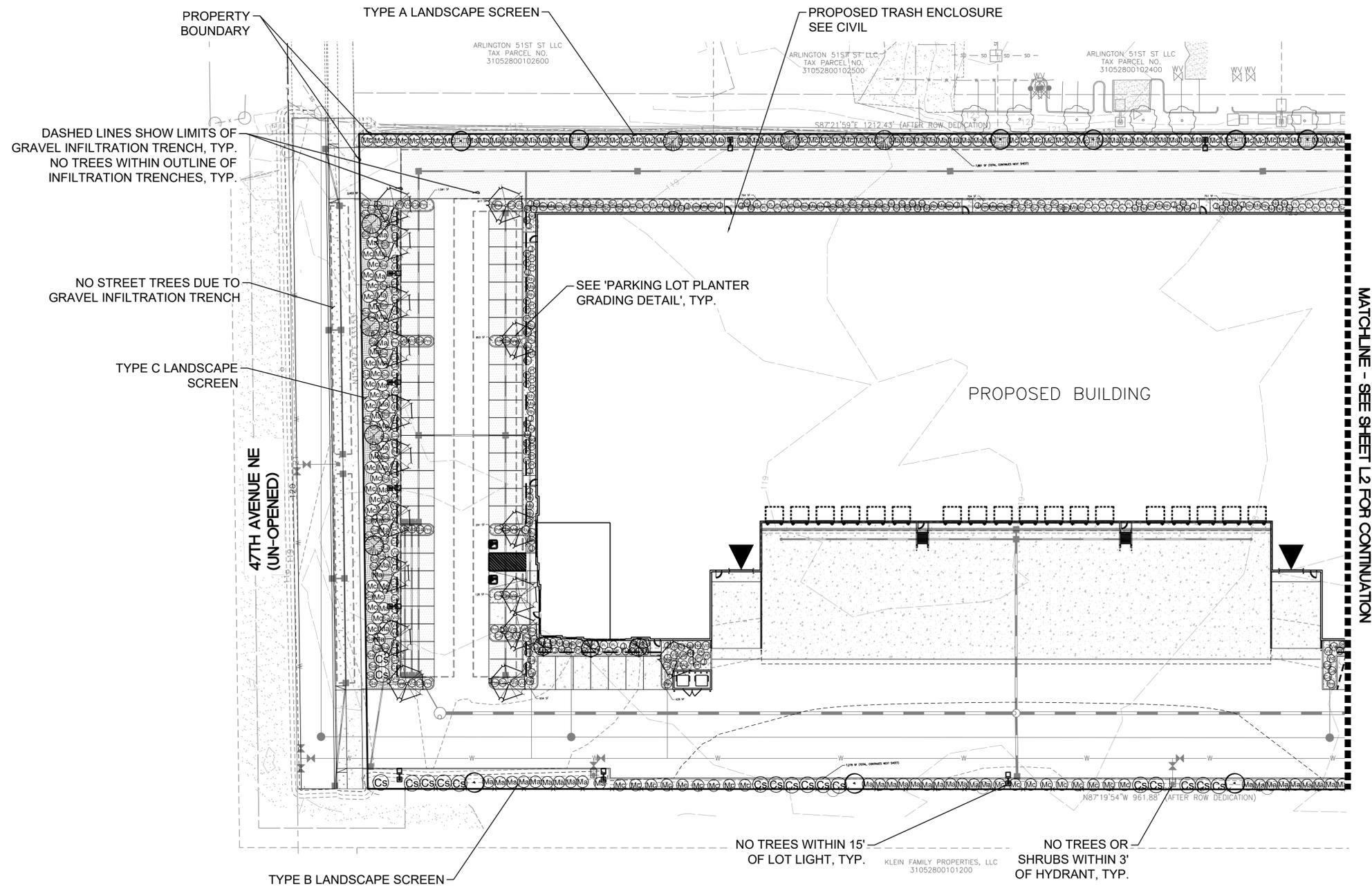
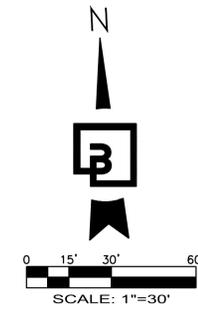


LANDSCAPE PLAN
 FOR
NORTHSOUND LOGISTICS CENTER
 SEC. 28, TWP. 31 N., RGE 5 E., W. M.
 CITY OF ARLINGTON, SNOHOMISH COUNTY, WASHINGTON
 PLN NO. 1276



TOTAL LANDSCAPE AREA
 TOTAL AREA: 404,619 SF (9.29 AC)
 - TOTAL LOT LANDSCAPING: 11.33% (45,824 SF)

PARKING AREA SHADING CALCULATION:
 PER AMC 20, 76.130:
 VEHICLE ACCOMMODATION AREA = 125,796 SF
 20% OF VEHICLE ACCOMMODATION AREA REQUIRED TO BE SHADED
 125,796 SF X 0.2 = 25,159 SF SHADE AREA REQUIRED
 SHADE AREA PER TREE = 707 SF (59 TREES)
 707 X 59 = 41,713 SF SHADE AREA PROVIDED (33%)
 1 PARKING LOT TREE REQUIRED PER 7 PARKING SPACES
 PARKING SPACES = 117
 117 / 7 = 17 TREES REQUIRED, 32 PROVIDED

- LANDSCAPE LEGEND**
- EXISTING SIGNIFICANT TREE TO BE RETAINED PROTECT DURING CONSTRUCTION
 - EXISTING SIGNIFICANT TREE TO BE REMOVED
 - ROCK MULCH 3"-4" D. OF 3"-6" DIA. WASHED COBBLE OVER LANDSCAPE FABRIC

LANDSCAPE PLAN
 FOR
 NORTHSOUND LOGISTICS CENTER
 51ST AVE, ARLINGTON, WA 98223

For: ROCKEFELLER ACQUISITIONS, LLC
 3161 MICHELSON DRIVE, SUITE 900
 IRVINE, CA 92612
 (206) 203-8792



Scale:	Horizontal	Vertical
	1" = 30'	N/A
Designed	TCR	
Drawn	TCR	
Checked	JMV	
Approved	TCR	
Date	2/10/25	

Barghausen Consulting Engineers, LLC.
 18215 72nd Avenue South
 Kent, WA 98032
 425.251.6222
 barghausen.com



Job Number
23642
 Sheet
L1 of **7**

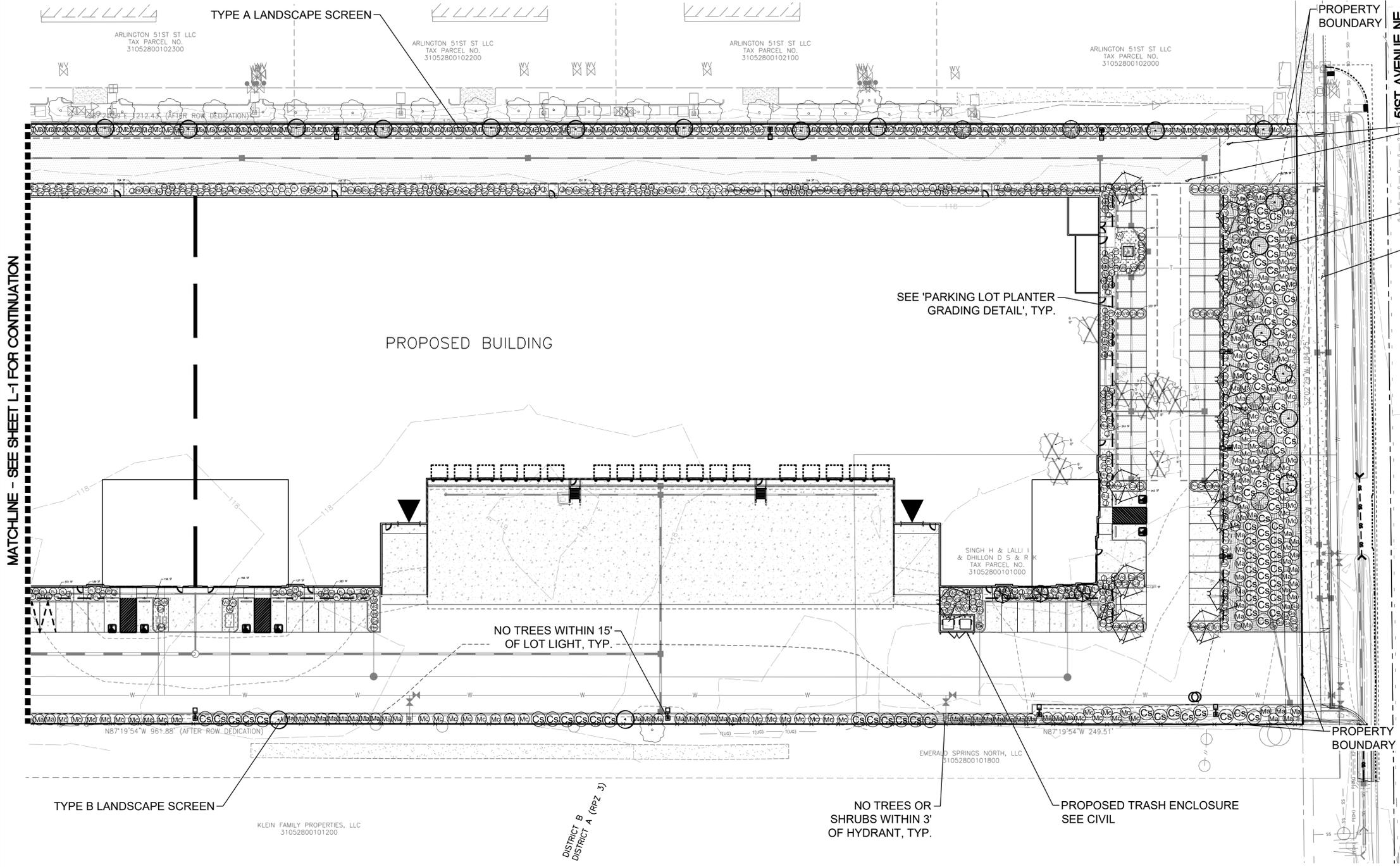
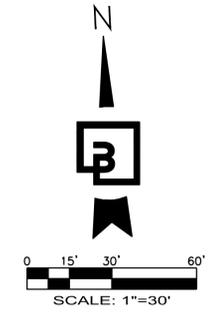
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LANDSCAPE PLAN

