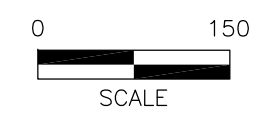


1 OVERALL SITE PLAN
SCALE: 1" = 150'-0"



811
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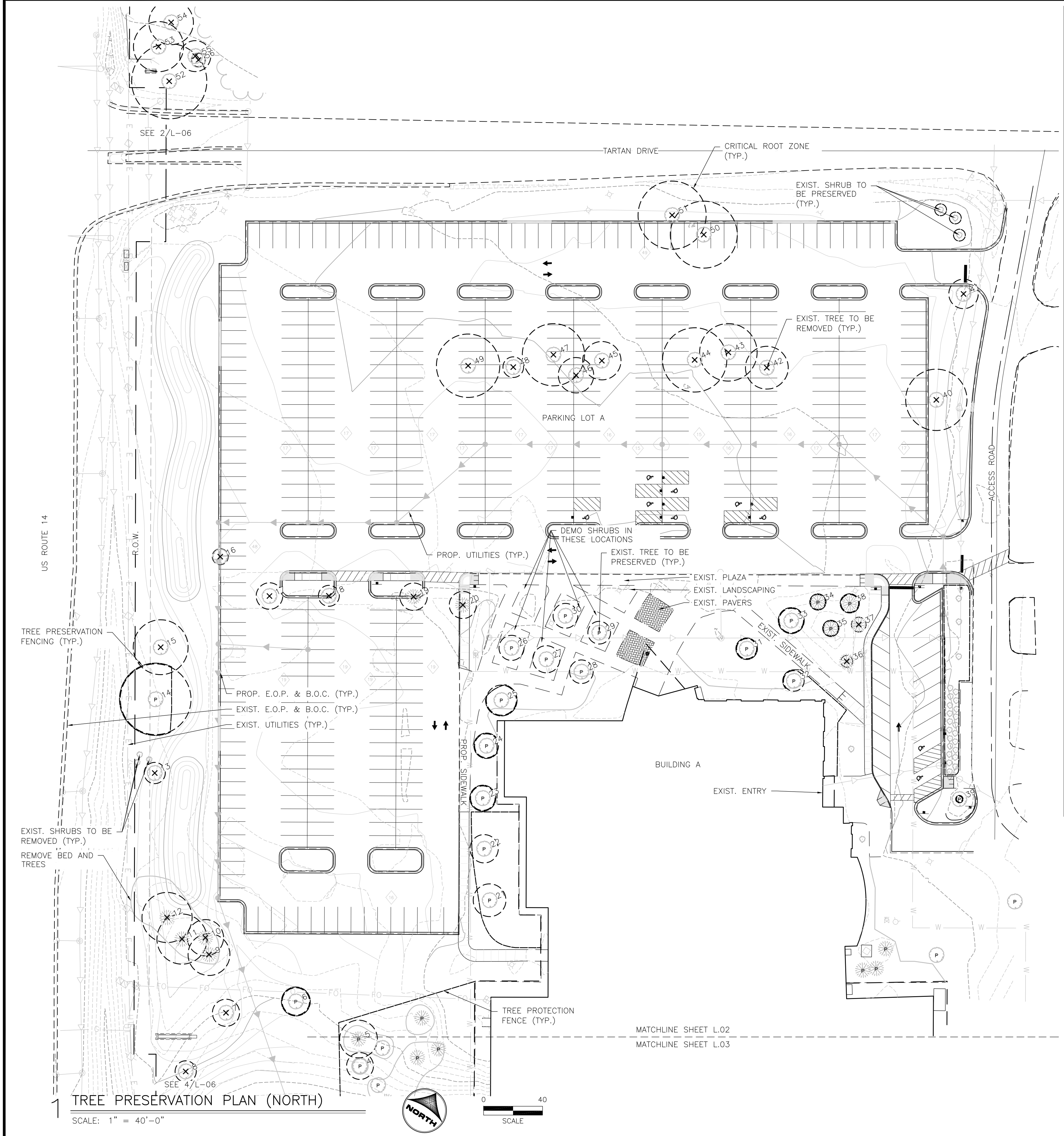
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McHENRY, ILLINOIS 60050
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FAX: 815.385.1781 | HRGreen.com



