGNED	JJG
DRAWN	JKM
CHECKED	MSH
APPROVED	
LAST EDIT	9/1/2015
PLOT DATE	9/1/2015
SUBMITTAL	

GRADING, EROSION CONTROL, AND UTILITY PLAN
AREA 1
CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

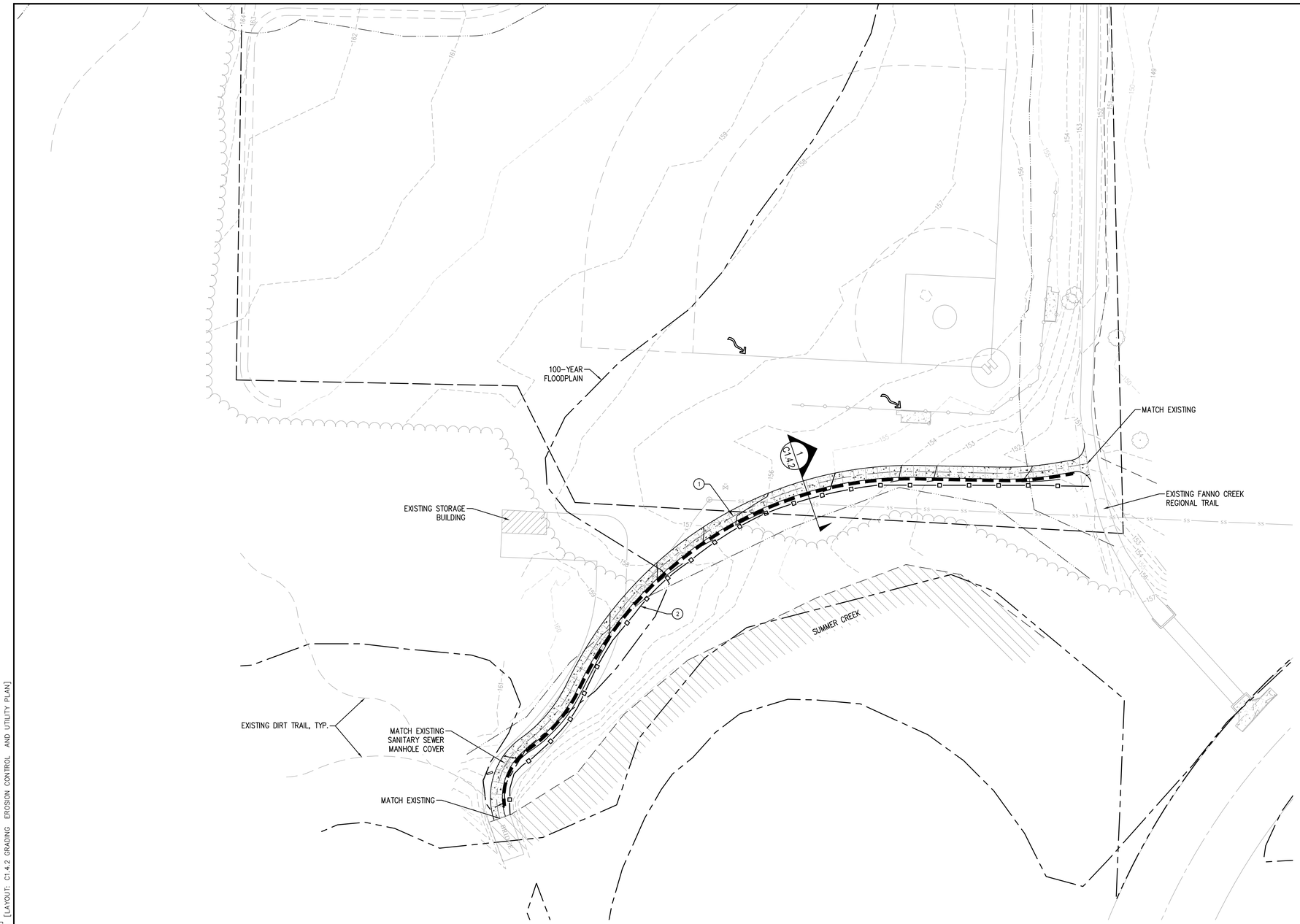
PROJECT NUMBER P000315W

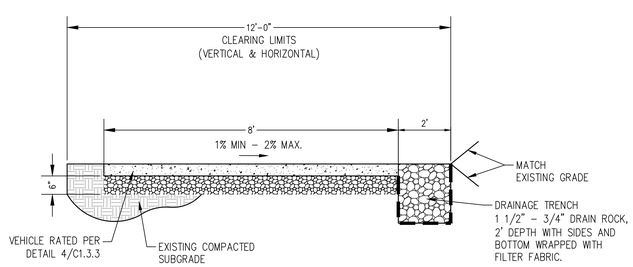
DRAWING FILE NAME 035975-C-GP11

SCALE AS SHOWN

SHEET NUMBER C1.4.1

DATE: 9/1/2015 8:28 AM] [AUTHOR: asimpson] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
[PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-GP11.dwg] [LAYOUT: C1.4.1 GRADING EROSION CONTROL AND UTILITY PLAN]





CONCRETE PATH (1 / C1.4.2)
SCALE: N.T.S.

DRAINAGE TRENCH NOTE:
PROTECT TREE ROOTS GREATER THAN 4" DIA. ALL OTHER IMPACTED OR DAMAGED ROOTS NEED TO BE CUT PERPENDICULAR AND SEALED USING A PRUNING SEALER.

LEGEND

- EXISTING GROUND CONTOUR (250)
- PROPOSED GROUND CONTOUR (250)
- PROPERTY LINE
- WATTLES
- EXIST. SANITARY LINE
- WETLAND
- DRAINAGE TRENCH
- WETLAND BUFFER
- EXISTING DRAINAGE FLOW ARROW
- CONCRETE WALK
- EXISTING TREE GROVE EDGE
- OHW SUMMER CREEK
- FLOOD PLAIN: CITY OF TIGARD GIS MAPS CWS FEMA 100 YEAR FLOOD

(1) GENERAL KEYNOTES:

1. CONCRETE PATH PER SECTION 2/C1.4.2.
2. EROSION CONTROL WATTLES PER DETAIL 2/C1.4.3.

N

SCALE
30 0 15 30 60
(FEET)
1 INCH = 30 FT.

BID SET - 8/20/15

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Portland, OR 97225
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www.whpacific.com

REGISTERED PROFESSIONAL ENGINEER
58365PE
OREGON
JULY 30, 2002
MONTE SCOTT HIGREE
EXPIRES: 06/30/2017

REVISIONS			
NO.	BY	DATE	REMARKS

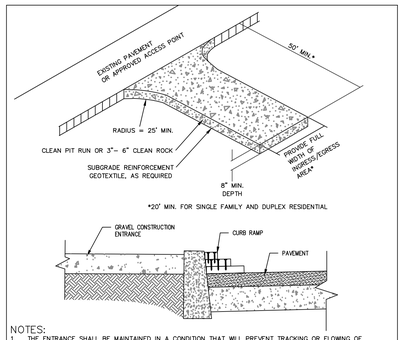
SHEET INFO	
DESIGNED	JJG
DRAWN	JKM
CHECKED	MSH
APPROVED	
LAST EDIT	8/19/2015
PLOT DATE	8/19/2015
SUBMITTAL	

GRADING, EROSION CONTROL, AND UTILITY PLAN
AREA 3
CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER: P000315W
DRAWING FILE NAME: 035975-C-GP12
SCALE: AS SHOWN

SHEET NUMBER
C1.4.2

DATE: 8/19/2015 4:33 PM] [AUTHOR: jgillies] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
[PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-GP12.dwg] [LAYOUT: C1.4.2 GRADING EROSION CONTROL AND UTILITY PLAN]



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF– WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. WHERE RUNOFF CONTAINING SEDIMENT LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
5. DIMENSIONS
   SINGLE FAMILY
   20' LONG BY 20' WIDE 8" DEEP OF ¾" MINUS CLEAN ROCK.
   COMMERCIAL
   50' LONG BY 20' WIDE 3–6" CLEAN ROCK,
   GOVERNING AUTHORITY MAY REQUIRE GEOTEXTILE FABRIC TO PREVENT SUB–SOIL PUMPING.

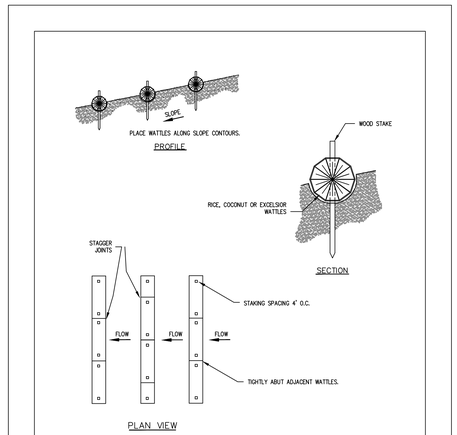
FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

CONSTRUCTION ENTRANCE

Detail Drawing 855 REVISED 12–06

CleanWater Services — Our commitment is clear.

CONSTRUCTION ENTRANCE 1 C1.4.3
SCALE: N.T.S.



NOTES:
1. STAKING SPECIFICATIONS:
   a. 1"x2" WOODEN STAKES
   b. ADDITIONAL STAKES MAY BE INSTALLED ON DOWNHILL SIDE OF WATTLES, ON STEEP SLOPE OR HIGHLY EROSIVE SOILS.
2. SPACING IN ACCORDANCE WITH DETAIL 940.

