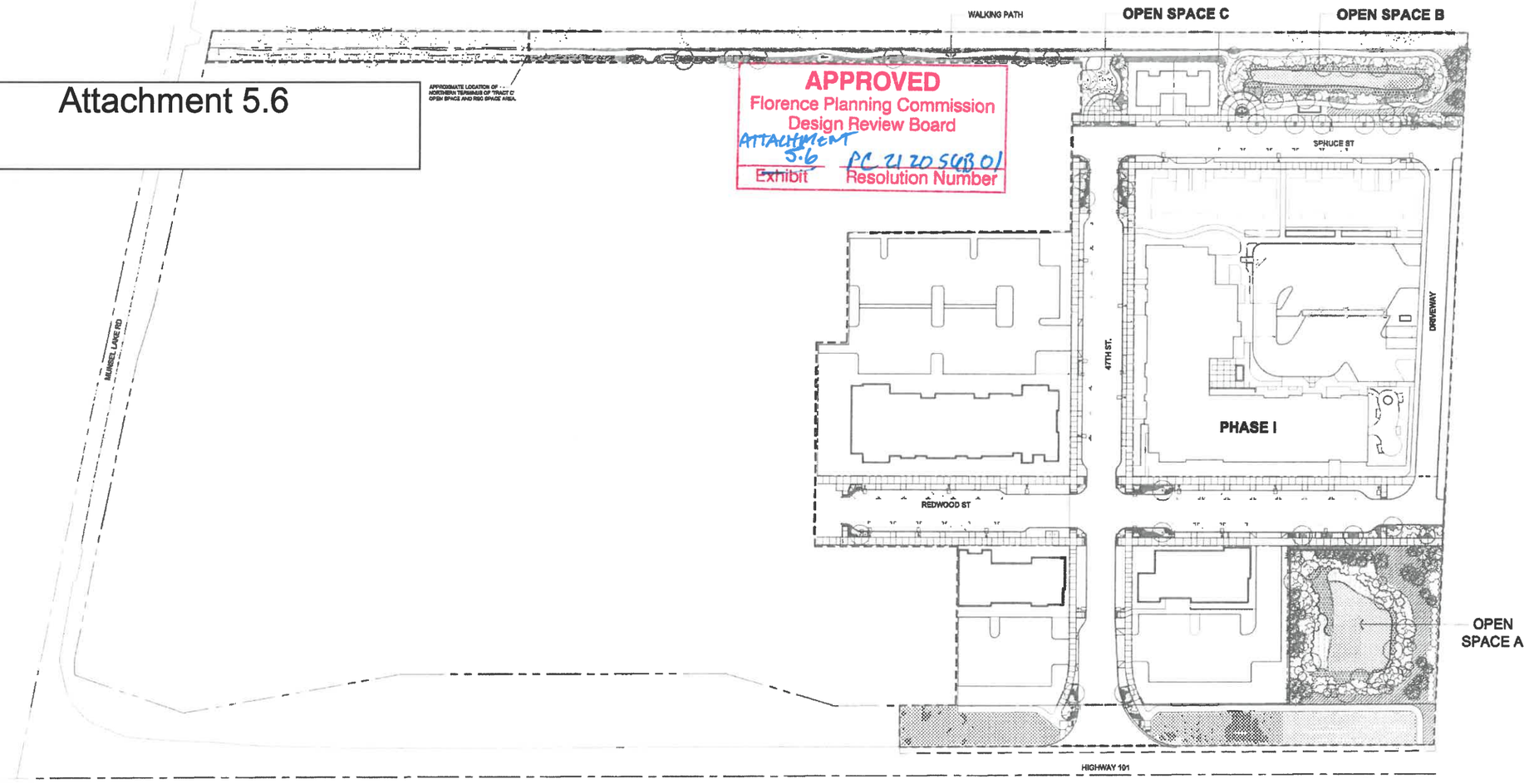
Attachment 5.6

APPROVED
Florence Planning Commission
Design Review Board
ATTACHMENT 5.6 PC 21 20 SUB 01
Exhibit Resolution Number



NOTES

1. PLANTING FOR OPEN SPACE TRACTS AND ADJACENT R.O.W WILL BE DESIGNED AND INSTALLED WITH PUBLIC IMPROVEMENTS. PLANTINGS NOT ADJACENT TO OPEN SPACE TRACTS WILL BE INSTALLED AT TIME OF LOT DEVELOPMENT.
2. HIGH EFFICIENCY IRRIGATION WILL BE PROVIDED AS REQUIRED TO ENSURE PLANT ESTABLISHMENT AND ONGOING PLANT HEALTH. IRRIGATION SYSTEM IS TO BE DESIGN / BUILD. IRRIGATION FOR OPEN SPACE TRACTS AND ADJACENT R.O.W PLANTINGS WILL BE CONSTRUCTED WITH PUBLIC IMPROVEMENTS. IRRIGATION FOR R.O.W. PLANTINGS NOT ADJACENT TO OPEN SPACE TRACTS WILL BE CONSTRUCTED AT TIME OF LOT DEVELOPMENT.
3. SEE CIVIL PLANS FOR STORMWATER AND OPEN SPACE FACILITIES.
4. SEE SHEETS LA-6 AND LA-7 FOR PLANTING, IRRIGATION AND SITE DETAILS.
5. SEE SHEET LA-8 FOR PLANTING AND IRRIGATION SPECIFICATIONS.

LEGEND

- PROPOSED TREES
- PERENNIALS / GRASSES
- GROUNDCOVERS
- STORMWATER GROUNDCOVERS
- SHRUB PLANTING
- LAWN AREAS
- SEEDED AREAS

OVERALL LANDSCAPE PLAN

0 10 25 50 100 200
SCALE: 1" = 50'-0"

NORTH

PERMIT PLANS - NOT FOR CONSTRUCTION

kpff

REGISTERED 579 David J. Dougherty OREGON LANDSCAPE ARCHITECT

PROJECT TITLE

DLA
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PUBLIC IMPROVEMENT PLANS
CANNERY STATION
87344 MUNSEL LAKE RD, FLORENCE, OR 97439

REVISIONS
SYM DATE REFERENCE

PROJECT NO. 1700588
DATE 16 JUL 21
DRAWING TITLE

SHEET TITLE

DRAWING NUMBER
LA-1

PLANT SCHEDULE OPEN SPACE 'A' AND ADJACENT R.O.W.

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
TREES					
ACC *	18	Acer circinatum	Vine Maple	8' ht.	multi-stem, B&B
ACR	2	Acer rubrum 'Red Sunset'	Red Sunset Maple	2" cal.	Matching, limbed up to approx. 6 ft.
ALR *	9	Alnus rubra	Red Alder	1.5" cal.	Matching, full
FRLA *	8	Fraxinus latifolia	Oregon Ash	1.5" cal.	Matching, full, B&B
PIC *	23	Pinus contorta 'Contorta'	Shore Pine	8' ht.	Matching, full, B&B
PSM *	5	Pseudotsuga menziesii	Douglas Fir	8' ht.	Matching, full, B&B
THP *	7	Thuja plicata	Western Red Cedar	8' ht.	Matching, full
SHRUBS					
COS *	91	Cornus sericea	Red-Osier Dogwood	5 gal.	matching, full
COM *	14	Cornus sanguinea 'Midwinter Fire'	Midwinter Fire Dogwood	3 gal.	matching, full
ESRE	13	Escallonia 'Red Elf'	Red Elf Escallonia	3 gal.	matching, full
FOG	13	Fothergilla gardenii	Dwarf Fothergilla	3 gal.	matching, full
MC*	38	Myrica californica	Pacific Wax Myrtle	5 gal.	matching, full
NAFP	18	Nandina domestica 'Fire Power'	Fire Power Nandina	3 gal.	matching, full
POM*	44	Polystichum munitum	Sword Fern	1 gal.	matching, full
RIS *	31	Ribes sanguineum	Red flowering Currant	5 gal.	matching, full
RON*	53	Rosa nutkana	Nootka Rose	5 gal.	matching, full
SPD*	59	Spiraea douglasii	Western spiraea	5 gal.	matching, full
VO *	3	Vaccinium ovatum	Evergreen Huckleberry	5 gal.	matching, full
GROUNDCOVERS AND PERENNIALS					
AUM*	12	Arctostaphylos uva-ursi	Kinnikinnick	1 gal.	matching, full
COSK*	261	Cornus sericea 'Kelseyi'	Dwarf Redtwig Dogwood	1 gal.	matching, full
GS *	53	Gaultheria shallon	Salal	2 gal.	matching, full
JUE *	1155	Juncus effusus	Soft Rush	plugs	matching, full, 12" o.c.
PEAH	22	Pennisetum alopecuroides 'Hamelin'	Fountain Grass	1 gal.	matching, full
RFG	35	Rudbeckia fulgida 'Goldsturm'	Goldsturm Black-Eyed Susan	1 gal.	15" o.c.
SPMC	13	Spiraea Magic Carpet	Magic Carpet Spiraea	3 gal.	matching, full

* Indicates native plant or cultivar

Note: Plant quantities are provided for contractor convenience only. Contractor is responsible for providing all plant material as shown on plan.

PLANT SCHEDULE STORMWATER PLANTER #1 (137 SF)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
TREES					
NYS	1	Nyssa sylvatica	Black Tupelo	1.5" cal.	Matching, full, B&B
SHRUBS (5 REQUIRED)					
SPB*	5	Spiraea betulifolia	Shiny-leaf Spiraea	1 gal.	matching, full
HERBACEOUS PLANTS (137 REQUIRED)					
CAO *	57	Carex obnupta	Slough Sedge	3.5" plugs	matching, full, 12" o.c., 50 cell flats
JUP *	80	Juncus patens	Spreading Rush	3.5" plugs	matching, full, 12" o.c., 50 cell flats

* Indicates native plant or cultivar

PLANT SCHEDULE STORMWATER PLANTER #2 (125 SF)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
TREES					
NYS	1	Nyssa sylvatica	Black Tupelo	1.5" cal.	Matching, full, B&B
SHRUBS (5 REQUIRED)					
SPB*	5	Spiraea betulifolia	Shiny-leaf Spiraea	1 gal.	matching, full
HERBACEOUS PLANTS (125 REQUIRED)					
CAO *	99	Carex obnupta	Slough Sedge	3.5" plugs	matching, full, 12" o.c., 50 cell flats
JUP *	26	Juncus patens	Spreading Rush	3.5" plugs	matching, full, 12" o.c., 50 cell flats

* Indicates native plant or cultivar

PLANT SCHEDULE STORMWATER PLANTER #4 (298 SF)