McHENRY COUNTY COLLEGE
PARKING LOT A RECONSTRUCTION
CRYSTAL LAKE, ILLINOIS

LANDSCAPING
OVERALL SITE PLAN

SHEET NO.
L-01



McHENRY COUNTY COLLEGE - PARKING LOT A RECONSTRUCTION
February 19, 2016

TREE SURVEY

TAG #	DBH (INCHES)	BOTANICAL NAME	COMMON NAME	AGE*	CONDITION**	ACTION	REASON
1	8.0	BETULA NIGRA	RIVER BIRCH	S	A	PRESERVE	
2	7.8	ALNUS INCANA	GREY ALDER	S	A	PRESERVE	
3	3.2	MALUS	CRABAPPLE	S	A	PRESERVE	
4	9.1	MALUS	CRABAPPLE	S	A	PRESERVE	
5	12.8	PICEA PUNGENS VAR. GLAUCA	BLUE SPRUCE	S	A	PRESERVE	
6	9.3	ACER RUBRUM	RED MAPLE	S	B/C	PRESERVE	
7	9.2	ACER RUBRUM	RED MAPLE	S	A	REMOVE	DISTURBANCE IN CRITICAL ROOT ZONE
8	7.2	ACER RUBRUM	RED MAPLE	S	A	REMOVE	DISTURBANCE IN CRITICAL ROOT ZONE
9	14.2	PINUS NIGRA	AUSTRIAN PINE	S	A	REMOVE	OPEN VIEW CORRIDOR
10	12.3	PINUS NIGRA	AUSTRIAN PINE	S	C	REMOVE	OPEN VIEW CORRIDOR
11	17.0	PINUS NIGRA	AUSTRIAN PINE	S	A	REMOVE	OPEN VIEW CORRIDOR
12	17.0	PINUS NIGRA	AUSTRIAN PINE	S	A	REMOVE	DISTURBANCE IN CRITICAL ROOT ZONE
13	7.2	ALNUS INCANA	GREY ALDER	S	C	REMOVE	DISTURBANCE IN CRITICAL ROOT ZONE
14	24.0	QUERCUS PALUSTRIS	PIN OAK	M	A	PRESERVE	
15	18.6	QUERCUS PALUSTRIS	PIN OAK	S	B/C	REMOVE	DISTURBANCE IN CRITICAL ROOT ZONE
16	5.4	QUERCUS BICOLOR	SWAMP WHITE OAK	S	B/C	REMOVE	IN FUTURE PAVMENT
17	9.0	QUERCUS MACROCARPA	BUR OAK	S	A	REMOVE	IN FUTURE PAVMENT
18	7.1	QUERCUS MACROCARPA	BUR OAK	S	A	REMOVE	IN FUTURE PAVMENT
19	9.3	PINUS NIGRA	AUSTRIAN PINE	S	A	REMOVE	IN FUTURE PAVMENT
20	9.2	PINUS NIGRA	AUSTRIAN PINE	S	A	REMOVE	IN FUTURE PAVMENT
21	11.1	ACER PLATANOIDES	NORWAY MAPLE	S	A	PRESERVE	
22	9.6	ACER PLATANOIDES	NORWAY MAPLE	S	A	PRESERVE	
23	8.3	ACER PLATANOIDES	NORWAY MAPLE	S	A	PRESERVE	
24	8.1	ACER PLATANOIDES	NORWAY MAPLE	S	A	PRESERVE	
25	10.2	ACER PLATANOIDES	NORWAY MAPLE	S	A	PRESERVE	
26	8.5	ACER PLATANOIDES	NORWAY MAPLE	S	A	PRESERVE	
