# DISTRIBUTION AND TRANSMISSION LINE CLEARING AND

TREES AND VEGETATION WILL BE CLEARED TO REQUIRED CLEARANCES FOR NEW CONSTRUCTION OF FACILITIES. THE CONTRACTOR IS RESPONSELE FOR THE CLEARING OF THE RIGHT-OF-WAY. IT IS VERY IMPORTANT THAT THE CLEARING BY FLOWER APPLIATERY, AS CLEARING BY FOR YOUNG APPLIATERY, AS CLEARING FOR COMPAPY MY NOT BE AS READLY ACCESSBLEY/AWALARIF TO THESE AREAS IN THE CITUTE. ALL TREES SHOULD BE TREMMED, REMOVED, OR CHEMICALLY TREATED PER SPECIFICATIONS AND AS THEY ARE LISTED IN TIME DOCUMENT.

- PRIOR TO PERFORMING ANY WORK A VIDEO SHOWING EXISTING TREES AND VEGETATION FOR ENTIRE LENGTH AND WIDTH OF THE RIGHT-OF-WAY SHALL RE TAXEN AND 2 COPIES MADE AND STORED UNTIL THE FIVAL PAYMENT IS MADE.

  MADE.
- THE CONTRACTOR'S ARBORIST SHALL IDENTIFY ALL TREES BY HEIGHT, DIAMFTER SPECIES, LOCATION AND GENERAL HEALTH. THE ARBORIST TO IDENTIFY ANY TREE THAT IS ENDANGERED BY FEDERAL STATE OR COUNTY LAW. IDENTIFY ALL TREES FOR REMOVAL TRIMMINE, ROOT AND PUNING ETC PRIOR TO PERFORMING WORK. PROVIDE THE CITY WITH SKETCH OF ALL TREES AND PLANT GROWTH SHOWN.

### GENERAL TREE TRIMMING GUIDELINES

LOW GROWING SHRUBS — SHRUBS WHICH WILL NOT INTERFERE WITH ACCESS, OPERATION OR MAINTENANCE OF THE LINE, SHALL BE LEFT UNDISTURBED.

SLASH — SLASH MAY BE CHIPPED AND BLOWN ON THE RIGHT-OF-WAY IF SO SPECIFIED IF CHIPPING IS NOT POSSIBLE DUE TO TERRAIN OR OTHER CIRCUMSTANCES, THE SLASH WILL BE LOPPED AND SCATTERED ON DUTER LIMITS OF RIGHT-OF-WAY SO INTER CAPECA FOR CREWS WILL NOT BE INHIBITED OR HAUSED AWAY TO A LOSS DUMP, STANDARD FRE HAZARD REDUCTION PRACTICES WILL BE EMPLOYED, SUCH AS REMOVING LADDER FUELS.

CUITING TREES OUTSIDE THE RICHT-OF-WAY — DEAD TREES BEYOND THE RIGHT-OF-WAY WHICH WOULD STRIKE THE LINE IN FALLING SHALL BE REMOVED. LEANING TREES BEYOND THE RICHT-OF-WAY WHICH WOULD STRIKE THE LINE IN FALLING AND WHICH WOULL RIGHTS TOPPING IF NOT REMOVED, SHALL EITHER BE REMOVED OR TOPPED, THE LANDOWNERS PERMISSION SHALL BE RECEIVED PRIOR TO CUITING TREES OUTSIDE OF THE RIGHT-OF-WAY.

PRUNING STANDARDS AND PRACTICES — ALL PRUNING PRACTICES WILL FOLLOW MODERN GUIDELINES AS PUBLISHED BY THE INTERNATIONAL ASSOCIATION OF ARBOROLUTURE (ISA) STANDARDS UNLESS A LANDOWNER MAKES A WRYTEN YELDEST OTHERWISE REFER TO AMSI ADDO (1995), INTERNATIONAL SOCIETY OF ARBOROLUTURE TIRE PRUNING STANDARDS (1995), AND PRUNING TREES ARE ELECTING UTILITY LINES (SHIGO-1990). CORRECT TREE TRIMMING SHOULD PROMOTE TREE BROWNE AWAY FROM ELECTRICAL CONDUCTORS, PROVIDE LONGER PERCOSO FO. CLARANCE, AND REDUCE TUTILITY WORK.

