

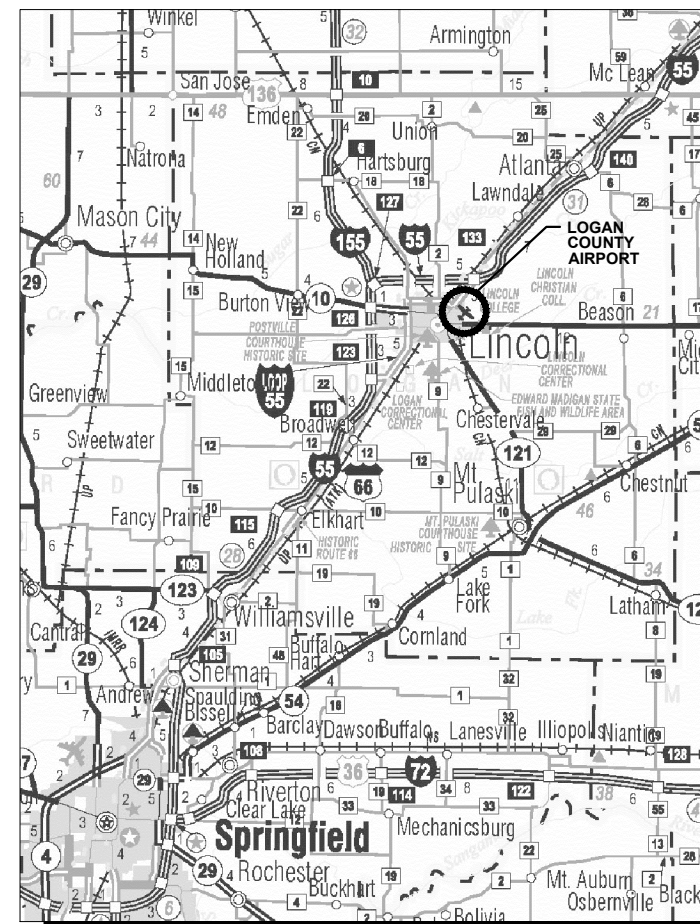
**CONSTRUCTION PLANS**

**CLEARING TREES IN THE APPROACH  
TO RUNWAY ENDS 21 AND 14**

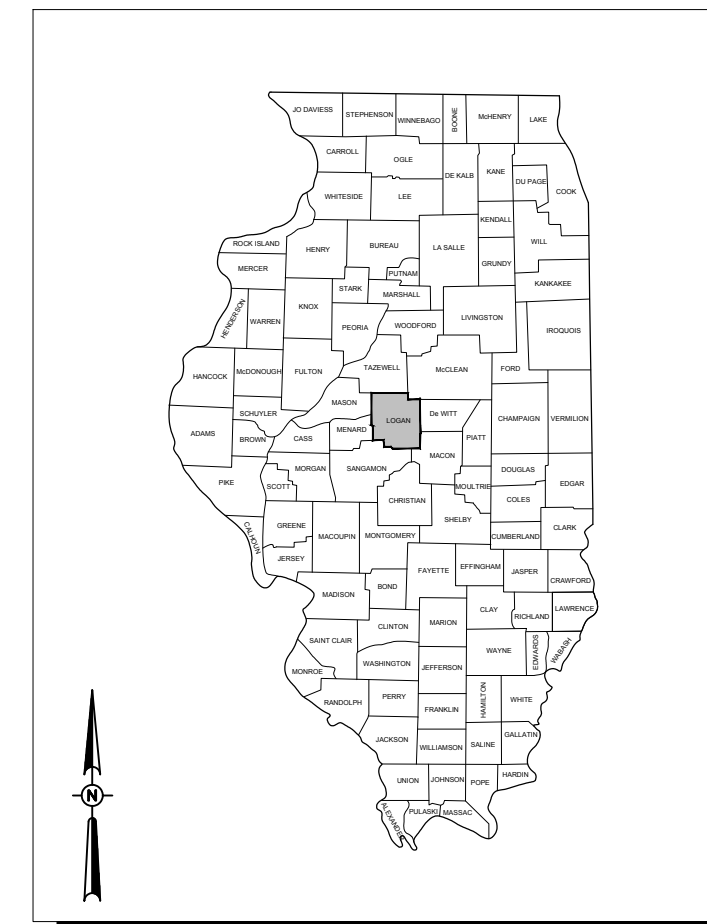
**LOGAN COUNTY BOARD  
LOGAN COUNTY AIRPORT (AAA)  
LINCOLN, ILLINOIS**

**IDA PROJECT NO. AAA-4215**

VICINITY MAP



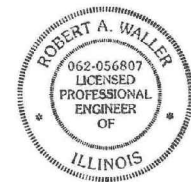
LOCATION MAP



**NOTICE TO CONTRACTORS AND BIDDERS**

THESE CONSTRUCTION PLANS RELY UPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL ONLY BE USED IN COMBINATION WITH ALL CONTRACT DOCUMENTS.