FOR
NORTHSOUND LOGISTICS CENTER
 SEC. 28, TWP. 31 N., RGE 5 E., W. M.
 CITY OF ARLINGTON, SNOHOMISH COUNTY, WASHINGTON
 PLN NO. 1276



DASHED LINES SHOW LIMITS OF GRAVEL INFILTRATION TRENCH, TYP.
 NO TREES WITHIN OUTLINE OF INFILTRATION TRENCHES, TYP.

TYPE C LANDSCAPE SCREEN

NO STREET TREES DUE TO GRAVEL INFILTRATION TRENCH

MATCHLINE - SEE SHEET L-1 FOR CONTINUATION

TREES TO BE REMOVED
NOTE: TREE NUMBERS SHOWN HERE APPLY ONLY TO THIS LANDSCAPE PLAN. NO ARBORIST REPORT SUBMITTED.

TREE #	DIA.	SPECIES/TYPE
1	12"	DECIDUOUS
2	12"	DECIDUOUS
3	12"	DECIDUOUS
4	8"	DECIDUOUS
5	8"	DECIDUOUS
6	6"	DECIDUOUS
7	6"	DECIDUOUS
8	16"	DECIDUOUS
9	6"	DECIDUOUS

9 SIGNIFICANT TREES REMOVED, 27 5-GAL REPLACEMENT TREES REQUIRED AND PROVIDED. SEE PLAN AND PLANT SCHEDULE

Planting plan shows 43 provided? Please update for consistency.

LANDSCAPE LEGEND

	EXISTING SIGNIFICANT TREE TO BE RETAINED PROTECT DURING CONSTRUCTION
	EXISTING SIGNIFICANT TREE TO BE REMOVED
	ROCK MULCH 3"-4" D. OF 3"-6" DIA. WASHED COBBLE OVER LANDSCAPE FABRIC

LANDSCAPE PLAN FOR NORTH SOUND LOGISTICS CENTER 51ST AVE, ARLINGTON, WA 98223

Title: For: ROCKEFELLER ACQUISITIONS, LLC 3161 MICHELSON DRIVE, SUITE 900 IRVINE, CA 92612 (206) 203-8792



Scale: Horizontal 1" = 30' Vertical N/A

Designed: TCR Draw: TCR Checked: JMV Approved: TCR Date: 2/10/25

Barghausen Consulting Engineers, LLC. 18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com



Job Number 23642 Sheet L2 of 7

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PLANT SCHEDULE
FOR
NORTHSOUND LOGISTICS CENTER
SEC. 28, TWP. 31 N., RGE 5 E., W. M.
CITY OF ARLINGTON, SNOHOMISH COUNTY, WASHINGTON
PLN NO. 1276

PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT.	SIZE	SPACING
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TREES

	6	ACER PALMATUM 'SHISHIGASHIRA' / JAPANESE MAPLE DO NOT SUBSTITUTE OTHER VARIETIES WITHOUT CONSULTING LANDSCAPE ARCHITECT. NURSERY GROWN, FULL TOP GROWTH. STAKE AND GUY ONE GROWING SEASON	B & B	1.5" CAL.	SPACING
	32	GLEDTISIA TRIACANTHOS INERMIS 'SHADEMASTER' / HONEY LOCUST 'SKYLINE' ALSO ACCEPTABLE. NURSERY GROWN FOR STREET TREE USE, BRANCHING AT 5'. STAKE AND GUY ONE GROWING SEASON.	B & B	1.5" CAL.	

REPLACEMENT TREES

	28	ACER CIRCINATUM / VINE MAPLE NURSERY GROWN, MULTI-STEM OR TRUE CLUMPS. STAKE AND GUY ONE GROWING SEASON	5 GAL. MIN.	
	15	PINUS CONTORTA VAR. CONTORTA / SHORE PINE NURSERY GROWN, UNCUT LEADER, FULL TO BASE. STAKE AND GUY ONE GROWING SEASON.	5 GAL. MIN.	

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT.
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SHRUBS

	97	CORNUS SERICEA / REDTWIG DOGWOOD	1 GAL. MIN.
	57	JUNIPERUS SCOPULORUM 'SKYROCKET' / SKYROCKET JUNIPER DO NOT SUBSTITUTE OTHER VARIETIES	4' MIN. HT.
	257	MAHONIA AQUIFOLIUM / OREGON GRAPE	1 GAL. MIN.
	190	MYRICA CALIFORNICA / PACIFIC WAXMYRTLE	1 GAL. MIN.
	115	NANDINA DOMESTICA 'GULF STREAM' / HEAVENLY BAMBOO	1 GAL. MIN.
	60	PINUS MUGO 'PUMILIO' / DWARF MUGO PINE DO NOT SUBSTITUTE OTHER VARIETIES	1 GAL. MIN.
	83	POTENTILLA FRUTICOSA 'GOLDFINGER' / CINQUEFOIL	1 GAL. MIN.
	68	PRUNUS LAUROCERASUS 'MOUNT VERNON' / LOW ENGLISH LAUREL DO NOT SUBSTITUTE OTHER VARIETIES	1 GAL. MIN.
	56	RHODODENDRON 'HOLDEN' / RHODODENDRON	1 GAL. MIN.
	29	ROSA X 'UHLATER' / FOXI PAVEMENT ROSE	1 GAL. MIN.
	90	SARCOCOCCA CONFUSA / SWEETBOX	1 GAL. MIN.
	76	SYMPHORICARPOS ALBUS / SNOWBERRY	1 GAL. MIN.
	117	VIBURNUM DAVIDII / DAVID VIBURNUM	1 GAL. MIN.

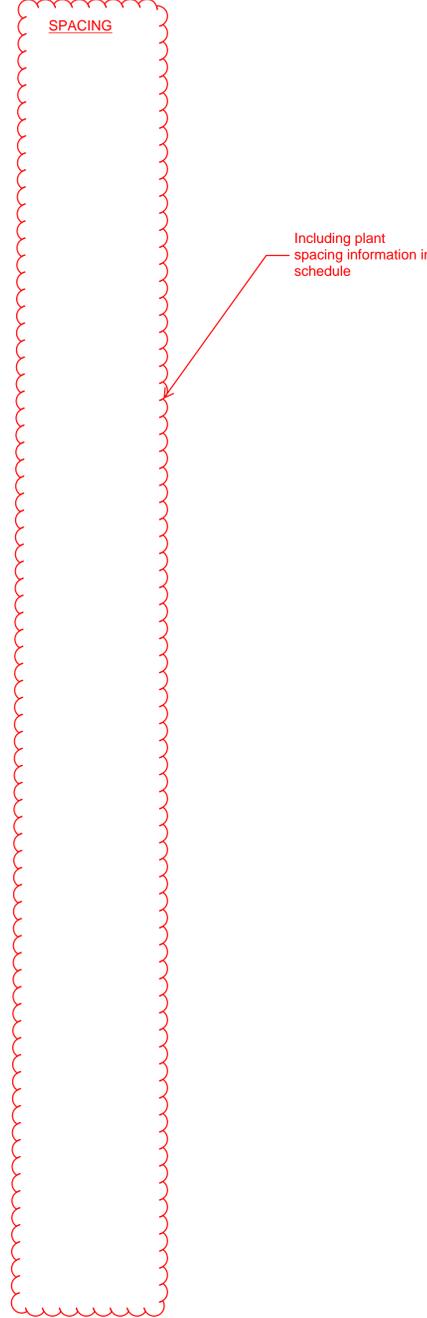
GRASS/GRASS-LIKE

	75	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	1 GAL. MIN.
	28	MISCANTHUS SINENSIS 'MORNING LIGHT' / MAIDEN GRASS	1 GAL. MIN.

