GENERAL PERMIT PROGRAM (GPP) STANDARD ENVIRONMENTAL NOTES:

ADDITIONAL AREAS:

- 1. ANY ADDITIONAL AREAS REQUIRED FOR CONSTRUCTION OF THIS PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST SECURE CITY OF AUSTIN APPROVAL OF PROPOSED ADDITIONAL AREAS PRIOR TO USE. APPROVAL OF "CORRECTION REQUEST" MUST BE SECURED FROM THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW
- ALL ASSOCIATED PERMITS AND FEES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 3. IN ORDER TO SECURE APPROVAL FOR USE OF ADDITIONAL AREAS, CONTRACTOR MUST PROVIDE COMPLETE "CORRECTION REQUEST" SUBMITTAL TO GENERAL PERMIT PROGRAM OFFICE AND ALLOW A ONE WEEK COMMENT PERIOD FOR EACH REVIEW. CONTRACTOR SHOULD REQUEST INFORMATION ON THE ELEMENTS REQUIRED TO BE INCLUDED IN THE SUBMITTAL FROM THE OWNER'S REPRESENTATIVE OR THE GENERAL PERMIT PROGRAM OFFICE.
- CONTRACTOR MUST INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION FOR ALL SUCH AREAS IN ACCORDANCE WITH THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL AND AS INCLUDED IN
- A SIGNED COPY OF THE PLANS PERMITTED THROUGH THE GENERAL PERMIT PROGRAM MUST BE KEPT ON SITE AND ACCESSIBLE AT ALL TIMES DURING PROJECT CONSTRUCTION.

CONTRACTOR IS RESPONSIBLE FOR DEWATERING OF WORK AREA. CONTRACTOR MUST SECURE CITY OF AUSTIN APPROVAL OF PROPOSED DEWATERING PROCEDURES PRIOR TO INSTALLATION OR USE. APPROVAL MUST BE SECURED FROM THE GENERAL PERMIT PROGRAM (GPP) OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT. CONTRACTOR MUST PROVIDE COMPLETE SUBMITTAL TO GPP OFFICE AND ALLOW AN ONE WEEK (MIN.) COMMENT PERIOD FOR EACH REVIEW. CONTACT THE GPP OFFICE FOR SUBMITTAL REQUIREMENTS.

FUEL STORAGE:

FUEL STORAGE IS PROHIBITED ON THIS PROJECT. ADDITIONALLY, THE CONTRACTOR IS REQUIRED TO NOTIFY THE GENERAL PERMIT PROGRAM OFFICE IMMEDIATELY FOLLOWING ANY SPILL OF FUEL OR OTHER TOXIC MATERIAL. CONTRACTOR IS REQUIRED TO FOLLOW-UP WITH WRITTEN DOCUMENTATION, INCLUDING A COMPLETE DESCRIPTION OF THE INCIDENT, MATERIAL SPILLED, AND ACTIONS TAKEN TO CONTAIN AND CLEAN-UP MATERIAL.

ALL PROJECTS APPROVED THROUGH THE GENERAL PERMIT PROGRAM (GPP) MUST COMPLY WITH THE CODE OF THE CITY OF AUSTIN AND THE ENVIRONMENTAL CRITERIA MANUAL REQUIREMENTS TO CONTROL AIRBORNE DUST. COMPLIANCE IS REQUIRED FOR ENTIRE PROJECT SITE AS WELL AS ASSOCIATED OPERATIONS. CONTACT THE GPP OFFICE FOR RECOMMENDED CONTROL

SPOILS STORAGE:

NO SPOILS STORAGE IS ALLOWED WITHIN A CRITICAL WATER QUALITY ZONE, A 100-YEAR FLOODPLAIN, OR ON A SLOPE WITH A GRADIENT OF MORE THAN 15 PERCENT.

E/S CONTROLS FOR BORE / RECEIVING PIT LOCATIONS:

TEMPORARY E/S CONTROLS MUST SURROUND THE ENTIRETY OF BORING OPERATIONS, INCLUDING PIT, EQUIPMENT, ETC. FOR LOCATIONS WITHIN IMPERVIOUS AREAS, TEMPORARY CONTROL WILL BE TRIANGULAR FILTER DIKE (COA STANDARD DETAIL #628S). DIKE FLAP WILL BE CONTINUOUSLY WEIGHTED DOWN THROUGH THE USE OF 1" BY 4" WOOD STRIPS NAILED TO THE PAVEMENT, EXCEPT FOR THE ACCESS POINT. PLACEMENT OF TEMPORARY E/S CONTROLS ACROSS ACCESS POINT WILL BE REQUIRED WHENEVER THE SITE IS NOT ACTIVELY USED. FOR LOCATIONS WITHIN PERVIOUS AREAS, TEMPORARY CONTROL WILL BE SILT FENCE (COA STANDARD DETAIL #642S-1) OR MULCH SOCKS (COA STANDARD DETAIL #648S-1), AS INDICATED ON APPROVED PLANS.