No.	Issue/Description	Sheets Changed	Date	By



*Robert A. Waller*  
Robert A. Waller, P.E. Lic. Exp. 11/30/2014  
August 19, 2014  
Project Manager Date

Date of Plans  
August 19, 2014

Plans Prepared By:

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*Robert D. Farmer* 6-17-14  
Robert D. Farmer Date  
Chairman

**GENERAL NOTES**

1. **UTILITY LOCATES**  
ALL UTILITY CABLES AND LINES SHALL BE LOCATED BY THE RESPECTIVE UTILITY. CONTACT JULIE (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS) FOR UTILITY INFORMATION, PHONE: 1-800-892-0123. CONTACT AIRPORT DIRECTOR/MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND/OR UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVEGROUND UTILITIES.
2. THE LOCATION, SIZE, AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE OWNER'S REPRESENTATIVE AND/OR THE RESIDENT ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
3. THE RULES, REGULATIONS, AND SPECIFICATIONS ENUMERATED HEREIN SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS. THEY SHALL NOT PROHIBIT THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES OF MATERIAL THAN ARE SPECIFIED HEREIN.
4. THE CONTRACTOR SHALL COORDINATE HIS START OF WORK OPERATIONS IN ADVANCE WITH THE RESIDENT ENGINEER AND THE AIRPORT MANAGEMENT. THE AIRPORT MANAGEMENT SHALL NOTIFY THE IMPACTED PROPERTY OWNERS THAT TREE CLEARING AND GROUND SURFACE RESTORATION (SHAPING, SEEDING, MULCHING, ETC.) WILL BE ACCOMPLISHED WITHIN THE LIMITS OF THE AVIGATION EASEMENT THAT HAS BEEN GRANTED OVER THEIR PROPERTY.
5. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, AND TRANSPORTATION NECESSARY TO CONSTRUCT ALL ELEMENTS OF THE PROJECT AS DESCRIBED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS FOR HAULING ON PUBLIC ROADS, AS APPLICABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGES TO ANY PAVEMENTS (PUBLIC OR PRIVATE) CAUSED BY HIS/HER CONSTRUCTION EQUIPMENT OR PERSONNEL.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT, PRESERVE AND REPAIR THE EXISTING TURF, LANDSCAPING, UTILITIES, DRAINAGE, PAVEMENTS AND ROADWAY PAVEMENTS AND STRUCTURES DISTURBED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS, STAGING AREA AND CONSTRUCTION ACCESS ROUTES AT ALL TIMES. THE CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ANY DAMAGE TO TURF LANDSCAPING, UTILITIES, DRAINAGE, PAVEMENTS OR ROADWAY PAVEMENTS AND STRUCTURES AT NO ADDITIONAL COST TO THE CONTRACT.
8. ALL TURF AREAS OUTSIDE OF THE TREE REMOVAL LIMITS DISTURBED BY THE PROJECT SHALL BE RESTORED BY SMOOTH GRADING AND SEEDING AND MULCHING OR SODDING IN ACCORDANCE WITH THE SPECIFICATIONS. THIS WORK SHALL NOT BE MEASURED DIRECTLY, BUT SHALL BE INCLUDED IN THE COST OF OTHER PROJECT ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
9. ALL MULCH MUST BE SPREAD EVENLY OVER THE DIRECTED LOCATIONS.
10. ALL TREES AND SPOIL MATERIAL RESULTING FROM THE CLEARING SITES SHALL BE DISPOSED OF OFF THE PROPERTY BY THE CONTRACTOR.
11. THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL FOR ALL SALVAGEABLE MATERIAL REMOVED ON THE PROJECT.
12. BURNING OF THE SPOIL MATERIAL WILL NOT BE ALLOWED.
13. THE PROJECT PAY ITEMS ARE INTENDED TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THESE PLANS. ALL INCIDENTAL WORK REQUIRED TO COMPLETE THE PROJECT TO THE SATISFACTION OF THE RESIDENT ENGINEER IS TO BE INCLUDED IN THE COSTS OF PERFORMING THESE ITEMS.
14. ALL COSTS ASSOCIATED WITH DISPOSING OF THE REMOVED TREES AND SPOIL MATERIAL SHALL BE INCLUDED IN THE RESPECTIVE PAY ITEM.
15. THE OWNER'S DESIGNATED REPRESENTATIVE SHALL OBSERVE THAT EACH TREE HAS BEEN SUFFICIENTLY REMOVED PRIOR TO APPROVAL FOR PAYMENT.
16. THE CLEARING OPERATIONS SHALL NOT IMPEDE OR OBSTRUCT ANY DRAINAGE IN THE AREA. ANY DISTURBANCE OF DRAINAGE PATHS RESULTING FROM THE CLEARING OPERATIONS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE CONTRACT BY THE CONTRACTOR.
17. THE LOCATIONS AND LIMITS OF SEEDING OR SODDING WILL BE AS DIRECTED IN THE FIELD BY THE OWNER'S DESIGNATED REPRESENTATIVE.
18. CONTRACTOR IS REQUIRED TO PROVIDE THEIR OWN RESTROOM FACILITIES.
19. **QUANTITIES**  
PAYMENT WILL BE MADE UNDER THE ITEM NUMBERS, DESCRIPTIONS AND UNITS NOTED IN THE SUMMARY OF QUANTITIES TABLE IN ACCORDANCE WITH THE BASIS OF PAYMENT FOR EACH RESPECTIVE WORK ITEM COMPLETED AND ACCEPTED BY THE ENGINEER.
20. **MATERIAL CERTIFICATION**  
MATERIALS TO BE INCORPORATED INTO THE PROJECT CANNOT BE USED WITHOUT PRIOR APPROVAL. ALL MATERIALS TO BE USED IN THE PROJECT MUST BE SUBMITTED TO THE RESIDENT ENGINEER FOR APPROVAL. USE OF MATERIALS WITHOUT PRIOR APPROVAL AND ULTIMATELY DETERMINED TO BE UNACCEPTABLE BY THE ILLINOIS DIVISION OF AERONAUTICS ARE SUBJECT TO REMOVAL AND/OR NON-PAYMENT.