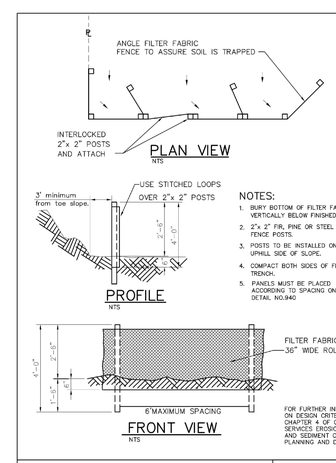
FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

WATTLES

DRAWING NO. 880 REVISED 12–06

CleanWater Services — Our commitment is clear.

WATTLES 2 C1.4.3
SCALE: N.T.S.



NOTES:
1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2"x 2" FIR, PINE OR STEEL FENCE POSTS.
3. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.
4. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
5. PANELS MUST BE PLACED ACCORDING TO SPACING ON DETAIL NO.940

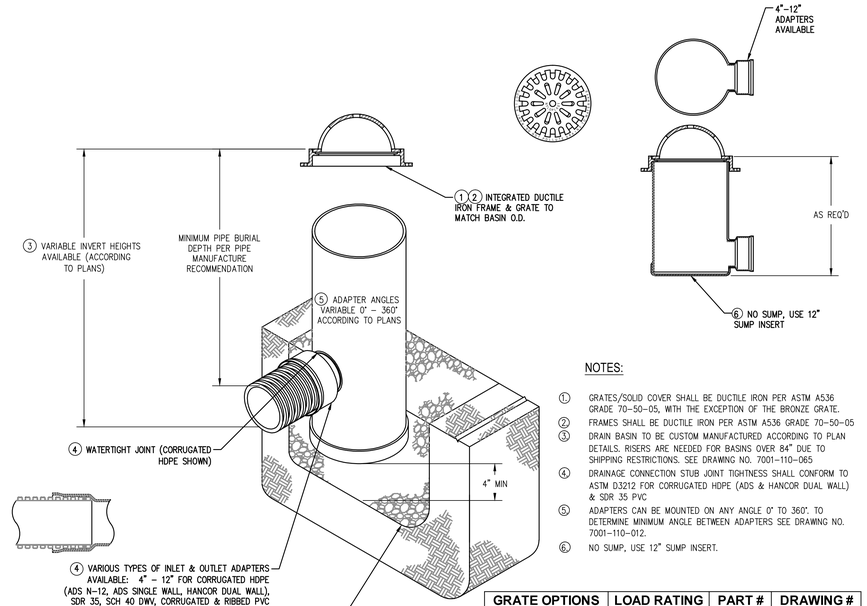
FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

SEDIMENT FENCE

DRAWING NO. 875 REVISED 12–06

CleanWater Services — Our commitment is clear.

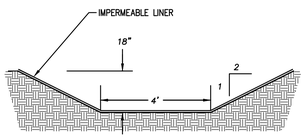
SEDIMENT FENCE 3 C1.4.3
SCALE: N.T.S.



NOTES:
① GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70–50–05, WITH THE EXCEPTION OF THE BRONZE GRATE.
② FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70–50–05
③ DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001–110–065
④ DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
⑤ ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001–110–012.
⑥ NO SUMP, USE 12" SUMP INSERT.

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
~~PEDESTRIAN~~	~~MEETS H-10~~	~~1299CGP~~	~~7001-110-202~~
~~STANDARD~~	~~MEETS H-20~~	~~1299CGC~~	~~7001-110-203~~
SOLID COVER	MEETS H-20	1299CGC	7001-110-204
~~PEDESTRIAN BRONZE~~	~~LIGHT DUTY~~	~~1299CGPB~~	~~7001-110-205~~
DOME	N/A	1299CGD	7001-110-206
~~DROP IN GRATE~~	~~LIGHT DUTY~~	~~1201DI~~	~~7001-110-021~~

12" NYLOPLAST AREA DRAIN 4 C1.4.3
SCALE: N.T.S.

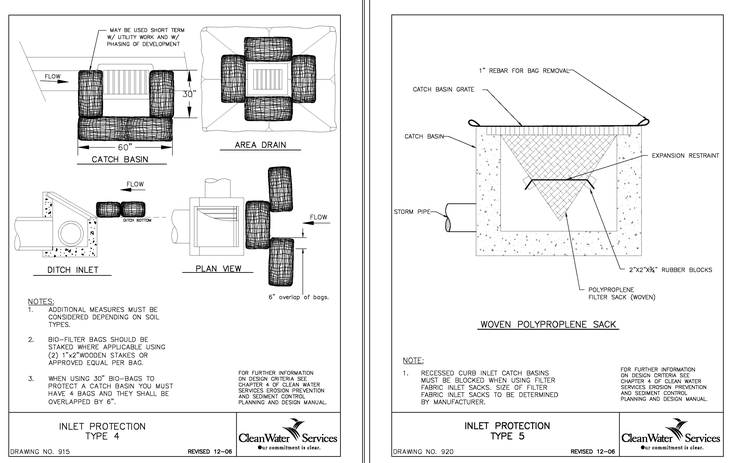


4'X4' BOTTOM, 2 TO 1 SLOPE TO SIDES

CONTRACTOR SHALL TAKE PRECAUTIONS TO NOT OVERFLOW PIT.

NOTE: CONTRACTOR CAN USE MANUFACTURED TRAY'S (ECO–PAN OR EQUAL), OR A LINED PIT AS SHOWN ABOVE.

CONCRETE TRUCK CHUTE WASHOUT 5 C1.4.3
SCALE: N.T.S.



NOTES:
1. ADDITIONAL MEASURES MUST BE CONSIDERED DEPENDING ON SOIL TYPES.
2. BIO–FILTER BAGS SHOULD BE STAKED WHERE APPLICABLE USING (2) 1"x2"WOODEN STAKES OR APPROVED EQUAL PER BAG.
3. WHEN USING 30" BIO–BAGS TO PROTECT A CATCH BASIN YOU MUST HAVE 4 BAGS AND THEY SHALL BE OVERLAPPED BY 6".

FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

INLET PROTECTION TYPE 4

DRAWING NO. 915 REVISED 12–06

CleanWater Services — Our commitment is clear.

NOTE:
1. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER FABRIC INLET SACKS TO BE DETERMINED BY MANUFACTURER.

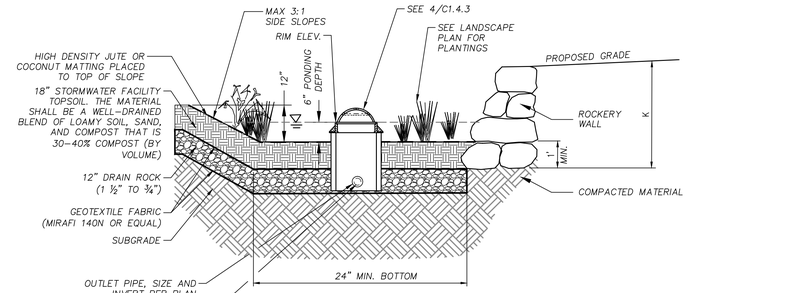
FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

INLET PROTECTION TYPE 5

DRAWING NO. 920 REVISED 12–06

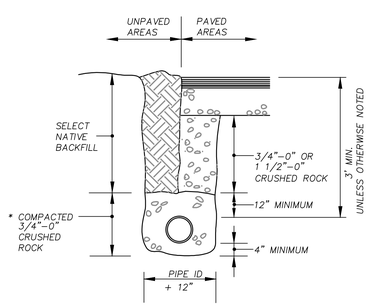
CleanWater Services — Our commitment is clear.

INLET PROTECTION 6 C1.4.3
SCALE: N.T.S.



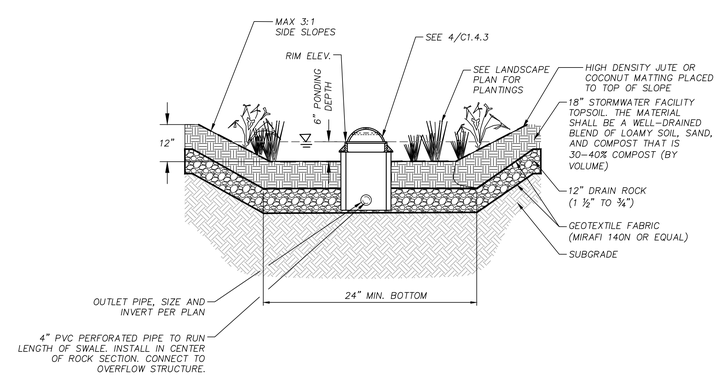
NOTES:
1. ALL ROCK SHALL BE ANGULAR QUARRY ROCK WITH MINIMUM 150 p.c.f. DENSITY. ROCK SHALL BE SOLID WITHOUT INTERNAL FRACTURES.
2. ALL ROCK SHALL BE TIGHTLY NESTED WITH FLAT SIDE DOWN. LARGER ROCKS TO BE PLACED AT BOTTOM OF WALL. ROCKS TO RANGE FROM 100 LBS. TO 5,000 LBS. ON WALLS OVER 4' IN HEIGHT. LANDSCAPE WALLS SHALL USE MINIMUM 10" DIAMETER ROCKS.
3. ALL CONSTRUCTION SHALL CONFORM WITH AMERICAN ROCKERY ASSC. GUIDELINES FOR CONSTRUCTION OF ALL ROCKERY WALLS.
4. IF FIELD CONDITIONS CAUSE WALL DIMENSION 'K' TO EXCEED 4', CONTACT ENGINEER FOR STRUCTURAL REVIEW.