SOIL RETENTION BLANKET:

UNLESS OTHERWISE INDICATED IN THE PROJECT DOCUMENTS, INSTALLATION OF SOIL RETENTION BLANKET WILL BE REQUIRED FOR ALL IMPACTED SLOPES GREATER THAN 3:1 AND ALL IMPACTED AREAS WITHIN DRAINAGE CONVEYANCES. (CITY OF AUSTIN STANDARD SPECIFICATION ITEM 605S) SOIL RETENTION BLANKET SUBMITTAL MUST BE APPROVED BY PROJECT ENGINEER AND GENERAL PERMIT PROGRAM (GPP) REPRESENTATIVE PRIOR TO USE AND MUST INCLUDE PRODUCT AND INSTALLATION DETAILS PROVIDED BY MANUFACTURER. FINISH GRADING MUST BE INSPECTED AND APPROVED BY GPP INSPECTOR PRIOR TO BLANKET INSTALLATION. INSTALLATION MUST BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MUST BE INSPECTED AND APPROVED BY GPP REPRESENTATIVE PRIOR TO ACCEPTANCE

REVEGETATION WITHIN MANAGED TURE AREAS MUST BE ACCOMPLISHED THROUGH THE INSTALLATION OF SOLID BLOCK GRASS SOD. SOD TYPE MUST MATCH
ADJACENT GRASS TYPE. QUESTIONS REGARDING SOD TYPE WILL BE RESOLVED
BY THE GENERAL PROGRAM PERMIT REPRESENTATIVE. REFER TO CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 602S: SODDING FOR EROSION CONTROL, UNLESS OTHERWISE NOTED ON THE APPROVED PLANS

TOPSOIL (TxDOT ITEM NO. 160), SOIL RETENTION BLANKET (TxDOT ITEM NO. 169). AND REVEGETATION (TXDOT ITEM NO. 164) INSTALLED WITHIN TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) RIGHT-OF-WAY SHALL COMPLY WITH "REQUIREMENTS FOR INSTALLATION OF UTILITIES WITHIN THE STATE

PROJECT SEQUENCE: (REFER TO FULL PLAN SET FOR PROJECT-SPECIFIC ADDITIONS, IF APPLICABLE.)

- 1. SECURE APPLICABLE COA PERMITS, INCLUDING APPROVAL UNDER GENERAL PERMIT PROGRAM AND RIGHT-OF-WAY EXCAVATION PERMIT.
- 2 NOTIFY GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO PLACEMENT NOTIFI GENERAL PERMIT PROGRAM KEPTESENTATIVE PRIOR TO PLAZEMENT E/S CONTROLS AND TREE PROTECTION FENCING. ALL PROPOSED PHASING CONTROLS MUST BE SUBMITTED TO AND APPROVED BY THE GENERAL PERMIT GRAM REPRESENTATIVE PRIOR TO THE FIELD PRE-CONSTRUCTION
- 3. NOTIFY COA TEMPORARY TRAFFIC CONTROL REPRESENTATIVE PRIOR TO PLACEMENT OF TEMPORARY TRAFFIC CONTROLS. ALL PROPOSED PHASING OF CONTROLS MUST BE INDICATED ON APPROVED TEMPORARY TRAFFIC CONTROL PLAN AND SEALED BY PROFESSIONAL ENGINEER
- 4. PLACE TEMPORARY E/S CONTROLS AND TREE PROTECTION FENCING PRIOR TO BEGINNING ANY EXCAVATION. INSTALL C.I.P. SIGN, IF APPLICABLE.
- HOLD ENVIRONMENTAL PRE-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, OWNER'S REPRESENTATIVE, AND GENERAL PERMIT PROGRAM REPRESENTATIVE AFTER INSTALLATION OF E/S CONTROLS AND TREE PROTECTION FENCING AND PRIOR TO ANY TRENCHING OPERATIONS.

OUTSIDE OF THE STREET.

- BEGIN CONSTRUCTION. NOTIFY GENERAL PERMIT PROGRAM REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.
- CONTACT GENERAL PERMIT OFFICE TO SCHEDULE FIELD INSPECTION PRIOR TO BEGINNING INSTALLATION OF PERMANENT E/S CONTROLS.
- COMPLETE RESTORATION OF ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES FOR THIS PROJECT. (PERMANENT E/S CONTROLS)
- REMOVE TEMPORARY TRAFFIC CONTROL DEVICES RELATED TO WORK AREAS
- 5. HOLD ENVIRONMENTAL POST-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, OWNER'S REPRESENTATIVE, AND GENERAL PERMIT PROGRAM REPRESENTATIVE. ALL PERMANENT E/S CONTROLS MUST BE ACCEPTED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE. PERMANENT CONTROLS SHALL CONSIST OF REVEGETATION PER DETAILS 602, 604S, AND 609S AS INDICATED
- FOLLOWING FINAL ACCEPTANCE OF PERMANENT E/S CONTROLS BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE, REMOVE TEMPORARY E/S CONTROLS. CLEAN EXISTING STORM DRAINAGE SYSTEMS AS NECESSARY DUE TO
- 7. DRESS-UP AND RESTORE ANY AREAS DISTURBED BY REMOVAL OF TEMPORARY E/S CONTROLS DESCRIBED ABOVE.

