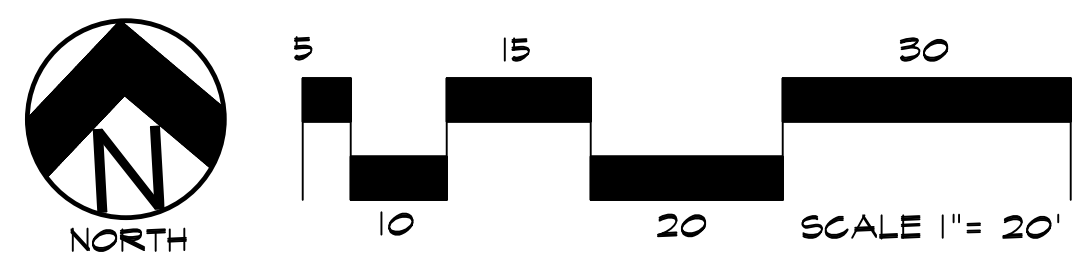


LANDSCAPE PLAN - AREA 'A'



LAYOUT NOTES
 CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL LANDSCAPE SHOWN ON THIS PLAN. ANY DEVIATIONS FROM THIS PLAN ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT. DEVIATIONS FROM THE APPROVED PLAN WILL REQUIRE APPROVAL BY EL PASO COUNTY AND OWNER REPRESENTATIVE.

UTILITIES NOTE
 VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. CALL 811 FOR UTILITY LOCATES. TREE TRUNK PLACEMENT SHALL BE 6" MINIMUM DISTANCE FROM ANY GAS OR ELECTRIC AND 10" FROM GAS MAINS RATED AT 150PSI. FOR SANITARY SEWER AND WATER MAINLINES TREES SHALL NOT BE LOCATED WITHIN EASEMENTS AND WITHIN 15' OF ANY MAINLINE. ANY CONFLICT BETWEEN TREE LOCATION AND UTILITIES SHOWN ON PLANS SHALL BE RESOLVED WITH GENERAL CONTRACTOR PRIOR TO PLANTING. ALL ELECTRICAL VAULTS AND TRANSFORMERS SHALL BE KEPT CLEAR FROM PLANT MATERIAL PER COLORADO SPRINGS UTILITIES GUIDELINES "LANDSCAPING AROUND ELECTRICAL EQUIPMENT". SEE COLORADO SPRINGS UTILITIES CONSTRUCTION STANDARD DRAWINGS 18-302 FOR SPECIFIC CLEARANCE REQUIREMENTS. ALL SHRUBS TO BE LOCATED 9' CLEAR OF ALL FIRE HYDRANTS AT MATURE SIZE.

IRRIGATION SYSTEM NOTE
 NOTE: PER EL PASO COUNTY LANDSCAPE CODE NO IRRIGATION SYSTEM REQUIRED. IRRIGATION SYSTEM FOR PLANTINGS WILL BE INSTALLED. REFER TO PLAN BY HGD, INC.

DOCUMENT NOTE
 IRRESPECTIVE OF ANY OTHER TERM IN THIS DOCUMENT, LANDSCAPE ARCHITECT SHALL NOT CONTROL, OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SCHEDULES, SEQUENCES OR PROCEDURES, OR FOR CONSTRUCTION SAFETY OR ANY OTHER RELATED PROGRAMS, OR FOR ANY OTHER PARTIES' ERRORS OR OMISSIONS OR FOR ANOTHER PARTIES' FAILURE TO COMPLETE THEIR WORK OR SERVICES IN ACCORDANCE WITH LANDSCAPE ARCHITECT'S DOCUMENTS.

PPR 2248

NOT FOR CONSTRUCTION

JOB NUMBER	1088-22
REVISIONS	
11-23-22	PER COMMENTS
2-21-23	PER COMMENTS
4-4-23	PER COMMENTS
4-10-23	PER COMMENTS
ORIGINAL DATE	J. MACKAY
DRAWN BY	8-15-22
DESCRIPTION	FINAL LANDSCAPE PLAN - AREA A
SHEET NO.	L1.1

HIGHER GROUND DESIGNS, INC.
 LANDSCAPE ARCHITECTURE, PLANNING & IRRIGATION DESIGN
 5350 NORTH ACADEMY BLVD., STE. 207
 COLORADO SPRINGS, CO 80918
 Phone 719-477-1648
 Fax 719-268-1122
 jimackay@highergrounddesigns.com



STRUTHERS RANCH POLARIS
 847 STRUTHERS RANCH ROAD
 LOTS 1-2, STRUTHERS RANCH SUB. FIL. NO. 4
 EL PASO COUNTY

PREPARED FOR:
 HAMMERS CONSTRUCTION

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For Approval Only

CATHEDRAL ROCK CHURCH
 590 HWY 105 STE 190
 PARCEL NO: 71363-01-013
 ZONE: PUD
 USE: RELIGIOUS WORSHIP

KEVIN P DICKSON
 14688 ALLEGIANCE DR
 PARCEL NO: 71363-03-001
 ZONE: PUD
 USE: SINGLE FAMILY RES.

GEORGE E RUSSELL
 14678 ALLEGIANCE DR
 PARCEL NO: 71363-03-002
 ZONE: PUD
 USE: SINGLE FAMILY RES.

MARCUS GRAZES
 14668 ALLEGIANCE DR
 PARCEL NO: 71363-03-003
 ZONE: PUD
 USE: SINGLE FAMILY RES.

FOUND ORANGE PLASTIC CAP
 RAMPART PLS 26965
 FLUSH WITH GROUND

SEWER INLET 1

38'
00"
26"
TW 61.8
BW 61.3
END RET. WALL
5' W WALK

RANCH HOMEOWNERS
 14 ACADEMY BLVD
 PUD
 71363-03-001
 FAMILY RES.

LOT 1
 76,122 SF
 FF=6765.0
 PROPOSED
 BUILDING
 12,000 SF
 FF=6765.0
 (2) 20 X 8 ROLL OFF
 DUMPSTER'S

36' FC-FC
 TW 63.3
 BW 52.8

TW 66.0
 BW 65.2
 END RET-WALL

PV-1
 LB
 S 36°43'
 L=35.37'

S 36°43'
 L=35.37'

MATCH LINE - REFER TO AREA 'B'

CODE REQUIREMENTS

LANDSCAPE SETBACKS (LS)					
STREET NAME OR ZONE BOUNDARY (ELEV.)	STREET CLASSIFICATION	WIDTH (FT.) REQ./PROV.	LINEAR FOOTAGE	TREE FEET REQUIRED	NO. OF TREES REQ./PROVISED
STRUTHERS ROAD STRUTHERS RANCH ROAD	ARTERIAL ARTERIAL	10/10 FT 10/10 FT	445 345	1/30 FT 1/30 FT	15/15 UPRIGHT EVERGREEN TREES 12/12 (9 UPRIGHT EVERGREEN TREES)

MOTOR VEHICLE LOTS (MV)				
NO. OF VEHICLE SPACES PROVIDED	SHADE TREES (1/15 SPACES) REQ./PROV.	VEHICLE LOT FRONTAGE(S)	FRONTAGE (FT)	2/3 LENGTH OF FRONTAGE (FT)
29	2/2	INDUSTRY	143 LF	95 LF

INTERNAL LANDSCAPING (IL)				
INTERNAL LANDSCAPE AREA INCLUDES ALL LANDSCAPE AREAS NOT INCLUDING SETBACKS, BUFFERS OR MOTOR VEHICLE ISLANDS.				
NET SITE AREA (SF) (LESS PUBLIC ROW)	PERCENT MINIMUM INTERNAL AREA (5%)	INTERNAL AREA (SF) REQ./PROV.	INTERNAL TREES (1/500 SF) (EXCLUDING DRIVEWAYS)	PERCENT MINIMUM INTERNAL AREA (5%)
128,266 SF	NON-RESIDENTIAL	6,404 SF/16,500 SF	13/8	

LANDSCAPE BUFFERS AND SCREENS (LB)				
STREET NAME OR PROPERTY LINE (ELEV.)	LINEAR FOOTAGE: ---	SETBACK BUFFER REQ. / PROV./FENCE	BUFFER TREES (1/20) REQ./PROV. - NA	EVERGREEN TREES (1/3) REQ./PROV. - NA
EAST	334	15/15'	17/17	6/12