SUMMARY OF QUANTITIES					
ITEM NO.	ITEM CODE	DESCRIPTION	UNIT	TOTAL QUANTITY	AS-BUILT QUANTITY
1	AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	
2	AR151413	TREE TRIMMING	L.S.	1	
3	AR151420	CLEARING TREES 0-2.5' BUTT. DIA.	EA.	8	
4	AR151429	STUMP REMOVAL 0.0-2.5 FT. DIA.	EA.	8	
5	AR151430	CLEARING TREES 2.5'-5' BUTT DIA.	EA.	3	
6	AR151431	STUMP REMOVAL 2.5 - 5.0 FT. DIAM.	EA.	3	
7	AR902100	PLANT TREE	EA.	8	

INDEX OF SHEETS	
SHEET NO.	SHEET TITLE
1	COVER SHEET
2	SUMMARY OF QUANTITIES SHEET INDEX AND GENERAL NOTES
3	SCOPE OF WORK AND CONSTRUCTION SAFETY AND PHASING NOTES
4	RUNWAY END 14 TREE TRIMMING AND CLEARING PLAN
5	RUNWAY END 21 TREE TRIMMING AND CLEARING PLAN
6	TREE TRIMMING, CLEARING, AND PLANTING NOTES AND DETAILS



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Illinois Licensed  
Professional Service Corporation  
#184-001084

LOGAN COUNTY AIRPORT  
LINCOLN, ILLINOIS

CLEARING TREES IN  
THE APPROACH TO  
RUNWAY ENDS 21  
AND 14

IDA No: AAA- 4215

Contract No. LO029

NO.	DATE	DESCRIPTION		
		LAY	DWN	REV

ISSUE: AUGUST 19, 2014  
PROJECT NO: 12A0108  
CAD FILE: C-002-FLP.DWG  
LAYOUT BY: MLH 04/28/14  
DRAWN BY: MLH 04/28/14  
REVIEWED BY: RAW 05/01/14  
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SHEET TITLE

SUMMARY OF  
QUANTITIES, SHEET  
INDEX, AND  
GENERAL NOTES

**CLEARING TREES IN  
THE APPROACH TO  
RUNWAY ENDS 21  
AND 14**

IDA No: AAA- 4215

Contract No. LO029


NO.	DATE	DESCRIPTION		
		LAY	DWN	REV

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CAD FILE: C-003-SOW.DWG

LAYOUT BY: MLH 04/28/14

DRAWN BY: MLH 04/28/14

REVIEWED BY: RAW 05/01/14

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SHEET TITLE

**SCOPE OF WORK  
AND CONSTRUCTION  
SAFETY AND  
PHASING NOTES**

**SCOPE OF WORK**

THE PROJECT SHALL CONSIST OF CLEARING AND TRIMMING TREES WITHIN THE APPROACH TO RUNWAY ENDS 14 AND 21. THE WORK SHALL REQUIRE THE TRIMMING OF TREES OF VARYING DIAMETER, CLEARING TREES, STUMP REMOVAL, DISPOSAL OF ALL TREES AND DEBRIS OFF THE SITE, SITE RESTORATION, PLANTING REPLACEMENT TREES AS SPECIFIED, AND INCIDENTAL WORK.