SUBMITTALS REQUIRED TO BE APPROVED BY GENERAL PERMIT PROGRAM REPRESENTATIVE INCLUDE: SUBMITTALS TRIGGERED BY CITY OF AUSTIN SERIES 600 SPECIFICATIONS AND RELATED SPECIAL PROVISIONS/SPECIFICATIONS, CONSTRUCTION SCHEDULE, TREE PROTECTION, P-6 AND OTHER ROOT ZONE PROTECTION/MITIGATION MEASURES, DEWATERING PLAN, WATERING SCHEDULE FOR DEVICESTATIVE DEPROPRIES FOR THE PROPERTY OF THE P REVEGETATION AREAS, AND ANY VEGETATIVE REPLACEMENT PROPOSALS, IF NOT ALREADY PART OF THE PERMITTED PLAN SET.

CITY OF AUSTIN - STANDARD NOTES TREE AND NATURAL AREA PROTECTION (MODIFIED FOR USE ON GENERAL PERMIT PROJECTS)

- 1. ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY MEASURES.
- PROTECTIVE MEASURES SHALL BE INSTALLED ACCORDING TO CITY OF AUSTIN
- 3. PROTECTIVE MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE PROJECT.
- 4. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP, COMPACTION OR CUTTING OF CRITICAL ROOT ZONE WITHIN TREE DRIP LINES.
- TREE PROTECTION SHALL COMPLETELY SURROUND THE TREES OR GROUP OF TREES AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE). FOR NATURAL AREAS, PROTECTIVE MEASURES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
- SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
- B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT;
- WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL
- D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
- 6. EXCEPTIONS TO INSTALLING PROTECTIVE FENCES AT CRITICAL ROOT ZONES MAY BE PERMITTED IN THE FOLLOWING CASES: WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE
- PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 FEET BEYOND THE AREA WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT
- THE OUTER LIMITS OF THE PERMEABLE PAVING AREA WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE SER THAN 6 FEET TO THE BUILDING
- D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE GENERAL PERMIT PROGRAM OFFICE AT 974-6330 TO DISCUSS ALTERNATIVES.

SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED.

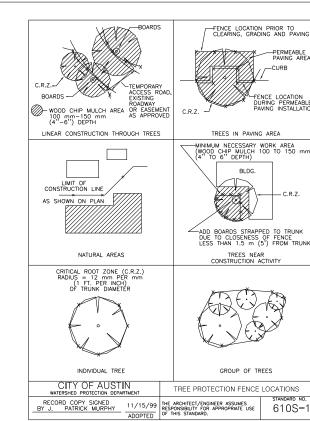
WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE 5 FEET OR CLOSER TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLATO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING.

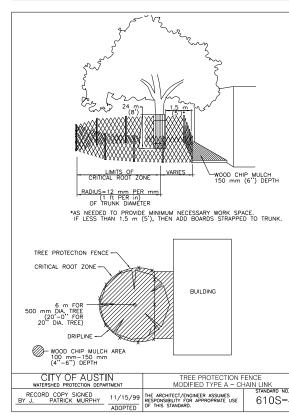
- WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF LINPROTECTED 7. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES, THOSE AREAS SHOULD BE COVERED WITH 12 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION DURING CONSTRUCTION, FILTER FABRIC UNDERLAYMENT MAY BE REQUIRED AT DIRECTION OF GENERAL PERMIT PROGRAM REPRESENTATIVE BASED ON SITE CONDITIONS AND CONSTRUCTION ACTIVITIES.

 MAXIMUM FOUR (4) INCHES DEPTH MAY BE LEFT IN PLACE AFTER CONSTRUCTION WITH ADDROVAL FORWARD FOR THE PROGRAM REPORTED WITH ADDROVAL FORWARD FOR THE PROGRAM. CONSTRUCTION WITH APPROVAL FROM THE GENERAL PERMIT PROGRAM
- 8 ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCES TO 2 FEET BEHIND THE GRADE CHANGE
- 9. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
- 10. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS.
- 11. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHOULD BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TR CROWNS SHOULD BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
- 12. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
- 13. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
- 14. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. SEE NOTE FOUR (4) OF SUPPLEMENTAL TREE PROTECTION NOTES FOR ADDITIONAL REQUIREMENTS.
- 15. ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED. APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE GENERAL PERMIT PROGRAM OFFICE).
- 16. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NONCOMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.
- 17. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.