LIDA SWALE WITH ROCKERY WALL 7 C1.4.3
SCALE: N.T.S.



* SELECT NATIVE MATERIAL IN LANDSCAPE AREAS FOR TELE., ELEC. AND GAS.

UTILITY TRENCH 8 C1.4.3
SCALE: N.T.S.



LIDA SWALE 9 C1.4.3
SCALE: N.T.S.

BID SET - 8/20/15

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Portland, OR 97225
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REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 30, 2002 — MONTE SCOTT HUDGENS — EXPIRES: 06/30/2017

REVISIONS			
NO.	BY	DATE	REMARKS

SHEET INFO			
DESIGNED	----	----	
DRAWN	----	----	
CHECKED	----	----	
APPROVED	----	----	
LAST EDIT	9/1/2015	9/1/2015	
PLOT DATE	9/1/2015		
SUBMITTAL			

GRADING, EROSION CONTROL, AND UTILITY DETAILS

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER P000315W
DRAWING FILE NAME 035975-C-DT14
SCALE AS SHOWN

SHEET NUMBER C1.4.3

[DATE: 9/1/2015 8:44 AM] [AUTHOR: asimpson] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
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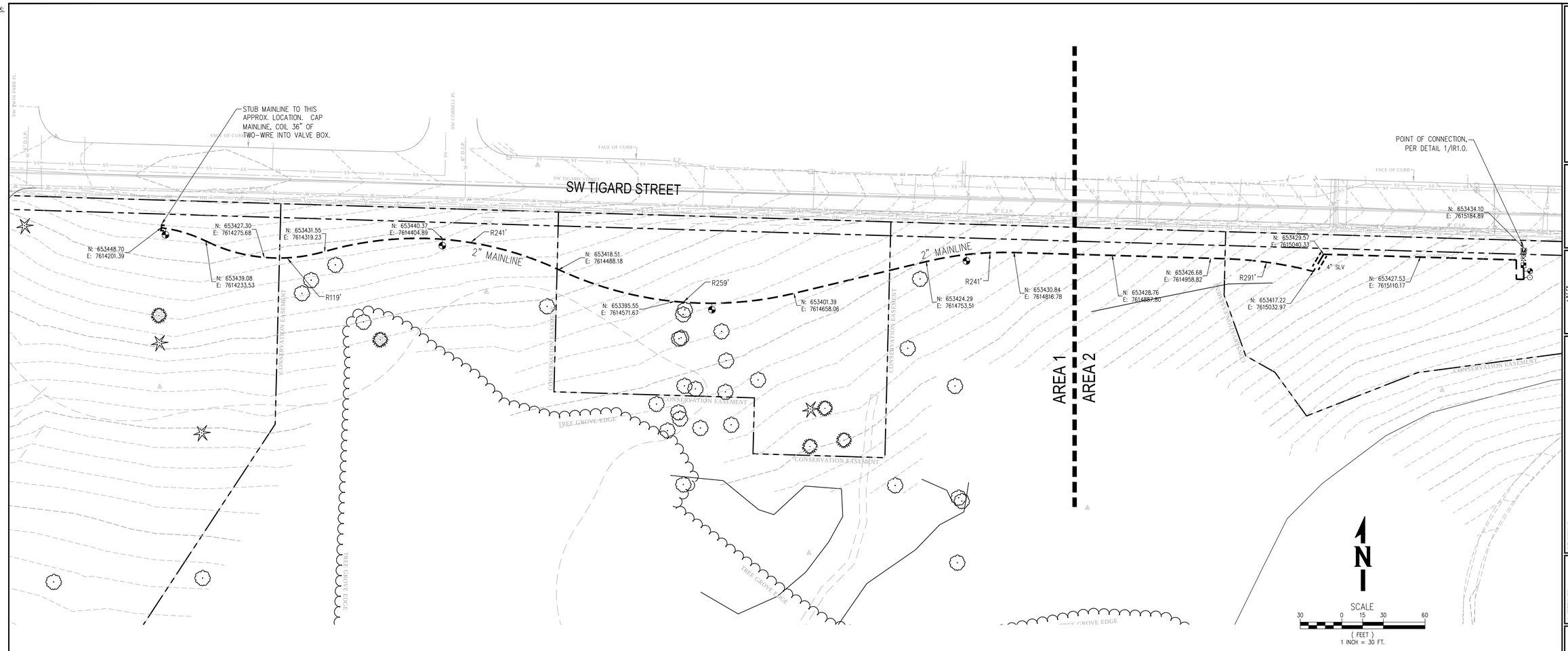
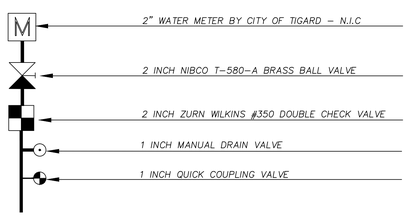
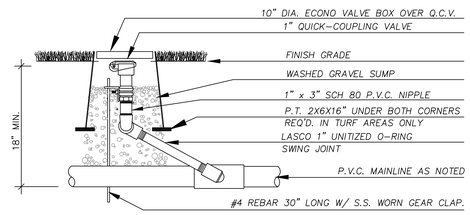
XREF INDEX:





POINT OF CONNECTION SCHEMATIC — 1 / IR1.1.1
SCALE: N.T.S.



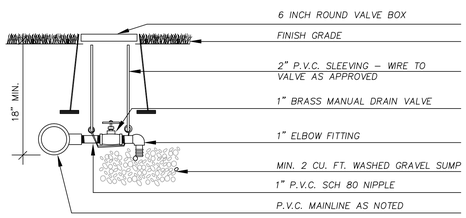
QUICK-COUPLING VALVE DETAIL — 2 / IR1.1.1
SCALE: N.T.S.

GENERAL KEY

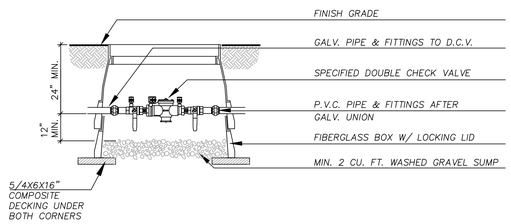
- SCHEDULE 40 SLEEVES –4"–6" AS NOTED
- CLASS 200 PVC MAINLINE PIPE – SIZE AS NOTED
- M — 2 INCH WATER METER BY CITY OF TIGARD
- 2" NIBCO T-580-A BRASS BALL VALVE OR APPROVED EQUAL.
- 2" ZURN WILKINS MODEL 350 DOUBLE CHECK VALVE ASSEMBLY OR APPROVED EQUAL.
- HUNTER HQ5-RC 1" QUICK COUPLING VALVE.
- 1" MANUAL DRAIN VALVE

GENERAL NOTES

- INSTALL TWO-WIRE PATH (HUNTER 1D1, 14AWG) ALONG ALL MAINLINE LOCATIONS. TWIST AND TAPE TO MAINLINE EVERY 5' OC. AVOID WIRE SPLICES TO THE EXTENT POSSIBLE. ALL WIRE SPLICES MUST BE MADE IN A VLAVLE BOX WITH DIRECT-BURIAL WATERPROOF CONNECTORS.
- INSTALL VALVE BOXES PERPENDICULAR TO WALLS, WALKS AND CURBS.
- MAINLINE LOCATION SHOWN ON PLANS IS 4 FEET FROM THE SOUTH EDGE OF THE PROPOSED PEDESTRIAN MULTI-USE PATH.



MANUAL DRAIN VALVE DETAIL — 3 / IR1.1.1
SCALE: N.T.S.



DOUBLE CHECK VALVE DETAIL — 4 / IR1.1.1
SCALE: N.T.S.

CALL BEFORE YOU DIG

POTENTIAL UNDERGROUND FACILITY OWNERS
"ONE CALL"
UTILITY NOTIFICATION CENTER
1-800-332-2344

ATTENTION:
OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090, YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 1-800-332-2344 or 811).