27	9.2	ACER PLATANOIDES	NORWAY MAPLE	S	A	PRESERVE	
28	8.0	ACER PLATANOIDES	NORWAY MAPLE	S	A	PRESERVE	
29	7.7	ACER PLATANOIDES	NORWAY MAPLE	S	A/B	PRESERVE	
30	8.4	ACER PLATANOIDES	NORWAY MAPLE	S	A	PRESERVE	
31	6.8	GLEDITSIA TRIACANTHOS	HONEYLOCUST	S	A/B	PRESERVE	
32	7.0	GLEDITSIA TRIACANTHOS	HONEYLOCUST	S	B/C	PRESERVE	
33	8.3	GLEDITSIA TRIACANTHOS	HONEYLOCUST	S	A	PRESERVE	
34	5.0	PICEA PUNGENS	SPRUCE	S	B	PRESERVE	
35	5.0	PICEA PUNGENS	SPRUCE	S	A	PRESERVE	
36	4.0	PICEA PUNDENS	SPRUCE	S	A	REMOVE	DISTURBANCE IN CRITICAL ROOT ZONE
37	5.0	PICEA PUNGENS	SPRUCE	S	A	REMOVE	DISTURBANCE IN CRITICAL ROOT ZONE
38	6.0	PICEA PUNGENS	SPRUCE	S	B	PRESERVE	
39	2.0	GINKGO BILOBA	GINKGO	S	B	PRESERVE	
40	20.8	GLEDITSIA TRIACANTHOS	HONEYLOCUST	M	A/B	REMOVE	DISTURBANCE IN CRITICAL ROOT ZONE
41	10.0	AESCULUS GLABRA	OHIO BUCKEYE	S	A	REMOVE	DISTURBANCE IN CRITICAL ROOT ZONE
42	14.5	QUERCUS RUBRA	RED OAK	S	A	REMOVE	IN FUTURE PAVMENT
43	19.5	ACER PLATANOIDES	NORWAY MAPLE	S	A/B	REMOVE	IN FUTURE PAVMENT
44	21.8	QUERCUS PALUSTRIS	PIN OAK	M	A	REMOVE	IN FUTURE PAVMENT
45	13.0	MALUS	CRABAPPLE	S	A	REMOVE	IN FUTURE PAVMENT
46	12.0	MALUS	CRABAPPLE	S	A	REMOVE	IN FUTURE PAVMENT
47	21.1	QUERCUS PALUSTRIS	PIN OAK	M	A	REMOVE	IN FUTURE PAVMENT
48	7.0	ACER SACCHARUM	SUGAR MAPLE	S	A	REMOVE	IN FUTURE PAVMENT
49	21.5	GLEDITSIA TRIACANTHOS	HONEYLOCUST	M	A	REMOVE	IN FUTURE PAVMENT
50	22.7	ACER SACCHARINUM	SILVER MAPLE	M	A	REMOVE	IN FUTURE PAVMENT
51	23.1	ACER SACCHARINUM	SILVER MAPLE	M	A	REMOVE	DISTURBANCE IN CRITICAL ROOT ZONE
52	25.5	ACER PLATANOIDES	NORWAY MAPLE	S	B	REMOVE	OPEN VIEW CORRIDOR
53	17.0	ACER SACCHARUM	SUGAR MAPLE	M	A/B	REMOVE	OPEN VIEW CORRIDOR
54	15.1	ACER SACCHARUM	SUGAR MAPLE	S	B/C	REMOVE	OPEN VIEW CORRIDOR
55	10.5	MALUS	CRABAPPLE	S	C	REMOVE	POOR CONDITION
56	4.6	TILIA AMERICANA	BASSWOOD	S	C	REMOVE	POOR CONDITION