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING
--------	-----	-------------------------	-------	---------

GROUND COVERS

	948	ARCTOSTAPHYLOS UVA-URSI 'MASSACHUSETTS' / KINNIKINNICK	1 GAL.	36" o.c.
	932	GAULTHERIA SHALLON / SALAL	1 GAL.	36" o.c.
	2,689 SF	LAWN, TURFGRASS COUNTRY GREEN PREMIUM SOD MIX O.A.E., 5-6 LBS. PER 1,000 S.F.	SOD OR SEED	



PLANT SCHEDULE
FOR
NORTHSOUND LOGISTICS CENTER
51ST AVE, ARLINGTON, WA 98223

Title:

For: ROCKEFELLER ACQUISITIONS, LLC
3161 MICHELSON DRIVE, SUITE 900
IRVINE, CA 92612
(206) 203-8792



Scale:
Horizontal N/A
Vertical N/A

Designed	TCR	Date	2/10/25
Drawn	TCR		
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Approved	TCR		

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LANDSCAPE NOTES AND DETAILS

FOR NORTHSOUND LOGISTICS CENTER SEC. 28, TWP. 31 N., RGE 5 E., W. M. CITY OF ARLINGTON, SNOHOMISH COUNTY, WASHINGTON PLN NO. 1276

LANDSCAPE PLANTING NOTES AND MATERIALS

SCOPE OF WORK

FURNISH ALL MATERIALS, LABOR, EQUIPMENT AND RELATED ITEMS NECESSARY TO ACCOMPLISH TOPSOIL, TREATMENT AND PREPARATION OF SOIL, FINISH GRADING, PLACEMENT OF SPECIFIED PLANT MATERIALS, FERTILIZER, STAKING, MULCH, CLEAN-UP, DEBRIS REMOVAL, AND 30-DAY MAINTENANCE.

QUALIFICATIONS:
LANDSCAPE CONTRACTOR TO BE SKILLED AND KNOWLEDGEABLE IN THE FIELD OF WORK AND HAVE A MINIMUM OF FIVE (5) YEAR'S EXPERIENCE INSTALLING SIMILAR WORK. CONTRACTOR TO BE LICENSED TO PERFORM THE WORK SPECIFIED WITHIN THE PRESIDING JURISDICTION.

JOB CONDITIONS:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE SITE AND REPORT ANY DISCREPANCIES TO THE OWNER OR THE OWNER'S REPRESENTATIVES. ALL PLANT MATERIAL AND FINISH GRADES ARE SUBJECT TO APPROVAL BY THE OWNER.

PROTECTION:
SAVE AND PROTECT ALL EXISTING PLANTINGS SHOWN TO REMAIN. DO NOT PLANT UNTIL OTHER CONSTRUCTION OPERATIONS WHICH CONFLICT HAVE BEEN COMPLETED. IF AN IRRIGATION SYSTEM IS TO BE INSTALLED DO NOT PLANT UNTIL THE SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE OWNER. HANDLE PLANTS WITH CARE - DO NOT DAMAGE OR BREAK ROOT SYSTEM, BARK, OR BRANCHES. REPAIR AND/OR REPLACE ITEMS DAMAGED AS A RESULT OF WORK, OR WORK NOT IN COMPLIANCE WITH PLANS AND SPECIFICATIONS, AS DIRECTED BY OWNER AT NO ADDITIONAL COST TO THE OWNER.

REPAIR OF EXISTING PLANTINGS:
DURING THE COURSE OF WORK, REPAIR ALL EXISTING PLANTING AREAS BY PRUNING DEAD GROWTH, RE-ESTABLISHING FINISH GRADE AND RE-MULCHING TO SPECIFIED DEPTH.

GUARANTEE:
GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THE JOB BY OWNER.

30-DAY MAINTENANCE:
CONTRACTOR TO PROVIDE OWNER WITH A SCOPE OF WORK AT TIME OF INITIAL PROJECT BID TO PROVIDE LANDSCAPE AND IRRIGATION MAINTENANCE FOR 30 DAYS FOLLOWING STORE OPENING. WORK TO INCLUDE MAINTENANCE AS DESCRIBED BELOW, IN PLANTING AND IRRIGATION MAINTENANCE.

SUBMITTALS:
SUBMIT THE FOLLOWING TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO THE START OF ANY WORK:

- DOCUMENTATION THAT ALL PLANT MATERIAL HAS BEEN ORDERED.
- TOPSOIL ANALYSIS AND RECOMMENDED AMENDMENTS.
- TREE STAKING AND CURING MATERIALS.
- ONE (1) QUART SIZE OF TOPSOIL AND MULCH.
- PLANTING SCHEDULE INCLUDING DATES AND TIMES.
- MAINTENANCE INSTRUCTIONS FOR ONE (1) FULL YEAR.

MATERIALS:

PLANT MATERIALS:
PLANT MATERIALS TO BE GRADE NO. 1, SIZED IN ACCORDANCE WITH (AAN) AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1-2004). PRUNE PLANTS RECEIVED FROM THE NURSERY ONLY UPON AUTHORIZATION BY THE LANDSCAPE ARCHITECT. "B & B" INDICATES BALLED AND BURLAPPED; "CONT." INDICATES CONTAINER; "BR" INDICATES BARE ROOT; "CAL" INDICATES CALIPER AT 6" ABOVE SOIL LINE; "GAL" INDICATES GALLON.

- SPECIFIED PLANT CANOPY SIZE OR CALIPER IS THE MINIMUM ACCEPTABLE CONTAINER OR BALL SIZE AND ESTABLISHES MINIMUM PLANT CONDITION TO BE PROVIDED.
- QUALITY:
PLANT MATERIAL TO COMPLY WITH STATE AND FEDERAL LAWS FOR DISEASE INSPECTION, PLANTS TO BE FULLY LIVE, VIGOROUS, WELL FORMED, WITH WELL DEVELOPED FIBROUS ROOT SYSTEMS. ROOT BALLS OF PLANTS TO BE SOLID AND FIRMLY HELD TOGETHER, SECURELY CONTAINED AND PROTECTED FROM INJURY AND DESICCATION. PLANTS DETERMINED BY LANDSCAPE ARCHITECT TO HAVE BEEN DAMAGED; HAVE DEFORMITIES OF STEM, BRANCHES, OR ROOTS; LACK SYMMETRY, HAVE MULTIPLE LEADERS OR "Y" CROTCHES LESS THAN 30 DEGREES IN TREES, OR DO NOT MEET SIZE OR ANSI STANDARDS WILL BE REJECTED. PLANT MATERIAL TO BE FROM A SINGLE NURSERY SOURCE FOR EACH SPECIFIED SPECIES/HYBRID. NURSERY SOURCES TO BE THOSE LOCATED IN THE SAME REGION AS THE JOB SITE.
- SUBSTITUTION:
NO SUBSTITUTION OF PLANT MATERIAL, SPECIES OR VARIETY, WILL BE PERMITTED UNLESS WRITTEN EVIDENCE IS SUBMITTED TO THE OWNER FROM TWO QUALIFIED PLANT BROKERAGE OFFICES. SUBSTITUTIONS WHICH ARE PERMITTED TO BE IN WRITING FROM THE OWNER AND LANDSCAPE ARCHITECT, THE SPECIFIED SIZE, SPECIES AND NEAREST VARIETY, AS APPROVED, TO BE FURNISHED. SUBSTITUTIONS MAY REQUIRE SUBMITTAL TO REVISED LANDSCAPE PLAN TO CITY FOR APPROVAL.

- LABEL AT LEAST ONE (1) TREE, SHRUB, AND GROUNDCOVER OF EACH VARIETY WITH A SECURELY ATTACHED WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTANICAL AND COMMON NAMES.
- DELIVER PLANT MATERIAL AFTER PREPARATION OF PLANTING AREAS HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN SIX (6) HOURS AFTER DELIVERY, SET MATERIAL IN SHADE, PROTECT FOR WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOT BALLS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.