### HERBICIDE SPECIFICATION

REGULATIONS

REFUSE DISPOSA-

- SENERAL THE USE OF HERBICIDES IS AN INTEGRAL PART OF A VEGETATION MANAGEMENT PROGRAM, HERBICIDE APPLICATIONS MILL BE PERFORMED ACCORDING TO FEDERAL, STATE AND LOCAL REQUILATIONS, HERBICIDE PRODUCTS WILL BE USED CONSISTENT WITH THEIR LABELIES THE LAW, HERBICIDE APPLICATIONS WILL BE JURISUED AS A VEGETATION MANAGEMENT TOOL WHERE POSSIBLE, ALL HERBICIDE PRODUCTS, MIXT'S AND APPLICATIONS USUST BE APPRICATIONS EQUITE WHITTEN PERMISSION FROM THE PROPERTY OWNER, APPLICATIONS MUST USE ENTREME CAUTION WHEN APPLICATION FROM THE PROPERTY OWNER, APPLICATIONS MUST USE ENTREME CAUTION WHEN APPLICATION AND THE APPLICATION OF THE PROPERTY OWNER, APPLICATIONS MUST USE ENTREME CAUTION WHEN APPLICATION AND THE APPLICATION OF THE PROPERTY OWNER, APPLICATION, THE LABEL WILL SPELL OUT THESE CONCERNS AND THE APPLICATION/CONTRACTOR STATES OWNERS. FOR THEM
- INFRIENDED APPLICATIONS THE COMPANY MAKING THE APPLICATION IS HISPONSEN FOR THE PURCHAST, STORAGE, RECORD RECEIVED AND DISPOSAL OF HERBICIDES, HERBICIDES WILL ONLY BE APPLICED BY OULLIFED STORAGE, RECORD RECEIVED AND DISPOSAL OF HERBICIDES OF HERBICIDES APPLICATIONS AND MOWING DERBY ARE RECORDED TO HAVE AT LEAST ONE HIDMOULAL ON THE GREW AT ALL TIMES, WHO IS OURLIFED TO APPLY HERBICIDES A QUALIFED APPLICATION FOR INDIVIDUAL ON THE GREW AT ALL TIMES, WHO IS OURLIFED TO APPLY HERBICIDES, A QUALIFED APPLICATION THE PRODUCT AND APPLICATION METION AND METIS ANY PEDEMBEL STATE, AND LOCAL LAWS AND REQUISITIONS. THE ROOMS AND APPLICATION METION AND APPLICATION OF THE APPLICATION IS MADE. SUPERVISOR OF QUALIFIED APPLICATION ARE RECORDED TO HOLD A CERTIFIED APPLICATION IS MADE. SUPERVISOR OF GOLDALIED APPLICATIONS ARE RECORDED TO HOLD A CERTIFIED APPLICATION IS MADE. SUPERVISOR OF GOLDALIED APPLICATIONS ARE RECORDED TO HOLD A CERTIFIED APPLICATION IS MADE. SUPERVISOR OF GOLDALIED APPLICATIONS.

| NAPERVILLE PUBLIC<br>UTILITIES DEPARTMENT<br>ELECTRIC STANDARDS | CLEARING AND ENVIRONMENTAL QUALITY PROTECTION | DATE: 05-01-05<br>Page 1 of 8<br>58199-106 |  |
|---|---|--|--|
| <br>  |   |  |  |

THE ASSINCED CONTRACTOR SHALL PLAN, COORDINATE, AND CONDUCT HIS OPERATIONS IN A MAINER WHICH PROTECTS THE GUARTY OF THE ENVIRONMENT AND COMPRIES WITH ENVIRONMENTAL EXPECTATIONS. THIS SPECIFICATION CONTRAINS PROVINGING WHICH PHALL BE CONSIDERED IN ALL CONTRACT CONTRACT ON PREAVORS, IF THE CONTRACTOR PRILS TO OPERATE WITHIN THE INTERT OF THESE REQUIREMENTS, WILL DIRECT CHANGES TO OPERATION OF THE OPERATION OF THE WITHIN THE WORK SUSPENSION UNTIL CORRECTION OF REMEDIAL ACTION IS TAKEN BY THE CONTRACTOR, PENALTICS AND CONTRACT TERMANDON WILL BE USED AS APPROPRIES. THE COSTS OF COMPLINING WITHIN THESE SPECIFICATIONS ARE INDICENTAL TO THE CONTRACTOR WORK, AND ADDITIONAL COMPENSION OWN BY BE ALLOWED. AT ALL STRUCTURE AND CONDUCTION POLLING STRUCTURE AND CONTRACTOR MAINTAINED THE ONSTRUCTION OF PREVIOUS AND ADDITIONAL COMPENSION WILL BE LEVEL THE CONTRACTOR OF PROVIDED BY THE CONTRACTOR OF THE CONTRAC

THE ASSIGNED CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL AND ANTI POLLUTION LAWS, REQUILITIONS, AND DROINANCES RELATED TO ENVIRONMENT PROTECTION AND PREVENTION, CONTROL, AND ABATEMENT OF ALL FORMS OF POLLUTIONS.

THE ASSIGNED CONTRACTOR'S USE AREAS INCLUDE BUT ARE NOT LIMITED TO SITE OFFICE, SHOP, MAINTENANCE, PARKING, STORAGE, STRAING, ASSEMBLY AREAS, UTILITY SERVICES, AND ACCESS ROOMS TO THE USE AREAS. THE CONSTRUCTION CONTRACTOR SHALL SUBJECT WARDS AND DEARNINGS FOR HERR LOCATION HAND EVELEDIAMENT TO THE ENGINEER AND PROJECT MANAGER FOR APPROVAL SECONDARY CONTAINMENT WILL BE PROVIDED FOR FUEL AND PETROLOGY PROJECT STORAGE CURSIONATION CONTRAINMENT WILL BE PROVIDED FOR FUEL AND PETROLOGY PROJECT STORAGE CURSIONATION CONCEINED (SCHAE).

ALL MAJOR EQUAPMENT AND PROPOSED METHODS OF OPERATION SHALL BE SUBJECT TO THE APPROVAL OF CITY. THE USE OR OPERATION OF HEAVY COUPMENT IN AREAS OUTSIDE THE RICHT-OF-WAY, ACCESS ROUTES, OR STRUCTURE, OPIC. OR TOWNES SITES WILL HOME PREVIOUR WHICH DETERMISSION OF THE CITY INSPECTOR OR FIELD ENGINEEN. HEAVY EQUIPMENT USE ON STEEP SLOPES (GREATER THAT 20 PERCENT) AND IN WET AREAS WILL BE THAT TO THE MINIMUM INCESSEARY TO CONSTRUCT THE "TANAMISSION UNE. STEEP SHULL BE TAKEN TO LIMIT GROUND DISTURBANCE CAUSED OF HEAVY (CAUPMENT USAGE, AND FRICTION AND SECRIMENT CONTROLS WILL BE INSTITUTED. ON DISTURBED AREAS IN ACCORDANCE WITH STATE REQUIREMENTS.