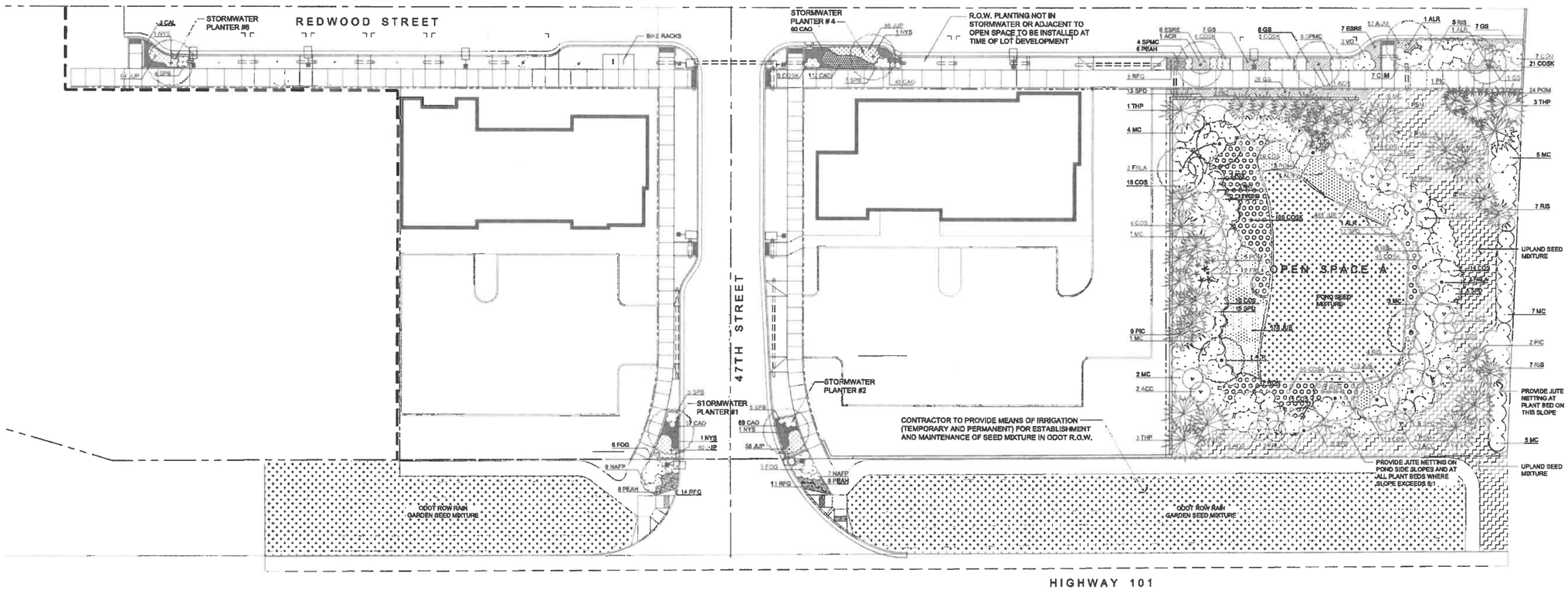
KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
TREES					
NYS	1	Nyssa sylvatica	Black Tupelo	1.5" cal.	Matching, full, B&B
SHRUBS (12 REQUIRED)					
COSK *	15	Cornus sericea 'Kelseyi'	Dwarf Redtwig Dogwood	1 gal.	matching, full
SPB*	17	Spiraea betulifolia	Shiny-leaf Spiraea	1 gal.	matching, full
HERBACEOUS PLANTS (298 REQUIRED)					
CAO *	112	Carex deweyana	Dewey Sedge	3.5" plugs	matching, full, 12" o.c., 50 cell flats
CAO *	100	Carex obnupta	Slough Sedge	3.5" plugs	matching, full, 12" o.c., 50 cell flats
JUP *	86	Juncus patens	Spreading Rush	3.5" plugs	matching, full, 12" o.c., 50 cell flats

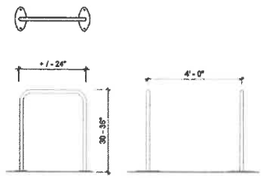
* Indicates native plant or cultivar

PLANT SCHEDULE STORMWATER PLANTER #6 (107 SF)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
TREES					
NYS	1	Nyssa sylvatica	Black Tupelo	1.5" cal.	Matching, full, B&B
SHRUBS (4 REQUIRED)					
SPB*	4	Spiraea betulifolia	Shiny-leaf Spiraea	1 gal.	matching, full
HERBACEOUS PLANTS (107 REQUIRED)					
CAO *	43	Carex obnupta	Slough Sedge	3.5" plugs	matching, full, 12" o.c., 50 cell flats
JUP *	64	Juncus patens	Spreading Rush	3.5" plugs	matching, full, 12" o.c., 50 cell flats

* Indicates native plant or cultivar





1 LA-2 SHORT - TERM BIKE PARKING
SCALE: 1/2" = 1'-0"

LEGEND

PROPOSED TREES

- PROPOSED TREES
- PERENNIALS / GRASSES
- FERNS (TOTAL QUANTITY PROVIDED IN PLANT SCHEDULE)
- IRRIGATION SLEEVE: (1) 6" AND (1) 2" SLEEVE AT EACH LOCATION SHOWN (EXCEPT WHERE NOTED)
- BIKE RACKS (SEE NOTES AND DETAILS)
- SHRUB PLANTING
- LAWN AREAS
- GROUNDCOVERS
- STORMWATER GROUNDCOVERS
- UPLAND SEED MIXTURE (AREA TO BE SEEDED WITH PT101 COASTAL NATIVE GRASS MIX BY PRO-TIME SEED; PH. 800.345.3296)
- POND SEED AND ODOT ROW LOW AREA SEED MIXTURE (AREA TO BE SEEDED WITH PT406 NATIVE MIX FOR WET AREAS BY PRO-TIME SEED; PH. 800.345.3296)

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5. SEE SHEET LA-8 FOR PLANTING AND IRRIGATION SPECIFICATIONS.
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LANDSCAPE PLAN

47TH ST, REDWOOD ST AND OPEN SPACE 'A'

0 5 10 20 40 80
SCALE: 1"=20'-0"

NORTH

PERMIT PLANS - NOT FOR CONSTRUCTION

kpff

REGISTERED LANDSCAPE ARCHITECT
David J. Dougherty
OREGON

PROJECT TITLE

DLA
DOUGHERTY LANDSCAPE ARCHITECTS
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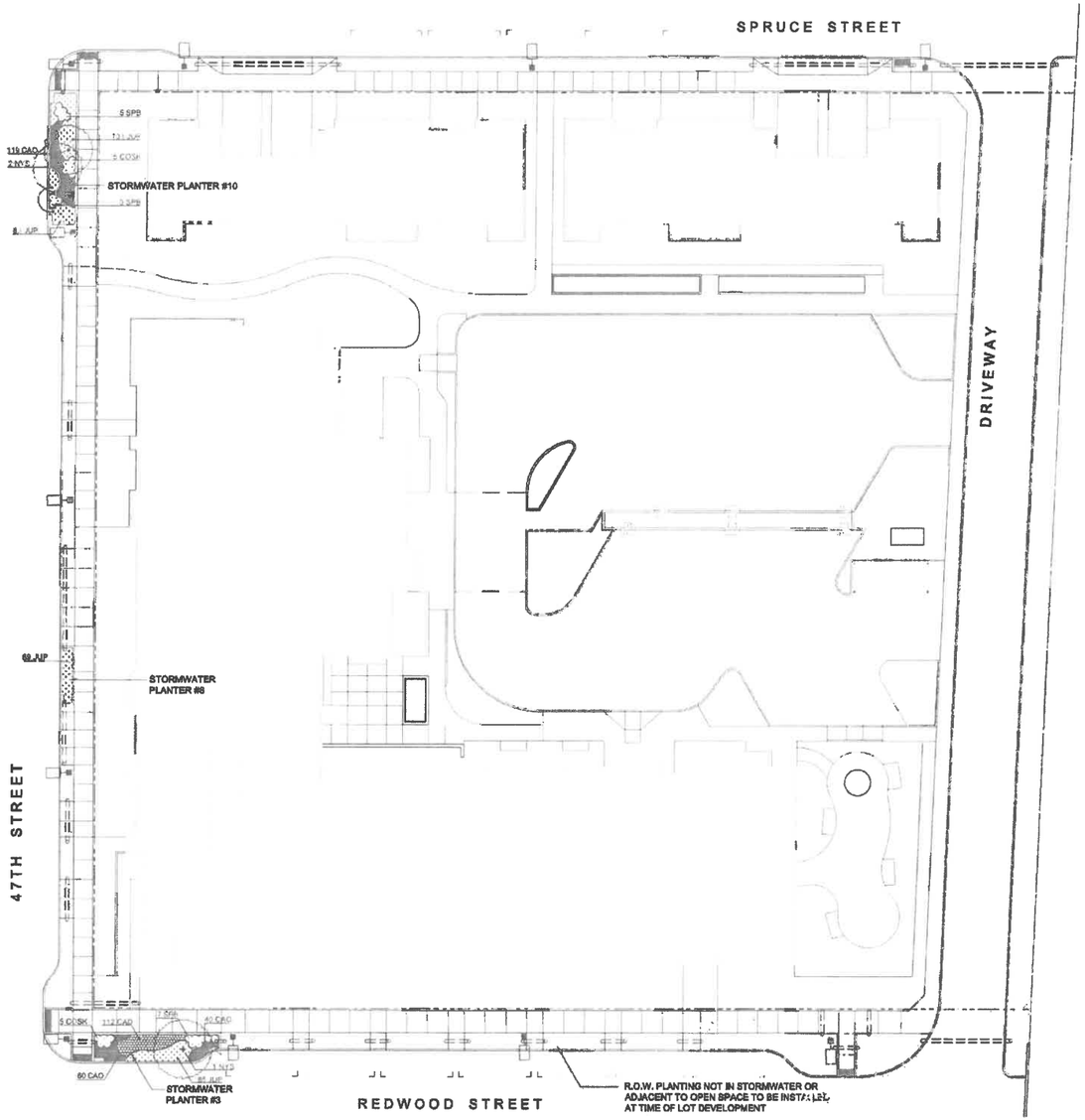
CANNERY STATION
87344 MUNSEL LAKE RD, FLORENCE, OR 97439

REVISIONS

SYM	DATE	REFERENCE

PROJECT NO. 1700588
DATE 16 JUL 21
DRAWING TITLE LANDSCAPE PLAN
DRAWING NUMBER LA-2



LA-1

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LEGEND

- PROPOSED TREES
- SHRUB PLANTING
- STORMWATER GROUNDCOVERS
- IRRIGATION SLEEVE: (1) 6" AND (1) 2" SLEEVE AT EACH LOCATION SHOWN (EXCEPT WHERE NOTED)

PLANT SCHEDULE STORMWATER PLANTER #3 (297 SF)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
TREES					
NYS	11	Nyssa sylvatica	Black Tupelo	1.5" cal.	Matching, full, B&B
SHRUBS (12 REQUIRED)					
COSK *	5	Cornus sericea 'Kelseyi'	Dwarf Kelseyi Dogwood	1 gal.	matching, full
SPB*	7	Spiraea bumalda	Shiny-leaf Spiraea	1 gal.	matching, full
HERBACEOUS PLANTS (297 REQUIRED)					
CAD *	112	Carex divisa	Divisa Sedge	3.5" plugs	matching, full, 12" o.c., 50 cell flats
CAO *	100	Carex obnupta	Slough Sedge	3.5" plugs	matching, full, 12" o.c., 50 cell flats
JUP *	85	Juncus patens	Spreading Rush	3.5" plugs	matching, full, 12" o.c., 50 cell flats