BID SET - 8/20/15

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REGISTERED LANDSCAPE ARCHITECT
189
MARK A. HADLEY
OREGON
04/20/84

REVISIONS			
NO.	BY	DATE	REMARKS

SHEET INFO	
DESIGNED	MPS
DRAWN	MPS
CHECKED	MAH
APPROVED	MAH
LAST EDIT	8/20/2015
PLOT DATE	8/20/2015
SUBMITTAL	

IRRIGATION PLAN & DETAILS
MAINLINE LAYOUT
CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER: P000315W
DRAWING FILE NAME: 035975-C-IR11
SCALE: 1"=60'-0"

SHEET NUMBER
IR1.1.1

[DATE: 8/20/2015 11:40 AM] [AUTHOR: msimpson] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
[PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-C-IR11.dwg] [LAYOUT: IR1.1 IRRIGATION PLAN & DETAILS]

Dirksen Park Environmental Education Center

RYD
robert yakas design

Dirksen Park Environmental Education Center

January 5, 2015 :: Tigard Oregon

BID SET - 8/20/15

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REVISIONS			
NO.	BY	DATE	REMARKS

SHEET INFO	
DESIGNED	---
DRAWN	---
CHECKED	---
APPROVED	---
LAST EDIT	1/9/2015
PLOT DATE	8/18/2015
SUBMITTAL	

ENVIRONMENTAL EDUCATION CENTER PLANS

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER: P000315W
DRAWING FILE NAME: 035975-A-AP11
SCALE: ---

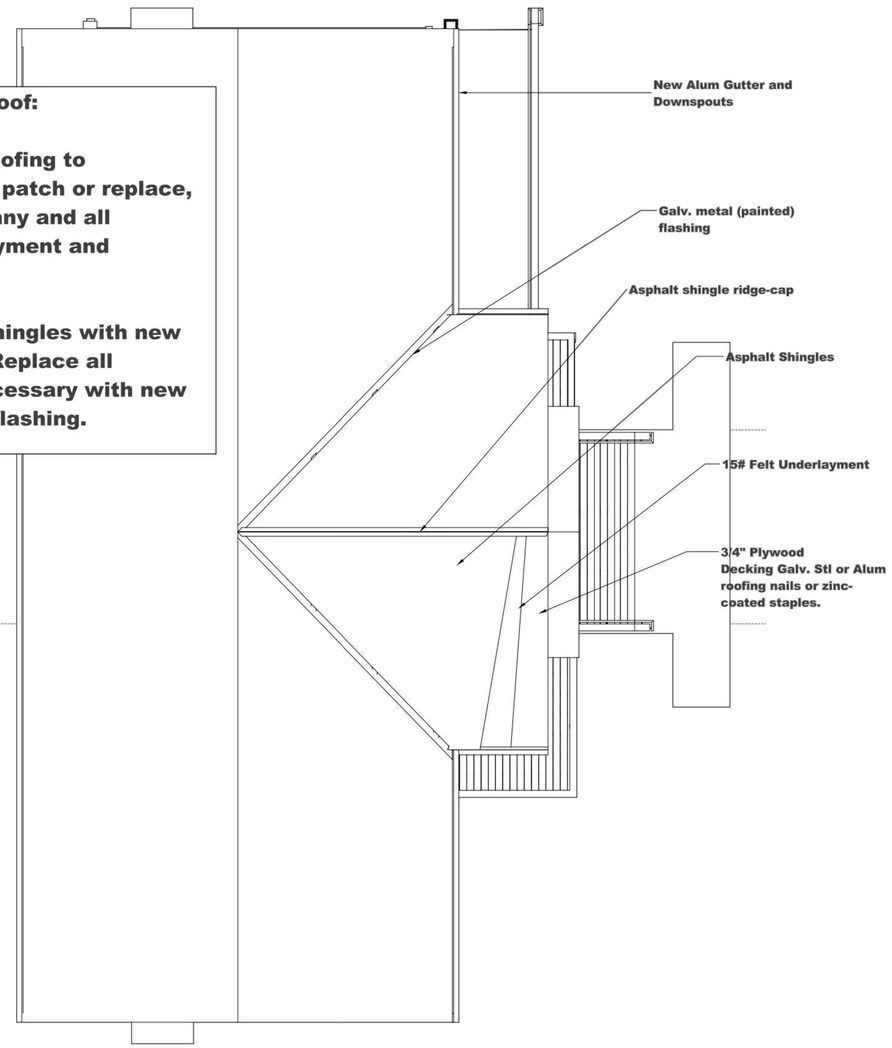
SHEET NUMBER
A1.0

[DATE: 8/18/2015 4:58 PM] [AUTHOR: jgillies] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
[PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 1\035975-A-AP11.dwg] [LAYOUT: 1]

Replace Existing Roof:

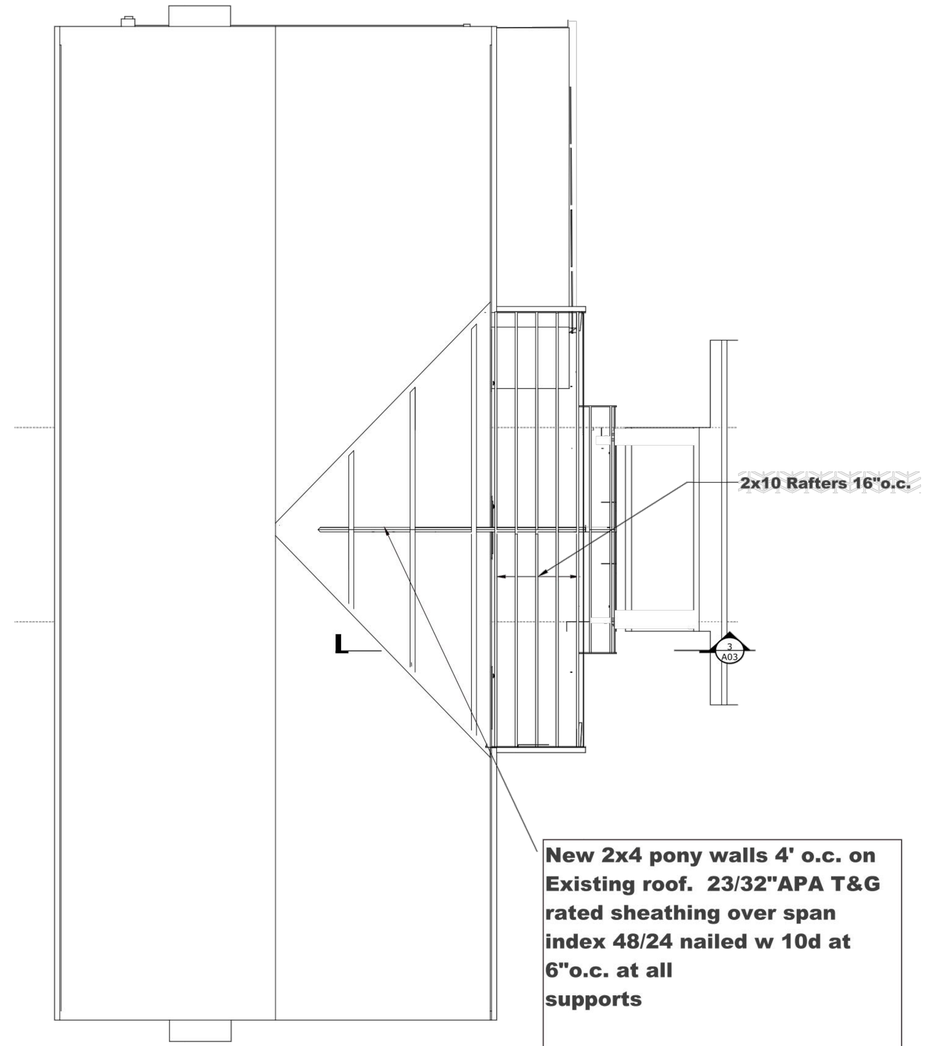
Remove existing roofing to sheathing. Repair, patch or replace, where necessary, any and all sheathing, underlayment and flashing.

Replace existing shingles with new asphalt shingles. Replace all flashing, where necessary with new zinc coated metal flashing.



1 / A00 **Roof Plan**

Scale: 1/4" : 1'-0"



New 2x4 pony walls 4' o.c. on Existing roof. 23/32"APA T&G rated sheathing over span index 48/24 nailed w 10d at 6"o.c. at all supports

2 / A00 **Roof Framing Plan**

Scale: 1/4" : 1'-0"

:: PROJECT TITLE ::

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CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER: P0003150W
DRAWING FILE NAME: 035975-A-AP11
SCALE: ---

SHEET NUMBER
A1.1

DATE: 8/18/2015 4:59 PM [AUTHOR: jgillies] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
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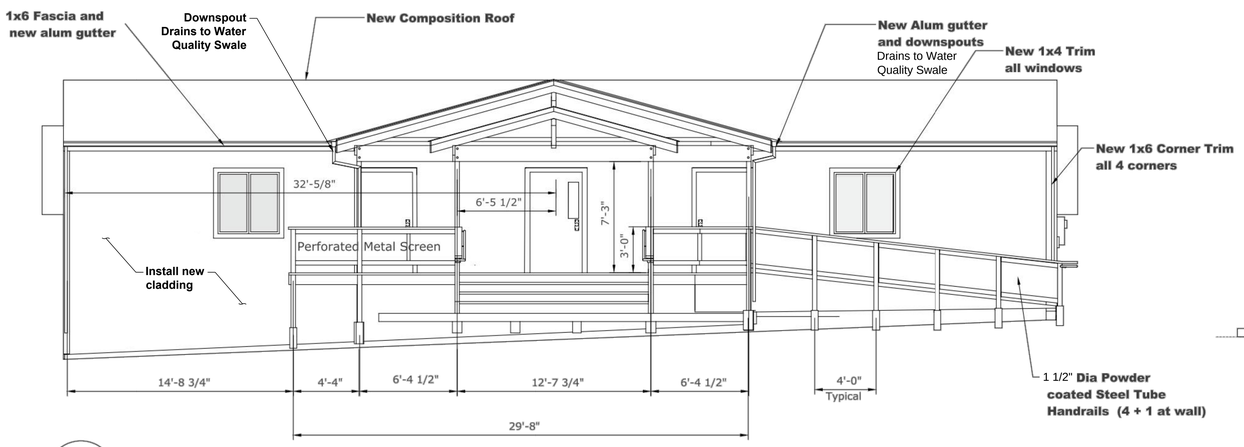
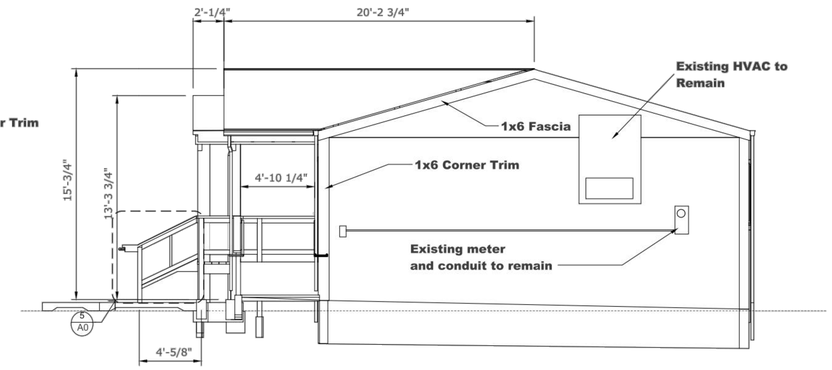