NO SUBSURFACE CROUN-DISTURBING EQUIPMENT OR STUMP-REMOVAL EQUIPMENT WILL BE USED BY CONSTRUCTION FORCES EXCEPT ON ACCESS ROADS OR AT "HE ACTUAL STRUCTURE, POLE, OR TOWER SITES, WHERE ONLY FOOTHIC LOCATIONS AND CONTROLLED RUNGET DIVERSIONS STALL BE CREATED THAT DISTURB THE SOIL ALL CITHER MERKS OF GROUND COVER OR IN PLACE STUMPS AND ROOTS SHALL REMAIN IN PLACE (NOTE, TRACKED VEHICLES DISTURB SURFACE LEVER OF THE GROUND DUE TO SIZE AND FUNCTION), SOME DISKING OF THE RIGHT-OF-WAY MAY OCCUR FOR PROPER SEEDBED PREPARATION.

UNLESS PONDING PREMOUSLY OCCUPRED (i.e., EXISTING LOW-LYING AREAS), WATER SHOULD NOT BE ALLOWED TO POND ON THE STRUCTURE SITES EXCEPT AROUND POUNDATION HOULES: THE WATER MUST DE DIRECTED AWAY FROM THE SITE IN AS DISPERSED A MANNER AS POSSIBLE AT POLCE OF STRUCTURE SITES SOME MEANS OF UPSLOPE INTERRUPTION OF POTENTIAL OVERLAND FLOW AND DIVERSION AROUND THE FOOTINGS SHOULD BE PROVIDED AS THE FIRST SITE IN CONSTRUCTON—SITE PREPARATION. IF LEVELING IS NOCESSARY, IS MUST BE IMPLEMENTED BY MEANS THAT PROVIDE FOR CONTINUOUS GENTLE, CONTROLLED, OVERLAND FLOW OR PREVACUATION. A GOOD GRASS COVER, STAWN, GRAVEL, OR OTHER PROTECTION OF THE SUPPACE MUST BE MAINTAINED. SIEPS TAKEN TO PREVAIL INCHARDS. IN HILL MUSTICKE CONTENT OF THE SUPPACE MUST BE BEVERFILLE ROTH DURING THE IN-STU SOILS WILL BE BEVERFILLE ROTH DURING CONSTRUCTION AND OVER THE SERVEC LIFE OF ANY STRUCTURE.

THE CONTRACTOR PERSONNEL SHALL BE RESPONSIBLE FOR DALY INSPECTION, CLEANUP, AND PROPER LABELING, STORAGE, AND DISPOSAL, O" ALL REFUSE AND DEBBIS PRODUCED BY HIS OPERATIONS AND BY HIS EMPLOYEES, SUTABLE RETUSE, COLLECTOR FOLLITES WILL BE REQUIRED, ONLY STAT—PROPOVED DISPOSAL AREAS SHALL BE USED, DISPOSAL CONTAINERS SUCH AS DUMMSTERS OR ROLL—OFF CONTAINERS SHALL BE COFFAMED FROM PROPER WASTERS ON POLL—OFF CONTAINERS SHALL BE COFFAMED FROM PROPER WASTES AS SHALL BE SORDER AFTER OFF THE PROPERTY SHALL BE COFFAMED AND WILL BE SORDER AFTER OFF THE PROPERTY BASED WITH SHALL BE SORDER AFTER OFF THE POLITICAL BEFORE THE AREA OF THE POLITICAL SHALL BE CONTAINED AND WILL BE SORDER AFTER THE AREA OF THE POLITICAL SHALL BE SORDER AFTER THE AREA OF THE POLITICAL SHALL BE SORDER THE AREA OF THE POLITICAL SHALL BE SORDER THE AREA OF THE POLITICAL SHALL BE SORDER THE AREA OF THE PROPERTY BASED BY THE PROPE

HERBICIDE REPORTS — ALL HERBICIDE APPLICATION OF CONTRACTORS WILL BE REPORTED TO THE CITY USING THE CITNIFACTOR'S HERBICIDE REPORT, REPORTS WILL BE SUBBINIZED TO CITY ON A WEBSLY BASIS IT IN CONTRACTOR'S RESPONSIBILITY TO MANTAIN REPORTS FOR REVEW BY THE STATE DEPARTMENT OF A CHICALTURE.

TREE REMOVAL -- TREE REMOVAL ELIMINATES HAZARDOUS CONDITIONS, IMPROVES ACCESS TO FACILITIES AND REDUCES FUTURE WORK, TREE REMOVALS WILL 9E PURSUED WHEREVER FEASIBLE.

IREES THAT ARE LOCATED AT HOMES, SCHOOLS, PARKS, AND BUSINESSES OR OTHER AREAS, WHICH CHILDREN MAY CUMB EASILY AND CONTACT PRIMARY CONDUCTORS.

b) CLIMBABLE TREES OR TREES WITH TREE HOUSES THAT ARE CLOSE TO PRIMARY CONDUCTORS.

c) FAST GROWING TREES THAT MAY INTERFERE WITH PRIMARY CONDUCTORS BEFORE THE NEXT MAINTENANCE TRIMMING.

t) DEAD, DYING, DISEASED, DEFORMED AND UNSTABLE TREES WHICH HAVE A HIGH PROBABILITY OF FALLING AND CONTACTING PRIMARY OR SECONDARY CONDUCTORS.