SOIL PREPARATION:
TOPSOIL, AMENDMENT, AND BACKFILL ARE GENERAL REQUIREMENTS FOR ALL LANDSCAPE AREAS, UNLESS NOTED OTHERWISE ON THE PLANS. SOIL AMENDMENTS AND FERTILIZER NOTED BELOW ARE TO BE USED FOR BID PRICE BASIS ONLY. SPECIFIC AMENDMENTS AND FERTILIZERS WILL BE MADE AFTER SOIL SAMPLES ARE LABORATORY TESTED BY THE CONTRACTOR. PROVIDE CHANGE ORDER FOR ADDITIONAL OR REDUCTION OF MATERIALS REQUIRED OR NOT REQUIRED BY THE SOILS REPORT.

SOIL FERTILITY AND AGRICULTURAL SUITABILITY ANALYSIS:
AFTER ROUGH GRADING AND PRIOR TO SOIL PREPARATION, CONTRACTOR TO OBTAIN TWO REPRESENTATIVE SOIL SAMPLES, FROM LOCATIONS AS DIRECTED BY THE LANDSCAPE ARCHITECT, TO A SOIL TESTING LABORATORY. SUBMIT RESULTS TO LANDSCAPE ARCHITECT FOR REVIEW. TESTS TO INCLUDE FERTILITY AND SUITABILITY ANALYSIS WITH WRITTEN RECOMMENDATIONS FOR SOIL AMENDMENT, FERTILIZER, CONDITIONERS, APPLICATION RATES, AND POST-CONSTRUCTION MAINTENANCE PROGRAM. TESTS TO BE CONTRACTED WITH AND PAID FOR BY THE CONTRACTOR.

- TOPSOIL:
CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL TOPSOIL AND FOR DETERMINING THE VOLUME OF TOPSOIL REQUIRED PER THE INFORMATION ON PLANS AND NOTED HERE-IN. CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY WEED CONTROL RESULTING FROM CONTAMINATED OFF SITE SOURCES.
- TOPSOIL TO CONSIST OF 1/3 BY VOLUME SANDY LOAM, 1/3 BY VOLUME COMPOSTED GARDEN MULCH, AND 1/3 BY VOLUME COARSE WASHED SAND OR EQUIVALENT.

- TOPSOIL PREPARATION AND INSTALLATION:
1. VERIFY SUBGRADES TO -9 INCHES IN LANDSCAPE AREAS OR AS INDICATED ON PLANS. THIS ACCOMMODATES TOPSOIL, AMENDMENTS, AND MULCH. 6" IMPORTED TOPSOIL FOR LANDSCAPE BEDS.
2. ERADICATE ANY SURFACE VEGETATION ROOTED IN THE SUB-GRADE PRIOR TO SUB-GRADE PREPARATION.
3. REMOVE SOIL LUMPS, ROCK, VEGETATION AND/OR DEBRIS LARGER THAN 2 INCHES FROM ALL SUB-GRADE PRIOR TO PLACEMENT OF SPECIFIED TOPSOIL.
4. REMOVE ANY ASPHALT EXTENDING BEYOND 6 INCHES FROM CURBS INTO ADJACENT LANDSCAPE AREAS.

- TOPSOIL PLACEMENT:
1. PROVIDE A TOTAL FINISH COURSE OF 6 INCHES OF TOPSOIL FOR LANDSCAPE AREAS.
2. PLACE ADDITIONAL TOPSOIL AND SOIL MIX AS REQUIRED TO MEET FINISH ELEVATIONS.

MULCH (TOPDRESSING):
ONE-HALF-INCH (1/2") SIZE, TO ONE-QUARTER (1/4"), HEMLOCK/FIR BARK. FINE TEXTURED AND DARK BROWN IN COLOR.

STAKES:
2-INCH DIAMETER BY 8-FOOT MINIMUM LODGEPOLE PINE STAKES.

GUY MATERIAL:
1-INCH WIDE POLYETHYLENE CHAIN LOCK TYPE TIES; OR, 3/8" DIAMETER RUBBER. NO WIRE.

EXECUTION:

CONTAMINANTS:
VERIFY THAT ALL SOIL CONTAMINANTS (E.G., PAINT, SEALANTS, SOLVENTS, OILS, GREASES, CONCRETE/ASPHALT SPOILS, ETC.) HAVE BEEN SATISFACTORILY REMOVED FROM ALL PLANTING AREAS. DO NOT BEGIN WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

FINISH GRADES:
FINE GRADE AND REMOVE ROCKS, DEBRIS, AND FOREIGN OBJECTS OVER 2 INCHES DIAMETER FROM TOP SURFACE OF PREPARED LANDSCAPE AREAS. FINISH ELEVATIONS TO BE DEFINED AS 3 INCHES BELOW CURBS, WALKS AND/OR OTHER ADJACENT HARDSCAPE FOR ALL PLANTING BED AREAS AND 1-INCH BELOW CURBS, WALKS AND/OR OTHER ADJACENT HARDSCAPE FOR ALL LAWN AREAS. FINISH GRADE REFER TO GRADES PRIOR TO INSTALLATION OF MULCH OR LAWN. ALL FINISH GRADES TO BE SMOOTH EVEN GRADES, LIGHTLY COMPACTED, AS SHOWN ON THE PLAN AND DETAILED. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES. SITE CIVIL DRAWINGS IDENTIFY FINAL ELEVATIONS. MOISTEN PREPARED AREAS BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE PLANTING. DO NOT CREATE MUDDY SOIL.

TREES AND SHRUBS:
ARRANGE TREES AND SHRUBS ON SITE IN PROPOSED LOCATIONS PER DRAWINGS. EXCAVATE PIT, PLANT AND STAKE OR GUY, AS CALLED OUT AND DETAILED. ALL TREES, SHRUBS, AND SUPPORTS TO STAND VERTICAL. BACKFILL SHALL BE PIT SPOILS. SETTLE BACKFILL USING WATER ONLY. NO MECHANICAL COMPACTION.

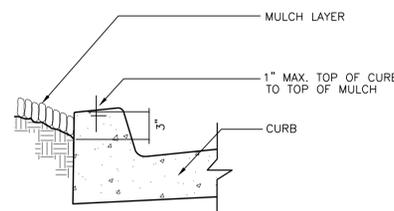
GROUNDCOVERS:
EXCAVATE PITS TO A MINIMUM OF 3 INCHES BELOW, AND TWICE THE ROOT BALL DIAMETER. WATER THOROUGHLY AND TAKE CARE TO ENSURE THAT ROOT CROWN IS AT PROPER GRADE, AS DETAILED.

MULCH:
MULCH ALL LANDSCAPE AREAS. MATCH DEPTH OF EXISTING MULCH. AT A MINIMUM, APPLY SUFFICIENT QUANTITY TO PROVIDE A 4-INCH DEPTH.

UTILITY CLEARANCES:
FIELD ADJUST PLANT LOCATIONS FOR 8-FOOT SEPARATION OF TREES/SHRUBS AND 2-FOOT SEPARATION FOR GROUNDCOVER FROM FIRE HYDRANTS AND UTILITY VAULTS.

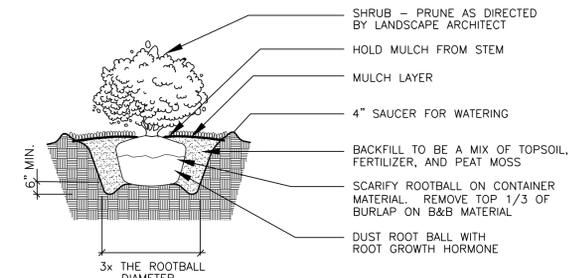
CLEANUP AND PROTECTION:
DURING LANDSCAPE WORK, KEEP ALL PAVEMENT CLEAN AND WORK AREAS IN AN ORDERLY CONDITION. PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIOD. TREAT, REPAIR, OR REPLACE DAMAGE LANDSCAPE WORK AS DIRECTED BY THE OWNER.

PLANTING MAINTENANCE:
PROVIDE FULL MAINTENANCE BY SKILLED EMPLOYEES OF LANDSCAPE INSTALLERS. CONTRACTOR TO MAINTAIN PLANTINGS THROUGH COMPLETED INSTALLATION, AND UNTIL ACCEPTANCE OF LANDSCAPE INSTALLATION. PLANTING MAINTENANCE TO INCLUDE WATERING, WEEDING, CULTIVATING, TIGHTENING AND REPAIRS OF TREE GUYS, RESETTling PLANTS TO PROPER GRADES OR POSITION, RE-ESTABLISHING SETTLED GRADES; AND MOWING LAWNS WEEKLY AFTER LAWN ESTABLISHMENT. HERBICIDE IS NOT RECOMMENDED FOR ONE YEAR FOLLOWING LANDSCAPE INSTALLATION. INCLUDED IS REPLACEMENT OF DEAD PLANTS AND PLANTS SHOWING LOSS OF 40 PERCENT OR MORE OF CANOPY.