* Indicates native plant or cultivar

PLANT SCHEDULE STORMWATER PLANTER #8 (60 SF)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
HERBACEOUS PLANTS (69 REQUIRED)					
JUP *	69	Juncus patens	Spreading Rush	4" pots	matching, full, 12" o.c., 36 cell flats

* Indicates native plant or cultivar

PLANT SCHEDULE STORMWATER PLANTER #10 (333 SF)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
TREES					
NYS	2	Nyssa sylvatica	Black Tupelo	1.5" cal.	Matching, full, B&B
SHRUBS (13 REQUIRED)					
COSK *	5	Cornus sericea 'Kelseyi'	Dwarf Kelseyi Dogwood	1 gal.	matching, full
SPB*	8	Spiraea bumalda	Shiny-leaf Spiraea	1 gal.	matching, full
HERBACEOUS PLANTS (333 REQUIRED)					
CAO *	119	Carex obnupta	Slough Sedge	3.5" plugs	matching, full, 12" o.c., 50 cell flats
JUP *	214	Juncus patens	Spreading Rush	3.5" plugs	matching, full, 12" o.c., 50 cell flats

* Indicates native plant or cultivar

LANDSCAPE PLAN

47TH ST, REDWOOD ST AND SPRUCE ST

0 5 10 20 40 80

SCALE: 1"=20'-0"

NORTH

PERMIT PLANS - NOT FOR CONSTRUCTION

kpff

REGISTERED 279 David J. Dougherty OREGON LANDSCAPE ARCHITECT

PROJECT TITLE

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PUBLIC IMPROVEMENT PLANS

CANNERY STATION

87344 MUNSEL LAKE RD, FLORENCE, OR 97439

REVISIONS

BY	DATE	REFERENCE

PROJECT NO. 1700586

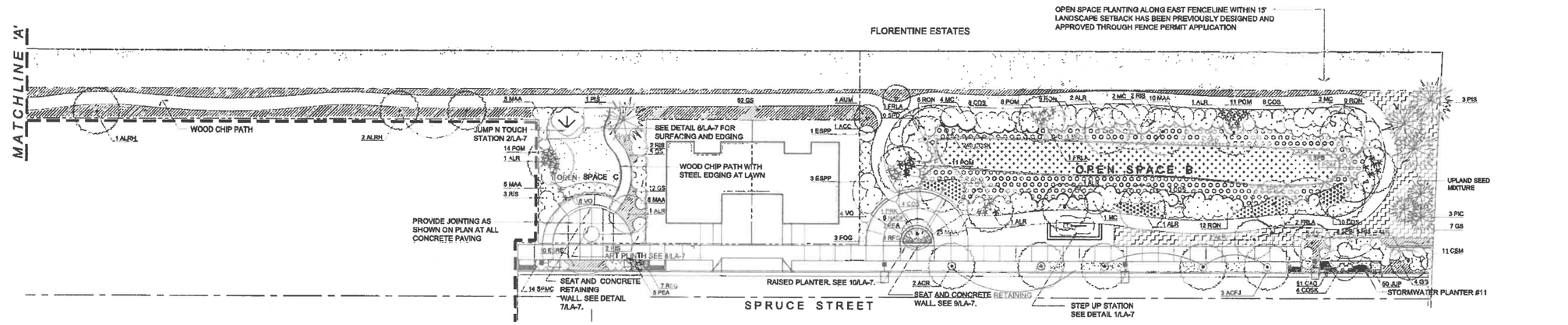
DATE 16 JUL 21

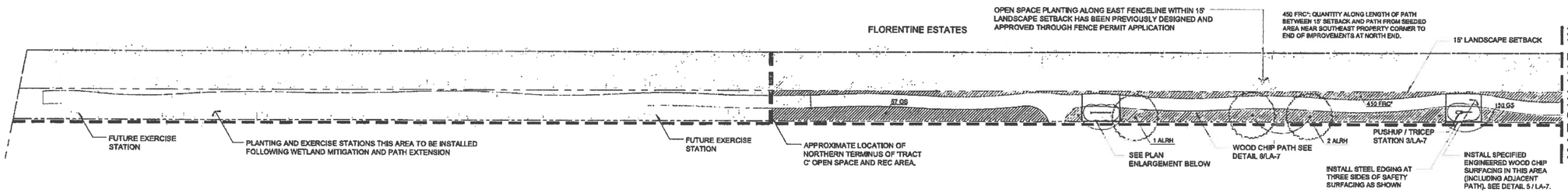
DRAWING TITLE

LANDSCAPE PLAN

DRAWING NUMBER

LA-3





PLANT SCHEDULE OPEN SPACE 'B' AND 'C' AND ADJACENT R.O.W.

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
TREES					
ACC *	2	Acer circinatum	Vine Maple	8' ht.	multi-stem, B&B
ACFJ	3	Acer x freemanii 'Jeffersred'	Autumn Blaze Maple	2" cal.	Matching, limbed up to approx. 8 ft
ACR	2	Acer rubrum 'Red Sunset'	Red Sunset Maple	2" cal.	Matching, limbed up to approx. 8 ft.
ALR *	13	Alnus rubra	Red Alder	1.5" cal.	Matching, full
ALRH	6	Alnus rhombifolia	White Alder	1.5" cal.	Matching, full
FRLA *	6	Fraxinus latifolia	Oregon Ash	1.5" cal.	Matching, full, B&B
PIC *	3	Pinus contorta 'Contorta'	Shore Pine	8' ht.	Matching, full, B&B
PIS	4	Picea sitchensis	Sitka Spruce	8' ht.	Matching, full, B&B
PRK	1	Prunus serrulata 'Kwanzan'	Kwanzan Cherry	8' ht.	single stem, B&B, matching, full
SHRUBS					
COB *	32	Cornus sericea	Red-Osier Dogwood	5 gal.	matching, full
CSM *	11	Cornus sanguinea 'Midwinter Fire'	Midwinter Fire Dogwood	3 gal.	matching, full
ESPP	4	Escallonia hybrida 'Pink Princess	Pink Princess Escallonia	3 gal	matching, full
FOG	11	Fothergilla gardenii	Dwarf Fothergilla	3 gal.	matching, full
MAA	51	Mahonia aquifolium	Oregon Grape	3 gal.	matching, full
MC *	13	Myrica californica	Pacific Wax Myrtle	5 gal.	matching, full
NAFP	6	Nandina domestica 'Fire Power'	Fire Power Nandina	2 gal.	matching, full
POM *	50	Polystichum munitum	Sword Fern	1 gal	matching, full
RIS *	12	Ribes sanguineum	Red flowering Currant	5 gal.	matching, full
RON *	38	Rosa nutkana	Nootka Rose	3 gal.	matching, full
SPB *	14	Spiraea betulifolia	Shiny-leaf Spiraea	1 gal.	matching, full
SPD *	28	Spiraea douglasii	Western spiraea	5 gal.	matching, full
VO	20	Vaccinium ovatum	Evergreen Huckleberry	3 gal.	matching, full
GROUNDCOVERS AND PERENNIALS					
AUM *	4	Arctostaphylos uva-ursi	Kinnikinnick	1 gal.	matching, full
COSK *	240	Cornus sericea 'Kelseyi'	Dwarf Redtwig Dogwood	1 gal.	matching, full
ESRS	19	Escallonia 'Red Elf'	Red Elf Escallonia	2 gal.	matching, full, 30" o.c.
FRC *	450	Fragaria chiloensis	Beach Strawberry	4" pots	matching, full, 18" o.c.
GS *	292	Gaultheria shallon	Salal	2 gal.	matching, full, 36" o.c.
PSA	5	Pennisetum alopecuroides	Fountain Grass	1 gal.	matching, full, 24" o.c.
RFG	15	Rudbeckia fulgida 'Goldsturm'	Goldsturm Black-Eyed Susan	1 gal.	18" o.c.
SPMC	14	Spiraea Magic Carpet'	Magic Carpet Spiraea	2 gal.	matching, full

* Indicates native plant or cultivar

Note: Plant quantities are provided for contractor convenience only. Contractor is responsible for providing all plant material as shown on plan.

PLANT SCHEDULE STORMWATER PLANTER #11 (101 SF)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
SHRUBS (4 REQUIRED)					
COSK *	4	Cornus sericea 'Kelseyi'	Dwarf Redtwig Dogwood	1 gal.	matching, full
HERBACEOUS PLANTS (101 REQUIRED)					
CAO *	51	Carex obnupta	Slough Sedge	3.5" plugs	matching, full, 12" o.c., 50 cell flats
JUP *	50	Juncus patens	Spreading Rush	3.5" plugs	matching, full, 12" o.c., 50 cell flats

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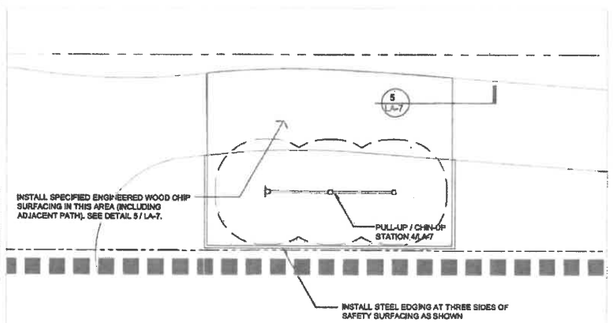

PULL-UP / CHIN-UP STATION

PLAN ENLARGEMENT

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

LEGEND

- PROPOSED TREES
- PERENNIALS / GRASSES
- FERNS (TOTAL QUANTITY PROVIDED IN PLANT SCHEDULE)
- IRRIGATION SLEEVE: (1) 6" AND (1) 2" SLEEVE AT EACH LOCATION SHOWN (EXCEPT WHERE NOTED)
- UPLAND SEED MIXTURE (AREA TO BE SEEDED WITH PT101 COASTAL NATIVE GRASS MIX BY PRO-TIME SEED; PH. 800.345.3295)
- SHRUB PLANTING
- LAWN AREAS
- GROUNDCOVERS
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LANDSCAPE PLAN

47TH ST, SPRUCE ST, TRACTS 'B' & 'C'

0 5 10 20 40 80

SCALE: 1"=20'-0"

NORTH

PERMIT PLANS - NOT FOR CONSTRUCTION

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REGISTERED LANDSCAPE ARCHITECT OREGON David J. Dougherty 279