SUPPLEMENTAL TREE PROTECTION NOTES

- ALL TREE PROTECTION MUST COMPLY WITH CITY OF AUSTIN REQUIREMENTS. 1. ALL TIREE PROTECTION MOST COMPILE WITH CITY OF AUSTIN REQUIREMENTS.
 STANDARD COA NOTES AND DETAILS INCLUDED WITHIN THIS DOCUMENT SET.
 CONTRACTOR SHALL INSTALL PROTECTION PRIOR TO PRE—CONSTRUCTION
 CONFERENCE, MAKE ADJUSTMENTS TO PROTECTION AS DIRECTED BY THE GPP RESENTATIVE, AND MAINTAIN PROTECTION UNTIL PROJECT IS COMPLETE.
- 2. TYPE AND LOCATION OF ALL TREE PROTECTION MUST BE APPROVED IN THE FIELD BY THE GENERAL PERMIT PROGRAM (GPP) REPRESENTATIVE PRIOR TO CONSTRUCTION.
- WALK-THROUGH: CONTRACTOR SHALL CONDUCT WALK-THROUGH MEETING 3. WALK-THROUGH: CONTRACTOR SHALL CONDUCT WALK-THROUGH MEETING WITH CENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO PERFORMING ANY PRUNING ACTIVITIES ON TREES IN PROJECT AREA. PURPOSE OF WALK-THROUGH WILL BE TWOFOLD. ONE PURPOSE WILL BE TO DETERMINE THE MINIMUM AMOUNT OF PRUNING NECESSARY TO ALLOW CONSTRUCTION WORK TO BE COMPLETED. SECOND PURPOSE WILL BE TO DETERMINE AREAS OF PROJECT IN WHICH EXHAUST DIVERTERS WILL BE REQUIRED ON CONSTRUCTION EQUIPMENT TO PEPEVANT SCORPCHING OF FISTING TOPES. TO PREVENT SCORCHING OF EXISTING TREES.
- 4. ALL PRUNING MUST BE PERFORMED IN ACCORDANCE WITH ANSI A300 (PART 1) - 2001 AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS (PRUNING), OR LATEST APPROVED VERSION. THIS DOCUMENT MAY BE OBTAINED ONLINE FOR A FEE AT WWW.ANSI.ORG.
- 5. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. TO PREVENT BARK TEARS, THE WEIGHT OF THE BRANCH SHALL BE REMOVED BEFORE MAKING FINAL
- 6. ALL PRUNING SHALL PRESERVE THE NATURAL CHARACTER OF THE TREE.
- ONLY COLLAR CUTS ARE ACCEPTABLE. NO FLUSH CUTS OR STUB CUTS
- ALL BRANCHES THAT ARE BROKEN OR DAMAGED DURING CONSTRUCTION SHALL BE REMOVED.
- 9. PRUNING CUTS OR DAMAGED AREAS ON AN OAK TREE SHALL BE PAINTED WITHIN FIVE MINUTES WITH A STANDARD TREE WOUND DRESSING. TREE WOUND DRESSING SHALL BE EITHER TREEKOTE AEROSOL OR TANGLEFOOT PRUNING SEALER (OR APPROVED EQUAL). THIS ALSO APPLIES TO WOUNDS CREATED BY CONSTRUCTION VEHICLES OR EQUIPMENT. ALL PRUNING MUST BE IN ACCORDANCE WITH COA OAK WILT PREVENTION POLICY.
- 10. ANY TREE ROOTS THAT ARE EXPOSED, CUT, OR TORN DURING CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SURROUNDING SOIL. (REFER ALSO TO NUMBER 9 OF THE TREE AND NATURAL AREA PROTECTION NOTES INCLUDED IN THIS PLAN SET.)
- 11. ALL TRENCHING WITHIN THE CRITICAL ROOT ZONE OF A TREE TO BE PRESERVED WILL BE SAW CUT OR EXCAVATED BY HAND, AS APPROVED BY THE GENERAL PERMIT PROGRAM ARBORIST.
- 12. REFER TO ENVIRONMENTAL CRITERIA MANUAL APPENDIX P-6 FOR FURTHER REMEDIAL TREE CARE REQUIREMENTS. P—6 REMEDIAL TREE CARE WILL BE COORDINATED WITH AND APPROVED BY THE GENERAL PERMIT PROGRAM ARBORIST FOR PROJECTS PERMITTED THROUGH THE GENERAL PERMIT PROGRAM.