MULCH AT CURB DETAIL

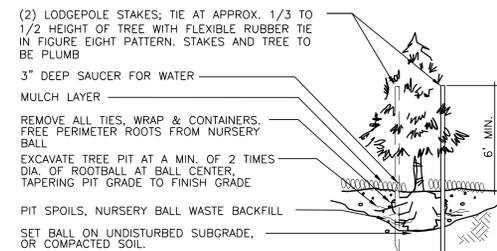
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NOTE:
APPLY ADDITIONAL 4 OZ. 8-32-16 FERTILIZER INTO TOP 2" OF PLANTING MIX.
PLANT SHRUB HIGH ENOUGH TO ALLOW POSITIVE DRAINAGE AWAY FROM ROOTBALL. ROUGHEN ALL SURFACES OF PIT.
CUT AND REMOVE BURLAP FROM ROOT BALL

SHRUB PLANTING DETAIL

NOT TO SCALE



NOTE:
LIGHT FERTILIZER OVER PLANTING BED AFTER BACKFILL ONLY; NO FERTILIZER IN PLANTING PIT.
WORK PERIMETER ROOTS FREE OF NURSERY BALL. BALL & PIT TO BE COARSELY SCARIFIED.

EVERGREEN TREE PLANTING/STAKING DETAIL

NOT TO SCALE

PRUNE DAMAGED TWIGS AFTER PLANTING
PLACE IN VERT. POSITION: DOUBLE LEADERS WILL BE REJECTED

NOTE:
KEEP ROOTBALL MOIST AND PROTECTED AT ALL TIMES. HOLD CROWN OF ROOTBALL AT OR JUST ABOVE FINISH GRADE.
PROTECT TRUNK AND LIMBS FROM INJURY. BACKFILL TO BE SETTLED USING WATER ONLY - NO MECHANICAL COMPACTION.
REMOVE ALL WRAP, TIES & CONTAINERS, REGARDLESS OF MATERIAL.

(2) LODGEPOLE STAKES, PLUMB WITH ELASTIC CHAIN-LOCK TYPE OR RUBBER GUYS TIED IN FIGURE EIGHT; REMOVE AFTER ONE GROWING SEASON

PROTECTIVE WRAPPING DURING SHIPMENT TO SITE AND INSTALLATION REMOVE AT COMPLETION OF PLANTING

LAWN PLANTING; PROVIDE 3" Ø "NO GRASS" TREE RING AND 2" DEEP MULCH LAYER IN WELL. HOLD BACK FROM TRUNK 8" TO 10"

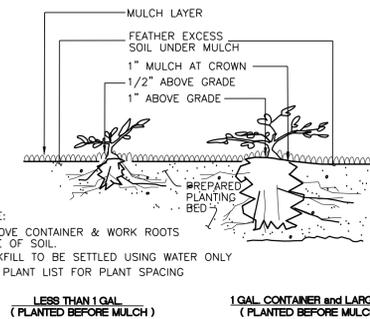
FINISH GRADE
PREPARE PLANTING BED PER SPEC'S; AT MIN., LOOSEN AND MIX SOIL TO 18" OR DEPTH OF ROOTBALL AND 2 TIMES BALL DIAMETER

REMOVE ALL WRAP, TIES, AND CONTAINERS
SCORE ROOTBALL AND WORK NURSERY SOIL AWAY FROM PERIMETER ROOTS

SET BALL ON UNDISTURBED BASE OR COMPACTED MOUND UNDER BALL
PENETRATION TO SUBBASE (+) 24"

DECIDUOUS TREE PLANTING/STAKING DETAIL

NOT TO SCALE

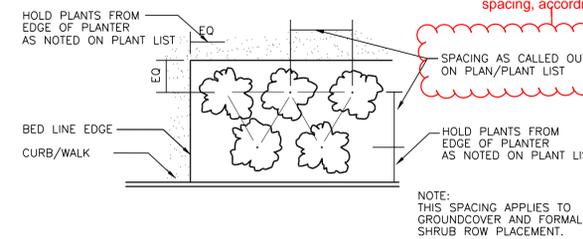


NOTE:
REMOVE CONTAINER & WORK ROOTS FREE OF SOIL.
BACKFILL TO BE SETTLED USING WATER ONLY
SEE PLANT LIST FOR PLANT SPACING

LESS THAN 1 GAL (PLANTED BEFORE MULCH)
1 GAL CONTAINER and LARGER (PLANTED BEFORE MULCH)

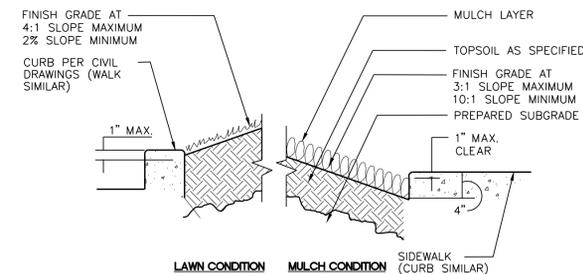
GROUNDCOVER PLANTING DETAIL

NOT TO SCALE



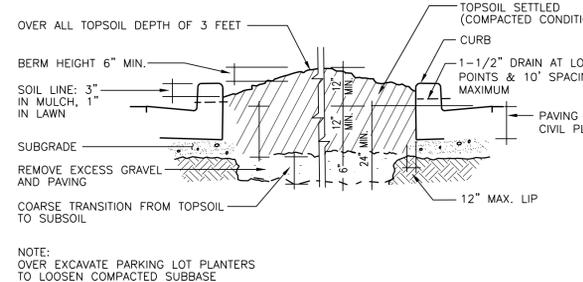
PLANT MATERIAL SPACING DETAIL

NOT TO SCALE



PLANTER SECTION DETAIL

NOT TO SCALE



NOTE:
OVER EXCAVATE PARKING LOT PLANTERS TO LOOSEN COMPACTED SUBBASE

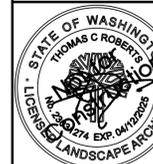
GRADING • PARKING LOT PLANTERS DETAIL

NOT TO SCALE

DEDUCT ALT #1: IF LANDSCAPE CONTRACTOR CAN DEMONSTRATE THAT PLANTER ISLANDS ARE NOT FULL OF NON-SOIL MATERIALS (CONCRETE WASTE, LUMBER, ROAD BASE, GRAVEL), FULL EXCAVATION AND REPLACE WITH 18"-21" OF TOPSOIL CAN BE ELIMINATED AND IN ITS PLACE, 6" OF COMPOST CAN BE PLACED ON SUB-GRADE AND CULTIVATED INTO TOP 12" OF EXISTING SOIL. TOP OF FINISH GRADE AND DEPTH OF MULCH STILL APPLIES

Title: LANDSCAPE NOTES AND DETAILS FOR NORTHSOUND LOGISTICS CENTER 51ST AVE, ARLINGTON, WA 98223

For: ROCKEFELLER ACQUISITIONS, LLC 3161 MICHELSON DRIVE, SUITE 900 IRVINE, CA 92612 (206) 203-8792



Scale: Horizontal N/A Vertical N/A

Designed: TCR Draw: TCR Checked: JMV Approved: TCR Date: 2/10/25

Barghausen Consulting Engineers, LLC. 18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com



Job Number: 23642 Sheet: L4 of 7

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IRRIGATION NOTES AND DETAILS

FOR

NORTHSOUND LOGISTICS CENTER

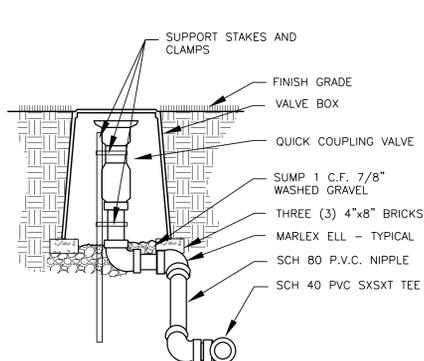
SEC. 28, TWP. 31 N., RGE 5 E., W. M.