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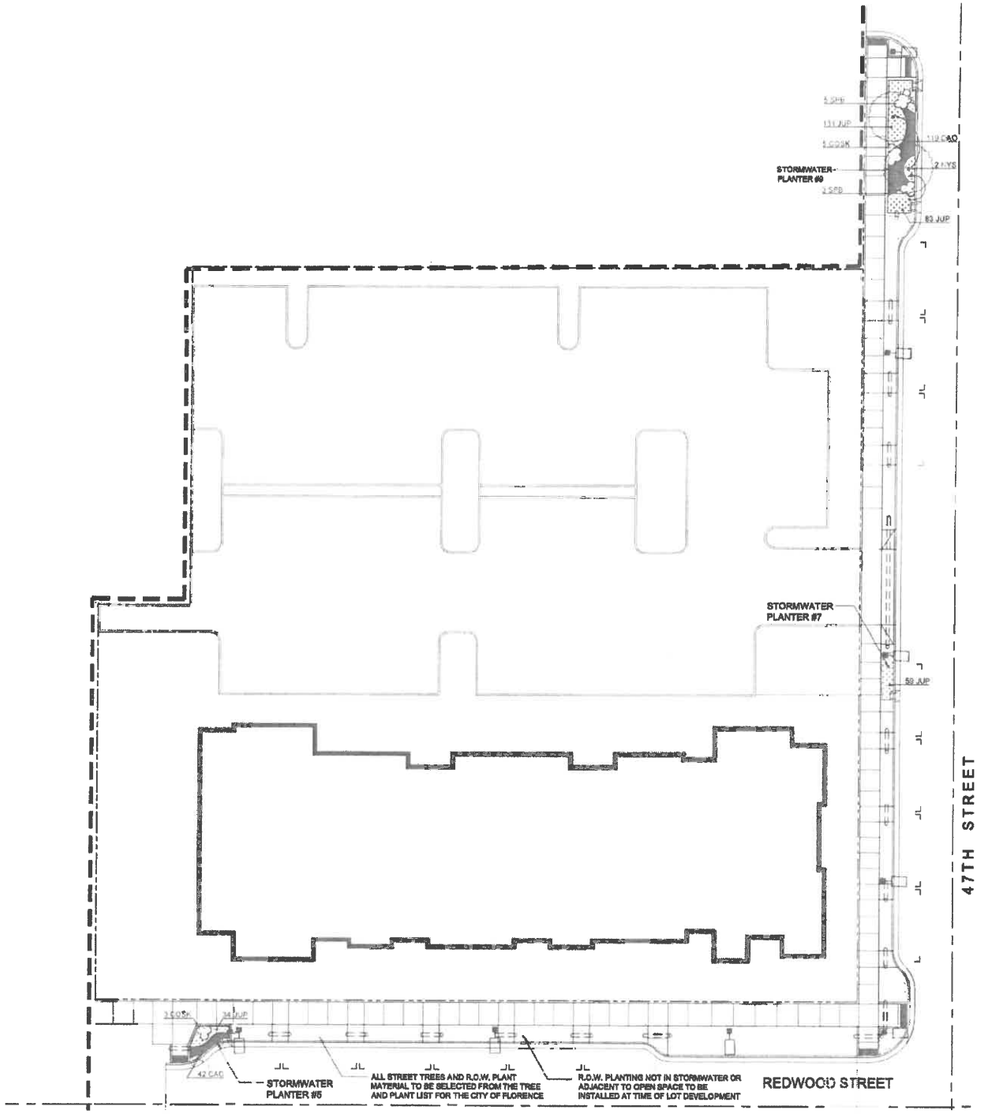
LA-4



PLANT SCHEDULE STORMWATER PLANTER #5 (76 SF)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
SHRUBS (3 REQUIRED)					
CORK *	3	Cornus sericea 'Kelseyi'	Dwarf Redtwig Dogwood	1 gal.	matching, full
HERBACEOUS PLANTS (76 REQUIRED)					
CAO *	42	Carex obnupta	Slough Sedge	3.5" plugs	matching, full, 12" o.c., 50 cell flats
JUP *	34	Juncus patens	Blue Rush	3.5" plugs	matching, full, 12" o.c., 50 cell flats

* Indicates native plant or cultivar

PLANT SCHEDULE STORMWATER PLANTER #7 (51 SF)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
HERBACEOUS PLANTS (59 REQUIRED)					
JUP *	59	Juncus patens	Spreading Rush	3.5" plugs	matching, full, 12" o.c., 50 cell flats

* Indicates native plant or cultivar

PLANT SCHEDULE STORMWATER PLANTER #9 (333 SF)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
TREES					
NYS	2	Nyssa sylvatica	Black Tupelo	1.5" cal.	Matching, full, B&B
SHRUBS (13 REQUIRED)					
CORK *	5	Cornus sericea 'Kelseyi'	Dwarf Redtwig Dogwood	1 gal.	matching, full
SPBI *	6	Spiraea betulifolia	Birch-leaf Spiraea	1 gal.	matching, full
HERBACEOUS PLANTS (333 REQUIRED)					
CAO *	119	Carex obnupta	Slough Sedge	3.5" plugs	matching, full, 12" o.c., 50 cell flats
JUP *	214	Juncus patens	Blue Rush	3.5" plugs	matching, full, 12" o.c., 50 cell flats

* Indicates native plant or cultivar

LEGEND

- PROPOSED TREES
- SHRUB PLANTING
- 4" IRRIGATION SLEEVE: (1) 6" AND (1) 2" SLEEVE AT EACH LOCATION SHOWN (EXCEPT WHERE NOTED)
- STORMWATER GROUNDCOVERS

NOTES

1. PLANTING FOR OPEN SPACE TRACTS AND ADJACENT R.O.W WILL BE INSTALLED WITH PUBLIC IMPROVEMENTS. PLANTINGS NOT ADJACENT TO OPEN SPACE TRACTS WILL BE INSTALLED AT TIME OF LOT DEVELOPMENT.
2. HIGH EFFICIENCY IRRIGATION WILL BE PROVIDED AS REQUIRED TO ENSURE PLANT ESTABLISHMENT AND ONGOING PLANT HEALTH. IRRIGATION SYSTEM IS TO BE DESIGN / BUILD. IRRIGATION FOR OPEN SPACE TRACTS AND ADJACENT R.O.W PLANTINGS WILL BE CONSTRUCTED WITH PUBLIC IMPROVEMENTS. IRRIGATION FOR R.O.W. PLANTINGS NOT ADJACENT TO OPEN SPACE TRACTS WILL BE CONSTRUCTED AT TIME OF LOT DEVELOPMENT.
3. SEE CIVIL PLANS FOR STORMWATER AND OPEN SPACE FACILITIES.
4. SEE SHEETS LA-6 AND LA-7 FOR PLANTING, IRRIGATION AND SITE DETAILS.
5. SEE SHEET LA-8 FOR PLANTING AND IRRIGATION SPECIFICATIONS.

LANDSCAPE PLAN

47TH ST AND SPRUCE ST

0 5 10 20 40 80

SCALE: 1"=20'-0"

NORTH

PERMIT PLANS - NOT FOR CONSTRUCTION

kpff

REGISTERED 279 David J. Dougherty OREGON LANDSCAPE ARCHITECT

PROJECT TITLE

DLA
DOUGHERTY LANDSCAPE ARCHITECTS
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PUBLIC IMPROVEMENT PLANS

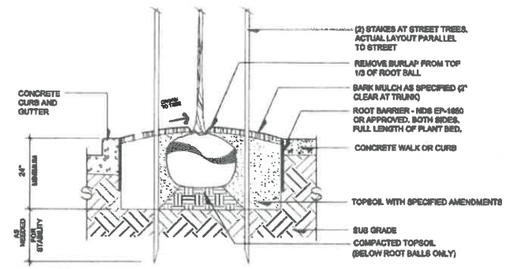
CANNERY STATION

87344 MUNSEL LAKE RD, FLORENCE, OR 97439

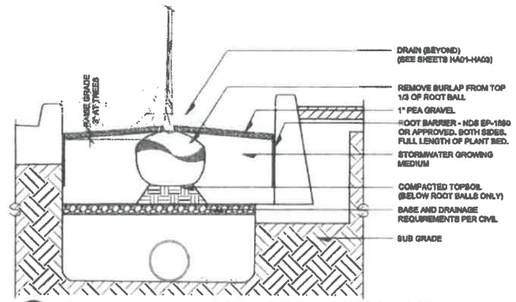
REVISIONS

NO.	DATE	DESCRIPTION

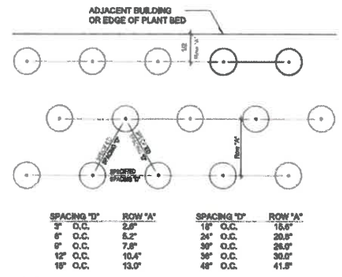
PROJECT NO. 170588
DATE 16 JUL 21
DRAWING TITLE LANDSCAPE PLAN
DRAWING NUMBER LA-5



1 LA-6 STREET TREE PLANTING - TYPICAL
SECTION SCALE: 1/2" = 1'-0"

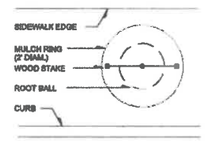


2 LA-6 STREET TREE PLANTING IN RAINWATER PLANTER- TYPICAL
SECTION SCALE: 1/2" = 1'-0"

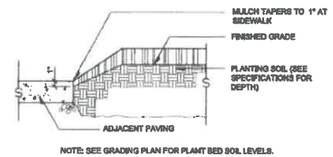


SPACING "D"	ROW "A"	SPACING "D"	ROW "A"
3" O.C.	2.6"	18" O.C.	15.6"
6" O.C.	5.2"	24" O.C.	20.8"
9" O.C.	7.8"	30" O.C.	26.0"
12" O.C.	10.4"	36" O.C.	30.0"
15" O.C.	13.0"	48" O.C.	41.6"

3 LA-6 GROUNDCOVER SPACING DIAGRAM
PLAN NTS

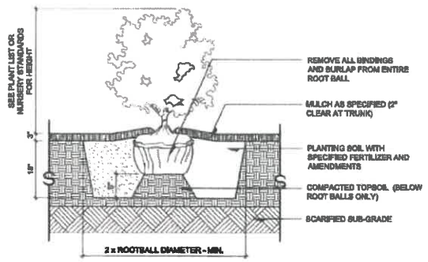


4 LA-6 TREE STAKING DIAGRAM
SECTION N.T.S.

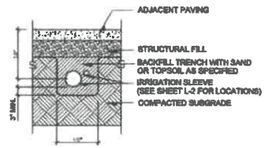


NOTE: SEE GRADING PLAN FOR PLANT BED SOIL LEVELS.