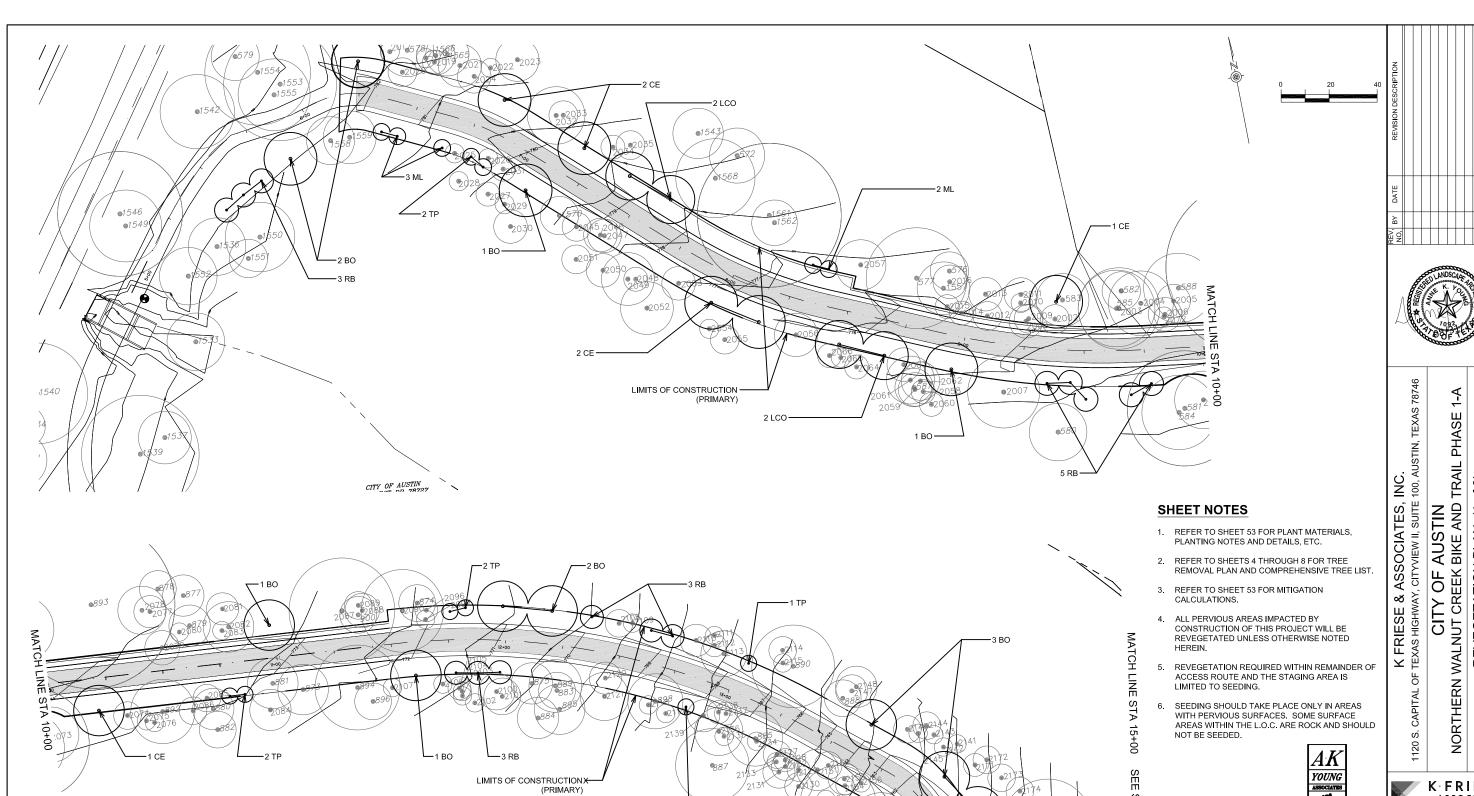
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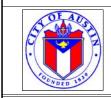


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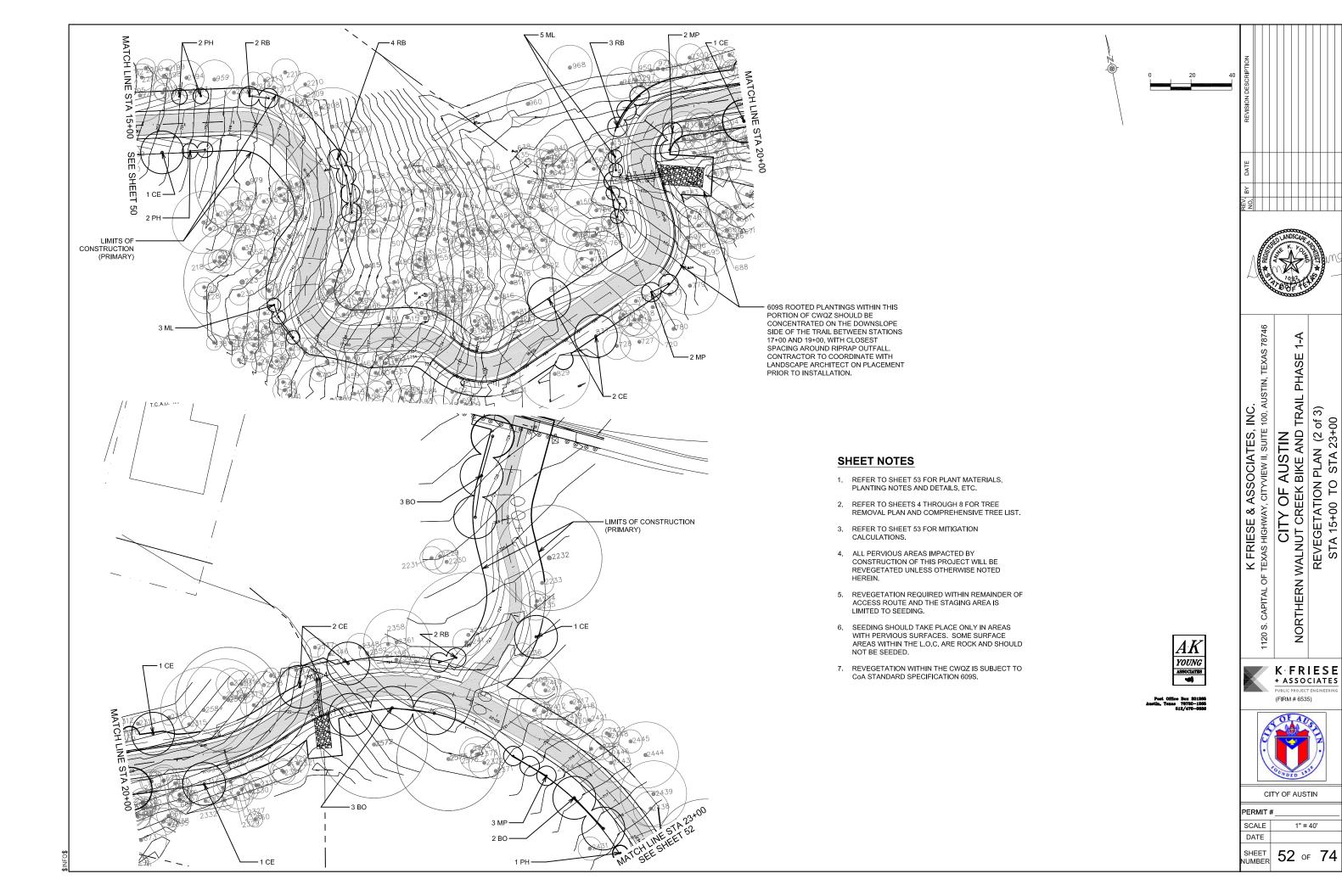