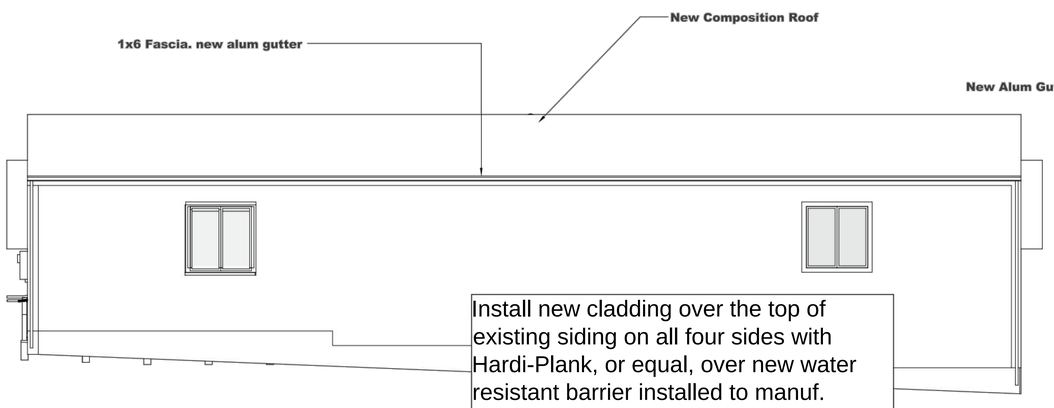
1 Aoo A1.2 **East Elevation**

Scale: 1/4" : 1'-0"



2 Aoo A1.2 **North Elevation**

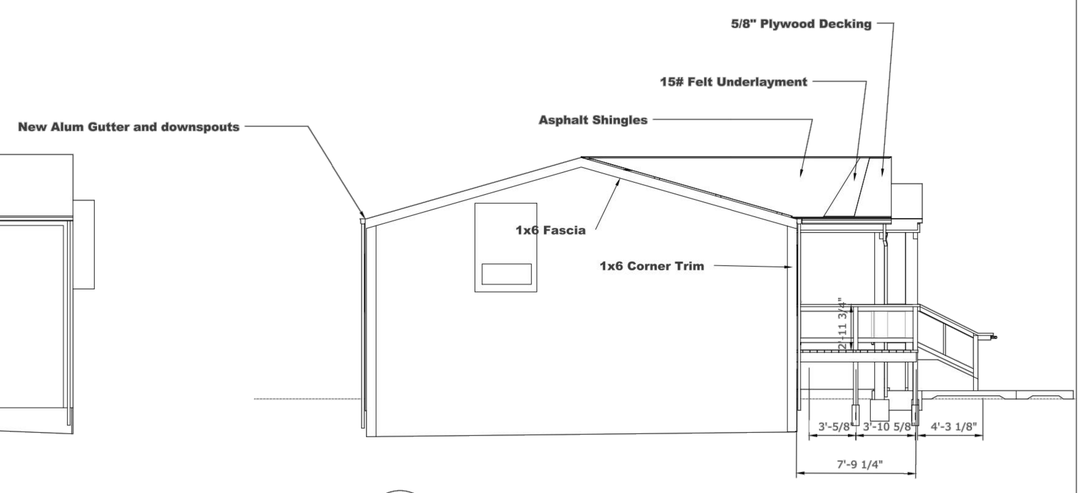
Scale: 1/4" : 1'-0"



Install new cladding over the top of existing siding on all four sides with Hardi-Plank, or equal, over new water resistant barrier installed to manuf. specs with manuf. joint flashing. Provide "rain screen" detailing - furring on top of water resistant barrier - 1x material, 2' o.c.

3 Aoo A1.2 **West Elevation**

Scale: 1/4" : 1'-0"



4 Aoo A1.2 **South Elevation**

Scale: 1/4" : 1'-0"

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PROJECT NUMBER P000315W

DRAWING FILE NAME 035975-A-AP11

SHEET NUMBER A1.2

[DATE: 8/21/2015 12:34 PM] [AUTHOR: asimpson] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
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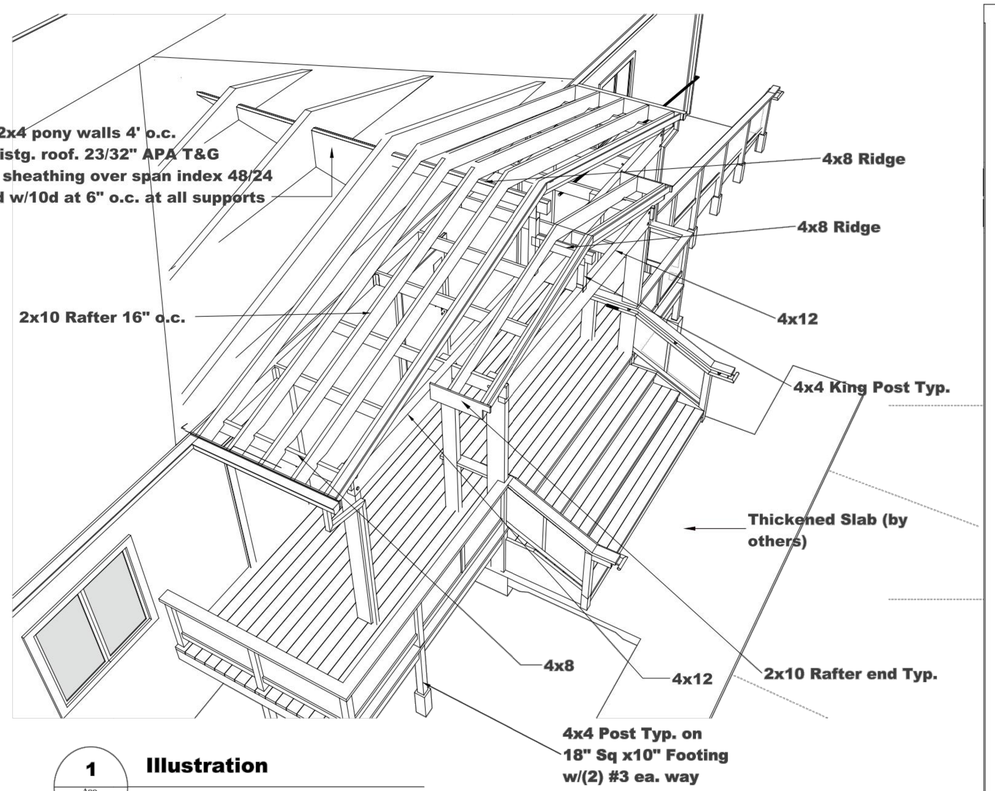
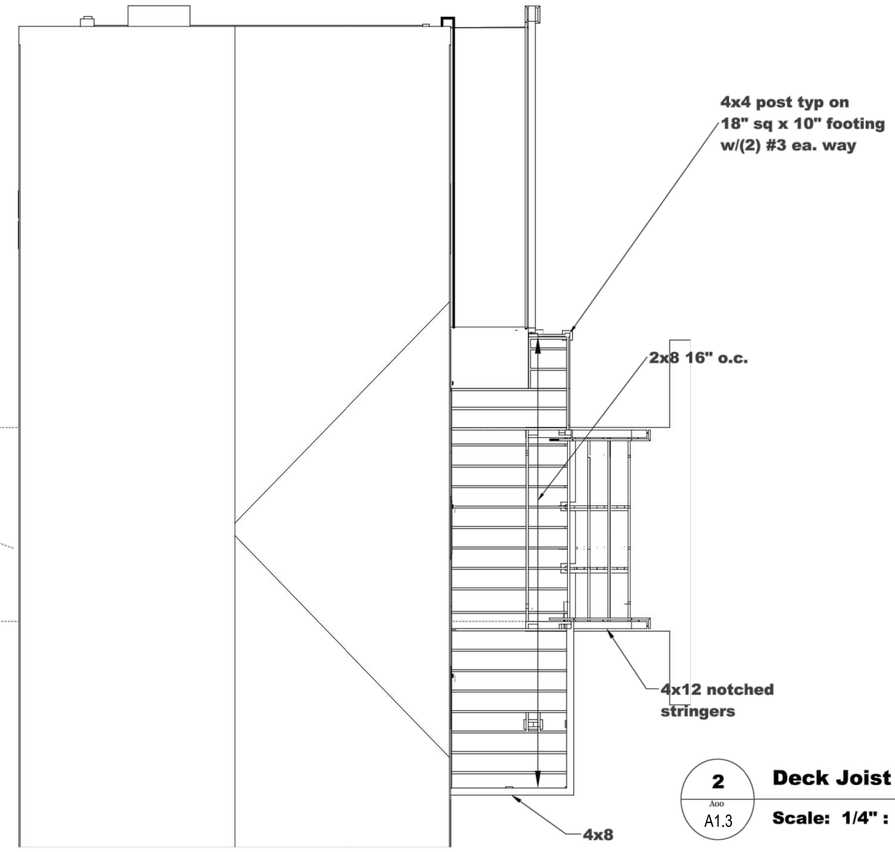