5 LA-6 PLANT BED EDGE AT PAVEMENT
SECTION SCALE: 1" = 1'-0"

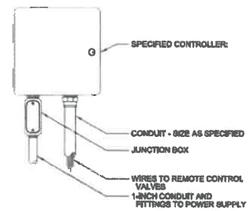


6 LA-6 TYPICAL SHRUB PLANTING
SECTION SCALE: 1/2" = 1'-0"



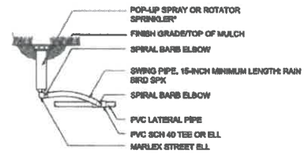
NOTE: - EXTEND SLEEVES 4" BEYOND PAVEMENT EDGES.
- INSTALL 1X3 RED-TOP, WOOD, LOCATION STAKES @ FACE OF WALK OR CURB @ BOTH ENDS OF ALL IRRIGATION SLEEVES. HOLD DOWN 1" BELOW TOP OF CURB OR WALK.
- INSTALL (1) 6" SCHEDULE 40 P.V.C. AND (1) 2" SCHEDULE 40 P.V.C. SLEEVE AT EACH LOCATION.

7 LA-6 IRRIGATION SLEEVING
SECTION SCALE: 1/2" = 1'-0"



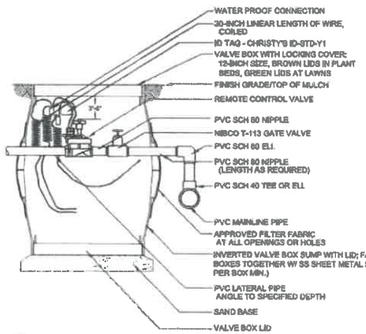
CONDUIT AND FITTINGS:
UNDER GROUND: PLASTIC, CLASS III, FEDERAL SPECIFICATION W-C 1094.
ABOVE GROUND: ALUMINUM, FEDERAL SPECIFICATION WW-U-540.

8 LA-6 AUTOMATIC CONTROLLER
ELEVATION SCALE: 1" = 1'-0"

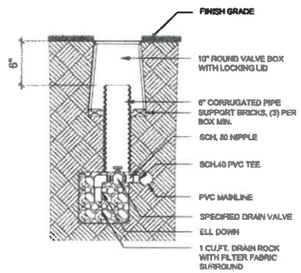


*USE PRESSURE REGULATING BODIES FOR ROTATING NOZZLES

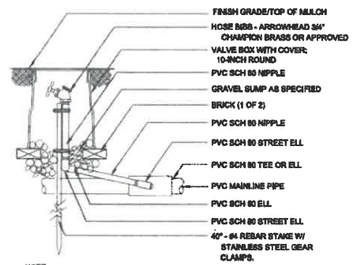
9 LA-6 FLUSH MOUNTED POP-UP SPRAY OR ROTATOR NOZZLE SPRINKLER
SECTION SCALE: 1" = 1'-0"



10 LA-6 AUTOMATIC CONTROL VALVE
SECTION SCALE: 1" = 1'-0"

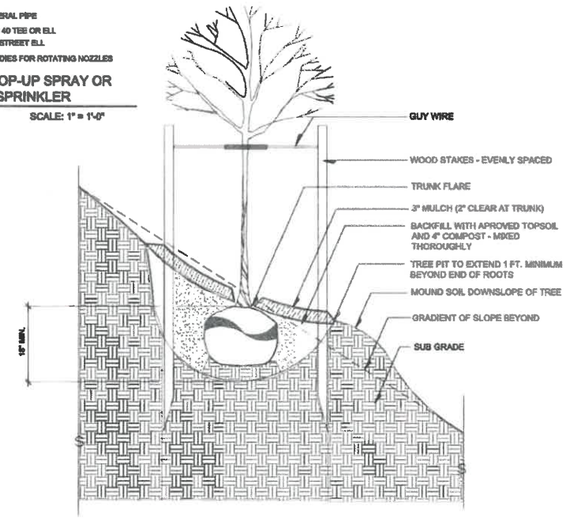


11 LA-6 MANUAL MAIN LINE DRAIN VALVE
SECTION SCALE: 1" = 1'-0"



NOTE:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL HOSE BIBB VALVE INLET SIZE.

12 LA-6 HOSE BIBB IN VALVE BOX
SECTION N.T.S.



NOTE: APPLICABLE IN OPEN SPACE AREAS AT SLOPES OVER 20%

13 LA-6 TREE PLANTING ON SLOPE
SECTION SCALE: 3/4" = 1'-0"

LANDSCAPE & IRRIGATION DETAILS

PERMIT PLANS - NOT FOR CONSTRUCTION

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800 Willamette Street, Suite 400
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O: 541.684.4002
F: 541.684.4009
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REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
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David J. Dougherty
OREGON

PROJECT TITLE

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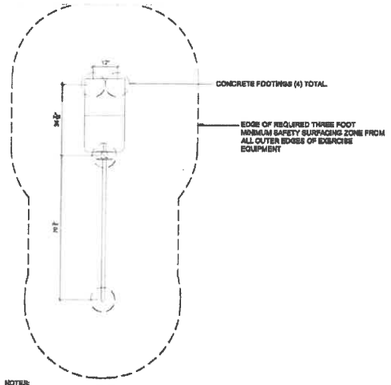
PUBLIC IMPROVEMENT PLANS
CANNERY STATION
87344 MUNSEL LAKE RD, FLORENCE, OR 97439

REVISIONS
NO.	DATE	REFERENCE

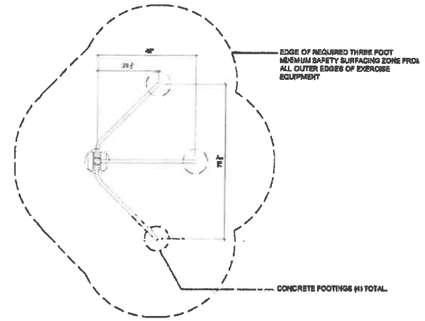
PROJECT NO. 1700588
DATE 16 JUL 21
DRAWING TITLE
SHEET TITLE

DRAWING NUMBER
LA-6



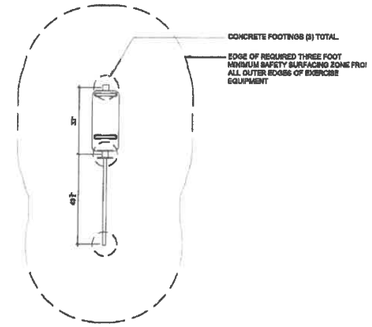
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH EXERCISE EQUIPMENT INSTALLATION INSTRUCTIONS AND SPECIFICATIONS (PLAYCRAFT SYSTEMS EC-9434).
2. INSTALLATION TO BE INGROUND MOUNT WITH CONCRETE FOOTINGS.
3. PROVIDE SAFETY SURFACING TO EDGES SHOWN ON PLAN BUT IN NO CASE LESS THAN REQUIRED THREE FOOT SAFETY SURFACING ZONE FROM OUTER EDGES OF EQUIPMENT.

1 LA-7 (DETAIL FOR REFERENCE ONLY)
PLAYCRAFT BASICS STEP UP STATION
PLAN ENLARGEMENT SCALE: 3/8" = 1'-0"



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH EXERCISE EQUIPMENT INSTALLATION INSTRUCTIONS AND SPECIFICATIONS (PLAYCRAFT SYSTEMS EC-9434).
2. INSTALLATION TO BE INGROUND MOUNT WITH CONCRETE FOOTINGS.
3. PROVIDE SAFETY SURFACING TO EDGES SHOWN ON PLAN BUT IN NO CASE LESS THAN REQUIRED THREE FOOT SAFETY SURFACING ZONE FROM OUTER EDGES OF EQUIPMENT.

2 LA-7 (DETAIL FOR REFERENCE ONLY)
PLAYCRAFT BASICS JUMP N TOUCH STATION
PLAN ENLARGEMENT SCALE: 3/8" = 1'-0"



NOTES:
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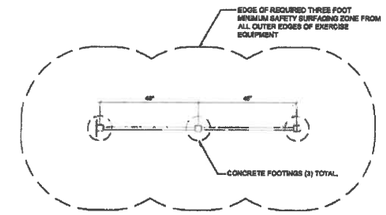
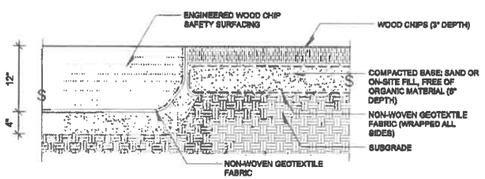
2. INSTALLATION TO BE INGROUND MOUNT WITH CONCRETE FOOTINGS.
3. PROVIDE SAFETY SURFACING TO EDGES SHOWN ON PLAN BUT IN NO CASE LESS THAN REQUIRED THREE FOOT SAFETY SURFACING ZONE FROM OUTER EDGES OF EQUIPMENT.

3 LA-7 (DETAIL FOR REFERENCE ONLY)
PLAYCRAFT BASICS PUSH-UP TRICEP STATION
PLAN ENLARGEMENT SCALE: 3/8" = 1'-0"

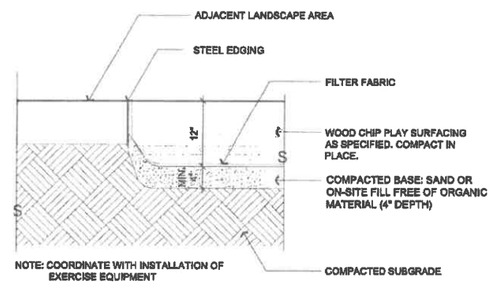


NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH EXERCISE EQUIPMENT INSTALLATION INSTRUCTIONS AND SPECIFICATIONS (PLAYCRAFT SYSTEMS EC-9434).
2. INSTALLATION TO BE INGROUND MOUNT WITH CONCRETE FOOTINGS.
3. PROVIDE SAFETY SURFACING TO EDGES SHOWN ON PLAN BUT IN NO CASE LESS THAN REQUIRED THREE FOOT SAFETY SURFACING ZONE FROM OUTER EDGES OF EQUIPMENT.

4 LA-7 (DETAIL FOR REFERENCE ONLY)
PLAYCRAFT BASICS CHIN-UP PULL-UP STATION
PLAN ENLARGEMENT SCALE: 3/8" = 1'-0"

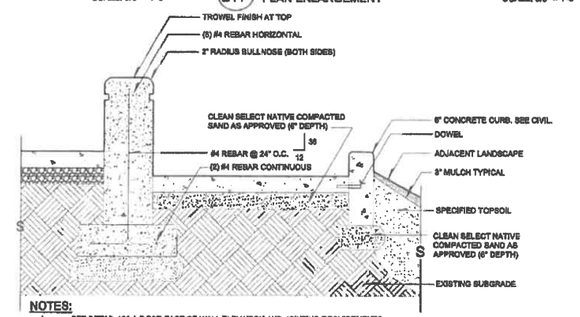


5 LA-7 WOOD CHIP PATH AND SAFETY SUFACING
SECTION SCALE: 1" = 1'-0"



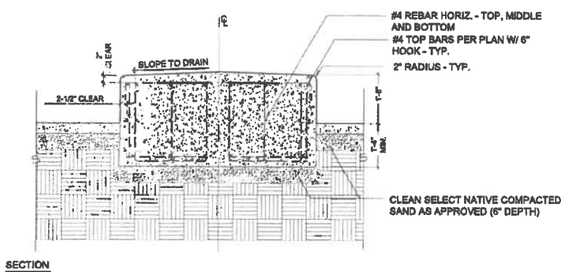
NOTE: COORDINATE WITH INSTALLATION OF EXERCISE EQUIPMENT

6 LA-7 EXERCISE AREA W/ STEEL EDGING
SECTION SCALE: 1" = 1'-0"

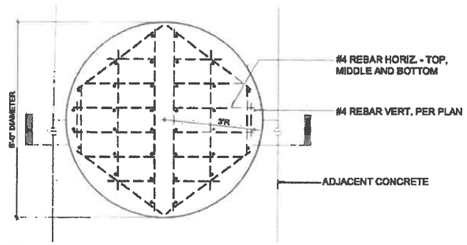


NOTES:
1. SEE DETAIL 10/LA-7 FOR FACE OF WALL ELEVATION AND JOINTING REQUIREMENTS.
2. TOP OF WALL JOINTS TO EXTEND TO BOTH WALL FACES WHERE THIS DETAIL IS APPLICABLE.