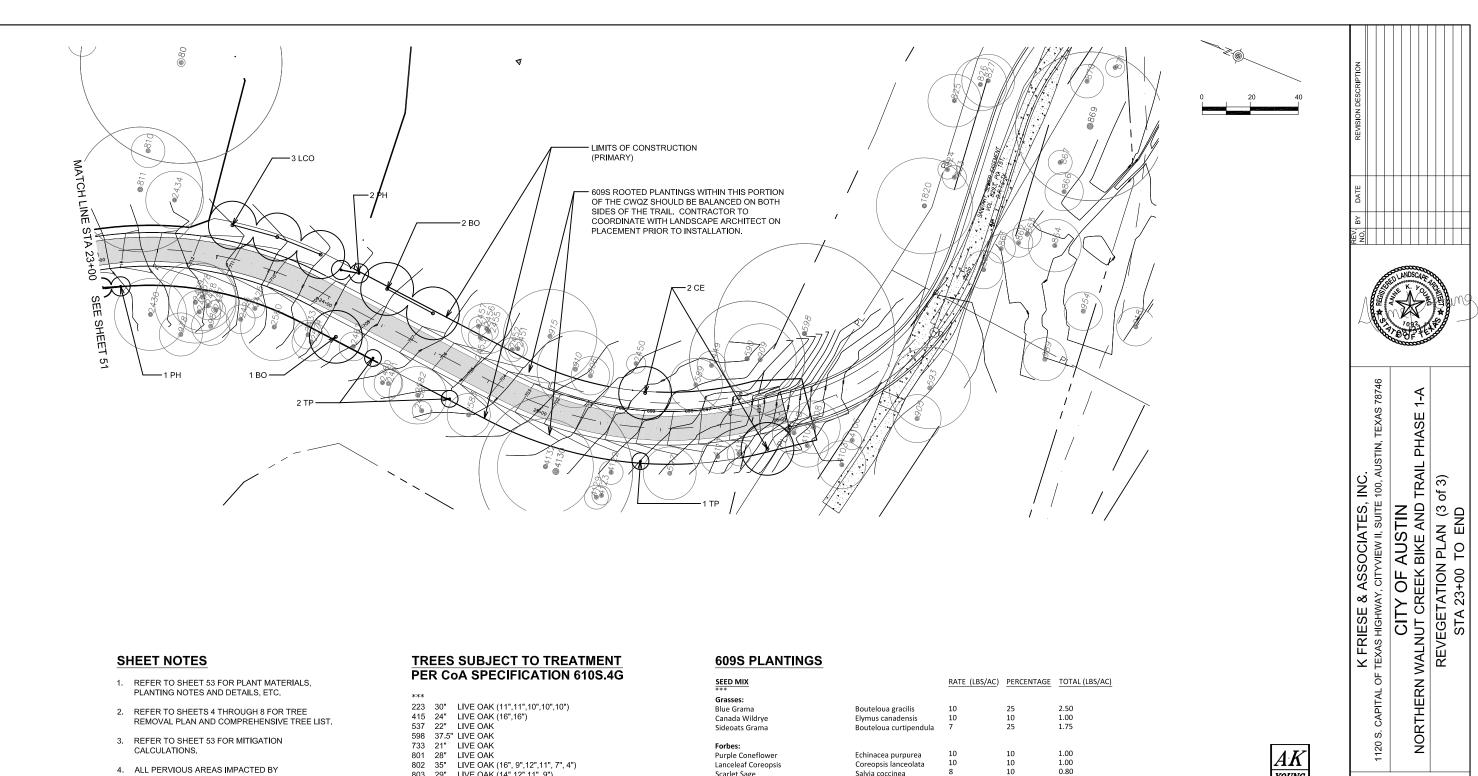
REVEGETATION PLAN (1 of 3) BEGINNING TO STA 15+00



CIT	Y OF AUSTIN
PERMIT#	

SCALE 1" = 40' DATE SHEET 51 OF 74





SHEET NOTES

- 1. REFER TO SHEET 53 FOR PLANT MATERIALS, PLANTING NOTES AND DETAILS, ETC.
- 2. REFER TO SHEETS 4 THROUGH 8 FOR TREE REMOVAL PLAN AND COMPREHENSIVE TREE LIST.
- 3. REFER TO SHEET 53 FOR MITIGATION CALCULATIONS.
- ALL PERVIOUS AREAS IMPACTED BY CONSTRUCTION OF THIS PROJECT WILL BE REVEGETATED UNLESS OTHERWISE NOTED
- 5. REVEGETATION REQUIRED WITHIN REMAINDER OF ACCESS ROUTE AND THE STAGING AREA IS
- 6. SEEDING SHOULD TAKE PLACE ONLY IN AREAS WITH PERVIOUS SURFACES. SOME SURFACE AREAS WITHIN THE L.O.C. ARE ROCK AND SHOULD
- 7. REVEGETATION WITHIN THE CWQZ IS SUBJECT TO CoA STANDARD SPECIFICATION 609S.

