EXISTING DATA NOTES:

EXISTING TOPOGRAPHIC INFORMATION IS BASED ON ONE FOOT INTERVAL LIDAR DATA PROVIDED BY ST LOUIS COUNTY THAT WAS FLOWN THE SPRING OF 2015.

ALL OTHER EXISTING CONDITIONS ARE "TRACED" FROM AERIAL PHOTOGRAPHY. THEY ARE NOT TO BE CONSIDERED ACCURATE AND ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY OWNER OF ANY DISCREPANcies PRIOR TO COMMENCING WORK.

TRAIL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL ESTABLISH ALL REASONABLE BARRICADES, SIGNAGE, TRAIL CLOSURES, ETC., TO ENSURE SAFETY OF THE PUBLIC DURING THIS WORK.

2. ALL TRAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE "TYPICAL TRAIL CROSS SECTION AND TRAIL CROSS SECTION TYPES" A, B & C AS SHOWN ON SHEET L-1.4, L-1.6 & L-1.7, OTHER REQUIREMENTS AND DETAILS ON SHEETS L-1.8 THROUGH L-1.12.

3. CONTRACTORS SHALL BE RESPONSIBLE FOR RESTORING TO PRE-CONSTRUCTION CONDITION ANY SURFACES, STRUCTURES, SITE ELEMENTS SUCH AS STEPS, WALLS, BENCHES, RAILINGS, ETC., DAMAGED DUE TO THEIR WORK UNDER THIS CONTRACT, AT NO ADDITIONAL COST TO THE OWNER UNLESS AGREED TO IN WRITING BY BOTH PARTIES.

4. CARE MUST BE TAKEN AT ALL TIMES TO MINIMIZE / ELIMINATE ALL SITE IMPACTS TO SOIL AND VEGETATION OUTSIDE WHAT IS REQUIRED FOR THIS WORK.

5. SUBMIT TO OWNER 1 CF SIZE SAMPLE OF LIMESTONE TRAIL SURFACING MATERIAL FOR APPROVAL PRIOR TO PLACEMENT.
TYPICAL TRAIL DESIGN CROSS-SECTION

1. THE GRAPHIC ON THIS SHEET ILLUSTRATES A TYPICAL TRAIL CROSS-SECTION HIGHLIGHTING TREAD AND VEGETATION CLEARANCE ZONE WIDTHS.
2. IN SELECT SITUATION THE TRAIL WIDTH MAY BE MODIFIED IN RESPONSE TO THE TERRAIN OR SITE CONDITIONS.
3. SEE SPECIFICATIONS FOR FURTHER DETAILS ON TREAD AND CORRIDOR CLEARING AND TYPICAL TRAIL DESIGN CROSS-SECTIONS.
4. SEE SHEET L-6 & SPECIFICATIONS FOR RECOMMENDED BEST MANAGEMENT PRACTICES FOR EROSION CONTROL MEASURES.
5. AFTER COMPLETION OF ALL GRADING, THE TRAIL TREAD SHALL BE MECHANICALLY COMPACTED TO ITS SPECIFIED WIDTH USING A VIBRATORY PLATE, SHEEP'S FOOT, OR OTHER APPROVED EQUAL COMPACTOR.
6. CUT BRUSH AND SLASH MUST BE DISPOSED IN AN UPLAND LOCATION AND MUST BE KEPT OUT OF STREAMS, GULLIES, SWALES, WETLANDS, AND LOW AREAS. SEE SPECIFICATIONS FOR DETAILS.
7. NO EXCAVATION OR FILL PERMITTED IN WET & LOWLAND AREAS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSULT WITH THE OWNER PRIOR TO DOING ANY WORK WITHIN SUSPECTED WET & LOWLAND AREAS.