### a) TREES THAT REQUIRE EXTENSIVE DROP CROTCH TRIMMING.

TREE REMOVALS SHOULD BE LIMITED TO TEN FEET EITHER SIDE OF DISTRIBUTION CONDUCTORS AND WITHIN TRANSMISSION RIGHTS OF WAY, EXCLUDING DANCER TREES. SEE 55281-147 PRESERVATION OF TREES, SHRUBS AND EVERGEERS.

c) LOW GROWING COMPATIBLE SHRUBS OR TREES WHOSE MATURE HEIGHT IS LESS THAN 25 PEET SHOULD NOT BE REMOVED. THERE WILL BE SITUATIONS WHERE THIS TYPE OF VEGETATION SHOULD BE REMOVED FOR ACCESS TO FACILITIES OF POLE CLEARING REQUIREMENTS.

d) STUMPS SHALL BE OUT AS CLOSE TO THE GROUND AS PRACTICAL OR REMOVED.

1) TREE REMOVAL REQUIRES PERMISSION FROM THE PROPERTY OWNER. ON TRANSMISSION LINES ONLY, CERTAIN "LANDSCAPE" TREES MAY SE LEFT AT OWNER'S REQUEST, PROVIDING RW ACCESS IS NOT IMPEDED.

g) ALL TREES REMOVED SHALL BE REPLACED PER THE CITY'S PLANTING SPECIFICATION, QUANTITY BY AND OF SLOW GROWING VARIETY AND FINAL HEIGHT LESS THAN 25' WHEN FULLY GROWN (SEE PAGE THESE REQUIREMENTS MEET OF EXCECT SUGGESTED STATE AND FEDERAL QUIDELINES FOR FIRE HAZARD CONTROL AND WILL PROVIDE OUR LINE CHEWS WITH 74E BISST POSSURE ACCESS AND SAFE, CLEAR WORKING CONDITIONS, AND MINIMIZE TIESE RELATED SERVICE INTERVENIONS.

THE BASIC REQUIREMENTS FOR CLEARANCES AROUND TRANSMISSION LINES CONDUCTORS ARE SET FORTH IN TABLE-1, BRICHW. FIGURE 1 ON THE FOLLOWING PACES SHOW A DIMERAM OF THESE CLEARANCES. THESE ARE MINIMUM REQUIREMENTS AT WHICH THE TRIMING WILL BE MEDICESSARY TO ALLOW FOR GROWTH DURING THE CYCLE. THE ACTUAL TRIMINED CLEARANCE SHOULD BE AT !CAST FIVE FEET MORE THAN THE MINIMUM, TO ALLO FOR GROWTH. TABLE - 1
TRANSMISSION LINE CLEARANCES

GROUND CLERANCE: 15' MIN. HORIZONTALLY FROM CENTER OF RIGHT-OF-WAY, BOTH SIDES, OR TO ORIGINAL PERIODE RICHT-OF-WAY WIDTH - 10' ARCUND AND STRUCTURE (POLE OR TOWER).

SIDE CLERANCE: 138kV LINE~20 Ft. FROM CONDUCTOR IN STATIC POSITION 34.5kV LINE~10 Ft. FROM CONDUCTOR.

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|                          | QUALITY PROTECTION         | ELECTRIC STANDARDS   |

CLEARING NO CONSTRUCTION ACTUTIES DAY CLEAR ADDITIONAL STEE OF BOST-OF-CHAIN VECETATION OF OCTUFE REMAINING HEAVING DECENTRAL STUMPS, OR RECORPORT AT LOCATIONS DIFFET THANKE SCALARIOR STEELS THE CONSIDERATION OF THE CONTROL O

STANDARDS

STRUCTURE CLEARANCE

GENERAL SPECIFICATION

FIRE PROTECTION

ARCHAEOLOGICAL SITES

WEILANDS, STREAM PROTECTION

THREATENED AND ENDANGERED SPECIES, NESTING SEASONS

ALL CONSTRUCTION DISTURBED AREAS, WITH THE EXCEPTION OF FARMLAND UNDER CULLINATION AND ANY OTHER AREAS AS MAY BE DESIGNATED BY CITY'S SPECIFICATIONS, SHALL BE STABILIZED IN THE FOLLOWING MANNER UNLESS THE PROPERTY OWNER AND CITY'S ENGINEER SPECIFY A DIFFERENT METHOD.

TRANSMISSION LINE STRUCTURES (POLES AND TOWERS) A MINIMUM 10' CLEARING IS REQUIRED THE FULL CIRCUMFERENCE OF THE STRUCTURE, ALSO ALL FLAMMABLE MATERIAL SHOULD BE REMOVED BELOW 8 IT. HIGH.

SAFETY: - FEDERAL AND STATE OSHA REQUIREMENTS THAT APPLY TO VEGETATION MANAGEMENT ACTIVITIES SHALL BE FOLLOWED AT ALL THES. REFOR TO ANSI 2133.1-1994 AND FEDERAL OSHA 1910.289. TIRE WORKERS, ECHRHARIT CHERATORS, AND CROWNEN SHALL USE PERSONAL PROTECTIVE EQUIPMENT SUCH AS HARP HATS, SAFETY CLASSES, EAR PLUGS, AND OHAIN SAN LEG PROTECTIONS ACTIVITIES SHALL BE CONDUCTED IN A MANAGE HAT PROTECT SCHEW AND PUBLIC SAFETY. REPROS SHALL HAVE ROBIG OR TILEPHONE COMMUNICATION IN A MANAGE HAT PROTECT SCHEW AND PUBLIC SAFETY. REPROS SHALL HAVE ROBIG OR TILEPHONE COMMUNICATION IN A MANAGE HALL THESE, CONTRACTORS OR SUB-CONTRACTORS ARE ALSO REQUIRED TO FOLLOW THE ABOVE TILES.