PLANT SCHEDULE

Symbol	Abbr.	Quantity	Botanical Name	Common Name	Mature Size w x h	B & B Planting Size
DECIDUOUS TREES:						
	GTSM	2	Gleditsia triacanthos 'Shademaster'	Shademaster Honeylocust	30'x25'	1-1/2" cal.
	CH	6	Crataegus crus-galli inermis 'Hawthorn'	Cockspur Hawthorn	15'X 15'	1-1/2" cal.
	PV	7	Prunus virginiana 'Sucker Punch'	Sucker Punch Canada Red Cherry	15'X 15'	1-1/2" cal.
EVERGREEN TREES:						
	PE	15	Pinus edulis	Pinyon Pine	15'x15'	6' ht.
	JC	24	Juniperus x chinensis 'Spartan'	Spartan Juniper	3-4' x 12-15'	5 gal.
EVERGREEN SHRUBS:						
	JA	10	Juniperus chinensis 'Armstrong'	Armstrong Juniper	3-4' x 3-4'	5 gal.
	JL	4	Juniperus sabinna	Buffalo Juniper	6-8' x 12-18'	5 gal.
	JR	27	Juniperus horizontalis 'Wiltonii'	Blue Rug Juniper	6-8' x 6-8'	5 gal.
DECIDUOUS SHRUBS:						
	PF	25	Potentilla fruticosa 'Gold Finger'	Gold Finger Potentilla	4-5' x 3-4'	5 gal.
	VTS	5	Viburnum trilobum 'Spring Green'	Spring Green Compact Viburnum	3-5' x 2-3'	5 gal.
ORNAMENTAL GRASSES:						
	CA	6	Calamagrostis acutiflora 'Karl Foerster'	Feather Reed Grass	1-3' x 2-3'	#1 CONT.

NOTE: QUANTITIES SHOWN IN LEGEND ARE FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL MATERIALS PER PLAN.

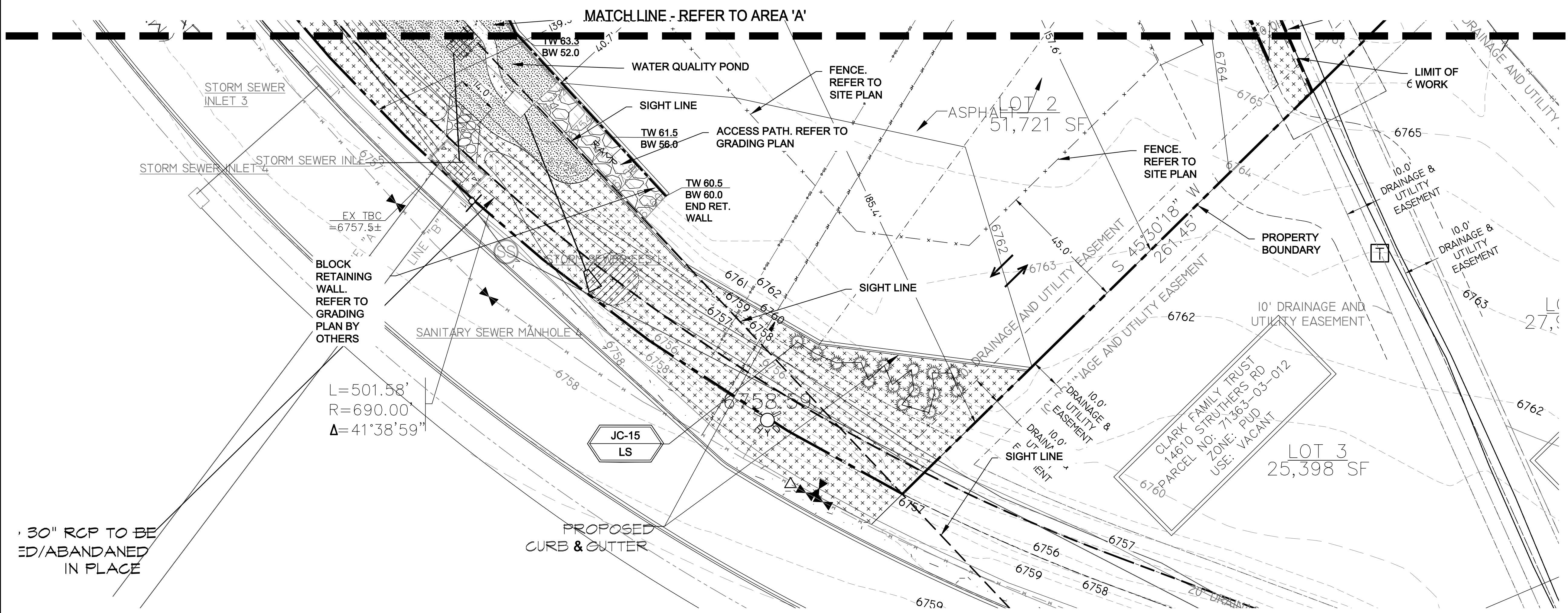
GROUND COVER LEGEND

SYMBOL	DESCRIPTION	APPROX. SF
	Denver Granite Rock: 3/4" Diameter (with weed barrier) OR approved equal	8,630 SF
	Arkansas Tan Rock: 1.5" Diameter (with weed barrier) OR approved equal	2,235 SF
	Non-Irrigated Native Seed Grass: Refer to Mix 'A'	3,755 SF
	Non-Irrigated Native Seed Grass: Refer to Mix 'B'	20,105 SF
	Protect Existing Landscape. Re-seed as required	
	Steel Edger. See notes	507 LF
	4-8" Dia. Cobble Edge between rock types	135 LF
	Remove Existing Tree	

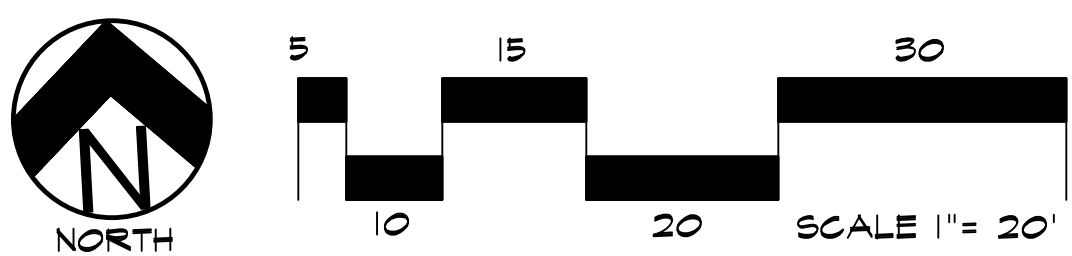
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GRADE NOTE

GRADE SHALL BE ESTABLISHED BASED ON GRADING PLAN BY OTHERS, AND FOR LANDSCAPE MATERIALS PER PLAN. FINAL SOIL GRADE FOR 5-12" DIAMETER ROCK AREAS SHALL BE 4" BELOW TOP OF SIDEWALK/CURB/PAVING. AT ALL OTHER ROCK AREAS GRADE SHALL BE 3" BELOW SIDEWALK/CURB. AT SOD/SEED AREAS GRADE SHALL BE 1" BELOW TOP OF SIDEWALK/CURB.



LANDSCAPE PLAN - AREA 'B'



LAYOUT NOTES

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IRRIGATION SYSTEM NOTE

NOTE: PER LANDSCAPE CODE NO IRRIGATION SYSTEM REQUIRED FOR NATIVE GRASS SEED AREAS IF PLANTED IN LATE FALL OR EARLY SPRING. INSTALL DRIP IRRIGATION SYSTEM FOR PROPOSED TREES AND SHRUBS.

UTILITIES NOTE

VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. CALL 811 FOR UTILITY LOCATES. TREE TRUNK PLACEMENT SHALL BE 6" MINIMUM DISTANCE FROM ANY GAS OR ELECTRIC AND 10' FROM GAS MAINS RATED AT 150PSI. FOR SANITARY SEWER AND WATER MAINLINES TREES SHALL NOT BE LOCATED WITHIN EASEMENTS AND WITHIN 15' OF ANY MAINLINE. ANY CONFLICT BETWEEN TREE LOCATION AND UTILITIES SHOWN ON PLANS SHALL BE RESOLVED WITH GENERAL CONTRACTOR PRIOR TO PLANTING. ALL ELECTRICAL VAULTS AND TRANSFORMERS SHALL BE KEPT CLEAR FROM PLANT MATERIAL PER COLORADO SPRINGS UTILITIES GUIDELINES "LANDSCAPING AROUND ELECTRICAL EQUIPMENT". SEE COLORADO SPRINGS UTILITIES CONSTRUCTION STANDARD DRAWINGS 18-302 FOR SPECIFIC CLEARANCE REQUIREMENTS. ALL SHRUBS TO BE LOCATED 3' CLEAR OF ALL FIRE HYDRANTS AT MATURE SIZE.