7 LA-7 SEATWALL & CURB AT WALKWAY
SECTION SCALE: 3/4" = 1'-0"

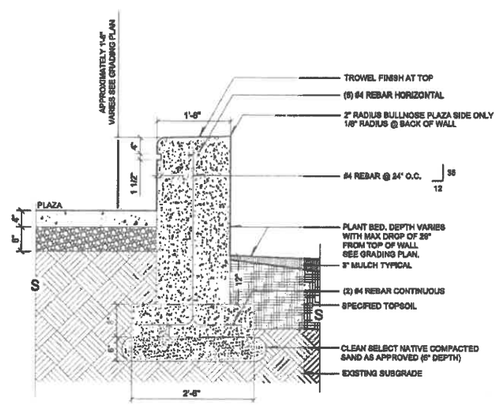


SECTION

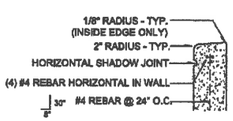


PLAN

8 LA-7 CONCRETE ART PLINTH
SCALE: 1/2" = 1'-0"

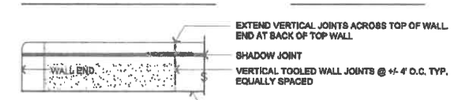


9 LA-7 SEATWALL AT PLANTING BED
SECTION SCALE: 3/4" = 1'-0"

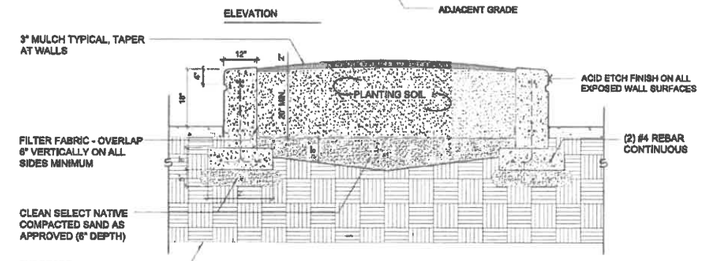


SEAT WALL SECTION

SHADOW JOINT DIMENSIONS



ELEVATION



10 LA-7 RAISED PLANTER WITH SEAT WALLS
SECTION SCALE: 1/2" = 1'-0"

PERMIT PLANS - NOT FOR CONSTRUCTION

SITE DETAILS

kpff

REGISTERED 279 David J. Dougherty OREGON LANDSCAPE ARCHITECT

PROJECT TITLE

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PUBLIC IMPROVEMENT PLANS
CANNERY STATION
87344 MUNSEL LAKE RD, FLORENCE, OR 97439

REVISIONS
NO. DATE REFERENCE

PROJECT NO. 1700568
DATE 16 JUL 21
DRAWING TITLE
DETAILS

DRAWING NUMBER
LA-7

LANDSCAPE SPECIFICATIONS

A. VERIFICATIONS
1. VERIFY LOCATION OF ALL UTILITIES AND PROTECT DURING CONSTRUCTION.

B. MEETINGS AND INSPECTIONS
NOTIFY LANDSCAPE ARCHITECT (2) WEEKS BEFORE START OF CONSTRUCTION FOR ON-SITE PRE-CONSTRUCTION MEETING.
NOTIFY LANDSCAPE ARCHITECT 48 HOURS IN ADVANCE OF THE FOLLOWING REQUIRED INSPECTIONS.
1. SUBGRADE INSPECTION: PRIOR TO TOPSOIL PLACEMENT, LANDSCAPE ARCHITECT WILL INSPECT SUBGRADE ELEVATIONS AND PREPARE THEM FOR COMPLIANCE TO SPECIFIED. TOPSOIL PLACEMENT SHALL NOT OCCUR UNTIL SUBGRADE IS APPROVED.
2. LAYOUT REVIEW: PRIOR TO INSTALLATION, PLACE PLANT MATERIAL PER PLAN. LAYOUT TO BE REVIEWED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
3. SUBSTANTIAL COMPLETION REVIEW: TO OCCUR AT COMPLETION OF PLANTING. LANDSCAPE ARCHITECT WILL REVIEW ALL WORK OF THIS SECTION.
4. FINAL COMPLETION: TO OCCUR AFTER ALL LANDSCAPE PUNCHLIST ITEMS ARE CORRECTED.
5. WARRANTY REVIEW: IMMEDIATELY PRIOR TO THE EXPIRATION OF THE PROJECT WARRANTY, REVIEW ALL WORK OF THIS SECTION FOR COMPLIANCE WITH REQUIREMENTS. MAKE ANY CORRECTIONS REQUIRED BY THESE REVIEWS.

C. SUBMITTALS
1. MAINTENANCE DATA: INCLUDE MOWING AND PRUNING METHOD; TYPES, APPLICATION FREQUENCY, AND RECOMMENDED COVERAGE OF FERTILIZER; AND OTHER ROUTINE MAINTENANCE SCHEDULES.
2. SUBMIT SAMPLE (1 QUART BAGS) OF EACH OF THE FOLLOWING TO OWNER'S REPRESENTATIVE FOR APPROVAL:
a. TOPSOIL
b. COMPOST
c. MULCH
d. PHOTOS OF PLUG FLATS FROM NURSERY FOR EACH TIPE OF (PLUG) PLANT MATERIAL TO BE REPRESENTATIVE OF PLANTS TO BE INSTALLED.

D. PRODUCTS
1. TOPSOIL AT PLANT BEDS AND LAWNS: SANDY LOAM FREE OF ROCK, SUBSOIL, CLODS, LUMPS, PLANTS, ROOTS, STICKS, WEEDS, SEEDS AND OTHER DELETERIOUS SUBSTANCES. EXISTING ON-SITE SOIL MAY BE AMENDED, IF FREE OF DEBRIS AS NOTED ABOVE, TO COMPLY WITH SANDY LOAM SPECIFICATION.
2. GROWING MEDIUM AT STORMWATER FACILITIES: COMPOSED OF 1/3 SAND, 1/3 LOAM AND 1/3 ORGANIC MATERIAL; AVAILABLE AS 'WATER QUALITY GROWING MIX' FROM LANE FOREST PRODUCTS OR 'PRO-SWALE MIX' FROM REXIUS. SUBMIT 1 QUART BAGGED SAMPLE FOR APPROVAL.
3. GROWING MEDIUM AT PONDS: INFILTRATION BLEND STORMWATER FACILITY TOPSOIL PER CITY OF FLORENCE GROWING MEDIUM SPECIFICATIONS. A UNIFORM MIXTURE OF 60% NATIVE SAND, 40% COMPOST. SUBMIT ONE QUART REPRESENTATIVE BAGGED SAMPLE FOR APPROVAL BY CITY.
4. RAISED PLANTER SOIL: COMBINATION OF 1/3 IMPORTED SANDY LOAM AND 2/3 NITROGEN RICH ORGANIC MATERIAL. ORGANIC MATERIAL 15 AVAILABLE AS NITRO-RICH PLANTING SOIL FROM LANE FOREST PRODUCTS, FLOWER-N-GARDEN PLANTING SOIL FROM REXIUS, OR APPROVED. INGREDIENTS SHALL BE THOROUGHLY MIXED TO FULL DEPTH OF PLANTER.
5. SOIL AMENDMENTS
a. PLANT BED FERTILIZER: 16-16-16
b. LAWN FERTILIZER: 20-5-5-10 WITH 30% SLOW RELEASE NITROGEN.
c. ORGANIC MATERIAL: 'GARDEN COMPOST' AVAILABLE FROM REXIUS OR LANE FOREST PRODUCTS.
6. MULCH AT PLANT BEDS: SHREDDED FIR BARK 5/8" - 1/4" DIAMETER.
7. MULCH AT STORMWATER SWALE: WASHED AND ROUND 3/8" - NO. 4 PEA GRAVEL.
8. PLANTING TABLETS: SCOTT'S AGRIFORM FERTILIZER TABLETS.
9. PLANT MATERIAL
a. PROVIDE ONLY HEALTHY, FULL PLANT MATERIAL AT SIZES INDICATED.
b. PLANT SUBSTITUTIONS TO BE APPROVED BY LANDSCAPE ARCHITECT.
10. ACCESSORIES
a. STAKES: SOFTWOOD LUMBER, POINTED END, PAINTED BLACK, UNIFORMLY SIZED, 2" X 2" MIN. CAPABLE OF AT LEAST 2 YEARS BURIAL.
b. GUY WIRES: NO. 10 GA. ANNEALED, GALVANIZED STEEL WIRE.
11. LAWN SEED
a. J.B. SUNNY BLEND FROM J.B. INSTA LAWN (503-581-7823). PROVIDE CURRENT SEASON'S CROP.
12. UPLAND SEED MIXTURE
a. PT101 COASTAL NATIVE GRASS MIX BY PRO-TIME SEED; PH. 800.345.3295.
13. POND SEED MIXTURE
a. PT406 NATIVE MIX FOR WET AREAS BY PRO-TIME SEED; PH. 800.345.3295.
14. STEEL EDGING: 3/16" THICK, 6" HEIGHT, BLACK STEEL LANDSCAPE EDGING. INSTALL AND STAKE PER MANUFACTURER'S SPECIFICATIONS.