DURING THE FIRE SEASON, FEDERAL AGENCIES AND STATE DEPARTMENT OF FORESTRY REQUIRE CREWS TO HAVE TRAINING AND EQUIRMENT INCESSARY FOR FIRE PROTECTION. FEDERAL, STATE AND LOCAL FIRE PROTECTION LAWS AND REQUIRATIONS SHALL BE FOLLOWED, AND ANY PERMITS NECESSARY WILL BE OBTAINED BY THE COMPANY OR CONTRACTOR PERFORMING THE WORK.

WORK SHALL BE PERFORMED IN A MANNER THAT DOES NOT DISTURB OR HAMM ANY RARE, THHEATENED, ENDRANGERED, OIL PROTECTED PLANT OR ANNAL SPECIES. THIS INCLUDES ADDERNING TO NESTING SEASON PROGR COMMERCING WORK ON FEDERAL AND STATE LAMID, THE CONTRACTOR'S ASSOCIATION OF THE CONTRACTOR'S ASSOCI

WORK SHALL BE PERFORMED IN A MANNER THAT DOES NOT DISTURB A KNOWN ARCHAEOLOGICAL SITE. PRIOR TO COMMENCING WORK ON FEDERAL AND STATE LANDS, IF SUCH SITES ARE PRESENT FON RICHT-OF-WAYS. IF PRESENT, THEY SHALL BE OBENITED IN THE FIELD, ON SUCH SITES, ALL THEE AND BEUSH WORK WILL BE PERFORMED SO AS TO MINIMAZE GROUND DISTURBANCE. IF ARCHAEOLOGICAL ARTIFACTS ARE COCTED ON PRIVATE LANDS, BEFORE OR AFTER WORK IS STARTLEN, WORK SHALL IMMEDIATELY HAIT, AND FINIDINGS REPORTED TO THE CITY. HELD DATA INVESTORES OF KNOWN SITES MAY BE ON FILE IN THE CITY FORMOR PROFILED TO THE CITY. HELD DATA INVESTORES OF KNOWN SITES MAY BE ON FILE IN THE CITY FORMOR PROFILED.

WETLANDS ARE SITES FAR HAVE STANDING WATER, PYCRIC SOLLS, AND PLANTS THAT ARE UNIQUE TO THE WIGH AND SAND STREAM GRESSINGS SHALL BE WORKED BY HAND OR DURNOR FROZIEN CONDITIONS WITH WIGH AND SAND STREAMS IN A MANUER THAT WOULD DESTRUCT OR IMPAIR THE FLOW OF WATER, MOCHINE WORK SHALL PERFORMED IN WETLAND SITES OR WITHIN HETTY FEET OF A LIVE STREAM UNITESS A PREMIT HAS BEFN IN STANDING FOR THE STREAM CONTROL OF THE STREAM WITHOUT ACCOUNTY AND STORES HAS WOULD BE THE SOIL CONSERVATION SER

WORK SHALL BE FERFORMED IN A MANNER THAT DOES NOT DAMAGE WITNESS TREES, SURVEY MARKERS, MONUMENTS, OR PROPERTY CORNERS, IF DAMAGE OCCURS, THE PROPERTY OWNER AND CHY SHALL BE CONTACTED.

THE STANDARDS PUBLISHED BY INL AMERICAN NATIONAL STANDARDS INSTITUTE (AVS) A300-1985 FOR "TR SHRUB AND OTHER WOODY PLANT MANTEMANCE", AND ANSI 2133.1-1994 "PRUNING, RIMMING, REPAIRING, MAINTAINING, AND REMOVING INTERS, AND CUTTING BRUSH-SEAFEY REQUIREMENTS' WILL BE ADHERED TO BY EMP-DYEES AND CONTRACTORS AND ARE PART OF THIS DOCUMENT, CONTRACTOR TO PURCHASE ALL ANSI STANDARDS

CLEARING AND ENVIRONMENTAL QUALITY PROTECTION

- THE SUBSOIL SHALL BE LOOSENED TO A MINIMUM DEPTH OF 6 INCHES IF POSSIBLE AND WORKED TO PEMOVE UNNATURAL RIDGES AND DEPRESSIONS.
- 9) IF NEEDEU, APPROPRIATE SOIL AMENDMENTS WILL BE ADDED.
- C) ALL DISTURBED ARRAS WILL INITIALLY BE STEEDED WITH A TEMPORARY CROUND COVER SUCH AS WINTER WHEAT, RIF, OR MILLET, DEPCHDING ON THE SEASON, PERENNIALS MAY ALSO BE FLANTED DURING MITHLS. SEEDING IF PROPER GROWNE CONDITIONS EXIST, FINAL RESTORATION AND FINAL SEEDING WILL DE PERFORMED AS LINE CONSTRUCTION IS COMPLETED, FINAL SEEDING WILL CONSIST OF PERMINANT PERFORMED AS LINE CONSTRUCTION IS COMPLETED, PINAL SEEDING WILL CONSIST OF PERMINANT PERFORMED AS MADE ON AS TRACES CHARTING ARRAS CHART OF THE CONTINUED IN SPECIAL AND FINAL RESIDENT ON MILL DE PROPERTIES OF THE CONTINUED AS MADE AND A PROPERTIES OF THE CONTINUED.
- D) CITY HOLDS THE OPTION, DEPENDING UPON THE TIME OF YEAR AND WEATHER CONDITION, TO DELAY OR WITHDRAW THE REQUIREMENT OF SEEDING UNTIL MORE FAVORABLE PLANTING CONDITIONS ARE CERTAN, IN THE MEATHINE, CITHER STREADLIZATION TECHNIQUES MUST BE APPLIED.