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PPR 2248

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 LANDSCAPE ARCHITECTURE, PLANNING & IRRIGATION DESIGN
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PREPARED FOR:
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For Approval Only

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ORIGINAL DATE: J. MACKAY	
DRAWN BY: 8-15-22	
DESCRIPTION	
FINAL LANDSCAPE PLAN - AREA B	
SHEET NO. L1.2	

LAYOUT NOTE

CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL LANDSCAPE SHOWN ON THIS PLAN. ANY DEVIATIONS FROM THIS PLAN ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT. DEVIATIONS FROM THE APPROVED PLAN MAY REQUIRE APPROVAL BY COLORADO SPRINGS PLANNING AND OWNER REPRESENTATIVE.

INSTALLATION NOTES

REMOVE EXISTING TREES, DEBRIS AND WEEDS FROM SITE PRIOR TO CONSTRUCTION (AS SHOWN PER PLAN).

LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SITE DURING CONSTRUCTION. WEEDS AND TRASH SHALL BE REMOVED DAILY AS REQUIRED.

EXISTING TOPSOIL TO BE STOCKPILED ON-SITE AND USED DURING CONSTRUCTION TO ESTABLISH GRADES WITHIN LANDSCAPE AREAS AS SHOWN PER PLAN.

CONTRACTOR SHALL REFER TO ASSOCIATED LANDSCAPE CONTRACTORS OF COLORADO HANDBOOK (ALCC), 2007 REVISED EDITION FOR ALL CONSTRUCTION FOR THIS SITE. CONTACT OWNER/LANDSCAPE ARCHITECT FOR QUESTIONS.

QUANTITIES SHOWN IN PLANT SCHEDULE ARE FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PLANT MATERIAL PER PLAN.

LANDSCAPE ARCHITECT SHALL HAVE OPPORTUNITY TO INSPECT AND APPROVE ALL TREES AND ALL 1-15 GALLON MATERIAL AT JOB SITE PRIOR TO PLANTING, INCLUDING PLACEMENT INSPECTION.

STEEL EDGING TO BE GREEN PRO-STEEL (1/8" x 4" x 10') WITH STAKES OR APPROVED EQUAL. EDGING TO BE EXPOSED 1/2" MAXIMUM ABOVE FINISHED GRADES. INSTALL PER MANUFACTURE RECOMMENDATIONS. SEE PLAN FOR EDGING LOCATIONS.

ALL ROCK COVER AREAS ONLY TO BE PREPARED WITH 3 OZ PROFESSIONAL GRADE POLYSPUN WEED BARRIER WITH STAPLES AT 5" O.C. FABRIC SEAMS TO BE OVERLAPPED 6" MIN. AND SECURED WITH STAPLES.

GROUND COVER SHALL BE CONTINUOUS UNDER ALL SHRUBS THROUGHOUT PROJECT SITE. REFER TO PLANTING DETAILS.

TREES AND SHRUBS TO RECEIVE ORGANIC MULCH PER DETAILS, INCLUDING ROCK AREAS-SEE DETAILS, UNLESS OTHERWISE SPECIFIED. ORGANIC MULCH TO BE 'CASCADE CEDAR' WITH NO LANDSCAPE FABRIC 4" DEPTH.

DO NOT PLANT SHRUBS OR TREES OF INCOMPATIBLE WATER REQUIREMENTS IMMEDIATELY ADJACENT (MINIMUM 5') TO ONE ANOTHER.

PLANT BACKFILL SHALL BE 70% NATIVE ON-SITE SOIL, AND 30% BREW-GRO BIOCOMP CLASS 1 (OR CITY APPROVED EQUAL).

A REPRESENTATIVE SAMPLE OF THE BOTANICAL NAME TAGS, FURNISHED BY THE NURSERY STOCK PROVIDER SHALL REMAIN ATTACHED TO THE PLANTS UNTIL FINAL INSPECTION.

LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF STORM DRAINAGE FROM ADJACENT LANDSCAPE AREAS OR BUILDING DOWNSPOUTS WILL ADVERSELY AFFECT LANDSCAPED AREAS PER THE PLAN.

PRIOR TO INSTALLING PLANTS OR GROUND COVER BROADCAST (PLANT SAFE) PREEN WEED PRE-EMERGENT, OR APPROVED EQUAL, IN ALL PLANTING AREAS PER MANUFACTURE RECOMMENDATIONS. www.preen.com

PLANTING AREA SOIL PREP NOTES

SOIL PREPARATION FOR UNDISTURBED OR COMPACTED AREAS:

A. RIP EXISTING SOIL TO A DEPTH OF NINE (9) INCHES MINIMUM IN ONE DIRECTION USING AN AGRICULTURAL RIPPER WITH TINES SPACED NO FURTHER THAN EIGHTEEN (18) INCHES APART OR TILL TO 6" DEPTH. AREAS ADJACENT TO WALKS, STRUCTURES, CURBS, ETC., WHERE THE USE OF LARGE MECHANICAL EQUIPMENT IS DIFFICULT SHALL BE WORKED WITH SMALLER EQUIPMENT OR BY HAND.

B. REMOVE ALL RUBBLE, STONES AND EXTRANEOUS MATERIAL OVER TWO (2) INCHES IN DIAMETER FROM THE SITE.

C. FOR TREE LOCATIONS REMOVE AND REPLACE EXISTING SOIL TO 36" DEPTH. IF CLAY OR SAND REPLACE WITH GRADE B TOPSOIL.

FIRE SIGNAGE NOTE

ANY VEGETATION THAT MAY GROW TO OR IMMEDIATELY OBSTRUCT ANY FIRE LANE SIGNAGE WILL BE PLANTED IN SUCH A WAY TO PREVENT ANY FUTURE OBSTRUCTION OF SUCH SIGNAGE.

GRADING AND DRAINAGE NOTE

EXISTING GRADING AND DRAINAGE SHOULD BE MAINTAINED AND IS BY OTHERS. ALL GRADES SHOULD SLOPE MINIMUM AWAY FROM ALL BUILDING FOUNDATION. PRIOR TO, OR DURING CONSTRUCTION IF DRAINAGE PROBLEMS ARE IDENTIFIED CONTACT LANDSCAPE ARCHITECT AND CEASE WORK UNTIL A SOLUTION IS AGREED TO BY ALL PARTIES. HGD, INC. PREPARED THIS LANDSCAPE PLAN BASED ON EXISTING FIELD CONDITIONS AND IS NOT RESPONSIBLE FOR ANY DAMAGE TO BUILDING AND/OR SITE DUE TO IMPROPER GRADING AND/OR DRAINAGE.

LONG-TERM MAINTENANCE NOTE

ON-GOING MAINTENANCE DURING CONSTRUCTION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ON-GOING MAINTENANCE OF ALL COMPLETED LANDSCAPE AND IRRIGATION WORK AS DEFINED UNDER CONTRACT WITH OWNER.

BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND CONTINUE UNTIL LANDSCAPE WORK IS COMPLETED, ACCEPTED BY OWNER, AND IF REQUESTED A FORMAL MAINTENANCE PERIOD IS INITIATED. MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING. REGARDING REPLANTING AS REQUIRED THROUGH CONSTRUCTION PERIOD. REMULCH WITH NEW MULCH IN AREAS WHERE MULCH HAS BEEN DISTURBED BY CONSTRUCTION OPERATIONS SUFFICIENTLY TO NULLIFY ITS PURPOSE. CONTRACTOR SHALL REPAIR SEEDED AREAS DAMAGED BY TRAFFIC AND/OR VANDALISM DURING THE CONSTRUCTION PERIOD.

IF THE IRRIGATION SYSTEM IS NOT AVAILABLE FOR PROPER WATERING AT THE TIME OF INSTALLATION, PROVIDE AND MAINTAIN TEMPORARY PIPING, HOSES, AND LAWN WATERING EQUIPMENT AS REQUIRED TO CONVEY WATER FROM SOURCES AND TO KEEP THE LAWN AREAS UNIFORMLY MOIST AS REQUIRED FOR PROPER GROWTH. FAILURE OF THE IRRIGATION SYSTEM SHALL NOT RELIEVE THE INSTALLER OF THE RESPONSIBILITY TO PROVIDE THE REQUIRED WATER. COORDINATE WITH OWNER.

ONE-YEAR WARRANTY

AS AGREED WITH OWNER CONTRACTOR SHALL PROVIDE ONE-YEAR WARRANTY ON ALL PLANT MATERIAL, GRASSES AND IRRIGATION SYSTEM. REPLACEMENT OF DEAD, DISEASED OR SUBSTANTIALLY DAMAGED PLANT MATERIALS SHALL BE OF THE SAME OR SIMILAR TYPE AS SET FORTH IN THE LANDSCAPE PLAN. REPLACEMENT SHALL BE MADE IN A TIME PERIOD NOT EXCEEDING 15 DAYS. PLANT MATERIAL NEEDING REPLACEMENT DURING WINTER MONTHS SHALL BE REPLACED AT THE START OF THE NEXT GROWING SEASON.