TRAIL BIDDING NOTES:
1. TREE REMOVAL, STUMP REMOVAL, BRUSH REMOVAL, AND LIMB TRIMMING IS INCLUDED IN THE CONTRACTOR'S UNIT BID PRICE FOR TRAIL CONSTRUCTION TYPES "A, B & C". (SEE SPECIFICATION FOR FURTHER DETAILS)
2. TRAIL TREAD GRADING AND COMPACTING IS INCLUDED IN THE CONTRACTORS UNIT BID PRICE FOR TRAIL CONSTRUCTION TYPES "A, B & C". (SEE SPECIFICATION FOR FURTHER DETAILS)
3. PUSHING ASIDE ROCKS OR FRACTURED STONE ENCOUNTERED WHILE GRADING THE TRAIL IS INCLUDED IN THE CONTRACTOR'S UNIT BID PRICE FOR TRAIL CONSTRUCTION TYPES "A, B & C". (SEE SPECIFICATIONS FOR FURTHER DETAILS)
4. GRADING THROUGH LOW SPOTS, FLATTER AREAS, EARTHEN PILES, LANDSLIDES, MISCELLANEOUS DEBRIS, AND FALLEN WOODY MATERIALS IS INCLUDED IN THE CONTRACTOR'S UNIT BID PRICE FOR TRAIL CONSTRUCTION TYPES "A, B & C". (SEE SPECIFICATIONS FOR FURTHER DETAILS)
5. GRADE REVERSALS ARE REQUIRED AT A MINIMUM EVERY 100 LF. GRADE REVERSALS ARE INCLUDED IN THE CONTRACTOR'S UNIT BID PRICE FOR TRAIL CONSTRUCTION TYPES "A, B & C". (SEE SPECIFICATIONS FOR FURTHER DETAILS)
**FIELD MEASUREMENT NOTES:**
1. MEASUREMENT AND PAYMENTS FOR TRAIL CONSTRUCTION TYPE IS BASED ON THE SLOPE AVERAGES AS DEPICTED IN THE TRAIL ALIGNMENT SECTION OF THIS PLAN SET AND IN THE TRAIL SLOPE ANALYSIS MAP (FOUND IN THE SPECS).
2. TRAIL TYPES AND QUANTITIES ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY FIELD QUANTITIES AND NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

**CONSTRUCTION NOTE:**
1. PARTIAL BENCH CUT IS ALLOWED WHEN DONE PROPERLY WITH A DOWNHILL RETAINING WALL AND COMPACTED BACKFILL. REFER TO PAGE 159 OF (TRAIL SOLUTIONS: IMBA'S GUIDE TO BUILDING BETTER SINGLETRACK).
2. GRADING THROUGH LOW SPOTS, FLATTER AREAS, EARTHEN PILES, LANDSLIDES, MISCELLANEOUS DEBRIS, AND FALLEN WOODY MATERIALS IS INCLUDED IN THE CONTRACTOR'S UNIT BID PRICE FOR TRAIL CONSTRUCTION TYPES "A, B & C". (SEE SPECIFICATIONS FOR FURTHER DETAILS)
3. CONTRACTOR IS EXPECTED TO CREATE FREQUENT GRADE REVERSALS REGARDLESS OF THE LOCAL LANDSCAPE. THIS MAY REQUIRE LOCALIZED TOPOGRAPHY MODIFICATIONS INCLUDING BUT NOT LIMITED TO RAISED TREAD, BORROW PITS AND SUMPS WHEN BUILDING THROUGH LANDSCAPES WITH LOW SLOPE ANGLES AND FLATTER AREAS SUCH AS TYPE "A" TRAIL.
4. UNLESS SHOWN ON A SPECIFIC DETAIL THE OUTSLOPE SHALL BE CONSTRUCTED AS SHOWN BELOW.

**NOTE:** CONTRACTOR CANNOT INVOICE FOR BOTH TRAIL CONSTRUCTION, TYPES A, B & C, AND CONSTRUCTED FEATURES OF A GIVEN LINEAR FOOT OF TRAIL.
BOULDER PLACEMENT AS NEEDED FOR TRAIL EDGE REINFORCEMENT

TYPICAL BREAKER RUN TRAIL CROSS SECTION

REGRADE EXISTING ERODED SLOPE FOR STABILITY

ADD EROSION CONTROL BLANKET AND SEED ON ALL GRADED AND UNSTABLE EXPOSED SOIL SURFACES

CRUSHER FINES CLASS V

TYPICAL BREAKER RUN TRAIL CROSS SECTION

BOULDER PLACEMENT AS NEEDED FOR TRAIL EDGE REINFORCEMENT

EROSION CONTROL BLANKET AND SEED

ANCHORING OF TRAIL EDGE AS NEEDED WITH LARGE BOULDERS

RECONSTRUCTED STONE STEPS, MATCH EXISTING STONE. +/- 20 STEPS. 