# AIR QUALITY CONTROL

CONSTRUCTION CREWS SHALL TAKE APPROPRIATE ACTIONS TO MINIMIZE THE AMOUNT OF AIR POLLUTION CREATED BY THEIR CONSTRUCTION OPERATIONS, ALL OPERATIONS MUST BE CONDUCTED IN A MANNER WHICH AVOIDS CREATING A MUSTANCE AND MANNER WHICH AVOIDS CREATING A MUSTANCE AND MANNER WHICH AVOIDS CREATING A MUSTANCE AND MANNER TO LANDS, CROPS, DWELLINGS, OR PERSONS.

CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED TO MINIMIZE THE CREATION OF DUST, THIS MAY REQUIRE LIMITATIONS AS TO DYPES OF EQUIPMENT, ALLOWAGES SPEEDS, AND ROUTES UTILIZED, WAITEN, STRAW, WOOD CHASS, INST. MALLIANE, GRAVALE, COMBINATIONS OF THESE, OR SMILLAR CONTROL MEASURES MAY BE USED. THE CONTROL MEASURES MAY BE USED OF THE CONTROL MEASURES MAY BE USED. AND ACCESS ROAD APPROACHES. A COUNTY HOAD OR HOMBAY, SHALL BE CRAWELED TO PROMPY I SANISHER OF MUD ONTO THE PUBLIC ROAD.

### VEHICLE EXHAUST EMISSIONS

NAPERVILLE PIREIC

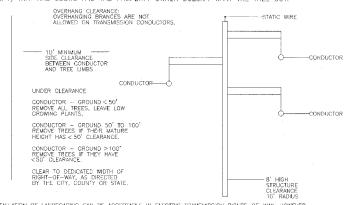
THE CONTRACTORS SHALL WANTAIN AND OFFICE EQUIPMENT TO LITT VEHICLE EX-MAJST EMISSIONS, EQUIPMENT AND VEHICLE THAT SHOW EXCUSSIVE SMISSIONS OF ENHAUST SASSES AND "ARTHURATE SALE IN THE ADMINISTRATION OF CHARGO WHITE INTITIONS OFFICE O

### 198kV TRANSMISSION LINE CLEARANCE FIGURE-1

## F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO 1545 00-00115-00-BR DUPAGE **93**STA. 1+31.77 TO STA. 5+50.00 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

### OVERHANG CLEARANCE

A TEN FOOT OVERHAMS WILL ONLY BE AN OPTION IN SPECIAL SITUATIONS AT THE PROPERTY OWNER'S REQUEST, AND WILL NONE BE CONSIDERED ON LARGE DIAMETER TREES (TREE LARGER THAN 20 FEET DIAMETER BREAST HEIGHT) THAT ARE SOUND AND THE PROPERTY OWNER DOESN'T WANT THE TREE CUT.



INSTALLATION OF LANDSCAPING CAN BE ACCEPTABLE IN ELECTRIC TRANSMISSION RIGHTS-OF-WAY: HOWEVER, LANDSCAPING MUST NOT BE ALLOWED TO COMPROMISE SAFE CLEARANCE BETWEEN PLANTS AND STRUCTURES (TOWNERS OR POLES), NOR SHALL LANDSCAPING IMPEDE ACCESS OR PREVENT EASY INSPECTION OF FACILITIES, OTH WILL NOT CONSENT IO LANDSCAPING DESIGNS THAT INCREASE ITS MAINTENANCE COSTS OR INVESTIGATION, OF FACILITIES, OTH WILL NOT CONSENT IO LANDSCAPING DESIGNS THAT INCREASE ITS MAINTENANCE COSTS OR INVESTIGATION, OF FACILITIES, OTHER SERVICE RELIABILITY OR PUBLIC SAFETY ISSUE. THE CONTRACTOR SHOULD A WAYS CONSULT WITH THE LOCAL CITY TRANSMISSION LINE SUPERWISOR BEFORE FINALIZING LANDSCAPE PLANS IN THE VICINITY OF FLECTRIC TRANSMISSION FACILITIES.

# LINE CLEARANCE

PLANTS SHOULD NOT BE INSTALLED THAT COULD ULTIMATELY GROW WITHIN THE MINIMUM ACCEPTABLE CLEARANCE DISTANCE OF PLANTS FROM COMDUCTORS STATED IN THE TABLE BELOW. IN GENERAL, THE ACCEPTABLE MATURE HEIGHT OF PLANTS FOR A GIVEN SITUATION WILL BE CETERMINED BY THE HEIGHT OF THE CONDUCTOR ABOVE THE GROUND AND THE VOLTAGE OF THE LINE. USING A CONDUCTOR HEIGHT OF 49' (AROW GROUND AT 235F Ø 750' SFAN) RESULT IN MAXIMUM PLANT HEIGHT AS FOLLOWS.

| VOLTAGE                          | MINIMUM CLEARANCE OF<br>PLANTS FROM CONDUCTOR | MAXIMUM PLANT<br>HEIGHT | MAX. SAG @ 235 F<br>@ 750 SPAN |
|----------------------------------|---|-------------------------|--------------------------------|
| 12,000 VOLTS 10<br>138,000 VOLTS | 15'   | 25                      | 24'                            |