**GENERAL NOTES**

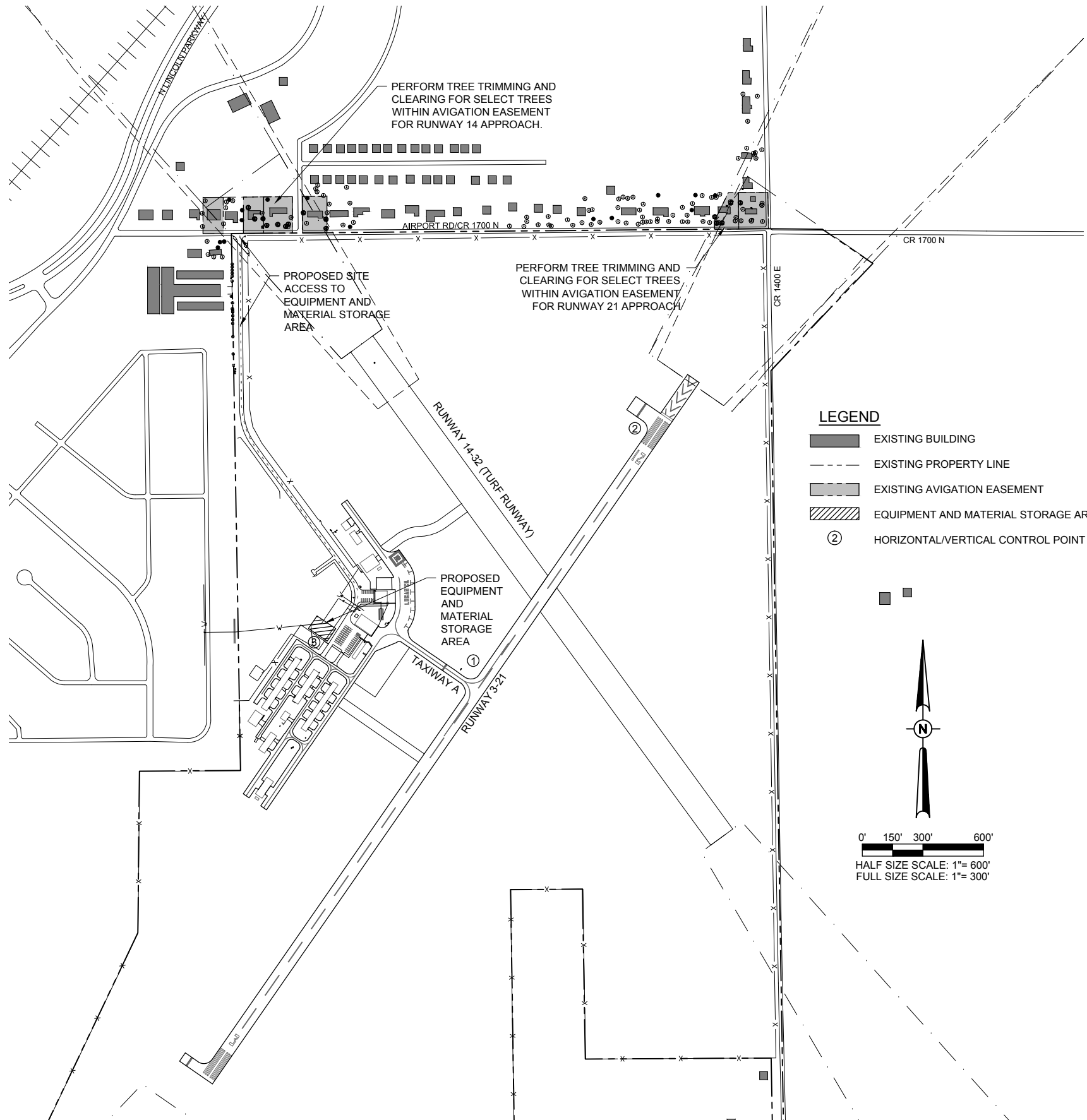
1. THE SCOPE OF WORK SHEET IS INTENDED ONLY AS A GENERAL DESCRIPTION OF WORK ITEMS AND THEIR APPROXIMATE LOCATIONS AND LIMITS, FOR THE PURPOSE OF UNDERSTANDING THE SCOPE OF THE PROJECT. THIS SHEET SHALL NOT BE USED AS A CONSTRUCTION PLAN. REFER TO THE FOLLOWING PLAN SHEETS FOR DETAILED CONSTRUCTION REQUIREMENTS, LOCATIONS, AND ITEMS OF WORK.
2. ACCESS TO THE PROJECT FOR ALL HAULING OF MATERIALS AND EQUIPMENT SHALL BE RESTRICTED TO THE DESIGNATED SITE ACCESS. ACCESS TO THE WORK AREAS FROM THE EQUIPMENT AND MATERIAL STORAGE AREA SHALL BE COORDINATED WITH THE OWNER'S DESIGNATED REPRESENTATIVE.
3. NO EQUIPMENT SHALL BE PERMITTED TO CROSS OR USE ANY EXISTING PAVEMENT OUTSIDE THE CONSTRUCTION LIMITS, GENERAL PROJECT AREA OR HAUL ROUTE.