THE OWNER OF THIS PROPERTY AND ANY FUTURE OWNERS SHALL BE RESPONSIBLE FOR THE PROPER LANDSCAPE AND IRRIGATION SYSTEM MAINTENANCE OF THIS SITE AND ANY RIGHT-OF-WAY AREAS BETWEEN THE CURB AND PROPERTY BOUNDARIES OF THIS SITE. MAINTENANCE OF THIS INCLUDES, BUT IS NOT LIMITED TO, IRRIGATION INSPECTIONS AND ADJUSTMENTS, IRRIGATION SYSTEM SHUT DOWN AND START UP, IRRIGATION LEAK REPAIR, LANDSCAPE WEEDING, MOWING, SEEDING, FERTILIZING, WOOD MULCH AND ROCK ADDITIONS, PRUNING AND PLANT MATERIAL REPLACEMENTS. ALL MAINTENANCE SHALL BE DONE IN ACCORDANCE WITH THE ALCC SPECIFICATIONS HANDBOOK REV EDITION 2007. OWNER SHOULD CONTACT LANDSCAPE CONTRACTOR OR LANDSCAPE ARCHITECT REGARDING ANY QUESTIONS RELATING TO THE LANDSCAPE OR IRRIGATION SYSTEM.

GRASS SEEDING NOTES

SEED MIX 'A': NATIVE SEED TO BE EL PASO COUNTY CONSERVATION DISTRICT ALL-PURPOSE SEED MIX. SOIL PREPARATION AND SEEDING METHODS SHALL FOLLOW ALL GUIDELINES PER CITY OF COLORADO SPRINGS STORMWATER ENTERPRISE CONSTRUCTION MANUAL, SECTION 5, DATED DECEMBER 2020. REFER TO TABLE 5-1 FOR SEED MIX SOIL SHALL BE AMENDED BREW-GRO BIOCOMP CLASS 1 (OR CITY APPROVED EQUAL) AT 2 C.Y./1000 SF FILLED INTO TOP 4-6" OF SOIL PRIOR TO SEEDING.

SEED MIX 'B': NATIVE SEED TO BE EL PASO COUNTY CONSERVATION DISTRICT LOW GROW SEED MIX. SOIL PREPARATION AND SEEDING METHODS SHALL FOLLOW ALL GUIDELINES PER CITY OF COLORADO SPRINGS STORMWATER ENTERPRISE CONSTRUCTION MANUAL, SECTION 5, DATED DECEMBER 2020. REFER TO TABLE 5-1 FOR SEED MIX SOIL SHALL BE AMENDED BREW-GRO BIOCOMP CLASS 1 (OR CITY APPROVED EQUAL) AT 2 C.Y./1000 SF FILLED INTO TOP 4-6" OF SOIL PRIOR TO SEEDING.

DEPENDENT ON WEATHER, SEED SHALL BE INSTALLED WITHIN THE FOLLOWING TIME FRAMES: SEPTEMBER 1 UNTIL CONSISTENT GROUND FREEZE FOR SPRING ESTABLISHMENT (DORMANT SEEDING); SPRING THAW UNTIL JUNE 1 FOR SPRING AND SUMMER ESTABLISHMENT (ACTIVE SEEDING).

FOR HYDRO-SEEDING ALL SEEDED AREAS SHALL RECEIVE NOT LESS THAN 1 TON PER ACRE (2000 LBS) OF VIRGIN WOOD CELLULOSE HYDRO-MULCH AND 100 LBS PER ACRE OF ORGANIC TOPDRESSER.

SEEDED LANDSCAPE AREAS SHALL HAVE NO BARE AREAS LARGER THAN SIX (6) SQUARE INCHES 15 DAYS AFTER GERMINATION.

DRILL SEEDING: SEEDING EQUIPMENT USED FOR APPLYING SEED MIXTURES SHALL BE DESIGNED, MODIFIED OR EQUIPPED TO REGULATE THE APPLICATION RATE AND PLANTING DEPTH OF THE SEED MIXTURE. SEED SHALL BE UNIFORMLY DISTRIBUTED IN THE DRILL HOPPER DURING THE DRILLING OPERATION. A RANGELAND DRILL CAPABLE OF MIXING DIFFERENT SIZES AND WEIGHTS OF SEEDS SHALL BE USED. THE DRILL SHALL BE EQUIPPED WITH DOUBLE DISK FURROW OPENERS, DEPTH BANDS, PRESS WHEELS OR DRAG CHAINS.

THE SEED SHALL BE DRILLED APPROXIMATELY 3/4" INCH BELOW THE SOIL SURFACE. HALF OF THE TOTAL RATE OF SEED APPLICATION SHALL BE DRILLED IN 1 DIRECTION, WITH THE REMAINDER OF THE SEED RATE DRILLED AT 90 DEGREES FROM THE FIRST DIRECTION. DO NOT DRILL OR SOIL SEED DURING HIGH WINDS OR WHEN THE GROUND IS FROZEN OR OTHERWISE UNABLE TO BE WORKED.

ALL SEEDED AREAS LESS THAN 3:1 SHALL RECEIVE NO LESS THAN 2 TONS PER ACRE (400 LBS) OF CERTIFIED WEED FREE STRAW MULCH. STRAW MULCH SHALL BE APPLIED IN A UNIFORM MANNER BY MULCH SPREADER OR BY HAND. STRAW MULCH SHALL BE CRIMPED OR ANCHORED INTO THE SEEDED IMMEDIATELY FOLLOWING SPREADING BY USING A MULCH TILLER (CRIMPER). MULCH TILLERS SHALL HAVE ROUND, NOTCHED BLADES SPACED 8-INCHES APART (MIN.) AND SHALL HAVE SUFFICIENT WEIGHT TO FORCE THE VEGETATIVE MULCH A MINIMUM DEPTH OF 3-INCHES INTO THE SOIL. ALL MULCH TILLING SHALL BE DONE PERPENDICULAR TO THE FLOW-LINE OF THE SLOPE (ALONG CONTOURS). HAND CRIMPING SHALL BE PERFORMED ON AREAS WHERE MECHANICAL METHODS CANNOT BE USED.

MULCH SHALL BE APPLIED TO SEEDED AREAS (INCLUDING DAMP GROUND) WITHIN 24 HOURS FOLLOWING THE COMPLETION OF SEEDING OPERATIONS FOR THE AREA. MULCHING SHALL NOT BE PERFORMED DURING ADVERSE WEATHER CONDITIONS OR WHEN WIND PREVENTS UNIFORM DISTRIBUTION. APPLICATION SHALL BE IN A MANNER TO NOT SERIOUSLY DISTURB THE SEEDED SURFACE.

ON-GOING MAINTENANCE RECOMMENDATIONS FOR NATIVE GRASS

WELL ESTABLISHED SEEDED LAWN SHALL BE A HEALTHY, WELL-ROOTED, EVEN-COLORED, AND FREE OF WEEDS, BARE AREAS, AND SURFACE IRREGULARITIES.

THE MATURE HEIGHT OF NATIVE GRASS IS EXPECTED TO BE MAINTAINED AT ABOUT 6" HIGH AND MOWED TO 3" ONCE ANNUALLY IN THE LATE WINTER OR EARLY SPRING, AND IRRIGATED ON REDUCED WATER SCHEDULE.

THE SUCCESS OF PERMANENT NATIVE GRASS SEEDING CAN RARELY BE EVALUATED ACCURATELY PRIOR TO THE END OF ITS SECOND FULL GROWING SEASON. SEEDING SUCCESS DEPENDS UPON CONTROL OF WEED COMPETITION DURING THE FIRST TWO GROWING SEASONS. IN ADDITION, THE SITE SHOULD BE MONITORED ANNUALLY FOR UNDESIRABLE PLANT SPECIES.

THE SITE SHOULD BE MONITORED FOR UNDESIRABLE PLANT SPECIES. IF WEED CONTROL NEEDS TO BE PERFORMED DURING THE FIRST YEAR OF PLANT GROWTH, UTILIZE ONE OF TWO METHODS. REGARDLESS OF WHICH METHOD OF WEED CONTROL IS USED, COMPLETE BEFORE FLOWERING OF WEED SEED HEADS. SINCE WEED SPECIES MAY DEVELOP MATURE SEED HEADS AT DIFFERENT TIME OF THE GROWING SEASON, WEED CONTROL EFFORTS WILL BE REQUIRED.