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### 15. VEHICLE SERVICING

ROWING MAINTENANCE OF PERSONNEL VEHICLES WILL NOT BE PERFORMED ON THE RIGHT-OF-WAY. HOWEVER, I EMERGENCY OF "HAVE TO" STIULATIONS. ARISE, MINIMAL/TEMPORARY MAINTENANCE TO PERSONNEL VEHICLES WILL OCCUR IN ORDER TO MOBILIZE THE VEHICLE ON AN OF SITE MAINTENANCE SHOP. HEAVE COURTING WILL SESTIVED ON THE RIGHT-OF-WAY, EXCEPT IN DESIGNATED AREAS, THE CONSTRUCTION CONTRACTOR WILL PROPERTY MAINTENANCE IN A SENSITIVE OR QUESTIONABLE AREA SHIPS. SHE AREA EDWIRONMENTAL CONDITIONABLE AREA RISUSS, THE AREA EDWIRONMENTAL COORDINATION OR CONSTRUCTIONS ENTRY OWNER LONGER CONTRACTOR OF CONSTRUCTION OF CONTRACTOR OF CONSTRUCTION OF CONTRACTOR OF CON

THE CONTRACTOR SHALL PROPERLY STORE AND HANDLE COMBUSTIBLE MATERIAL WHICH COULD CREATE OBJECTOWNERS SMOKE, ODDINS, OR TUMES, THE CONTRACTOR SHALL NOT BURN REFUSE SUCH AS TRASH, RAGS, TREES, PLASTICS, OR OTHER DEBRIS.

# 17. NOISE CONTROL

THE CONTRACTOR SHALL TAKE MEASURES TO AVOID THE CREATION OF NOISE LEVELS THAT ARE CONSIDERED NUISANCES. SAFETY, OR HEALTH HAZARDS, GRITICAL AMEAS INCLUDING BUT NOT LIMITED TO RESIDENTIAL AREAS, PARKS, PUBLIC USE AREAS, AND SOME MANUFAING OPERATIONS, MILL REQUIRE SECULE, CONSIDERATIONS. THE CITY'S CRITICINA FOR DETERMINING CORPICTIVE MEASURES SHALL BE DETERMINED BY COMMANIES THE NOISE LEVEL. OF THE CONSTRUCTION OF THE MEASUREMENT OF THE MEACKGROUND NOISE LEVELS, AISE, ESPECIALLY NOISY EDUMENTS SIGH. AS HELICOPITERS, PILE DEMYERS, ARE HAMMERS, CHIPPERS, CHAIM SAWS, OR AREAS FOR MACHINE SHOPS, STAGING, ASSEMBLY, OR BUSINING VAY PROLUME CORPICTIVE ACTIONS W-PP. REQUIRED BY THE CITY.

ALL INTERNAL COMBUSTION ENGINES SHALL BE PROPERLY FOUIPPED WITH MUFFLERS AS REQUIRED BY THE DEPARTMENT OF LABOR'S "SAFETY AND HEALTH REQUIRIONS FOR CONSTRUCTION." THE CITY MAY REQUIRE SPARK ARCSITERS IN ADDITION TO MUFFLERS ON SOME ENGINES. ARE COMPRESSORS AND OTHER MOISY EQUIPMENT MARRIED REQUIRE SOME OFFICIAL PROPERSORS.

# 18. DAMAGES

THE MODERNET OF CONSTRUCTION CADES AND COMPUTED SHALL BE CONSULTED IN A MANUEL WHICH CAUSES AS LITTLE MINISTON AND MAMMER AS PASSENE TO COPING PROGRAMS, MODERN MATAGOR AND OTHER PROPERTY FEATURES AND VIGITATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR EROSION DAMAGE CAUSED BY HIS ACTIONS AND ESPECIALLY FOR CREATING CONDITIONS THAT WOULD THEATER THE STABILITY OF REPORT OF THE STABILITY OF RIGHT-OF-WAY OR SITE SOIL, THE STRUCTURES, OR ACCESS TO ETHER, WHEN PROPERTY CONNERS PREFER THE CORRECTION OF GROUNG COVER CONDITION OF SOIL AND SUSSUL PROBLEMS THEMSELVES.

THE CONTRACTOR SHALL PAY THE PROPERTY OWNER FOR ALL WORK RELATIVE TO THE DAMAGED DONE.

CLEARING AND ENVIRONMENTAL

TREES, SCHRUBS AND EVERGREENS PRESERVATION CONTRACTOR SHALL FOLLOW IDCT SPECIFICATION AND CITY SPECIFICATIO WHEN PRESERVING TREES, SHRUBS AND EVERGREENS.

| L           | CITY OF | NAPERVILI | E/DEPART    | MENT   | OF P | <b>UBLIC</b> | utilities - | - ELECT    |
|-------------|---------|-----------|-------------|--------|------|--------------|-------------|------------|
|             |         | CALL J.U. | L.I.E. 48 ! | HRS. F | RIOR | TO C0        | ONSTRUCTIO  | ON .       |
| BAILEY      | RD. B   | RIDGE DI  | JCTBANK     | INST   | ALLA | TION         | MAD MOT     | GAC<br>000 |
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NAPERVILLE PUBLIC UTILITIES DEPARTMENT

|                                      | CITY       | OF | NAPE  | RVILLE | /DEPART    | MENT | OF PUBLIC L | TILMES — E     | LECTRIC                    |
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| CALL J.U.L.I.E. 48 HRS. PRIOR TO COI |            |    |       |        |            |      |             | NSTRUCTION     |                            |
| BAILEY                               |            | BF | RIDGE | DU     | CTBANK     | INS  | TALLATION   | MAP MOL:       | 0058199001C21.DWG          |
| COORI                                |            | ED | WIT   | н в    |            |      | ROVEMENT    | ORANI BA<br>JK | PROJECT NO.:<br>EU12-06-04 |
| DATE 0                               | 6-18<br>07 |    |       |        | WORK REQUI |      |             | <b>98</b> C:   | COMPLETED BY               |
|                                      | RPS        | _  | -     | 3      | 581        | 99   | APMA        | SOME:<br>NTS   | SHEET 21 OF 23             |