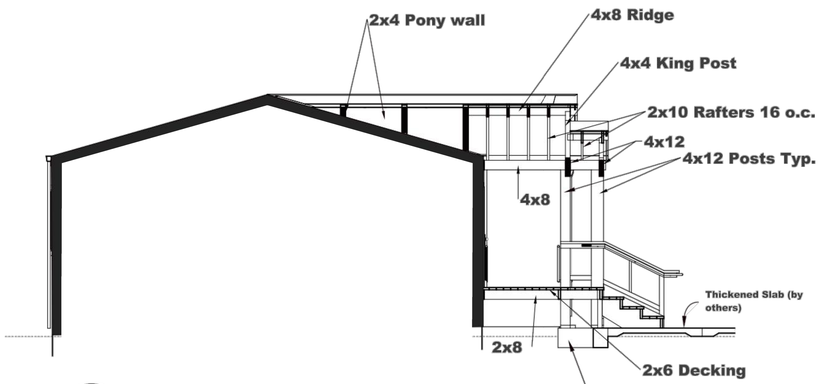
1 A00 A1.3 **Illustration**

No Scale



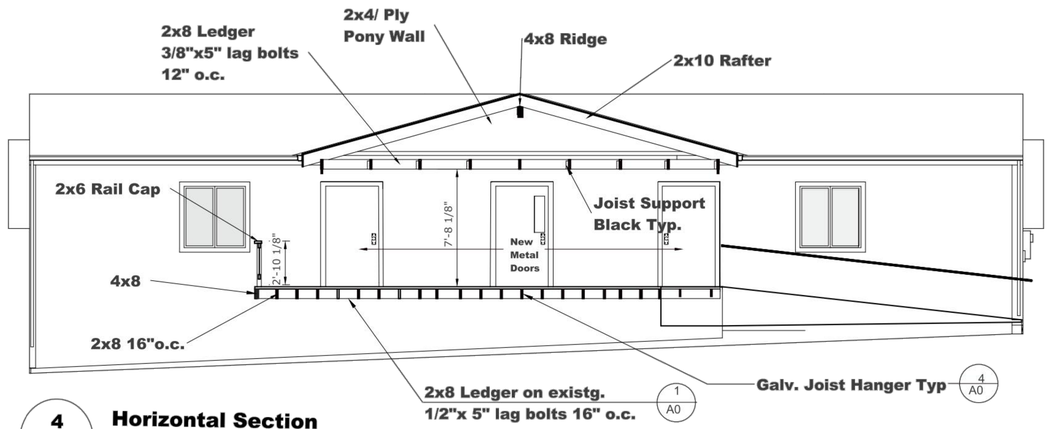
2 A00 A1.3 **Deck Joist Plan**

Scale: 1/4" : 1'-0"



3 A00 A1.3 **Vertical Section**

Scale: 1/4" : 1'-0"



4 A00 A1.3 **Horizontal Section**

Scale: 1/4" : 1'-0"

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CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER P000315W

DRAWING FILE NAME 035975-A-AP11

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SHEET NUMBER A1.3

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DATE: 8/18/2015 5:04 PM] [AUTHOR: jgillies] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
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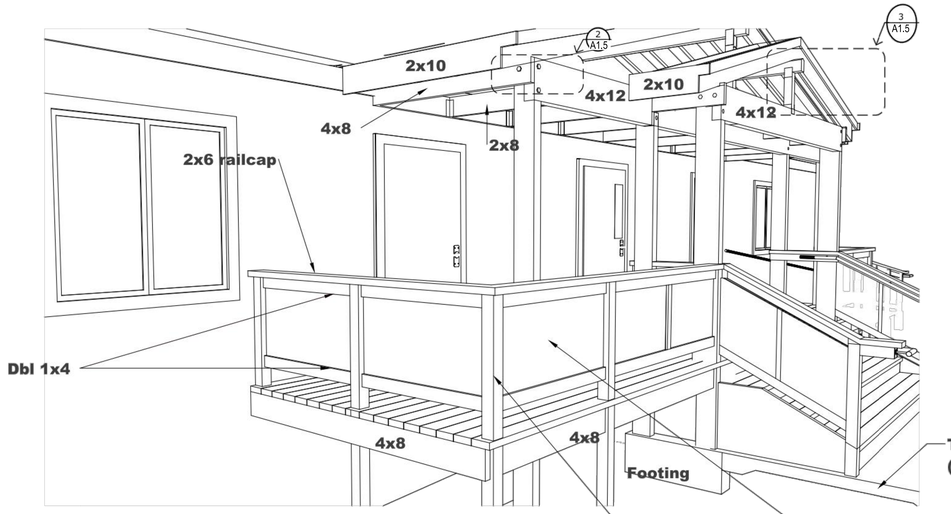
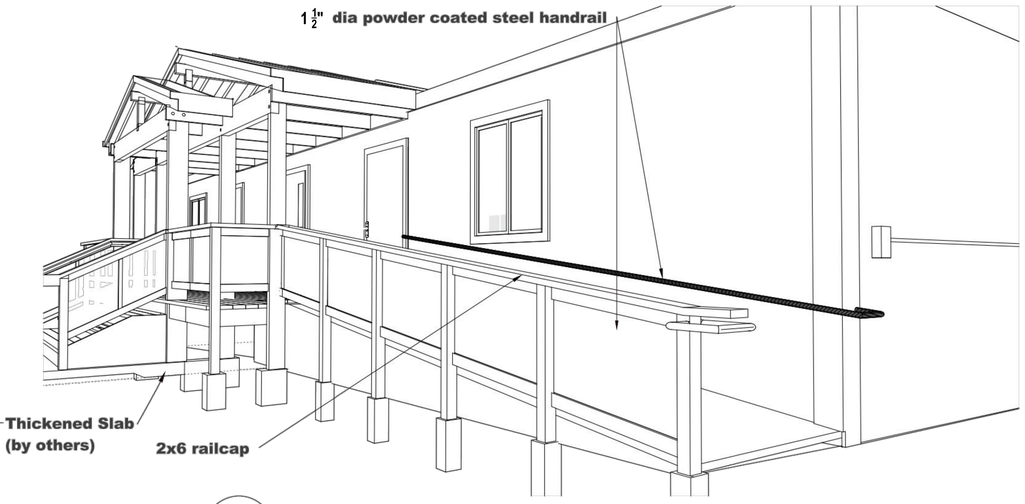