- HAND PULL NOXIOUS WEEDS, REMOVING AS MUCH OF THE ROOT SYSTEM AS POSSIBLE.
- USE WEED EATERS TO SELECTIVELY CUT OFF THE SEED HEADS OF NOXIOUS WEEDS. USE SELECTIVE BROADLEAF HERBICIDE SUCH AS 2-4-D WITH A BACKPACK SPRAYER OR WICK APPLICATOR. BE CAREFUL NOT TO APPLY HERBICIDE ON MORE THAN ONE SQUARE FOOT IN ANY GIVEN AREA. CONTRACTOR TO NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE OF ANY SUSPECTED SOIL PROBLEMS AT THE END OF THE FIRST GROWING SEASON. BROADBAND APPLICATIONS OF HERBICIDE CAN BE COMPLETED AFTER NATIVE GRASS SPECIES REACH MATURE HEIGHT.

SLOPE STABILIZATION

LANDSCAPE CONTRACTOR TO PROVIDE EROSION CONTROL BLANKETS ON SEEDED SLOPES 3:1 AND STEEPER. BLANKETS TO BE SECURED TO SLOPE PER MANUFACTURE RECOMMENDATIONS FIELD VERIFY SLOPES. EROSION CONTROL BLANKET SHALL CONSIST OF 100% BIODEGRADABLE AGRICULTURAL STRAW BLANKET WITH PHOTODEGRADABLE NETTING ON BOTH SIDES.

ALTERNATE: FOR AREAS 3:1 OR GREATER USE FLEXTERA AS ALTERNATIVE TO STRAW BLANKET. INSTALL PER MANUFACTURE RECOMMENDATIONS. FLEXTERA IS APPROVED BY THE CITY OF COLORADO SPRINGS.

GRASS SEED MIX 'B'

Chapter 5
Native Vegetation Requirements and Guidelines

Table 5-2. El Paso County All-Purpose Low Grow Mix for Upland and Transition Areas

Common Name	Scientific Name	Growth Season / Form	% of Mix	Pounds PLS		
				Irrigated broadcast Irrigated hydroseeded	Non-irrigated broadcast Non-irrigated hydroseeded Irrigated drilled	Non-irrigated drilled
Buffalograss	<i>Buchloe dactyloides</i>	Warm, sod	25	9.6	4.8	2.4
Gramma, blue	<i>Bouteloua gracilis</i>	Warm, bunch	20	10.8	5.4	2.7
Gramma, sideoats	<i>Bouteloua curtipendula</i>	Warm, bunch	29	5.6	2.8	1.4
Green needlegrass	<i>Nassella viridula</i>	Cool, bunch	5	3.2	1.6	0.8
Wheatgrass, western	<i>Pascopyrum smithii</i>	Cool, sod	20	12	6	3
Dropseed, sand	<i>Sporobolus cryptandrus</i>	Warm, bunch	1	0.8	0.4	0.2
Seed rate (lbs PLS/acre)				42	21	10.3

UTILITIES NOTE

VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. CALL 811 FOR UTILITY LOCATES. TREE TRUNK PLACEMENT SHALL BE 6" MINIMUM DISTANCE FROM ANY GAS OR ELECTRIC AND 10' FROM GAS MAINS RATED AT 150PSI. FOR SANITARY SEWER AND WATER MAINLINES TREES SHALL NOT BE LOCATED WITHIN EASEMENTS AND WITHIN 15' OF ANY MAINLINE. ANY CONFLICT BETWEEN TREE LOCATIONS AND UTILITIES SHOWN ON PLANS SHALL BE RESOLVED WITH GENERAL CONTRACTOR PRIOR TO PLANTING. ALL ELECTRICAL VAULTS AND TRANSFORMERS SHALL BE KEPT CLEAR FROM PLANT MATERIAL PER COLORADO SPRINGS UTILITIES GUIDELINES "LANDSCAPING AROUND ELECTRICAL EQUIPMENT". SEE COLORADO SPRINGS UTILITIES CONSTRUCTION STANDARD DRAWINGS 18-302 FOR SPECIFIC CLEARANCE REQUIREMENTS. ALL SHRUBS TO BE LOCATED 3' CLEAR OF ALL FIRE HYDRANTS AT MATURE SIZE.

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GRASS SEED MIX 'A'

Chapter 5
Native Vegetation Requirements and Guidelines

Table 5-1. El Paso County Conservation District All-Purpose Mix for Upland, Transition and Permanent Control Measure Areas

Common Name	Scientific Name	Growth Season / Form	% of Mix	Pounds PLS		
				Irrigated broadcast Irrigated hydroseeded	Non-irrigated broadcast Non-irrigated hydroseeded Irrigated drilled	Non-irrigated drilled
Bluestem, big	<i>Andropogon gerardii</i>	Warm, sod	20	4.4	2.2	1.1
Gramma, blue	<i>Bouteloua gracilis</i>	Warm, bunch	10	0.5	0.25	0.13
Green needlegrass	<i>Nassella viridula</i>	Cool, bunch	10	2	1	0.5
Wheatgrass, western	<i>Pascopyrum smithii</i>	Cool, sod	20	6.4	3.2	1.6
Gramma, sideoats	<i>Bouteloua curtipendula</i>	Warm, bunch	10	2	1	0.5
Switchgrass	<i>Panicum virgatum</i>	Warm, bunch/sod	10	0.8	0.4	0.2
Prairie sandreed	<i>Calamovilfa longifolia</i>	Warm, sod	10	1.2	0.6	0.3
Yellow indiagrass	<i>Sorghastrum nutans</i>	Warm, sod	10	2	1	0.5
Seed rate (lbs PLS/acre)				19.3	9.7	4.8

*For portions of facilities located near or on the bottom or where wet soil conditions occur. Planting of potted nursery stock wetland plants 2-foot on-center is recommended for sites with wetland hydrology.

*Species that will do well in the bottom of pond areas.

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847 STRUTHERS RANCH ROAD
LOTS 1-2, STRUTHERS RANCH SUB. FIL. NO. 4
EL PASO COUNTY