**SAFETY NOTES**

1. ALL PROVISIONS OF THE LATEST EDITION OF FAA ADVISORY CIRCULAR AC 150/5370-2 (CURRENT EDITION), "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", APPLY TO THIS CONTRACT, EXCEPT AS MODIFIED BY THESE CONSTRUCTION PLANS, OR AS MODIFIED BY THE OWNER THROUGH THE RESIDENT ENGINEER AT THE PRECONSTRUCTION CONFERENCE.
2. CONTRACTOR EQUIPMENT, VEHICLES, AND PROJECT MATERIALS SHALL BE STORED AT THE EQUIPMENT AND MATERIAL STORAGE AREA SHOWN ON THE PLAN VIEW, EXCEPT AS OTHERWISE PROVIDED FOR AT THE PRECONSTRUCTION CONFERENCE.
3. THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 60 FEET, WHICH IS EXPECTED TO BE A CRANE AND/OR A BUCKET TRUCK USED DURING TREE TRIMMING AND REMOVAL. THE CRANE OR BUCKET TRUCK SHALL BE USED DURING THE DAYLIGHT HOURS AND VFR CONDITIONS ONLY AND SHALL BE LOWERED WHEN NOT IN USE, DURING THE HOURS BETWEEN SUNSET AND SUNRISE, AND/OR DURING IFR WEATHER CONDITIONS.
4. ALL CRANES, BOOM TRUCKS, AND OTHER CONSTRUCTION EQUIPMENT OPERATING ON THE PROJECT IS REQUIRED TO DISPLAY A 3' SQUARE INTERNATIONAL ORANGE AND WHITE CHECKERBOARD FLAG PROPERLY LOCATED AND ROTATING BEACON/STROBE AS SPECIFIED IN AC 150/5210-5, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT" LATEST EDITION.
5. ALL CONTRACTOR PERSONNEL SHALL HAVE IDENTIFICATION MAKING IT OBVIOUS THEY ARE A MEMBER OF THE CONSTRUCTION CREW. THE CONTRACTOR, HIS EMPLOYEES AND EQUIPMENT SHALL BE RESTRICTED TO THE PROJECT WORK AREAS.
6. OPEN TRENCHES, EXCAVATIONS, AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHOULD BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING RED LIGHTS DURING HOURS OF RESTRICTED VISIBILITY AND/OR DARKNESS.
7. CONTRACTOR SHALL MAINTAIN FLASHERS, SIGNS AND/OR BARRICADES AS REQUIRED BY THE PLANS, CITY OR COUNTY REGULATIONS OR CONTRACTOR ACTIVITIES. CONTRACTOR SHALL OBTAIN ANY AND ALL REQUIRED LOCAL PERMITS UNLESS SPECIFIED OTHERWISE.
8. THE CONTRACTOR SHALL UTILIZE WATER AND/OR CHEMICALS APPROVED BY THE RESIDENT ENGINEER AS NECESSARY TO CONTROL DUST.
9. A NOTICE TO AIRMEN (NOTAM) WILL BE ISSUED TO INDICATE THAT MEN AND EQUIPMENT WILL BE WORKING IN THE APPROACH TO THE RESPECTIVE RUNWAY ENDS. IT IS THE RESPONSIBILITY OF THE AIRPORT DIRECTOR/MANAGER TO ISSUE ALL NOTAMS REQUIRED THROUGHOUT THE CONTRACT TIME.
10. UNLESS SPECIFIED OTHERWISE, COST FOR THE ABOVE IS TO BE CONSIDERED INCIDENTAL TO THE PROJECT. SEPARATE PAYMENT SHALL NOT BE MADE.

**HORIZONTAL AND VERTICAL CONTROL DATA**

NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
1	NGS BRASS DISC "LINCPORT"	1272840.988	252895.244	587.91
2	NGS BRASS DISC "LINCPORT AZ MK"	1274032.357	2529777.821	591.81
3	CHISELED "X" ON EAST FLANGE BOLT, FIRE HYDRANT	1272954.055	2528188.973	592.57
4	CHISELED SQUARE ON NE CORNER OF LIGHT BASE	1272432.497	2528086.399	591.16



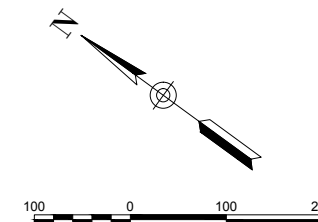


**CLEARING TREES IN THE APPROACH TO RUNWAY ENDS 21 AND 14**

IDA No: AAA- 4215

Contract No. LO029

RUNWAY END 14 TREE CLEARING AND TRIMMING SCHEDULE									
ID	SPECIES	APPROX. TREE DIAMETER (IN.)	DISPOSITION	GROUND ELEVATION	HEIGHT ABOVE GROUND (FT.)	AMOUNT TO TRIM (FT.)	TREE HEIGHT ABOVE GROUND AFTER TRIMMING (FT.)	TOP ELEVATION AFTER TRIMMING (FT.)	PROPERTY OWNER
1411	OAK	20	TRIM AND SHAPE	591.3	54	12	42	633	EWALD
1412	OAK	28	TRIM AND SHAPE	591.2	53	15	38	629	EWALD
1413	CONIFEROUS (SPECIES UNKNOWN)	18	REMOVE AND REPLACE	590.8	48	---	---	---	EWALD
1416	LOCUST	36	REMOVE AND REPLACE	589.9	51	---	---	---	MARA
1417	LOCUST	24	REMOVE AND REPLACE	589.8	46	---	---	---	MARA
1418	LOCUST	30	REMOVE AND REPLACE	589.9	45	---	---	---	MARA
1419	LOCUST	24	REMOVE AND REPLACE	590.5	35	---	---	---	MARA
1422	DECIDUOUS (SPECIES UNKNOWN)	14	REMOVE	591.1	39	---	---	---	MORROW
1428	DECIDUOUS (SPECIES UNKNOWN)	18	REMOVE	590.3	42	---	---	---	MORROW
1429	DECIDUOUS (SPECIES UNKNOWN)	30	REMOVE	592.0	49	---	---	---	MORROW