CITY OF ARLINGTON, SNOHOMISH COUNTY, WASHINGTON

PLN NO. 1276

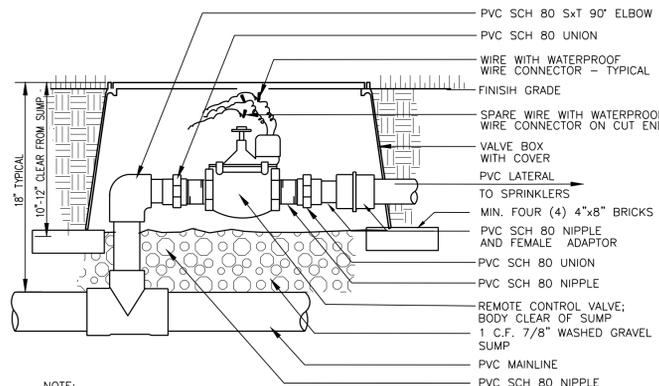
LANDSCAPE IRRIGATION NOTES

- GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR TO COORDINATE:
 - VERIFY EXISTING CONTROLLER AND FEASIBILITY TO HOOK UP ADDITIONAL VALVES THAT WILL BE REQUIRED TO EXPAND THE EXISTING IRRIGATION SYSTEM AND PROVIDE ADEQUATE WATER TO ALL NEW PLANT MATERIAL.
 - VERIFICATION OF STATIC WATER PRESSURE AT POINT-OF-CONNECTION (P.O.C.). CONTRACTOR SHALL NOTIFY OWNER AND BARGHAUSEN CONSULTING ENGINEERS, INC.
 - INSTALLATION OF SLEEVING.
- PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION, AND SERVICES NECESSARY TO FURNISH AND INSTALL A COMPLETE IRRIGATION SYSTEM AS INDICATED ON THE DRAWINGS AND/OR NOTES. PROVIDE A ONE (1) YEAR WARRANTY/GUARANTEE FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS IN MATERIALS, EQUIPMENT, AND WORKMANSHIP.
- COORDINATE IRRIGATION INSTALLATION WITH GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE CONTRACTOR, OWNER, ARCHITECT, AND LANDSCAPE ARCHITECT.
- LANDSCAPE CONTRACTOR TO TEST AVAILABLE WATER PRESSURE PRIOR TO BEGINNING ANY WORK. PROVIDE LANDSCAPE ARCHITECT WITH WRITTEN PSI RESULTS.
- ALL WORK PER LOCAL CODE. INSTALLATION PER MANUFACTURER'S WRITTEN SPECIFICATIONS.
- CONTRACTOR TO OBTAIN AND PAY FOR ALL PERMITS, FEES, AND REQUIRED CITY INSPECTIONS.
- SUBMITTALS:
 - SUBMIT EACH ITEM LISTED BELOW FOR LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL.
 - PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
 - CONTROL WIRING PATH DIAGRAM.
 - "AS-BUILT" DRAWINGS.
 - OPERATION AND MAINTENANCE MANUALS.
- PROVIDE AND KEEP UP TO DATE A COMPLETE "AS-BUILT" RECORD SET OF PRINTS WHICH ARE TO BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS AND NOTES AND EXACT "AS-BUILT" LOCATIONS, SIZES AND KIND OF EQUIPMENT. THIS SET OF DRAWINGS ARE TO BE KEPT ON SITE AND ARE TO BE USED ONLY AS THE RECORD SET. ALL WORK IS TO BE NEAT AND LEGIBLE ANNOTATIONS THEREON DAILY AS THE WORK PROCEEDS, SHOWING WORK AS ACTUALLY INSTALLED. DIMENSION FORM TWO (2) PERMANENT POINTS OF REFERENCE, BUILDING CORNERS, WALKS, OR ROAD INTERSECTIONS, ETC., THE LOCATION OF THE FOLLOWING:
 - CONNECTION TO WATER LINES (P.O.C.).
 - CONNECTIONS TO ELECTRICAL POWER.
 - GATE VALVE, QUICK COUPLERS, AND REMOTE CONTROL VALVE.
 - ROUTING OF MAINLINE (DIMENSION MAXIMUM 100' ALONG ROUTING).
 - ROUTING OF CONTROL WIRING.
 - OTHER RELATED EQUIPMENT AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- PREPARE AND PROVIDE PRIOR TO COMPLETION OF CONSTRUCTION, A THREE RING BINDER CONTAINING THE FOLLOWING INFORMATION:
 - INDEX SHEET STATING CONTRACTOR'S ADDRESS, TELEPHONE NUMBER, FAX, E-MAIL AND A LIST OF EQUIPMENT WITH NAME AND ADDRESS OF LOCAL MANUFACTURER'S REPRESENTATIVES.
 - CATALOG AND PARTS SHEETS ON EVERY MATERIAL AND EQUIPMENT INSTALLED UNDER THIS CONTRACT.
 - GUARANTEE STATEMENT.
 - COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.
 - CONSTRUCTION DETAILS FROM THE PROJECT.
 - COMPLETE TROUBLE-SHOOTING GUIDE TO COMMON IRRIGATION PROBLEMS.
 - WINTERIZATION AND SPRING START-UP PROCEDURES.
 - CHART OF APPROXIMATE WATERING TIMES FOR SPRING, SUMMER, AND FALL.
 - A COPY OF THE "AS-BUILT" DRAWINGS AND CONTROLLER CHART.
- ALL VALVES TO BE PLACED IN "CARSON" GRADE LEVEL BOXES WITH BOLT-LOCK LIDS (OR APPROVED EQUIVALENT). SET BOXES 2 INCHES HIGHER THAN FINISH GRADE IN MULCH AREAS AND FLUSH WITH FINISH GRADE IN LAWN AREAS. JUMBO BOX FOR CHECK VALVE, 10" ROUND BOX FOR GATE/QUICK COUPLER/WIRE SPLICES, AND 12" STANDARD FOR CONTROL VALVES. PROVIDE BOX EXTENSIONS AS REQUIRED.
- MAINLINE PIPE TO BE BURIED 24 INCHES, LATERALS 12 INCHES, AND SLEEVES 24" INCHES BELOW FINISH GRADE. NO ROCK OR DEBRIS TO BE BACKFILLED OVER PIPE.
- HEAD AND LINE POSITIONING IS DIAGRAMMATIC ON PLAN. ADJUST IN FIELD AS NECESSARY FOR 100 PERCENT COVERAGE. VALVES TO BE POSITIONED ADJACENT TO PAVEMENT/CURBS, IN SHRUB BEDS WHERE POSSIBLE.
- FAMILIARIZE OWNERS FACILITY OPERATOR WITH IRRIGATION SYSTEM FUNCTION, CONTROLLER PROGRAMMING, SYSTEM OPERATION AND MAINTENANCE REQUIREMENTS.
- ALL CONTROL WIRE SPLICES TO BE MADE AT VALVE BOXES WITH WATER TIGHT ELECTRICAL SPLICES, 3M, SCOTT'S LOCK SEAL TACK 3576-78, OR EQUIVALENT.
- EACH VALVE BOX TO CONTAIN A MINIMUM OF TWO (2) SPARE ORANGE CONTROL WIRES FOR JACKETED WIRE. ROUTE SPARE WIRES FROM THE CONTROLLER TO THE LAST VALVE OF EACH MAINLINE BRANCH. COMMON WIRE TO BE WHITE. SINGLE STRAND WIRE TO BE A MINIMUM OF 14 GAUGE.
- ALL ELECTRICAL EQUIPMENT TO BE U.L. TESTED AND APPROVED, AND BEAR THE U.L. LABEL.
- CROSS CONNECTION PROTECTION INSTALLED. THE BACKFLOW DEVICE TO BE TESTED UPON THE ORIGINAL INSTALLATION. THE TESTING TO BE PERFORMED BY A PERSON HOLDING A CURRENT CERTIFICATE AS A BACKFLOW TESTER. THE TEST REPORT TO BE SUBMITTED TO THE LOCAL WATER DISTRICT, OR PURVEYOR, AND OWNER WITH A COPY TO BARGHAUSEN CONSULTING ENGINEERS, INC. CONTRACTOR TO INCLUDE TESTING IN THE SCOPE OF WORK. OWNER IS RESPONSIBLE FOR ANNUAL INSPECTIONS AFTER THE INITIAL INSPECTION.
- CONTRACTOR TO PROVIDE SYSTEM WINTERIZATION/SPRING SERVICE WHEN INSTALLATION HAS BEEN COMPLETED WITHIN 90 DAYS OF NOVEMBER 1 FOR WINTERIZATION, OR MAY 15 FOR SPRING SERVICE. SERVICE TO BE PERFORMED AS NEAR AS PRACTICAL TO THE ABOVE DATES, OR AS FREEZE/PRECIPITATION CONDITIONS DETERMINE SERVICE NEEDED.



QUICK COUPLING VALVE DETAIL

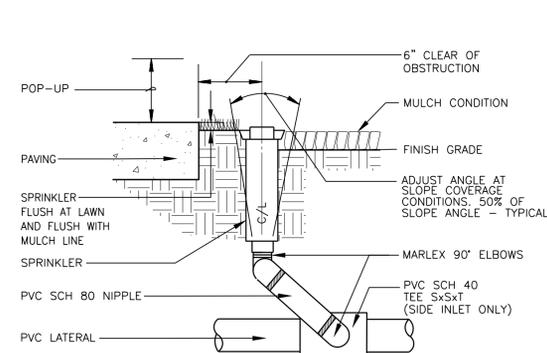
NOT TO SCALE



NOTE:
ONE VALVE PER BOX.
PROVIDE EXTRA COILS (18") OF EACH WIRE IN VALVE BOX.
COMPACT SOIL AROUND VALVE BOX.
USE TEFLON OR FLOWABLE SEALANT IN ALL THREADED FITTINGS, PER MANUFACTURER'S SPECS.