E. SOIL PREPARATION
1. EXCAVATION: EXCAVATE TO ALLOW FOR PLACEMENT OF TOPSOIL TO THE FOLLOWING DEPTHS:
a. PLANT BEDS: 18".
b. OPEN SPACE TRACT PLANT BEDS AND SEEDED AREAS: 12".
c. NEW LAWNS: 8".
d. STORMWATER SWALE: SEE CIVIL PLANS AND SPECIFICATIONS.
2. PLANT BEDS (STREETSIDE ROW PLANTING)
a. FINISHED ELEVATION OF SUB-BASE TO BE 18" MINIMUM BELOW FINISHED GRADE AT PLANT BEDS. PLANTING AREAS TO BE ROCK AND DEBRIS FREE TO THESE DEPTHS.
b. TILL SUBGRADE THOROUGHLY TO A DEPTH OF 6" MINIMUM PRIOR TO PLACEMENT OF TOPSOIL.
c. PLACE TOPSOIL OVER TILLED SUBGRADE. ADD 4" OF ORGANIC MATERIAL AND FERTILIZER TO TOPSOIL AT THE RATE OF 20 LBS. PER 1000 SF. THOROUGHLY MIX AMENDMENTS AND TOPSOIL TO A DEPTH OF 8" MINIMUM. CROWN SOIL TO THE CENTER OF PLANT BEDS AT 2" PER FOOT. COMPACT SOIL AND AMENDMENT TO 85% AND APPLY ADDITIONAL MATERIAL AS NEEDED TO ACHIEVE GRADE AND CROWN. SOIL MAY BE PRE-MIXED PRIOR TO PLACEMENT.
3. PLANT BEDS AND SEEDED AREAS AT OPEN SPACES TRACTS (NOT INCLUDING PONDS)
a. FINISHED ELEVATION TO BE 12" BELOW FINISHED GRADE.
b. PLACE 12" OF TOPSOIL OVER SUBGRADE. ADD 4" OF ORGANIC MATERIAL TO TOPSOIL AND TILL TO A DEPTH OF 8".
4. LAWN
a. TILL SUBGRADE THOROUGHLY TO A DEPTH OF 8" MINIMUM AT AREAS OF NEW LAWN AND LAWN RESTORATION.
b. REMOVE ALL ROOTS, ROCK AND DEBRIS.
c. PLACE TOPSOIL AS NEEDED TO ACHIEVE FINISHED GRADE AT NEW LAWN. ADD 2" ORGANIC MATERIAL AND 16-5-10-10 FERTILIZER TO TOPSOIL AT A RATE OF 20 LBS. PER 1000 SF. ROTO-TILL AMENDMENTS AND TOPSOIL TO A DEPTH OF 6" MINIMUM. SOIL MAY BE PRE-MIXED PRIOR TO PLACEMENT.
5. RAISED PLANTER a. PLACE SOIL IN THREE LIFTS. COMPACT SOIL TO 85% BETWEEN LIFTS.
6. STORMWATER PLANTERS AND PONDS
a. SEE CIVIL DRAWINGS FOR FACILITY INSTALLATION REQUIREMENTS. DO NOT APPLY ADDITIONAL SOIL AMENDMENTS OR FERTILIZER AT STORMWATER FACILITIES.

F. PLANTING
1. SET PLANTS IN PITS OR BEDS, PARTLY FILLED WITH PREPARED PLANT MIX, AT A MIN. OF 6" DEPTH UNDER EACH PLANT. REMOVE BURLAP, ROPES AND WIRES FROM ROOT BALLS.
2. APPLY PLANTING TABLETS PER MANUFACTURER'S HIGH RATES.
3. BACKFILL SOIL MIXTURE AND COMPACT IN LAYERS. MAINTAIN PLANT MATERIAL IN VERTICAL POSITION.
4. SATURATE SOIL WITH WATER WHEN PIT OR BED IS HALF FULL WITH TOPSOIL AND AGAIN WHEN FULL.
5. INSTALL (3) STAKES AT EACH SHADE TREE AND (2) STAKES AT EACH ORNAMENTAL AND STORMWATER TREE PER DETAIL.

G. LAWN AND SEEDED AREAS
1. HYDRO-SEED OR TERRA-SEED PER MANUFACTURER'S RECOMMENDED RATES.
2. CONTRACTOR RESPONSIBLE FOR MAINTAINING SEEDED AREA THROUGH ESTABLISHMENT. PROVIDE (3) MOWINGS MINIMUM.
3. RE-SEED ANY AREAS AS NECESSARY TO ACHIEVE FULL HEALTHY TURF.
4. UPLAND SEED MIXTURE: APPLY SEED MIXTURE WITH COMPOST AND TACKIFIER TO A MINIMUM THICKNESS OF 1".

H. MULCHING: MULCH ALL PLANT BEDS TO A MINIMUM DEPTH OF 3" WITHIN 24 HOURS OF PLANTING. TAPER MULCH TO 1" AT PAVING EDGES. MULCH PLANTER BOTTOMS 1" DEPTH OF WASHED AND ROUND 3/8" - NO. 4 PEA GRAVEL. MULCH POND SIDE SLOPES FROM TOP OF SLOPE TO PONDING LEVEL WITH 3" DEPTH FIR BARK MULCH.

I. MAINTENANCE: CONTRACTOR TO MAINTAIN ALL PLANT MATERIAL THROUGH FINAL COMPLETION, INCLUDING WEEDING, PRUNING, MAINTAINING GUYS AND STAKES AND REPLACEMENT OF MULCH.

J. WARRANTY: PLANTING IS INCLUDED IN PROJECT WARRANTY SPECIFIED IN GENERAL CONDITIONS. CONTRACTOR TO WARRANTY PLANT MATERIAL FOR ONE YEAR FOLLOWING FINAL COMPLETION. REPLACE DEAD OR UNHEALTHY PLANTS OF SAME SIZE AND SPECIES AS SPECIFIED. CONTRACTOR IS NOT RESPONSIBLE FOR DEFECTS CAUSED BY VANDALISM.

IRRIGATION SPECIFICATIONS

GENERAL
A. AUTOMATIC UNDERGROUND IRRIGATION SYSTEM IS TO BE PROVIDED FOR ALL PLANT BEDS, LAWNS, SEEDED AREAS AND STORMWATER FACILITIES.
B. SYSTEM REQUIREMENTS: THIS SYSTEM IS TO BE DESIGN/BUILD. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE COMPLETE DESIGN, LAYOUT AND INSTALLATION OF THE LANDSCAPE IRRIGATION SYSTEM. DESIGN IS TO INCLUDE PIPE SIZES, SPRINKLER HEAD SIZE, LOCATION OF PIPES, IRRIGATION SLEEVES, VALVES, SPRINKLER HEADS AND ALL REQUIRED CONTROLS AND ACCESSORIES IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
1. LANDSCAPE DRAWINGS SHOWING THE FOLLOWING:
a.TYPE OF GROUND COVERAGE (SHRUBBERY, TURF AND TREES) AND IRRIGATION DISTRIBUTION GUIDELINES.
2. DESIGN PIPING SYSTEM FOR MAXIMUM WATER FLOW VELOCITY OF FIVE FEET PER SECOND.
3. IRRIGATION ZONE CONTROL SHALL BE AUTOMATIC OPERATION WITH CONTROLLER AND AUTOMATIC CONTROL VALVES.
4. PRECIPITATION RATES AND OPERATING TIMES SHOULD BE DESIGNED TO ALLOW SOIL SATURATION WITHOUT PONDING OR RUNOFF.
5. ZONE IRRIGATION DISTRIBUTION COMPONENTS TO ALLOW FOR DIFFERENT WATER REQUIREMENTS DUE TO DIFFERENT SOLAR AND WIND EXPOSURE.
6. SEPARATE ZONES SHALL PROVIDE FOR NE AND SW EXPOSURES.
7. OVERLAP: LOCATE AND SPACE SPRINKLER HEADS TO PROVIDE HEAD TO HEAD AND UNIFORM COVERAGE. PARTIAL CIRCLE OR ADJUSTABLE ARC HEADS SHALL BE INSTALLED TO PROTECT SIDEWALKS, ROADWAYS AND FENCES. SPRINKLER HEAD SPACING SHALL ALSO PROTECT PLANTS FROM CLOSE VELOCITY SPRAYS WHICH MAY DAMAGE TREE TRUNKS.

B. IRRIGATION PLAN SUBMITTAL
1. CONTRACTOR IS TO SUBMIT A LEGIBLE IRRIGATION PLAN AT A SCALE 1"-20'-0" OR LARGER.
2. PLAN IS TO BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL (2) WEEK PRIOR TO INSTALLATION.
3. PLAN TO INCLUDE ALL ABOVE MENTIONED PERFORMANCE REQUIREMENTS.
4. PLAN TO SHOW ALL PROPOSED IRRIGATION IMPROVEMENTS INCLUDING HEADS, PIPING, SIZING, VALVES, ZONE SCHEDULE, CONTROLLER AND BACK FLOW PREVENTER.

C. SUBMITTALS
1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. INCLUDE RATED CAPACITIES, OPERATING CHARACTERISTICS, ELECTRICAL CHARACTERISTICS, AND FURNISHED SPECIALTIES AND ACCESSORIES.
2. RECORD DRAWINGS: CONTRACTOR SHALL MAINTAIN A CURRENT LEGIBLE SET OF IRRIGATION PLANS IN A SAFE AND ACCESSIBLE LOCATION ON SITE AT ALL TIMES FOR REVIEW. RECORD ACTUAL LOCATIONS OF ALL CONCEALED COMPONENTS, PIPING SYSTEM, SLEEVES AND DRAIN VALVES.
3. ZONING CHART: SHOW EACH IRRIGATION ZONE AND ITS CONTROL VALVE.
4. CONTROLLER TIMING SCHEDULE: PROVIDE SCHEDULE INDICATING LENGTH OF TIME EACH VALVE IS REQUIRED TO BE OPEN TO PROVIDE A DETERMINED AMOUNT OF WATER FOR 3 SEASONS.
5. OPERATION AND MAINTENANCE DATA: PROVIDE INSTRUCTIONS FOR OPERATION AND MAINTENANCE OF SYSTEM AND CONTROLS, SEASONAL ACTIVATION AND SHUTDOWN, AND MANUFACTURER'S CATALOG

D. INSTALLER QUALIFICATIONS:
1. FOR IRRIGATION WORK: VALID OREGON LANDSCAPE CONTRACTORS LICENSE FOR IRRIGATION, AND A VALID OREGON LANDSCAPE BUSINESS LICENSE.
2. FOR PLUMBING WORK: VALID OREGON PLUMBING LICENSE. THIS INCLUDES ALL POTABLE WATER LINES. FOR BACKFLOW PREVENTER INSTALLATIONS, A VALID OREGON LANDSCAPE CONTRACTORS LICENSE FOR IRRIGATION AND BACKFLOW OR A VALID OREGON PLUMBING LICENSE.

E. MEETINGS AND INSPECTIONS
CONVENE ON SITE MEETING WITH LANDSCAPE ARCHITECT, GENERAL CONTRACTOR AND IRRIGATION CONTRACTOR TOW WEEKS BEFORE STARTING WORK OF THIS SECTION.
NOTIFY LANDSCAPE ARCHITECT AT LEAST 48 HOURS BEFORE TIME FOR THE FOLLOWING INSPECTIONS:
1. UPON COMPLETION OF THE MAIN LINE, WITH ALL VALVES INSTALLED, PRIOR TO BACKFILLING.
2. AT START AND END OF PRESSURE TEST, CONTRACTOR TO PRESSURIZE MAINLINE TO 100 PSI, MAXIMUM OF 4 PSI PRESSURE LOSS ALLOWABLE OVER 24 HOUR PERIOD.
3. PERFORMANCE INSPECTION UPON COMPLETION OF THE ENTIRE SYSTEM AND AFTER PLANT INSTALLATION.