**LEGEND**

- DECIDUOUS/CONIFEROUS TREE TO BE REMOVED OR TRIMMED (AS NOTED)
- DECIDUOUS/CONIFEROUS TREE TO REMAIN
- EXISTING BUILDING
- EXISTING PROPERTY LINE
- EXISTING AVIGATION EASEMENT

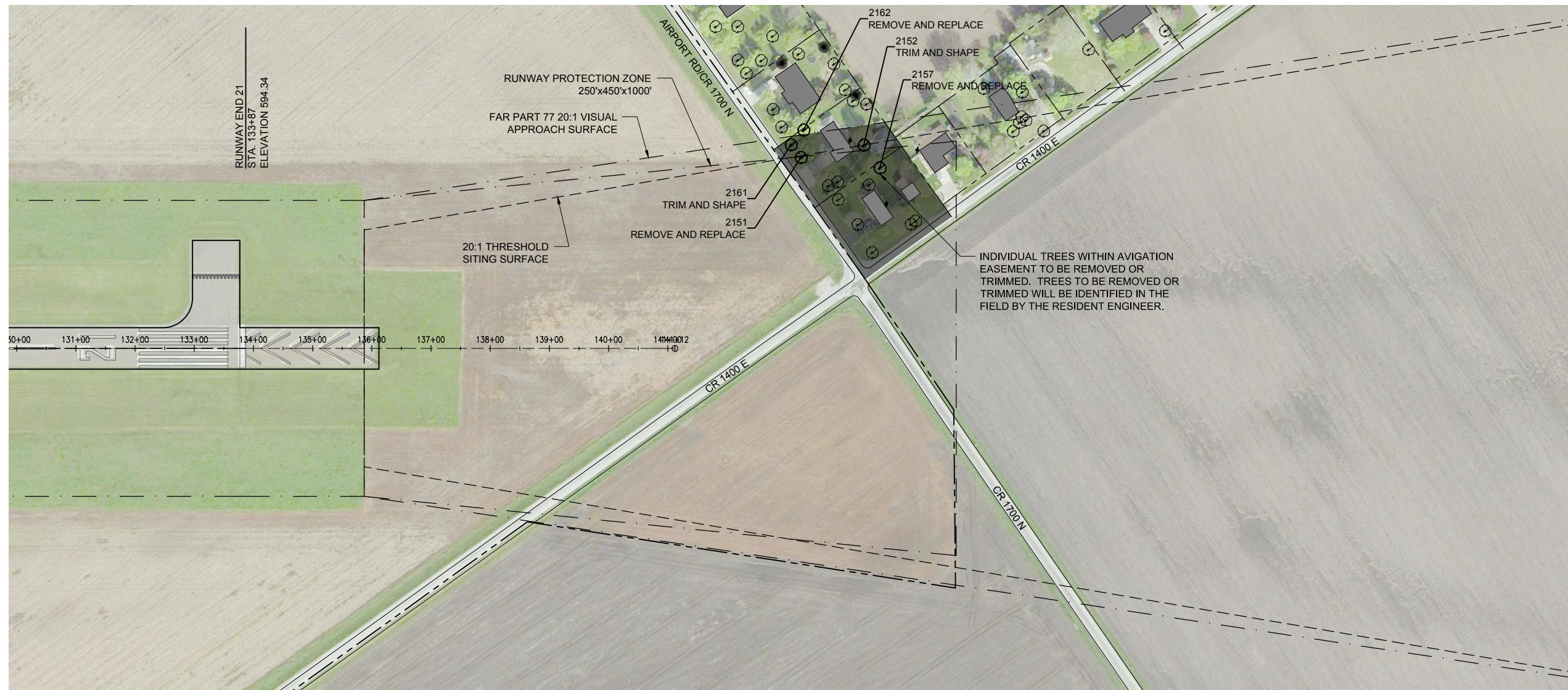
**NOTES**

- SEE 'TREE TRIMMING, CLEARING AND PLANTING NOTES AND DETAILS SHEET' FOR ADDITIONAL REQUIREMENTS.

NO.	DATE	DESCRIPTION		
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SHEET TITLE

**RUNWAY END 14  
TREE TRIMMING AND  
CLEARING PLAN**

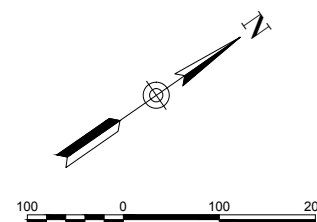


INDIVIDUAL TREES WITH AVIGATION EASEMENT TO BE REMOVED OR TRIMMED. TREES TO BE REMOVED OR TRIMMED WILL BE IDENTIFIED IN THE FIELD BY THE RESIDENT ENGINEER.