REMOTE CONTROL VALVE ASSEMBLY

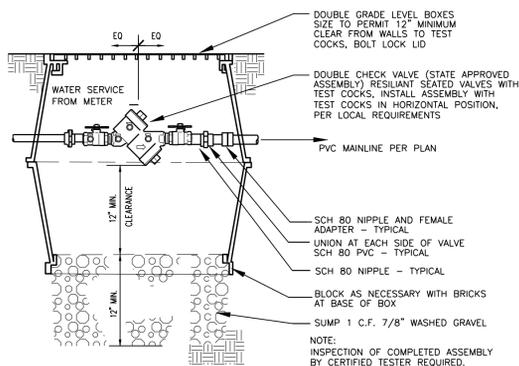
NOT TO SCALE



NOTE:
MANUFACTURER'S LIMITS PREVAIL FOR INSTALLATION AND ADJUSTMENTS.
PROVIDE SWING JOINT RISERS AT WALKS AND CURBS.
24" FLEXIBLE RISERS ACCEPTABLE ELSEWHERE.

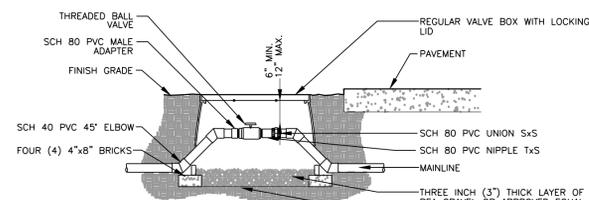
POP-UP RISER ASSEMBLY

NOT TO SCALE



CHECK VALVE ASSEMBLY DETAIL

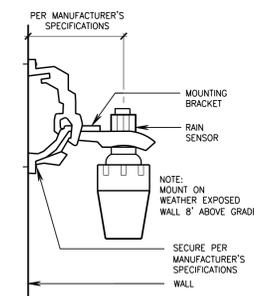
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NOTE:
1. LOCATE VALVE BOXES IN PLANTING AREAS.
2. WRAP VALVE BOX WITH A MINIMUM OF 3 MIL THICK PLASTIC AND SECURE IT USING DUCT TAPE OR ELECTRICAL TAPE.
3. ALL THREADED CONNECTIONS TO BE MADE USING TEFLON TAPE.
4. ALL CHANGES IN ELEVATION SHALL BE MADE USING SCH 40 PVC 45° ELBOWS.

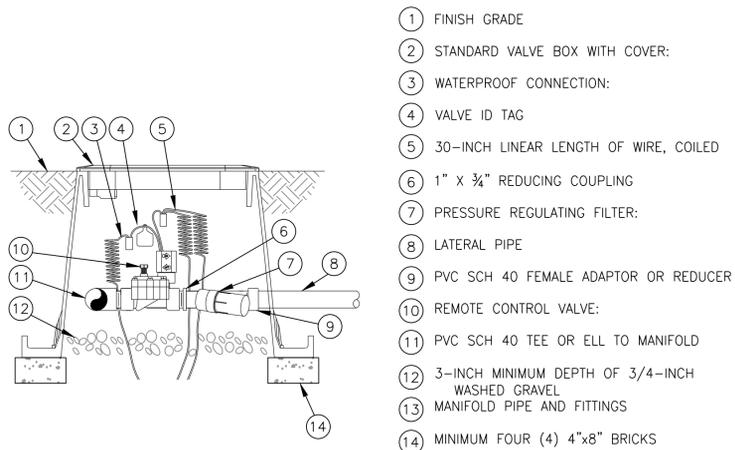
BALL VALVE DETAIL

NOT TO SCALE



RAIN SENSOR DETAIL

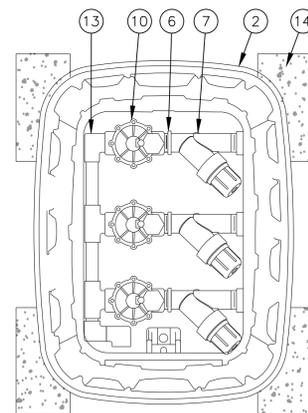
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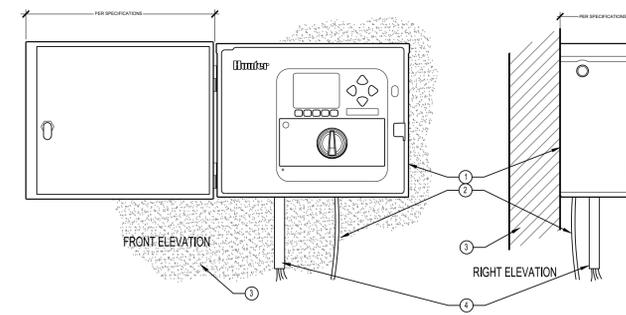
SIDE VIEW

DRIP IRRIGATION VALVE

NOT TO SCALE



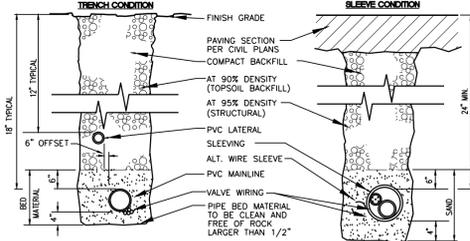
TOP VIEW



IRRIGATION CONTROLLER, INTERIOR WALL MOUNT

NOT TO SCALE

NOTE:
MOUNT CONTROLLER LCD SCREEN AT EYE LEVEL.
CONTROLLER SHALL HAVE PRETAL INSTALLED ELECTRICAL CHORD HARDWIRED TO CONTROLLER.
INSTALL CONTROLLER WITH 3\"/>



NOTE:
DIMENSIONS ARE MIN. CLEARANCES.
ALL IRRIGATION SLEEVING TRENCH BACKFILL MATERIAL SHALL BE CLASS "B" OR BETTER (MAX. OF 10% PASSING NO.40 SCREEN) AND BE COMPACTED TO MIN. 90% OPTIMUM DENSITY PER ASTM D-1557-76 (MODIFIED PROCTOR)

SLEEVE/TRENCHING DETAIL

NOT TO SCALE

IRRIGATION NOTES AND DETAILS
FOR
NORTHSOUND LOGISTICS CENTER
51ST AVE, ARLINGTON, WA 98223

Title:

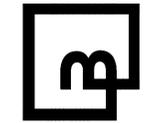
For: ROCKEFELLER ACQUISITIONS, LLC
3161 MICHELSON DRIVE, SUITE 900
IRVINE, CA 92612
(206) 203-8792



Scale: Horizontal N/A, Vertical N/A

Designed: TCR, Draw: TCR, Checked: JMV, Approved: TCR, Date: 2/10/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number: 23642, Sheet: L6 of 7

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IRRIGATION DETAILS

FOR

NORTHSOUND LOGISTICS CENTER

SEC. 28, TWP. 31 N., RGE 5 E., W. M.
CITY OF ARLINGTON, SNOHOMISH COUNTY, WASHINGTON
PLN NO. 1276

Title: IRRIGATION DETAILS FOR NORTHSOUND LOGISTICS CENTER 51ST AVE, ARLINGTON, WA 98223

For: ROCKEFELLER ACQUISITIONS, LLC
3161 MICHELSON DRIVE, SUITE 900
IRVINE, CA 92612
(206) 203-8792

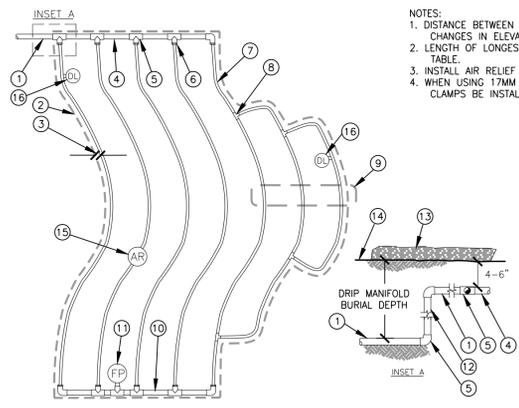


Scale: Horizontal N/A, Vertical N/A
Designed: TCR, Draw: TCR, Checked: JMV, Approved: TCR, Date: 2/10/25