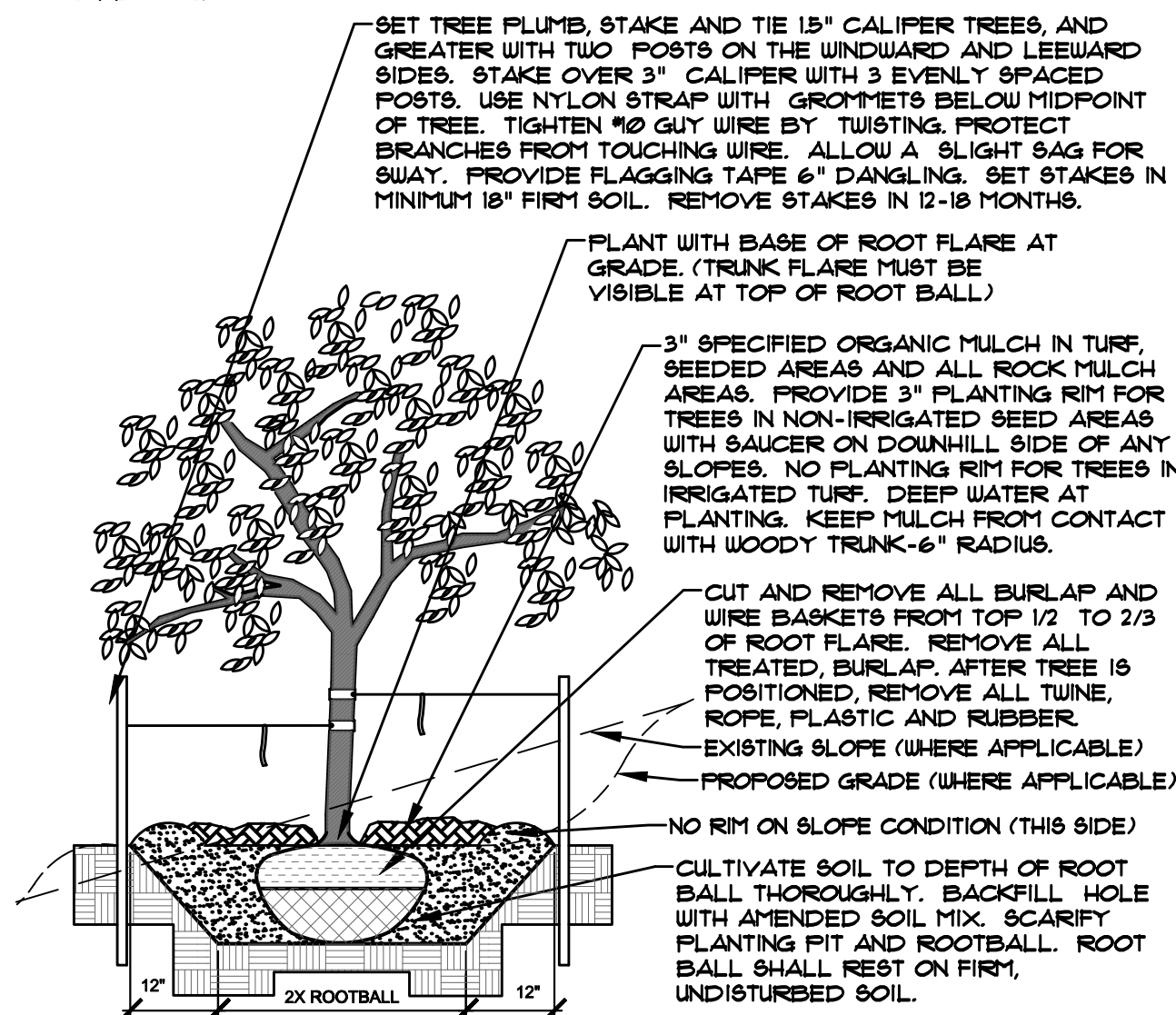
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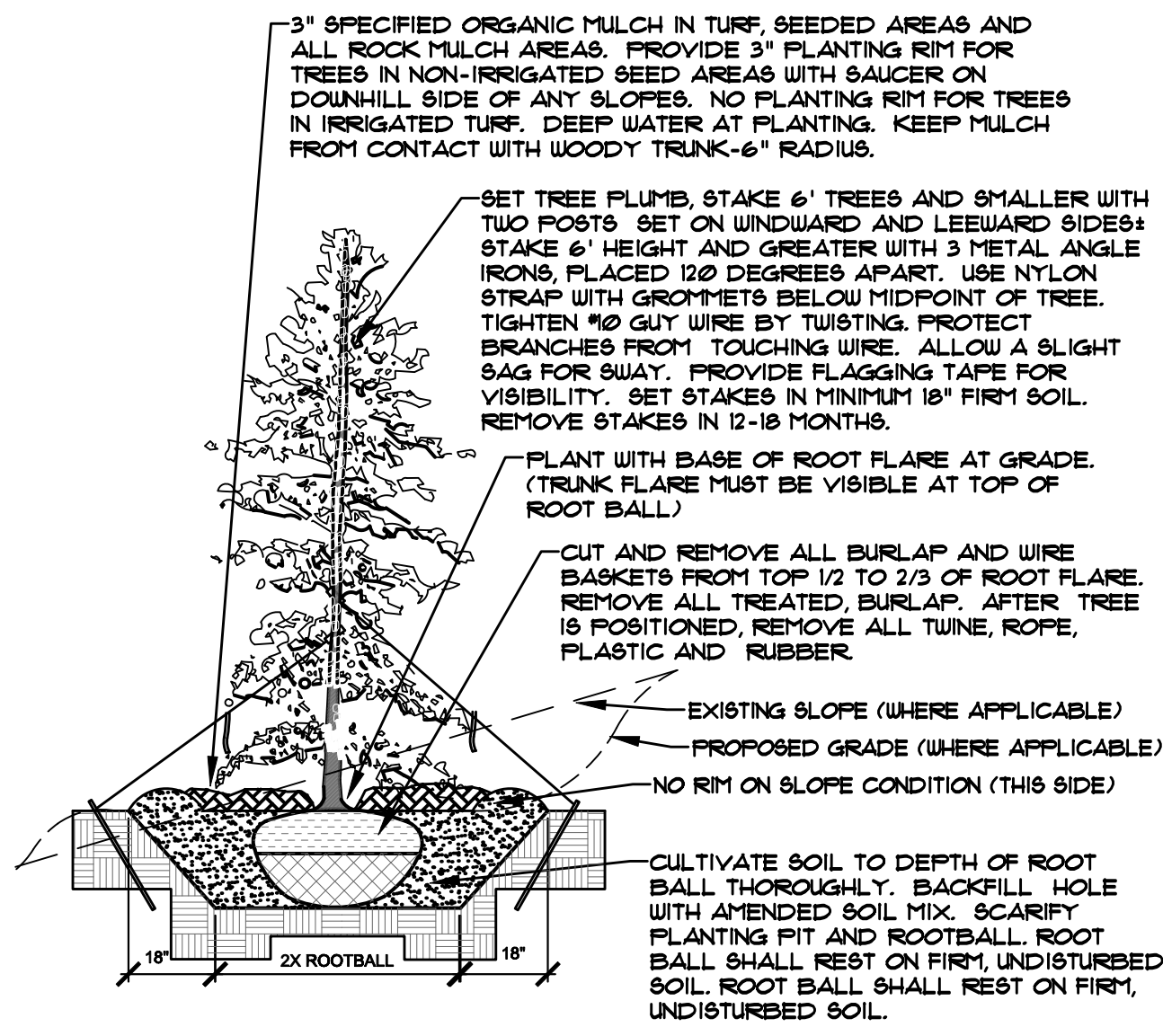
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	REVISIONS	
	11-23-22	PER COMMENTS
	2-21-23	PER COMMENTS
	4-4-23	PER COMMENTS
	4-10-23	PER COMMENTS
	ORIGINAL DATE	J. MACKAY
	DRAWN BY	8-15-22
	DESCRIPTION	FINAL LANDSCAPE PLAN NOTES
	SHEET NO.	L1.3

- NOTES:
- MARK NORTH SIDE OF TREE AT NURSERY AND ALIGN TREE TO NORTH WHEN PLANTING.
 - DO NOT REMOVE OR CUT LEADER.
 - PRUNE ONLY DEAD, BROKEN, CROSSING, OR WEAK BRANCHES (OR NARROW CROTCHES) IMMEDIATELY PRIOR TO PLANTING. DO NOT REMOVE TERMINAL BUDS THAT EXTEND TO TREE CROWN.
 - NO STRUCTURAL PRUNING OF TREE UNTIL AFTER ESTABLISHMENT PERIOD (2 GROWING SEASONS).
 - REMOVE ANY DOUBLE LEADER, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
 - KEEP PLANTS MOIST AND SHADED UNTIL PLANTING. AVOID FALL PLANTING IF POSSIBLE.
 - AMENDED BACKFILL SHALL BE 10% SOIL FROM PLANTING PIT AND 30% ORGANIC MATERIAL.
 - WRAP TRUNK ON EXPOSED SITES OR SPECIES WITH THIN BARK. USE ELECTRICAL TAPE, NOT TUENE. UNWRAP OCTOBER 15 AND REMOVE BY MARCH 31.
 - DO NOT FERTILIZE TREE DURING THE FIRST GROWING SEASON.
 - COORDINATE WITH CITY FORESTRY FOR CURRENT INSECT & DISEASE RECOMMENDATIONS PRIOR TO PLANTING.



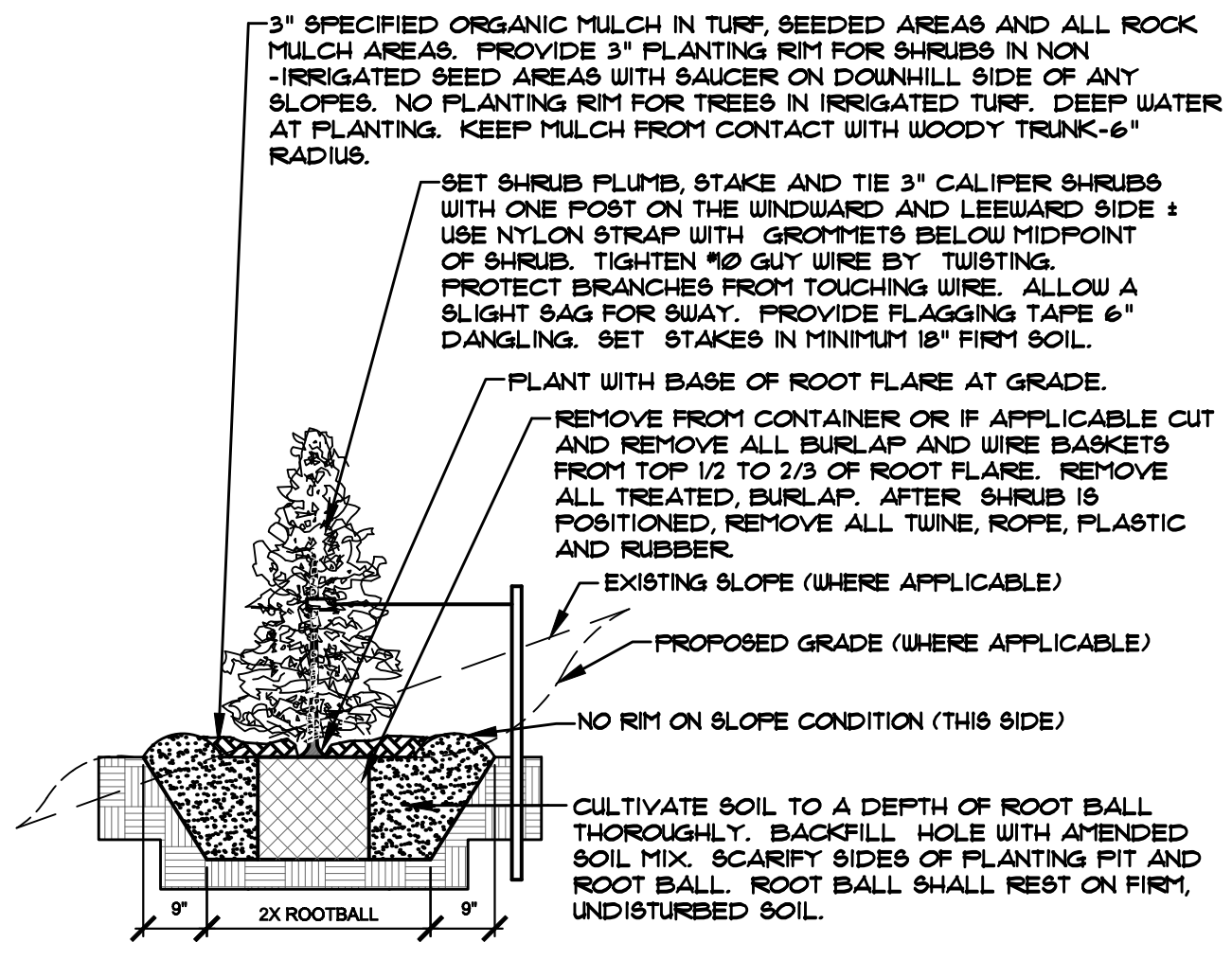
A DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE

- NOTES:
- MARK NORTH SIDE OF TREE AT NURSERY AND ALIGN TREE TO NORTH WHEN PLANTING.
 - DO NOT REMOVE OR CUT LEADER.
 - PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.
 - REMOVE ANY DOUBLE LEADER, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
 - KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
 - AVOID FALL PLANTING IF POSSIBLE.
 - AMENDED BACKFILL SHALL BE 10% SOIL FROM PLANTING PIT AND 30% ORGANIC MATERIAL.
 - FINE AND SPRUCE TREES TO BE SPRAYED FOR IPS BARK BEETLE PRIOR TO PLANTING (SEE CONIFEROUS TREE NOTE ON PLANTING NOTES SHEET).



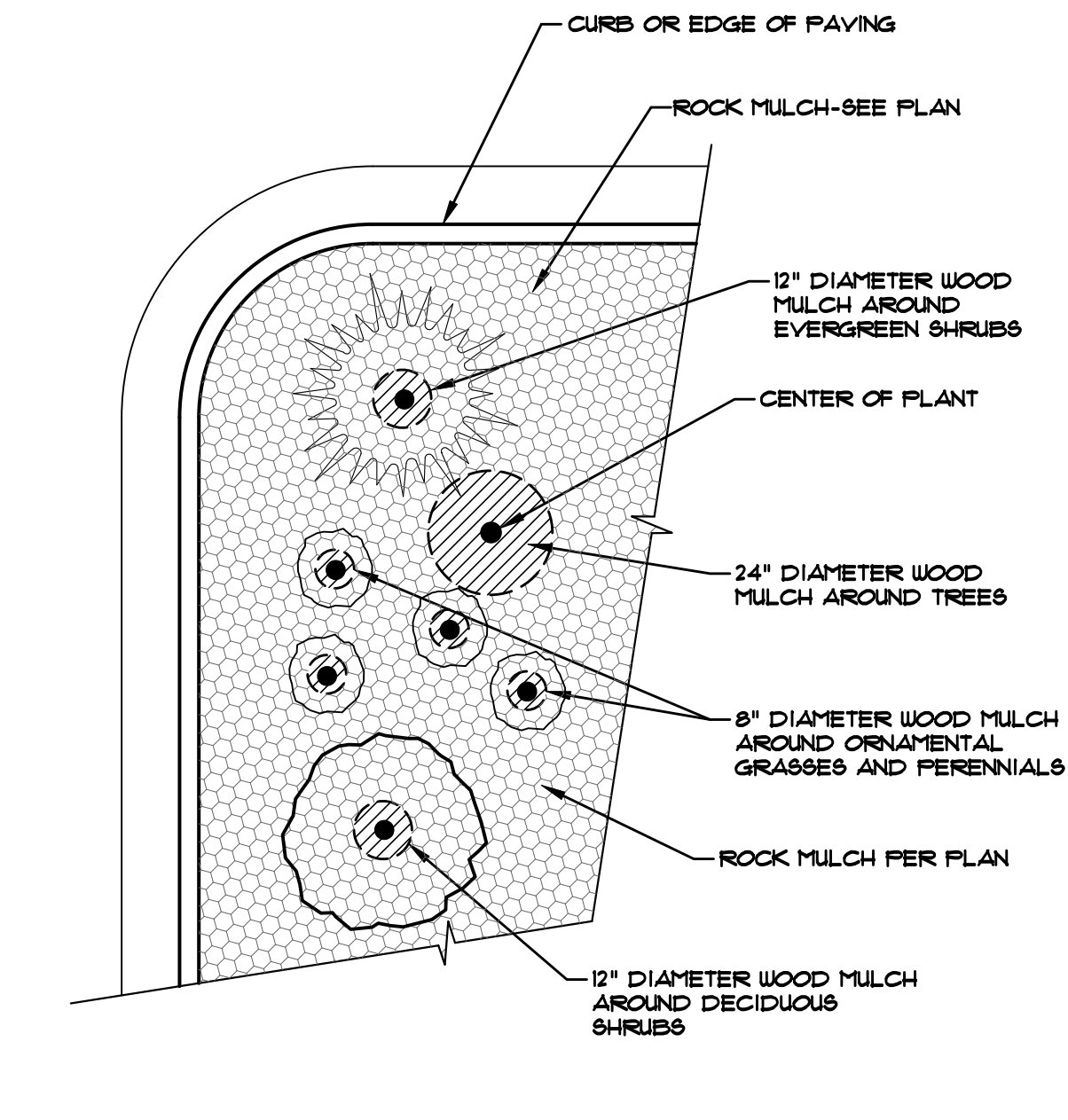
B EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

- NOTES:
- DO NOT REMOVE OR CUT LEADER.
 - PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.
 - REMOVE ANY DOUBLE LEADER UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
 - KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
 - AVOID FALL PLANTING IF POSSIBLE.
 - AMENDED BACKFILL SHALL BE 10% SOIL FROM PLANTING PIT AND 30% ORGANIC MATERIAL.
 - FOR POT BOUND PLANTS ONLY: MAKE 4-5 VERTICAL CUTS IN ROOT BALL 1\"/>