RUNWAY END 21 TREE CLEARING AND TRIMMING SCHEDULE									
ID	SPECIES	APPROX. TREE DIAMETER (IN.)	DISPOSITION	GROUND ELEVATION	HEIGHT ABOVE GROUND (FT.)	AMOUNT TO TRIM (FT.)	TREE HEIGHT ABOVE GROUND AFTER TRIMMING (FT.)	TOP ELEVATION AFTER TRIMMING (FT.)	PROPERTY OWNER
2151	SOFT MAPLE	27	REMOVE AND REPLACE	591.8	43	---	---	---	SHARRON
2152	OAK	40	TRIM AND SHAPE	593.1	45	6	39	632	SHARRON
2157	MAPLE	20	REMOVE AND REPLACE	592.9	45	---	---	---	ANDERSON
2161	MAPLE	18	TRIM AND SHAPE	592.1	44	7	37	629	SHARRON
2162	SOFT MAPLE	20	REMOVE AND REPLACE	592.8	47	---	---	---	SHARRON

**NOTES**

- SEE 'TREE TRIMMING, CLEARING AND PLANTING NOTES AND DETAILS SHEET' FOR ADDITIONAL REQUIREMENTS.



**LEGEND**

- DECIDUOUS/CONIFEROUS TREE TO BE REMOVED OR TRIMMED (AS NOTED)
- DECIDUOUS/CONIFEROUS TREE TO REMAIN
- EXISTING BUILDING
- EXISTING PROPERTY LINE
- EXISTING AVIGATION EASEMENT

**CLEARING TREES IN THE APPROACH TO RUNWAY ENDS 21 AND 14**

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**RUNWAY END 21 TREE TRIMMING AND CLEARING PLAN**

**TREE PLANTING**

- TREES SHALL BE PLANTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JANUARY 1, 2012, SECTION 253, PLANTING WOODY PLANTS.
- TREES SHOWN TO BE REPLACED (MITIGATED) ON THE PLANS SHALL BE REPLACED WITH A TREE FROM THE LIST OF ACCEPTABLE MITIGATION TREES IN THE SPECIAL PROVISIONS.
- TREES SUPPLIED TO THE PROJECT SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
  - TREES SHALL HAVE A STRAIGHT TRUNK WITH SYMMETRICAL CROWN.
  - TREES SHALL HAVE A SUBSTANTIAL, SINGLE, CENTRAL LEADER.
  - TREE BARK SHALL NOT BE DISCOLORED, SUNKEN, OR SWOLLEN, AND SHALL BE FREE OF CUTS, SCRAPES, OR OTHER DAMAGE.
  - TREES SHOWING GALLERIES, SUNSCALD, OR FROST DAMAGE WILL NOT BE ACCEPTED.
  - THE CALIPER OF THE TREE SHALL BE IN PROPORTION TO THE ROOTBALL.
  - TREES WITH GIRDLING ROOTS WRAPPING AROUND THE TRUNK OR OTHERWISE ROOTBOUND WILL NOT BE ACCEPTED.
  - TREE TRUNKS SHALL NOT BE MORE THAN 10" OFF CENTER.
  - TREES SHALL BE FREE OF CROSSING BRANCHES AND BRANCHES GROWING TOO CLOSE TO ONE ANOTHER.
  - FRESHLY PRUNED TREES WILL NOT BE ACCEPTED.
- AN APPROVED PRE-EMERGENT TREATMENT MAY BE USED PRIOR TO THE APPLICATION OF THE WEED BARRIER FABRIC BUT MAY NOT BE USED IN LIEU OF THE WEED BARRIER FABRIC.