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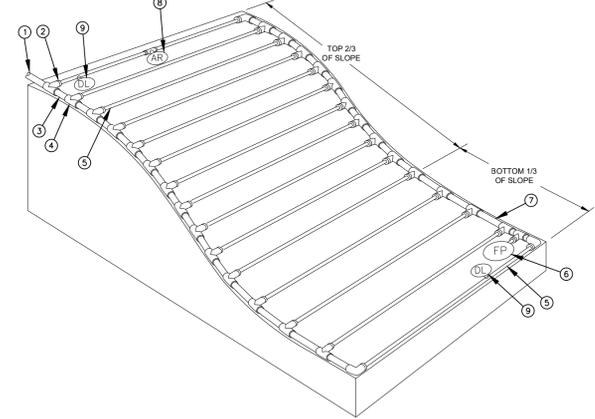


Job Number: 23642
Sheet: L7 of 7



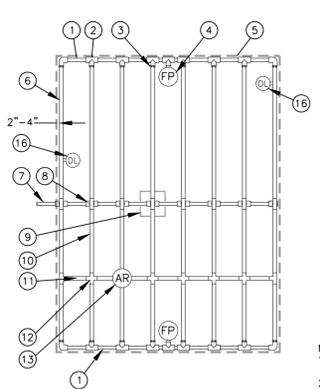
- NOTES:**
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS FOR SPACING.
 - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
 - INSTALL AIR RELIEF VALVE AT HIGH POINTS IN DRIPLINE LATERAL.
 - WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.
- 1 PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
 - 2 PERIMETER OF AREA
 - 3 PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
 - 4 PVC SUPPLY MANIFOLD
 - 5 PVC SCH 40 TEE OR EL (TYPICAL)
 - 6 BARB X MALE FITTING
 - 7 SUB-SURFACE DRIPLINE: SEE IRRIGATION SCHEDULE
 - 8 ARB X BARB INSERT TEE
 - 9 TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
 - 10 PVC FLUSH HEADER
 - 11 FLUSH POINT: SEE DETAIL
 - 12 PVC RISER PIPE
 - 13 TURF OR MULCH
 - 14 FINISH GRADE
 - 15 1/2" AIR RELIEF VALVE: SEE DETAIL
 - 16 DRIPLINE INDICATOR. SEE DETAIL FOR ADD'L INFO

DRIPLINE ODD CURVES LAYOUT
NOT TO SCALE



- NOTES:**
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. DISTANCE BETWEEN LATERAL ROWS FOR BOTTOM 1/3 OF SLOPE TO BE SPACED GREATER THAN OPTIMAL ROW DISTANCE. SEE MANUFACTURER DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACING.
 - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
 - WHEN ELEVATION CHANGE EXCEEDS 8 FEET IT IS RECOMMENDED THAT A NEW DRIPLINE ZONE BE CREATED.
 - INSTALL AIR RELIEF VALVE AT HIGH POINTS IN DRIPLINE LATERAL.
 - WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.
- 1 PVC DRIPLINE MANIFOLD FROM CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
 - 2 BARB X MALE FITTING
 - 3 PVC SUPPLY HEADER
 - 4 PVC SCH 40 TEE OR EL (TYPICAL)
 - 5 SUB-SURFACE DRIPLINE: SEE IRRIGATION SCHEDULE
 - 6 FLUSH POINT: SEE DETAIL
 - 7 PVC FLUSH HEADER
 - 8 1/2" AIR RELIEF VALVE: RSEE DETAIL
 - 9 DRIPLINE INDICATOR. SEE DETAIL FOR ADDITIONAL INFORMATION
 - 10 PVC RISER PIPE
 - 11 TURF OR MULCH
 - 12 FINISH GRADE

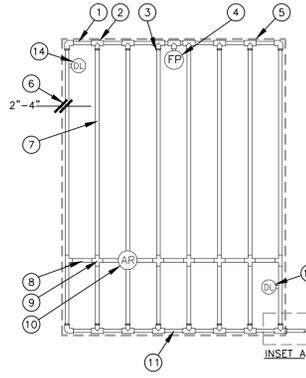
DRIPLINE SLOPED LAYOUT
NOT TO SCALE



- NOTES:**
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE IRRIGATION SCHEDULE FOR SPACING.
 - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
 - AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
 - WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.
- 1 PVC EXHAUST HEADER
 - 2 PVC SCH 40 TEE OR EL (TYPICAL)
 - 3 BARB X MALE FITTING
 - 4 FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL "FLUSH POINT WITH BALL VALVE"
 - 5 PERIMETER OF AREA
 - 6 PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
 - 7 PVC SUPPLY PIPE FROM CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
 - 8 PVC SUPPLY MANIFOLD
 - 9 CONNECTION FROM SUPPLY MANIFOLD TO DRIPLINE (TYPICAL)- SEE INSET A
 - 10 SUB-SURFACE DRIPLINE
 - 11 BLANK TUBING
 - 12 BARB X BARB INSERT TEE OR CROSS
 - 13 1/2" AIR RELIEF VALVE
 - 14 BARB X FEMALE FITTING
 - 15 3/4" PVC NIPPLE, LENGTH AS NECESSARY
 - 16 DRIPLINE INDICATOR. SEE DETAIL FOR ADDITIONAL INFORMATION

Inlet Pressure psi	12' Spacing		18' Spacing		24' Spacing	
	Nominal Flow (gph)					
15	273	155	314	250	424	322
20	318	159	353	294	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	455	780	514

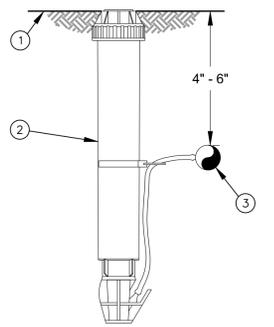
DRIPLINE CENTER FEED LAYOUT
NOT TO SCALE



- NOTES:**
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
 - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
 - AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
 - WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.
- 1 PVC EXHAUST HEADER
 - 2 PVC SCH 40 TEE OR EL (TYPICAL)
 - 3 BARB X MALE FITTING
 - 4 FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL "FLUSH POINT WITH BALL VALVE"
 - 5 PERIMETER OF AREA
 - 6 PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
 - 7 SUB-SURFACE DRIPLINE
 - 8 BLANK TUBING
 - 9 BARB X BARB INSERT TEE OR CROSS
 - 10 1/2" AIR RELIEF VALVE
 - 11 SUPPLY HEADER
 - 12 PVC DRIPLINE MANIFOLD FROM CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
 - 13 PVC SCH 40 RISER PIPE
 - 14 DRIPLINE INDICATOR. SEE DETAIL FOR ADD'L INFO

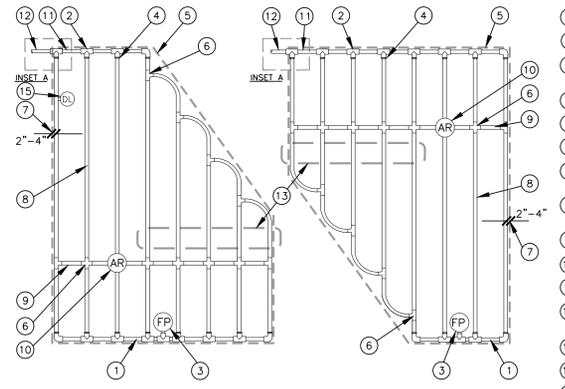
Inlet Pressure psi	12' Spacing		18' Spacing		24' Spacing	
	Nominal Flow (gph)					
15	273	155	314	250	424	322
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40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	455	780	514

DRIPLINE END FEED LAYOUT
NOT TO SCALE



- NOTE:**
- INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
 - VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO 1/4 PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.
- 1 FINISH GRADE/TURF
 - 2 OPERATION INDICATOR
 - 3 SUB-SURFACE DRIPLINE: SEE IRRIGATION SCHEDULE

DRIP IRRIGATION DRIPLINE INDICATOR
NOT TO SCALE



- NOTES:**
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE MANUFACTURER DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
 - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
 - AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
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- 1 PVC EXHAUST HEADER
 - 2 PVC SCH 40 TEE OR EL (TYPICAL)
 - 3 FLUSH POINT (TYPICAL) SEE DETAIL
 - 4 BARB X MALE FITTING
 - 5 PERIMETER OF AREA
 - 6 BARB X BARB INSERT TEE OR CROSS
 - 7 PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
 - 8 SUB-SURFACE DRIPLINE: SEE IRRIGATION SCHEDULE
 - 9 BLANK TUBING
 - 10 1/2" AIR RELIEF VALVE: SEE DETAIL
 - 11 PVC SUPPLY MANIFOLD
 - 12 PVC SUPPLY PIPE FROM CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
 - 13 TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
 - 14 PVC SCH 40 RISER PIPE
 - 15 DRIPLINE INDICATOR. SEE DETAIL FOR ADD'L INFO

DRIPLINE IRREGULAR SHAPED LAYOUT
NOT TO SCALE

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