RECONSTRUCTED TRAIL

PROJECT #7 FEMA 305-8
NOT TO SCALE
CONSTRUCTION NOTE:
BACKFILL BEDDING MATERIAL SHALL BE 3'-6" OF 3/4" CRUSHED ROCK, THE SAME CRUSHED ROCK CAN BE USED FOR FILL BETWEEN THE SET ROCK/STONE.
10" MINIMUM ROCK/STONE SET DEPTH. SEAMS RUNNING IN THE DIRECTION OF TRAVEL SHALL BE MINIMIZED IN BOTH LENGTH AND WIDTH. SEAM WIDTH SHALL BE MINIMIZED AND SEAM STAGGERING SHALL BE USED WHERE POSSIBLE.

NOTE:
STONE SHALL EXTEND FAR ENOUGH UP THE SLOPE TO ENSURE WATER DOES NOT FLOW AROUND THE ROCK CHECK.

NOTES:
1. ALL DISTURBED AREAS NOT PART OF ACTIVE TREAD TO BE STABILIZED WITHIN 7 DAYS OF NOT BEING WORKED. SEE L-6 FOR DETAILS.
2. WHENEVER POSSIBLE USE NATIVE DUFF MATERIALS FOUND IN THE TRAIL CORRIDOR AS A MULCH FOR COVERING SOIL EXPOSED BY BACKSLOPE AND DOWNSLOPE CUTS. WOOD CHIPS MADE FROM WOODY MATERIAL CLEARED AS A RESULT OF THE CORRIDOR CLEARING ARE AN ACCEPTABLE ALTERNATIVE TO NATIVE DUFF MULCH.
3. FOR SLOPE ANGLES UNDER 3:1 USE TEMPORARY EROSION CONTROL SEED MIX AND FOR DISTURBED AREAS THAT ARE LACKING ADEQUATE NATIVE DUFF MATERIAL.
4. FOR SLOPE ANGLES 3:1 AND OVER USE PERMANENT EROSION CONTROL SEED MIX AND EROSION CONTROL BLANKET FOR LAND SLIDE AREAS AND AREAS OF HEAVY DISTURBANCE. THESE AREAS MUST BE APPROVED BY THE OWNER.
5. SEE SPEC SECTION 4.2 FOR SEED MIX TYPE.
6. AFTER COMPLETION OF ALL GRADING, THE TRAIL TREAD SHALL BE MECHANICALLY COMPACTED TO ITS SPECIFIED WIDTH USING A VIBRATORY PLATE, SHEEP'S FOOT, OR OTHER APPROVED EQUIPMENT.
7. CUT BRUSH AND SLASH MUST BE DISPOSED IN AN UPLAND LOCATION AND MUST BE KEPT OUT OF STREAMS, GULLIES, SWALES, WETLANDS, AND LOW AREAS. SEE SPECIFICATIONS FOR DETAILS.
8. NO EXCAVATION OR FILL PERMITTED IN WET & LOWLAND AREAS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSULT WITH THE OWNER PRIOR TO DOING ANY WORK WITHIN SUSPECTED WET & LOWLAND AREAS.

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OVERALL 91' X 109' DITCH CHECK SPACING 2'-0" FOR MULTIPLE OR SERIES OF CHECKS THE BOTTOM OF UPPER CHECK SHOULD BE SAME ELEVATION AS THE TOP OF THE LOWER CHECK TO PROVIDE FOR POOLING.

WOOD FIBER BLANKET DETAIL
COIR ROLL DETAIL
ROCK CHECK DETAIL

EROSION CONTROL DETAILS

EROSION CONTROL DETAILS

EROSION CONTROL DETAILS

EROSION CONTROL DETAILS
NOTE: CONTRACTOR CANNOT INVOICE FOR BOTH TRAIL CONSTRUCTION, TYPES A, B & C, AND CONSTRUCTED FEATURES OF A GIVEN LINEAR FOOT OF TRAIL.

NOTE: SEE BID WORKSHEET B FOR AN ESTIMATED SUMMARY OF CONSTRUCTED FEATURE QUANTITIES.