KEY:
*AGE:
S - Semi-Mature (young trees over 5m high)
M - Mature (approximately 40-50 years old)
O - Over-Mature (die-back of branches, dead wood, etc.)
**CONDITION:
A - Good
B - Fair
C - Poor
D - Dead

TREE PROTECTION KEY

EXIST. TREE TO BE PRESERVED
 EXIST. TREE TO BE REMOVED
 TRUNK PROTECTIVE FENCING
 CRITICAL ROOT ZONE

TOTAL QUANTITIES (IN VICINITY OF DISTURBANCE AND PROPOSED IMPROVEMENTS)

EXIST. TREES TO BE PRESERVED	24
EXIST. TREES TO BE REMOVED	32
TOTAL EXISTING TREES TAGGED	56

- GENERAL NOTES
- CONTRACTOR SHALL REMOVE ALL DEDICATION AND BOTANICAL PLAQUES FROM ANY TREES BEING REMOVED AND RETURN THESE ITEMS TO THE OWNER. OWNER SHALL RE-AFFIX THESE ITEMS TO THE PROPOSED TREES UPON PROJECT COMPLETION.
 - THE INTENT IS TO KEEP THE EXISTING TREES TO BE PRESERVED IN FACT THROUGHOUT THE DURATION OF CONSTRUCTION ON-SITE. IF TREES MARKED AS PRESERVED ARE DAMAGED OR REMOVED DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR REPLACING PER THE MUNICIPALITY'S ORDINANCE, AS WELL AS COLLEGE REQUIREMENTS (IF TREES ARE DEDICATED OR USED FOR CURRICULUM).
 - CONTRACTOR IS RESPONSIBLE FOR THE HAUL-OFF OF ALL TREES & SHRUBS TO BE REMOVED.
 - CONTRACTOR IS RESPONSIBLE FOR GRINDING ALL STUMPS ON REMOVED TREES.
 - SEE SHEET L-09 FOR TREE PRESERVATION DETAILS.



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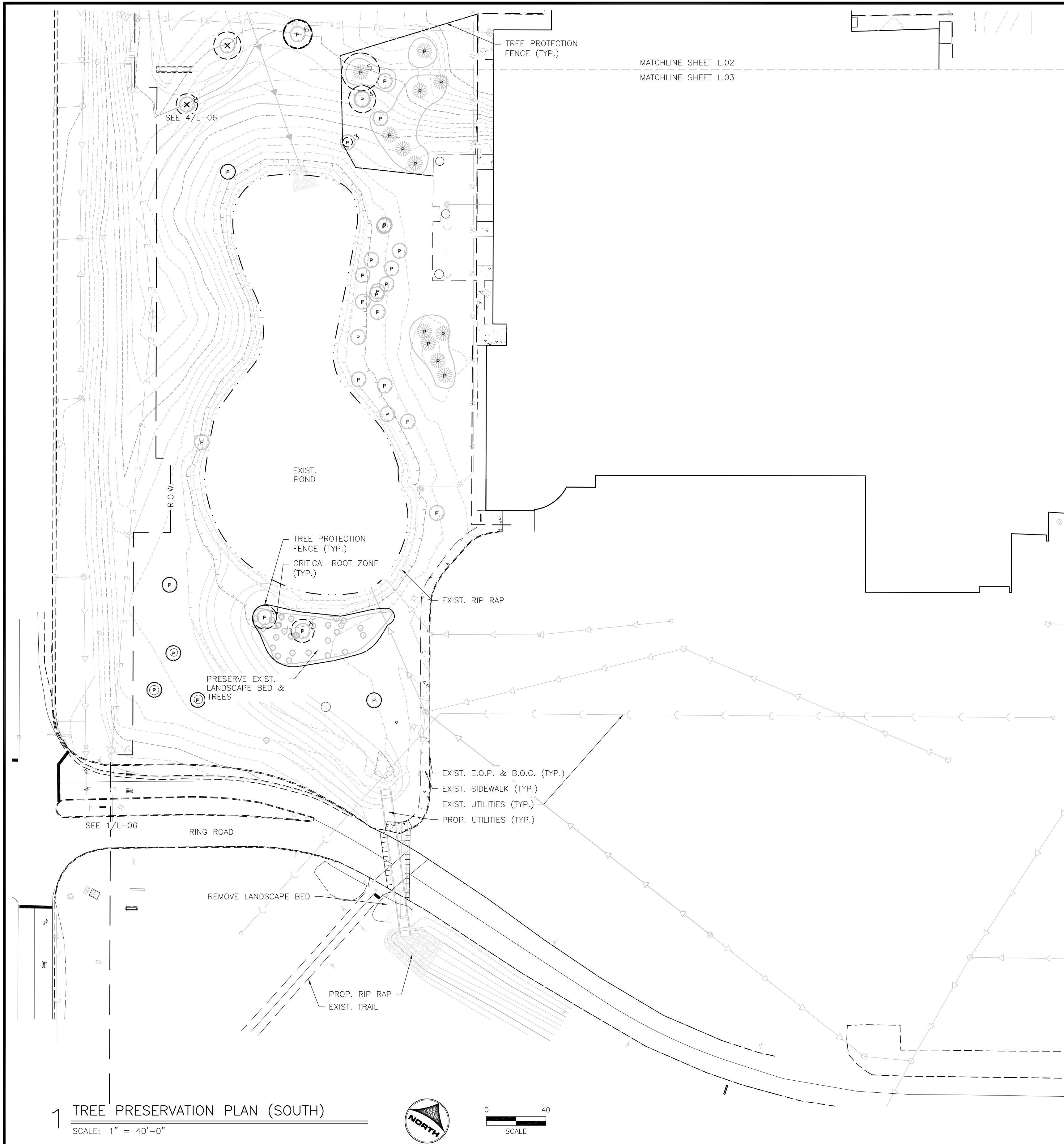
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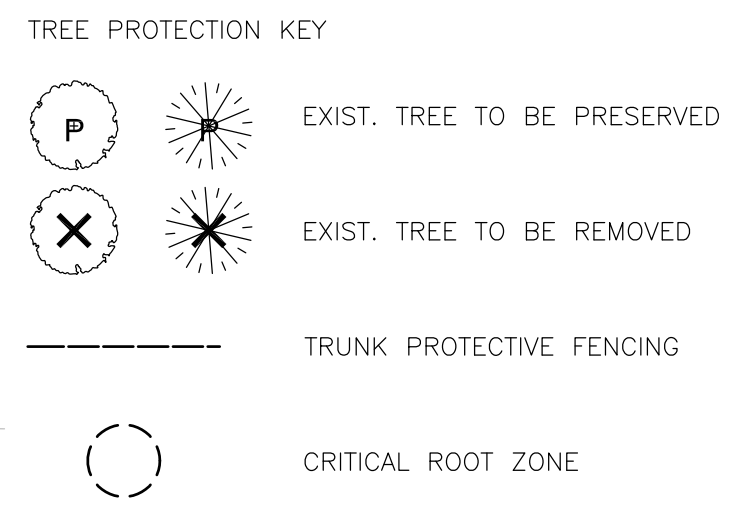
McHENRY COUNTY COLLEGE
 PARKING LOT A RECONSTRUCTION
 CRYSTAL LAKE, ILLINOIS