ACCEPTABLE MEASURES FOR DISPOSAL OF WASTE OIL FROM VEHICLES AND EQUIPMENT SHALL BE FOLLOWED. NO WASTE OIL SHALL BE DISPOSED OF WITHIN THE FIGHT-OF-WAY, ON A CONSTRUCTION SITE, OR ON ACCESS

### TURBIDITY AND BLOCKING OF STREAMS

CONSTRUCTION ACTIVITIES IN OR NEAR BOOKS OF WATER SHALL BE CONTROLLED TO PREVENT THE WATER STORM AND FOREDON STATE OF LOCAL WATER SHALL BE CONTROLLED TO PREVENT THE WATER STORM, ALL CONDITIONS OF A STREAM, ALL CONDITIONS OF A STREAM, ALL CONDITIONS OF A STREAM SHALL CONDITIONS OF A STREAM, ADUATIC RESOURCE ALTERATON PERMIT, OR A STREAMS CONTROLLED FROM SHALL BE MET HIGLIDING MODIFIORIS OF TURBEDITY IN RECENTING STREAMS AND/OR STORM WATER DISCHARGES AND MINELEMENTATION OF APPROPRIATE EROSION AND SEDIMENT CONTROL MESSARES.

APPROPRIATE DRAINAGE PACILITIES FOR TEMPORARY CONSTRUCTION ACTIVITES INTERRUPTING MATURAL SITE DRAINAGE SANCLE PROVIDED TO AVOID BROSON, MATERICAUSES SIMALL NOT BE BLOCKED OR INVERTIO UNE ESS REQUIRED BY THE SPECIFICATIONS OR THE CITY ENGINEER, DIVERSIONS SHALL BE MADE IN ACCORDANCE WITH STATE COUNTY, OR CITY,

MECHANIZIO CUI-DABLI SAMAL NOT BE: OPERATED IN FLORING MATER EXCEPT WHEN APPROVED AND, THEN ONL'TO CONSTRUCT CRESSINGS OF TO FREFORM REQUIRED CONSTRUCTION UNDER DIRECT QUIDANCE OF CITY CONSTRUCTION OF STREAM FORD OF OTHER CROSSINGS CONSTRUCTION UNDER DIRECT QUIDANCE OF CONTROL ACCESS FORD STANDARDS. MATERIAL SHALL NOT BE DEPOSITED IN CARRION AND REPROPAGE OF WITHIN STREAM BANK AREAS WHERE IT COULD BE WASHED AWAY BY HIGH STREAM FLOWS APPROPAGE COPPS OF CHARLETS AND STATE PERMIS SHALL BE OBTAINED.

# CLEARING AND ENVIRONMENTAL

6. LANDSCAPE PRESERVATION

THE CONTACTOR SINAL EMERCISE CASE TO PRESENT THE INTURAL LANDSCAPE IN THE ENTIRE CONSTRUCTION AFFA AS WELL AS USE AREA, IN OR OUTSIDE THE RICHT-MWY, AND ON OR ADJACENT TO ACCESS TRUCKS CONSTRUCTION OPERATIONS SHALL BE COMPUCTED TO PREVENT ANY UNNECESSARY DESTRUCTION, SCARRING, OR DEFICIAL OF THE MATURAL VESTATION AND SURROUMDINGS IN THE VICINITY OF THE WOORLD.

# SENSITIVE AREAS PRESERVATION

### WATER DUALITY CONTROL

THE CONTRACTOR CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY METHODS THAT WELL PREVENT ENTRANCE OR ACCIDENTAL SPILLAGE OF SOLID MATTER, CONTAMINANTS, DEBRIS, AND OTHER OBJECTIONABLE POLLUTARIS AND WASTES INTO FLOWING CAVES, SINKHOLES, STREAMS, DRY WATERCOURSES, LAKES, PONDS, AND UNDERGROUND WATER SOURCES.

THE CLEARING CONTRACTOR WILL ERECT AND MAINTAIN SILT FENCES ON STEEP SLOPES AND ADJACENT TO ANY STRUM, WILLIAD, OR OTHER WAREN BODY, ADDITIONAL PROTECTION MAY BE REQUIRED FOR AREAS OF THE FIELD FROM THE FROM TH

WASTEWATER FROM CONSTRUCTION OR DEWATERING OPERATIONS SHALL BE CONTROLLED TO PREVENT EXCESSIVE EROSION OR TURBUITY IN A STREAM, WELLAND, LAVE, OR POND, ANY WORK OR PLACING OF EQUIPMENT WITHIN A FLOWING OR BY WATERCOUNCE REQUIRES THE PRIOR APPROVAL OF CITY.

CLEARING AND ENVIRONMENTAL QUALITY PROTECTION

NAPERVILLE PUBLIC
UTILITIES DEPARTMENT
ELECTRIC STANDARDS