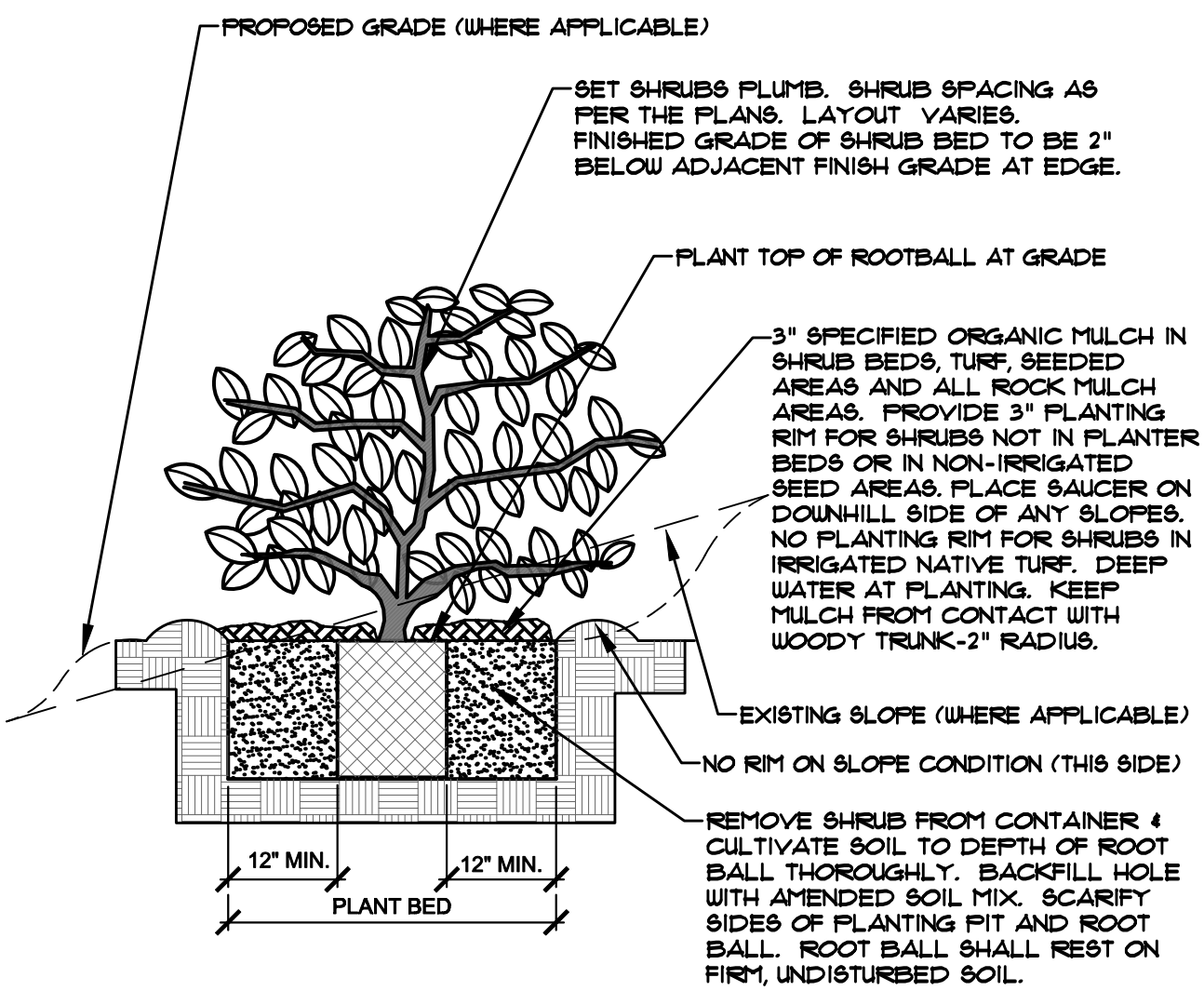
C UPRIGHT EVERGREEN SHRUB PLANTING DETAIL
NOT TO SCALE

- NOTES:
- CONTRACTOR TO INSTALL WOOD MULCH RINGS AROUND LANDSCAPING AS SHOWN BELOW FOR ALL TREES, SHRUBS, PERENNIALS AND ORNAMENTAL GRASSES INSTALLED IN ROCK MULCHED AREAS. ROCK SHALL BE CLEAR FROM SHRUB IN UNIFORM CIRCLE AND WOOD MULCH APPLIED AT 2\"/>

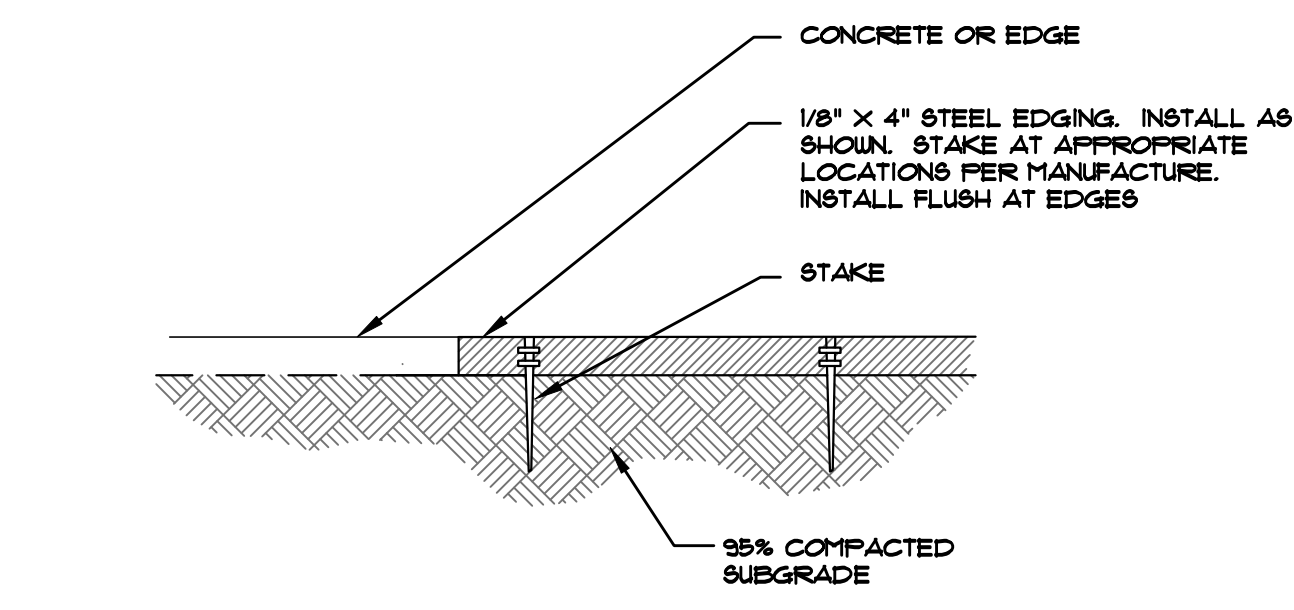


D TYPICAL PLANT MATERIAL TREATMENT
NOT TO SCALE

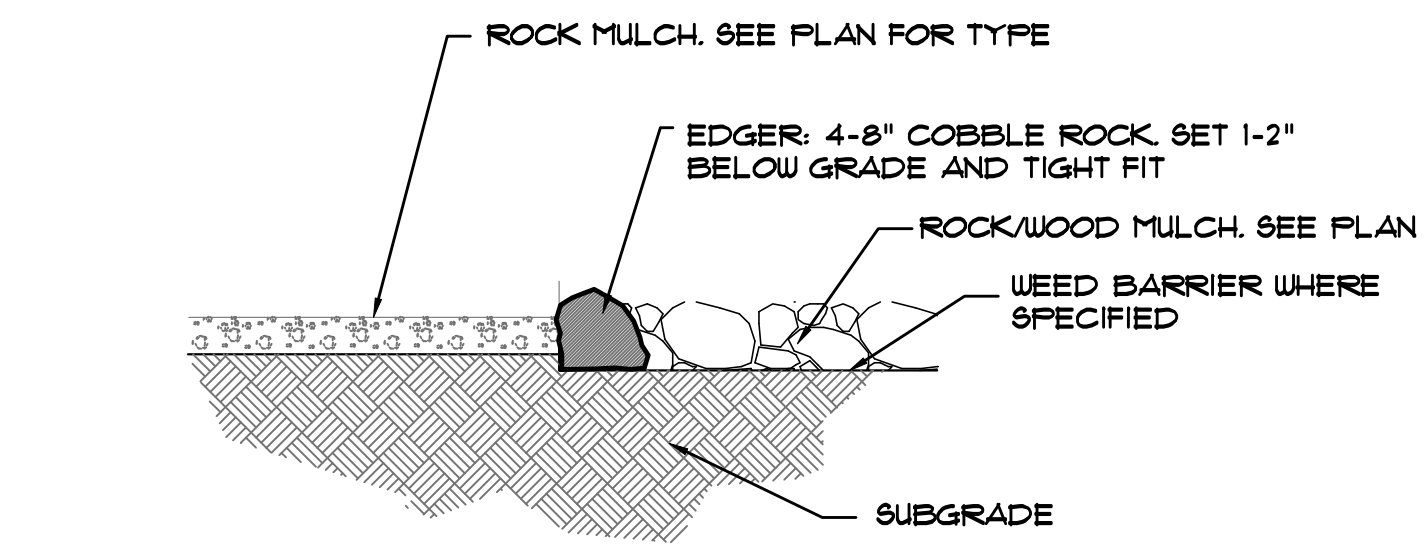
- NOTES:
- PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.
 - KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
 - DO NOT FERTILIZE FOR AT LEAST ONE GROWING SEASON.
 - AMENDED BACKFILL SHALL BE 10% SOIL FROM PLANTING PIT AND 30% ORGANIC MATERIAL.
 - FOR ROOT BIND AT BOTTOM OF BALL, SPLIT ROOT BALL VERTICALLY FROM BOTTOM HALFWAY TO TOP. SPREAD THE TWO HALVES OVER A MOUND OF SOIL IN PLANTING PIT.
 - FOR POT BOUND PLANTS ONLY: MAKE 4-5 VERTICAL CUTS IN ROOT BALL 1\"/>



E SHRUB PLANTING DETAIL
NOT TO SCALE



F STEEL EDGING
NOT TO SCALE



G COBBLE ROCK EDGING
NOT TO SCALE

UTILITIES NOTE

VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. CALL 811 FOR UTILITY LOCATES. TREE TRUNK PLACEMENT SHALL BE 6\"/>

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