F. WARRANTY
WARRANTY ALL MATERIAL FOR ONE YEAR AFTER DATE OF COMPLETION OR LONGER IF MANUFACTURER FURNISHES A LONGER GUARANTEE. CORRECT IMMEDIATELY ANY FAILURE CAUSED BY POOR MATERIAL OR WORKMANSHIP DURING WARRANTY PERIOD.

G. MATERIALS
FURNISH EXTRA MATERIALS THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS.
(8) SPRINKLER HEADS OF EACH TYPE AND SIZE.
(4) NOZZLES OF EACH TYPE AND SIZE.
(2) VALVE KEYS FOR MANUAL VALVES.
(2) VALVE BOX KEYS.
(2) WRENCHES FOR EACH TYPE OF HEAD CORE AND FOR REMOVING AND INSTALLING EACH TYPE OF HEAD.

PRODUCTS
A. PIPES, TUBES, AND FITTINGS
1. MAIN LINES: POLYVINYL CHLORIDE (PVC) 1120, SCHEDULE 40, ASTM D-2466
2. LATERAL LINES: POLYVINYL CHLORIDE (PVC) 1120, SCHEDULE 40, ASTM D-2466
3. SWING JOINTS AT SPRAY HEAD SPRINKLERS: TRIPLE ELBOW ASSEMBLY USING FLEXIBLE TUBING. 18" MINIMUM LENGTH, 30" MAXIMUM.
4. SOCKET TYPE FITTINGS: ASTM D-2466, SCHEDULE 40 P.V.C.
5. THREADED FITTINGS: ASTM D-2464 SCHEDULE 80 P.V.C.
6. SLEEVE PIPING: ASTM D-2466, PVC 1120, SCHEDULE 40 P.V.C.

B. PIPING JOINING MATERIALS
1. PVC CLEANER AND PRIMER: R. G. SLOAN "WELD-ON P-70" OR EQUAL.
2. SOLVENT CEMENTS FOR JOINING PVC PIPING: R. G. SLOAN "WELD-ON 711" OR EQUAL. ENSURE THAT MANUFACTURER'S EXPIRATION DATE IS NOT EXCEEDED.
3. PIPE JOINT TAPE: TEFLON TAPE ON ALL THREADED JOINTS. MINIMUM OF 4 WRAPS.

C. MANUAL VALVES
1. GATE VALVES: NIBCO T-113.
2. MANUAL DRAIN VALVES: BRONZE CONSTRUCTION, ANGLE TYPE. 150 LB. CLASS, THREADED END CONNECTIONS, WITH CROSS TYPE OPERATING HANDLE DESIGNED TO RECEIVE OPERATING KEY. ALL VALVES TO HAVE NON-FLOATING SEAT DISK THAT ALLOWS POSITIVE DRAINAGE. PROVIDE AT MAIN LINE LOW POINTS.
3. MASTER SHUT-OFF VALVE: KENNDEY 5057, NIBCO F-619-RWS OR APPROVED.

D. AUTOMATIC CONTROL VALVES: RAIN BIRD PEB, HUNTER ICV OR APPROVED WITH PRESSURE REGULATION DIALS AT SPRAY ZONES.

E. SPRINKLERS
1. POP-UP SPRAY SPRINKLERS: RAIN BIRD, HUNTER OR APPROVED.

F. HARD WIRED CONTROLS
1. WALL MOUNT AUTOMATIC CONTROLLERS: RAIN BIRD ESP, HUNTER I-CORE OR APPROVED..
2. WIRE CONDUCTORS: 14 GAUGE, SINGLE STRAND. WHITE - COMMON, RED - ZONES, BLACK SPARE.
3. WIRE CONNECTORS: DBY BY 3M, SCOTCH LOK 3570 OR APPROVED.

G. TRACER WIRE AND TRACER WIRE BOX
1. CONTRACTOR SHALL PLACE A UF #12 MINIMUM BLUE TRACER WIRE TO ALLOW FOR LOCATION AND MARKING OF ALL OTHERWISE UN-LOCATABLE BURIED PIPE CONTAINING PRESSURIZED WATER. TRACER WIRE SHALL BE CONTINUOUS WITHOUT SPLICES UNLESS APPROVED PRIOR TO THE WORK. IF APPROVED, SPLICES SHALL BE MADE USING A HIGH-PRESSURE TYPE SOLDERLESS CONNECTOR. ALL SPLICE KITS SHALL BE APPROVED.
2. SPLICES SHALL BE INSULATED AND WATERPROOFED. TAPE WRAPPED AROUND SPLICES WILL NOT BE ACCEPTED AS WATERPROOFING.

H. VALVE BOXES
1. AUTOMATIC AND MANUAL CONTROL VALVES: 12" STANDARD W/ LOCKING LID. DOUBLE BOX ASSEMBLY
2. MANUAL DRAIN AND ISOLATION VALVES: 10" ROUND W/ "IRRIGATION MAIN" LABELED ON INSIDE OF LID.
3. MASTER SHUT-OFF VALVES: 12" STANDARD W/ LOCKING LID. DOUBLE BOX ASSEMBLY.
4. VALVE BOX LID COLORS: BROWN AT PLANT BEDS. GREEN AT LAWNS.

I. VALVE SUMP AT MANUAL DRAIN VALVE. MINIMUM ONE CUBIC FOOT OF 3/4" MINUS PEA GRAVEL. LINE WITH FILTER FABRIC.

EXECUTION
A. EARTHWORK: PROVIDE MINIMUM COVER OVER TOP OF PIPING ACCORDING TO THE FOLLOWING:
1. IRRIGATION MAIN PIPING: MINIMUM DEPTH OF 18" BELOW FINISHED GRADE TO TOP OF PIPE.
2. CIRCUIT PIPING: MINIMUM DEPTH OF 15" BELOW FINISHED GRADE TO TOP OF PIPE.
3. SLEEVES: MINIMUM DEPTH OF 18" BELOW FINISHED GRADE TO CENTER OF PIPE.

B. PREPARATION
1. REVIEW LAYOUT REQUIREMENTS WITH PLANTINGS AND OTHER AFFECTED WORK. CONTRACTOR IS RESPONSIBLE FOR ENSURING IRRIGATION EQUIPMENT LOCATIONS DO NOT CONFLICT WITH PROPOSED PLANT LOCATIONS.

C. PIPING INSTALLATION
1. PIPING LAYOUT INDICATED IS DIAGRAMMATIC.
2. ROUTE PIPING AND VALVE BOXES TO AVOID TREES, SHRUBS, GROUND COVER, AND STRUCTURES.
3. REVIEW LAYOUT REQUIREMENTS WITH PLANTINGS AND OTHER AFFECTED WORK. CONTRACTOR IS RESPONSIBLE FOR INSURING IRRIGATION EQUIPMENT LOCATIONS DO NOT CONFLICT WITH PROPOSED PLANT LOCATIONS.
4. PROVIDE 3" SAND BEDDING BELOW ALL MAIN AND LATERAL LINE PIPING.
5. PROVIDE 3" MINIMUM DEBRIS FREE COVER OVER ALL MAIN AND LATERAL LINE PIPING.
6. INSTALL PIPING IN SLEEVES UNDER PARKING LOTS, ROADWAYS, AND SIDEWALKS.

D. SLEEVE INSTALLATION
1. INSTALL SLEEVES UNDER PARKING LOTS, ROADWAYS, SIDEWALKS AND ELSEWHERE SHOWN ON DRAWINGS.
2. CONTRACTOR RESPONSIBLE FOR INSTALLING SLEEVING IN ADDITION TO THAT SHOWN ON DRAWINGS AS NECESSARY FOR COMPLETE INSTALLATION OF SYSTEM AS DESIGNED.
3. EXTEND SLEEVES A MINIMUM OF ONE-FOOT BEYOND SIDEWALKS ON EACH SIDE.

E. VALVE INSTALLATION
1. AUTOMATIC CONTROL VALVES: INSTALL IN DOUBLE VALVE BOX ASSEMBLY AS DETAILED ON DRAWINGS.
2. MAIN LINE MANUAL DRAIN VALVES: INSTALL AT MAIN LINE LOW POINTS .INSTALL IN 10" ROUND VALVE BOX.PROVIDE 4" CORRUGATED PIPE FROM VALVE BOX ELEVATION TO DRAIN VALVE.
3. ISOLATION VALVES: INSTALL IN 10" ROUND VALVE BOX. PROVIDE 4" CORRUGATED PIPE FROM VALVE BOX ELEVATION TO DRAIN VALVE.

F. SPRINKLER INSTALLATION
1. LOCATE PART-CIRCLE SPRINKLERS TO MAINTAIN A MINIMUM DISTANCE OF 6 INCHES FROM WALLS AND 2 INCHES FROM OTHER BOUNDARIES UNLESS OTHERWISE INDICATED.
2. INSTALL SPRINKLERS PERPENDICULAR TO SLOPE.

G. AUTOMATIC CONTROLLER WIRE INSTALLATION
1. INSTALL WIRE BENEATH MAIN LINE PIPE AND COIL 18" EXTRA WIRE AT 100' INTERVALS AND EACH TURN TO ALLOW FOR CONTRACTION OF WIRE.
2. BUNDLE WIRE TOGETHER AT 5-FOOT INTERVALS WITH PLASTIC TAPE OR SIMILAR.
3. INSTALL WIRE IN CONTINUOUS RUNS WITH NO SPLICES UNLESS APPROVED.
4. ENSURE MINIMUM ADDITIONAL 48-INCHES OF WIRE ABOVE FINISHED GRADE IS COILED AROUND ¾-INCH PIPE IN BOXES.
5. MAKE ALL SPLICES IN A VALVE BOX AND NOTE THESE ON RECORD DRAWING WHEN APPROVED.
6. PROVIDE AN EXTRA COIL OF EACH WIRE AT EACH SPLICE.
7. LABEL WIRES ON BOTH SIDES OF SPLICE WITH PERMANENT, WATER-PROOF TAG.
8. INSTALL WATERPROOF CONNECTIONS AT THE END OF EXTRA WIRES.

I. STARTUP SERVICE AND CLEANING
1. PERFORM STARTUP SERVICE.
2. PERFORM ONE SEASONAL SHUT-DOWN AND START-UP OF SYSTEM AND INSTRUCT OWNER'S PERSONNEL IN NECESSARY PROCEDURES.

PERMIT PLANS - NOT FOR CONSTRUCTION

LANDSCAPE & IRRIGATION SPECIFICATIONS

kpff

REGISTERED 279 David J. Dougherty OREGON LANDSCAPE ARCHITECT

PROJECT TITLE

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REVISIONS

TYP	DATE	REFERENCE

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