LANDSCAPING
 TREE PRESERVATION PLAN

SHEET NO.
 L-02



McHENRY COUNTY COLLEGE - PARKING LOT A RECONSTRUCTION							
February 19, 2016							
TREE SURVEY							
TAG #	DBH (INCHES)	BOTANICAL NAME	COMMON NAME	AGE*	CONDITION**	ACTION	REASON
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4	9.1	MALUS	CRABAPPLE	S	A	PRESERVE	
5	12.9	PICEA PUNGENS VAR. GLAUCA	BLUE SPRUCE	S	A	PRESERVE	
6	9.3	ACER RUBRUM	RED MAPLE	S	B/C	PRESERVE	
7	9.2	ACER RUBRUM	RED MAPLE	S	A	REMOVE	DISTURBANCE IN CRITICAL ROOT ZONE
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 - SEE SHEET L-09 FOR TREE PRESERVATION DETAILS.



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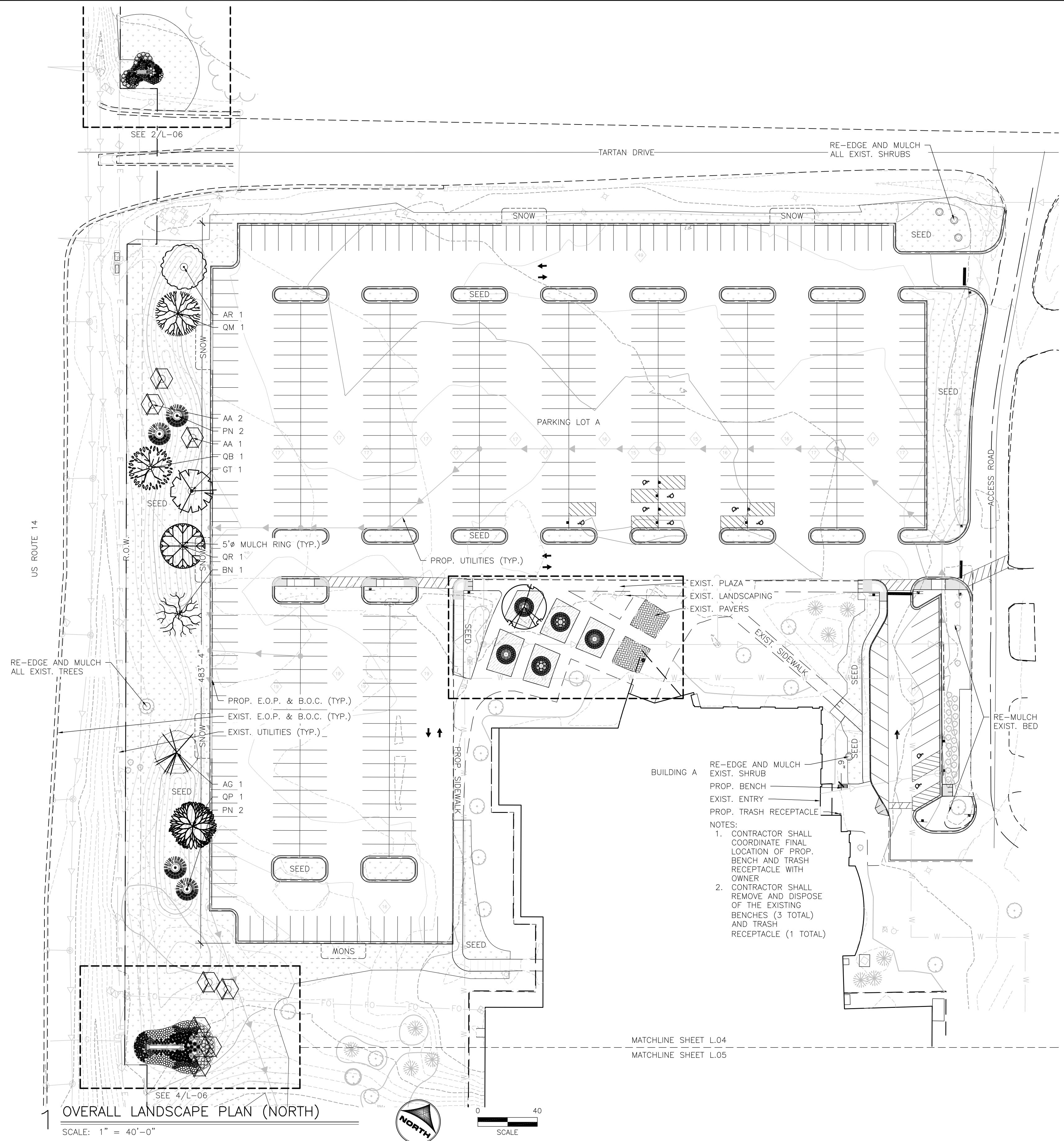
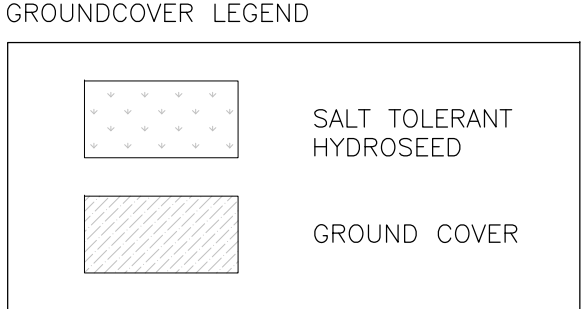
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McHENRY COUNTY COLLEGE
 PARKING LOT A RECONSTRUCTION
 CRYSTAL LAKE, ILLINOIS