**TREE TRIMMING AND SHAPING**

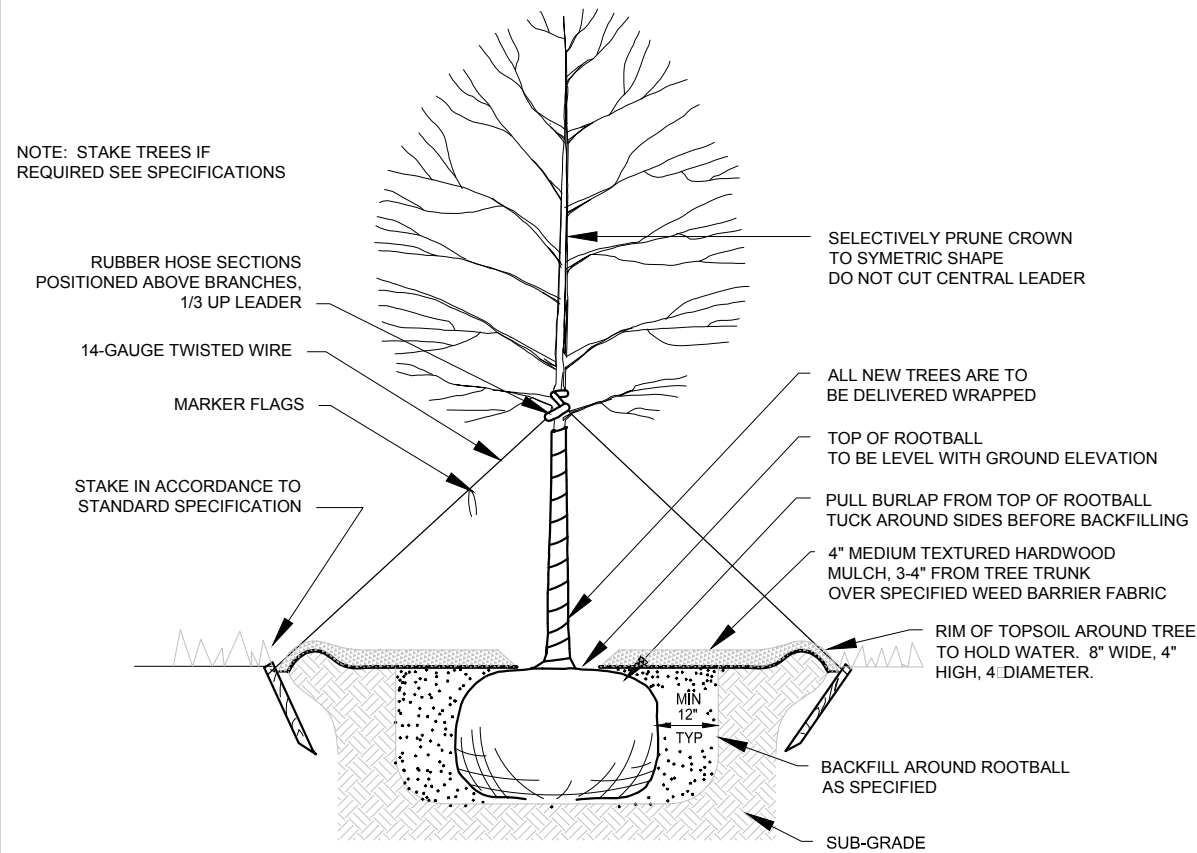
- TREE TRIMMING AND SHAPING SHALL BE COMPLETED BY AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA).
- TRIMMING SHALL BE TO THE STATED ELEVATIONS AND SHALL RESULT IN A TREE UNIFORM IN APPEARANCE AND SHAPE. BOTH THE CONTRACTOR AND THE RESIDENT PROJECT REPRESENTATIVE (RPR) SHALL OBSERVE AND DOCUMENT THE BEGINNING AND END ELEVATIONS OF THE RESPECTIVE TREE BEING TRIMMED TO CONFIRM THE PROPOSED LIMITS ARE MET.
- ALL DEBRIS AND LOOSE VEGETATION GENERATED FROM THE TRIMMING ACTIVITIES SHALL BE COLLECTED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE DISTURBED AREAS SHALL BE RAKED TO LEAVE THE PROPERTY IN A CONDITION COMPARABLE TO THAT WHICH EXISTED PRIOR TO THE START OF TRIMMING AND SHAPING OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE THE ACTIVITIES WITH BOTH THE HOMEOWNER AND THE RPR ON THE PROJECT, FOR THE AIRPORT.
- THE TRIMMING AND SHAPING SHALL BE COMPLETED IN ACCORDANCE WITH PAY ITEM AR151413, PER LUMP SUM.

**CLEARING**

- ALL TREE CLEARING SHALL BE IN ACCORDANCE WITH ITEM 151. ALL DEBRIS AND LOOSE VEGETATION SHALL BE COLLECTED AND DISPOSED OF OFFSITE BY THE CONTRACTOR.
- CLEARING SHALL BE ACCOMPLISHED BETWEEN OCTOBER 1 AND MARCH 31.

**STUMP REMOVAL**

- ALL STUMPS REMAINING AFTER THE REMOVAL OF THE RESPECTIVE TREE SHALL BE REMOVED BY GRINDING ONLY. GRINDING SHALL CONTINUE TO A DEPTH OF 12" BELOW THE ADJACENT GRADE.
- ALL DEBRIS, MULCH, ETC. RESULTING FROM THE GRINDING SHALL BE REMOVED FROM THE VOID CREATED BY THE GRINDING. THE SPOIL MATERIAL SHALL BE COLLECTED AND REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- THE VOID RESULTING FROM THE STUMP REMOVAL SHALL BE BACKFILLED USING TOPSOIL MEETING THE REQUIREMENTS OF ITEM 905, AND PLACED IN ACCORDANCE WITH THE SAME. THE MATERIAL SHALL BE FROM OFF-SITE. THE DISTURBED AREA SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH ITEM 901 AND 908, RESPECTIVELY.
- IF THE STUMP REMOVAL IS REQUIRED IN AN AREA ADJACENT TO A PROPOSED TREE PLANTING, THE BACKFILL, GRADING, SEEDING AND MULCHING MAY BE ACCOMPLISHED AFTER THE INSTALLATION OF THE PROPOSED TREE. THERE SHALL BE NO ADDITIONAL COMPENSATION SHOULD AN AREA BE GRADED, SEEDED AND MULCHED PRIOR TO THE INSTALLATION OF A TREE THAT IS DISTURBED AND REQUIRED TO BE ADDITIONALLY ADDRESSED.



**TREE PLANTING DETAIL**  
NOT TO SCALE

**CLEARING TREES IN THE APPROACH TO RUNWAY ENDS 21 AND 14**

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SHEET TITLE

**TREE TRIMMING, CLEARING, AND PLANTING NOTES AND DETAILS**