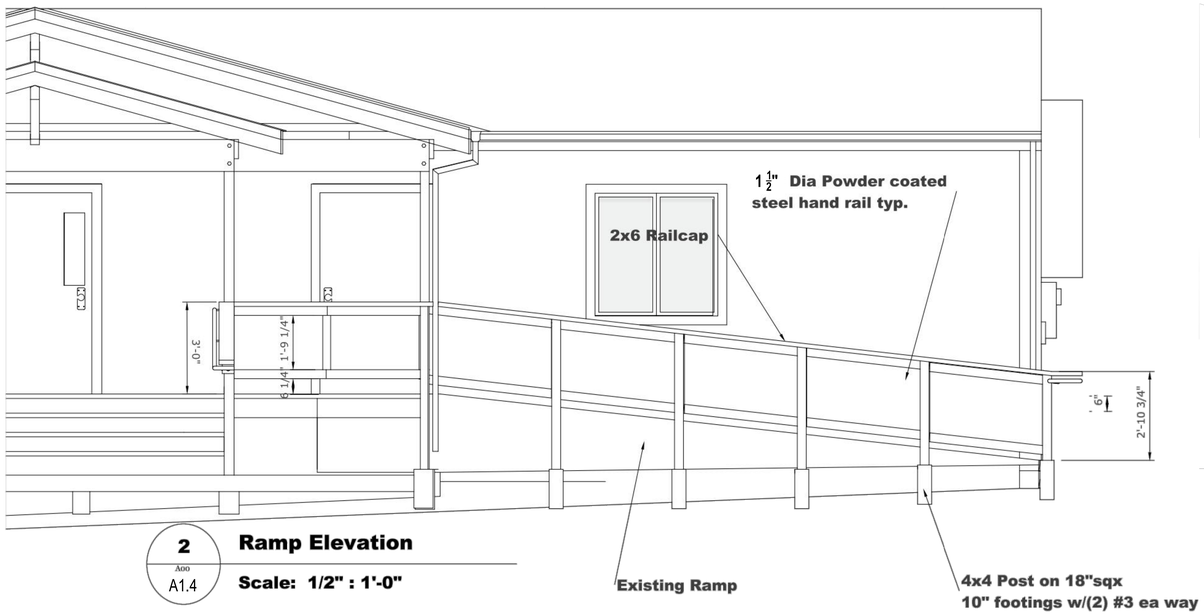
1 Aoo A1.4 **Railing Illustration**

No Scale



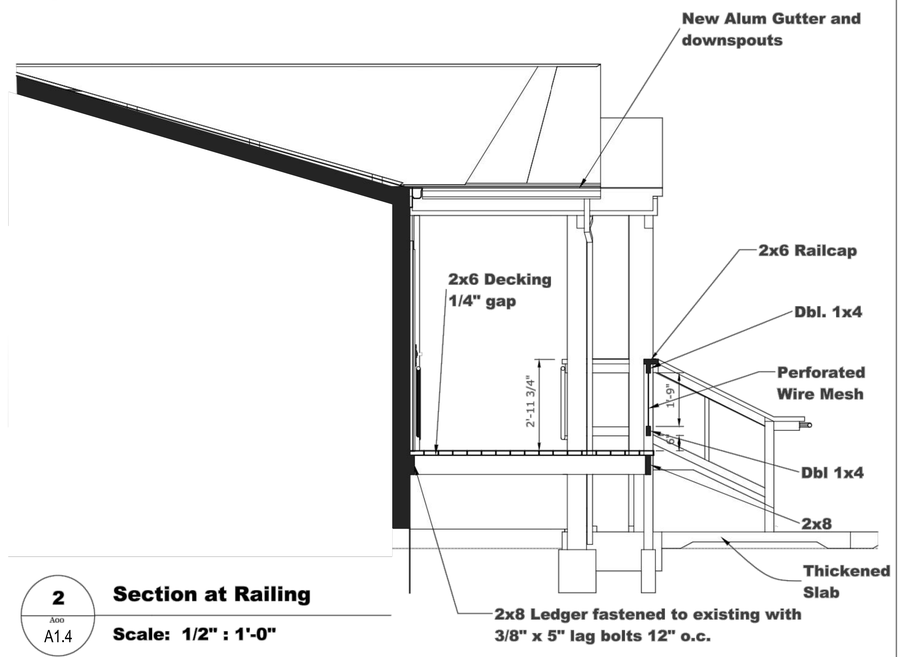
2 Aoo A1.4 **Ramp Illustration**

No Scale



2 Aoo A1.4 **Ramp Elevation**

Scale: 1/2" : 1'-0"



2 Aoo A1.4 **Section at Railing**

Scale: 1/2" : 1'-0"

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[DATE: 8/18/2015 5:10 PM] [AUTHOR: jgillies] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
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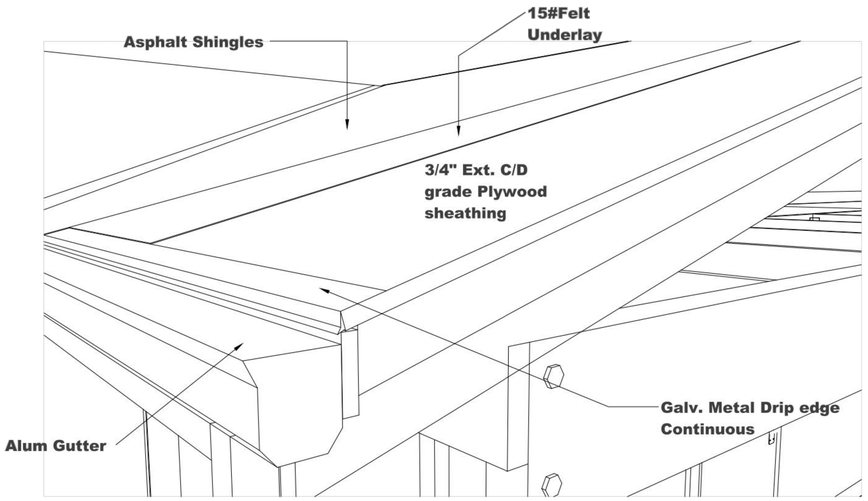
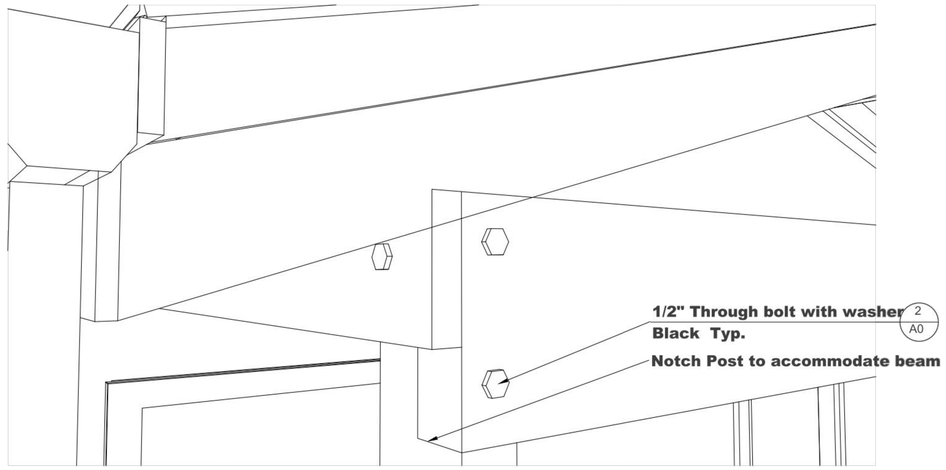


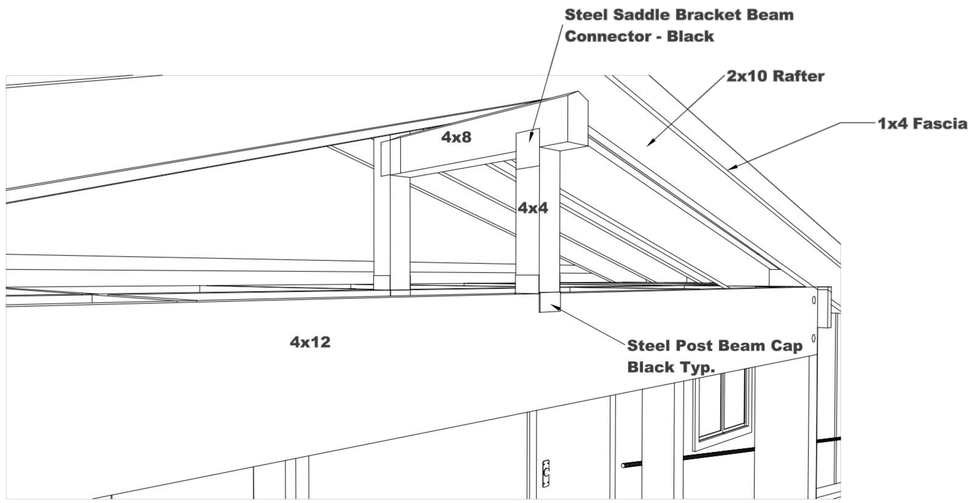
1 A00 / A1.5 **Flashing at roof**

No Scale



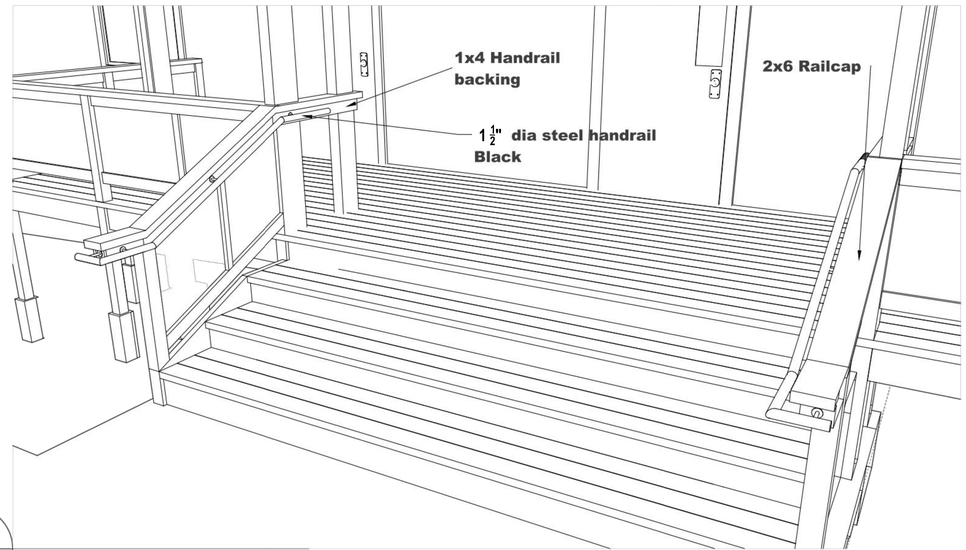
2 A00 / A1.5 **Connections**

No Scale



3 A00 / A1.5 **King Post Connection**

No Scale



4 A00 / A1.5 **No Scale**

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[DATE: 8/18/2015 5:13 PM] [AUTHOR: jgillies] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
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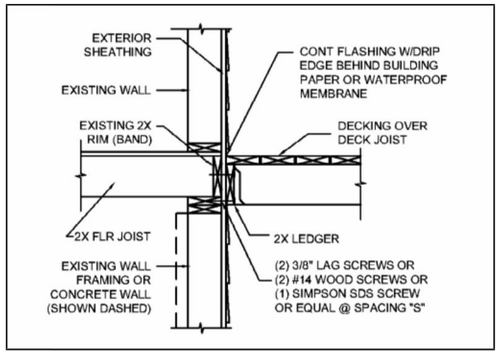
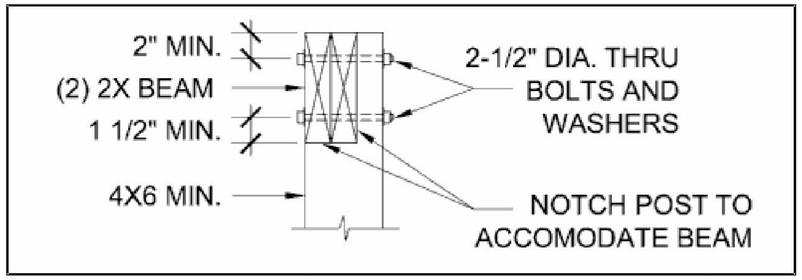