TREES SUBJECT TO TREATMENT PER CoA SPECIFICATION 610S.4G

223	30"	LIVE OAK (11",11",10",10",10")
415	24"	LIVE OAK (16",16")
537	22"	LIVE OAK
598	37.5"	LIVE OAK
733	21"	LIVE OAK
801	28"	LIVE OAK
802	35"	LIVE OAK (16", 9",12",11", 7", 4")
803		LIVE OAK (14",12",11", 9")
809	42"	LIVE OAK (29", 26")
		LIVE OAK
		CEDAR ELM
		LIVE OAK
		LIVE OAK
		LIVE OAK (14",14",13")
	26"	
		LIVE OAK
1554	22"	LIVE OAK
		POST OAK (19",16",6")
4132	20"	POST OAK

*** SECONDARY LOC WILL BE ESTABLISHED SOLELY FOR THE PURPOSE AND DURATION OF THE TREATMENTS. SECONDARY LOC BOUNDARY WILL BE 5' BEYOND CRZ FOR TREES RECEIVING THE TREATMENTS.

609S PLANTINGS

SEED MIX ***		RATE (LBS/AC)	PERCENTAGE	TOTAL (LBS/AC)
Grasses: Blue Grama Canada Wildrye Sideoats Grama	Bouteloua gracilis Elymus canadensis Bouteloua curtipendula	10 10 7	25 10 25	2.50 1.00 1.75
Forbes: Purple Coneflower Lanceleaf Coreopsis Scarlet Sage Winecup TOTALS	Echinacea purpurea Coreopsis lanceolata Salvia coccinea Callirhoe involucrata	10 10 8 5	10 10 10 10 10	1.00 1.00 0.80 0.50 8.55 LBS/AC
*** Add to seed mix between September 15 and March 1 Cereal rye grain	Secale cereale	34		
ROOTED PLANTS Pervious area within LOC: .244 AC Total rooted plants needed: 106 Agarita Elbow Bush Frogfruit Mexican Plum Possumhaw (Deciduous Yaupon)	Berberis trifoliolata Forestiera pubescens Phyla nodiflora Prunus mexicanal lex decidua	1 gal. 1 gal. 1 gal. 1 gal. 5 gal. (4 pts) 5 gal. (4 pts)	QUANTITY 5 5 10 11 11	(equivalent to 44) (equivalent to 44)





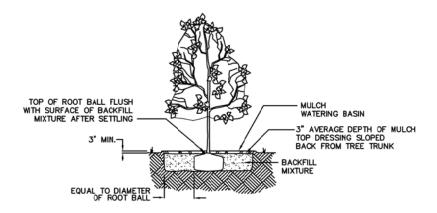


CITY OF AUSTIN				
PERMIT#				
SCALE	1" = 40'			
DATE				

SHEET 53 OF 74

PLAN NOTES

- 1. ALL QUESTIONS REGARDING THESE REVEGETATION PLANS SHOULD BE REFERRED TO THE LANDSCAPE ARCHITECT, A. K. YOUNG ASSOCIATES, AT
- 2. THE PLANS ARE NOT TO BE CONSIDERED FINAL UNTIL APPROVED BY THE CITY AND/OR OTHER GOVERNMENTAL AGENCY WITH JURISDICTION. CHANGES MAY BE REQUIRED PRIOR TO APPROVAL.
- 3. REFER TO ENGINEERING DOCUMENTS FOR FULL SCOPE OF PROJECT, INCLUDING DIMENSIONS, LOCATIONS, AND PROJECT INFORMATION.
- 4. REFER TO FULL PROJECT DOCUMENTS PRIOR TO BIDDING OR CONSTRUCTION, INCLUDING SPECIFICATIONS IN THE PROJECT MANUAL AND PROJECT DOCUMENTS FOR RELATED PIPELINE PROJECT.
- 5. ALL REVEGETATION ELEMENTS ARE TO BE INSTALLED WITHIN THE LIMITS OF CONSTRUCTION APPROVED IN SITE DEVELOPMENT PERMIT DOCUMENTS. ALL REVEGETATION ACTIVITIES ARE TO BE CONTAINED WITHIN THE LIMITS OF CONSTRUCTION APPROVED IN SITE DEVELOPMENT PERMIT DOCUMENTS.
- 6. LOCATION OF PLANT MATERIALS SHOULD BE AS SHOWN ON THE REVEGETATION PLAN. ANY DISCREPANCY BETWEEN FIELD CONDITIONS AND THE PROJECT DOCUMENTS WHICH LIMIT THE CONTRACTOR SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO PLANT MATERIAL INSTALLATION.
- 7. ALL PERVIOUS PROJECT AREAS IMPACTED DURING CONSTRUCTION WILL BE HYDROMULCHED WITH A NATIVE SEED MIX (604S.6) UNLESS OTHERWISE INDICATED IN THE PROJECT DOCUMENTS.