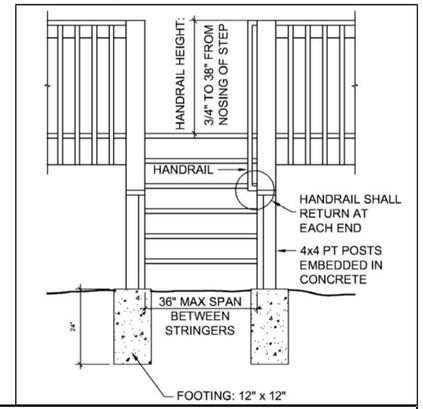
1 Ao0 A1.6 **Ledger Connection**

No Scale

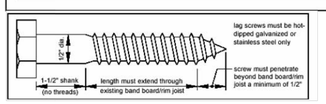


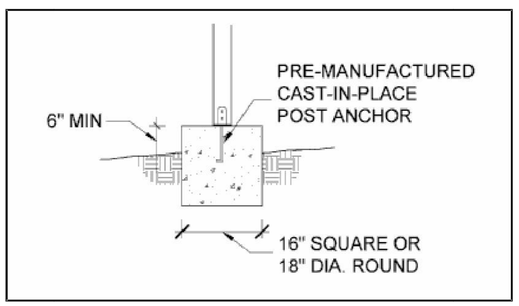
2 Ao0 A1.6 **Post/Beam Connection**

No Scale



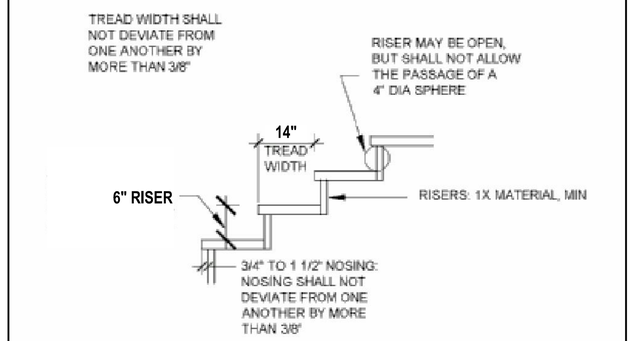
JOIST SPAN	SPACING "S"		
	(2) 3/8" DIA LAG SCREWS	(2) #14 WOOD SCREWS	SIMPSON SDS 1/4 X 3 1/2"
0 < SPAN ≤ 8'	7"	10"	16"
8' < SPAN ≤ 10'	5"	8"	16"
10'< SPAN ≤14'	4"	6"	12"
14'< SPAN ≤16'	3"	5"	9"

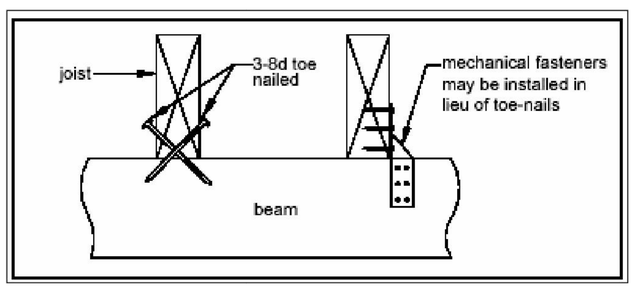




3 Ao0 A1.6 **Footing Detail**

No Scale

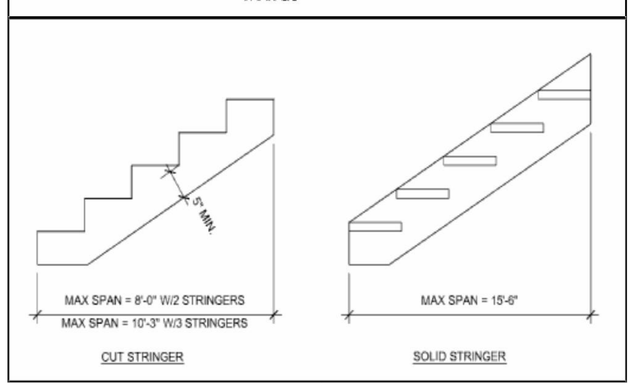




JOIST HANGERS
Joist hangers, as shown, shall have a minimum capacity of 1,000 pounds.
Joist hangers used shall be manufactured for their intended lumber size. Joist hangers shall be galvanized with 1.85 oz/sf of zinc (G-185 coating) or shall be stainless steel.

4 Ao0 A1.6 **Joist Hanger Connection**

No Scale



5 Ao0 A1.6 **Stair Detail**

No Scale

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ENVIRONMENTAL EDUCATION CENTER PLANS

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER P000315W
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Assemblies	Material Description
Framing-Joist/Rafter/Posts	Select Structural grade #1 or better Douglas fir-larch ##
New Roof	3/4" Ext C/D Ply deck; 15# felt underlayment; GAF asphalt/fiberglass shingles or equal*; Galv steel or alum roofing nails
Existing Roof	New 3/4" Ext C/D ply sheathing ; new 15# felt underlay; new asphalt shingles
Deck and Rails	2x6 #2 Western Red Cedar lumber ##; 8x31/2 SplitStop **Steel Wood Screws**
Siding	Hardiplank Select Cedar Mill 5/16" - 81/4"x12' Pre-finished** or equal over water resistant barrier with manufacturer's joint flashing - provide rain-screen detailing.
Corner Trim/Fascia	Hardiplank or equal
Joist hangers	Simpson Strong tie polymer coated galvanized or equal; painted black where visible
Structural Connectors	Polymer coated 1/2"x 5" Lag Screws; Polymer coated 1/2" through bolts with washers/black
Post/Beam Connectors	Steel Post-beam cap connectors - black ; Steel Saddle bracket beam connector - black
Handrails	1/2" dia. powder-coated steel - black
Wire Mesh	McNichols Quality Techna 3155+ woven wire mesh - plain steel

*** GAF Timberline Cool Series - 3 tab Asphalt/fiberglass shingle - color selection by owner.**
****Pre-finished Hardiplank Cedar Mill Color Plus lap siding - color selection by owner.**
On all exposed wood surfaces - Olympic Stain+Sealant in One - "Transparent natural"

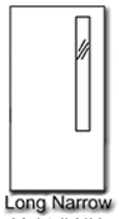
General Notes:

1. This project shall comply with all codes and standards. All work shall meet or exceed industry standards for materials, workmanship, etc.
2. Contractor shall review the drawings thoroughly before proceeding with any work. Any discrepancies found within these documents shall be brought to the immediate attention of the owner's representative. Contractor shall not proceed with any work he knows to be in conflict with other work, or is not approved by code, until resolved.
3. Footings shall be constructed on undisturbed native soil or engineer approved fill. Contractor to verify assumed soil bearing capacity noted. Should soil not meet or exceed the assumed soil bearing capacity, contractor to modify soil conditions to satisfy criteria or notify the structural engineer to revise design per conditions encountered. Backfill around building to provide slope away from building not less than a 5% slope for a minimum distance of 10' from the building, per 2009 IBC 1804.3.
4. Cast-in-Place concrete: 3000 PSI minimum compressive strength at 28 days 4" +/- 1" slump, with max ¾ aggregate, and tested in accordance to meet ACI 318.
5. Anchor and machine bolts shall be ASTM A307. Screws and machine bolt callouts are minimum size allowed, actual size may vary. Concrete reinforcing steel (rebar): 60 ksi. (grade 60). Wood framing shall be #1 & BTR Douglas Fir, UNO.

Codes and Standards

2008 Oregon residential specialty code (2006 IRC)
2008 Oregon plumbing specialty code (2006 UPC)
2010 Oregon mechanical specialty code (2009 IMC)
2010 Oregon fire code
2010 Oregon structural specialty code, chapter 11 (accessibility)
2010 Oregon structural specialty code (2009 iecc)
ACI - American concrete institute, ACI 318, "building code requirements for structural concrete"

Hollow Steel Doors



Long Narrow Light (LNL)

Material Description:

- **Core:** PCD Door - Polystyrene
- **Face sheets GA:** 16
- **Steel coating:** A60 - Galvannealed
- **Primer:** ANSI A224.1
- **Color:** Color selection by owner

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ENVIRONMENTAL EDUCATION CENTER PLANS

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE 1

PROJECT NUMBER P0003150W
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[DATE: 8/21/2015 12:31 PM] [AUTHOR: usimpson] [PLOTTER: Adobe PDF.pc3] [STYLE: WHP-Standard.ctb]
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