TREE PLANTING DETAIL

COVER INDIVIDUAL TREE OR SHRUB PLANTINGS WITH THREE INCH DEPTH OF MULCH BEGINNING AT TOP OF ROOTBALL ADJACENT TO THE TRUNK, THEN SLOPED GENTLY BACK FROM CONTACT WITH THE TRUNK. AVOID CONTACT WITH TRUNK. EACH BASIN SHALL HAVE A CLEAN, ROUND, EDGED

TREE MATERIALS

Eur Oak - Quercus macrocarpa 3" cal., single straight trunk, container grown

Cedar Elm - Ulmus crassifolia 3" cal. min., single straight trunk, container grown

Redbud - Cercis canadensis texensis "Texas Star" 2" cal., container grown

Lacey Oak - Quercus glaudoides (Q. laceyi) 2" cal., single straight trunk, container grown

Mountain Laurel - Sophora secundiflora 1.5" cal., multi-trunk, container grown

Mexican Plum - Prunus mexicana 2" cal., single straight trunk, container grown

Possumhaw, Deciduous Holly - Ilex decidua 1.5" cal., multi-trunk

Texas Persimmon - Diospyros texana 1.5" cal., multi-trunk acceptable

CWQZ PLANTING Subject to CoA Item No. 609S Table 5

SEED Native Mix: CoA Item No. 604S.6, Table 4

NOTES:

- 1. REFER TO SHEETS 4 THROUGH 8 FOR TREE INFORMATION, INCLUDING PROPOSED REMOVALS AND COMPLETE TREE LIST.
- 2. FOR FINAL RESTORATION WITHIN STAGING AREA, REFER TO PROJECT DOCUMENTS FOR SITE DEVELOPMENT PERMITS: GPP-2016-0029.AWU AND GPP-2016-0030.PAR
- 3. REFER TO SHEETS 46 THROUGH 49 FOR EROSION AND SEDIMENTATION CONTROL PLANS AND DETAILS.
- 4. REVEGETATION WITHIN THE CWQZ IS SUBJECT TO CoA STANDARD SPECIFICATION 609S. REFER TO SHEET 52 FOR SEEDING AND PLANTING.
- 5. USE OF RECLAIMED WATER FOR IRRIGATION OF REVEGETATION IS PROHIBITED ON THIS PROJECT.

BASE SPECIFICATIONS INCLUDE:

CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 604S - SEEDING FOR EROSION CONTROL 01-04-16

CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 608S - PLANTING 9-26-12

CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 609S - NATIVE SEEDING AND PLANTING FOR RESTORATION 1-4-16

MITIGATION RATES

APPENDIX F

SURVEYED TREE TYPES: ASH, CEDAR, ELM, OAK

19" DIAMETER AND ABOVE 100%

BELOW 19" DIAMETER

UNDESIRABLE / INVASIVE

SURVEYED TREE TYPES: LIGUSTRUM

ALL DIAMETERS NO MITIGATION REQUIRED

MITIGATION TALLY

APPENDIX F

TOTAL REQUIRED: 830.5"

19" DIAMETER AND ABOVE 141.5" @ 100% 141.5" TOTAL

BELOW 19" DIAMETER 1377" @ 50% 689" TOTAL

NON-APPENDIX F

830.5"

NONE SURVEYED

UNDESIRABLE / INVASIVE NO MITIGATION REQUIRED

MITIGATION TOTALS

MITIGATION REQUIRED

TOTAL CALIPER INCHES REMOVED 1518.5" (EXCLUDING UNDESIRABLE, INVASIVE, DEAD)

REQUIRED MITIGATION (REFER TO MITIGATION TALLY. THIS SHEET)

MITIGATION PROPOSED

TOTAL MITIGATION PROVIDED THROUGH PROPOSED TREES 252"

> 22 BO @ 3" = 66" 19 CE @ 3" = 57" 25 RB @ 2" = 50" 7 LCO @ 2" = 14" 13 ML @ 1.5" = 19.5" 7 MP @ 2" = 14" 10 PH @ 1.5" = 15" 11 TP @ 1.5' = 16.5"

** REMAINDER OF REQUIRED MITIGATION WILL BE PROVIDED THROUGH ENHANCED MAINTENANCE OF EXISTING TREES IMPACTED BY CONSTRUCTION OF THIS PROJECT AND PAYMENT TO TREE FUND DESIGNATED BY CoA REVIEW STAFF.





TEXAS PHASE

AUSTIN, ' : AUSTIN K BIKE AND TRAIL F ASSOCIATES, INC. CITY OF A FRIESE & / マ色 P NORTHERN CAPITAL 1120

MITIGATION, AND DETAILS

REMOVED TREE PLANTING NOTES

K-FRIESE (FIRM # 6535)



CITY OF AUSTIN PERMIT # SCALE N/A DATE SHEET

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