LANDSCAPING
 TREE PRESERVATION PLAN

SHEET NO.
 L-03



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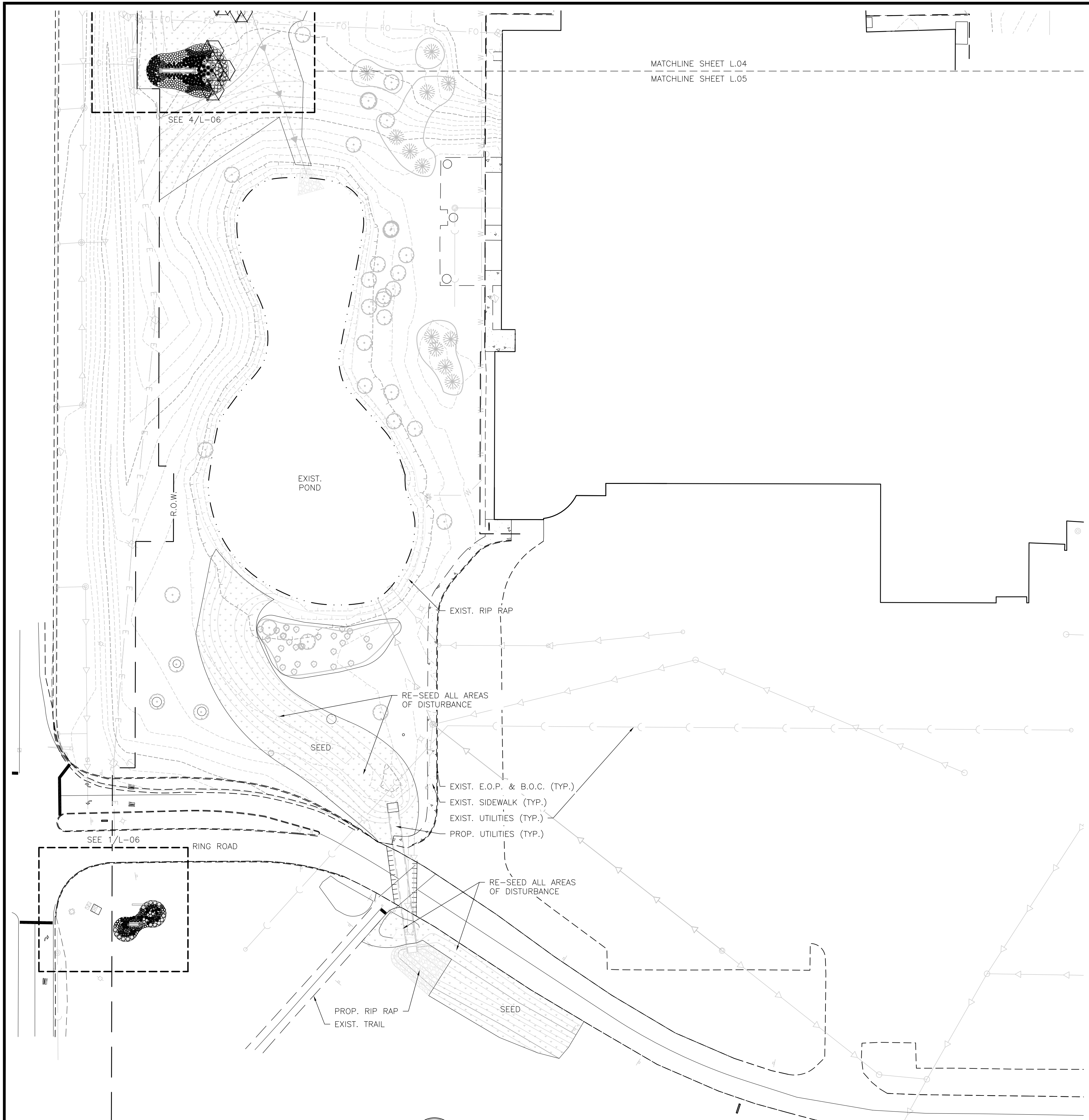
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 420 N. FRONT STREET, SUITE 100
 McHENRY, ILLINOIS 60050
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 FAX: 815.385.1781 | HRGreen.com



McHENRY COUNTY COLLEGE
 PARKING LOT A RECONSTRUCTION
 CRYSTAL LAKE, ILLINOIS

LANDSCAPING
 LANDSCAPE PLAN

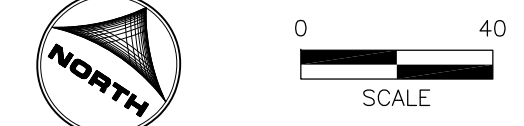
SHEET NO.
 L-04



GROUND COVER LEGEND

- SALT TOLERANT HYDROSEED
- GROUND COVER

1 OVERALL LANDSCAPE PLAN (SOUTH)
SCALE: 1" = 40'-0"



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JOB NUMBER: 86150398

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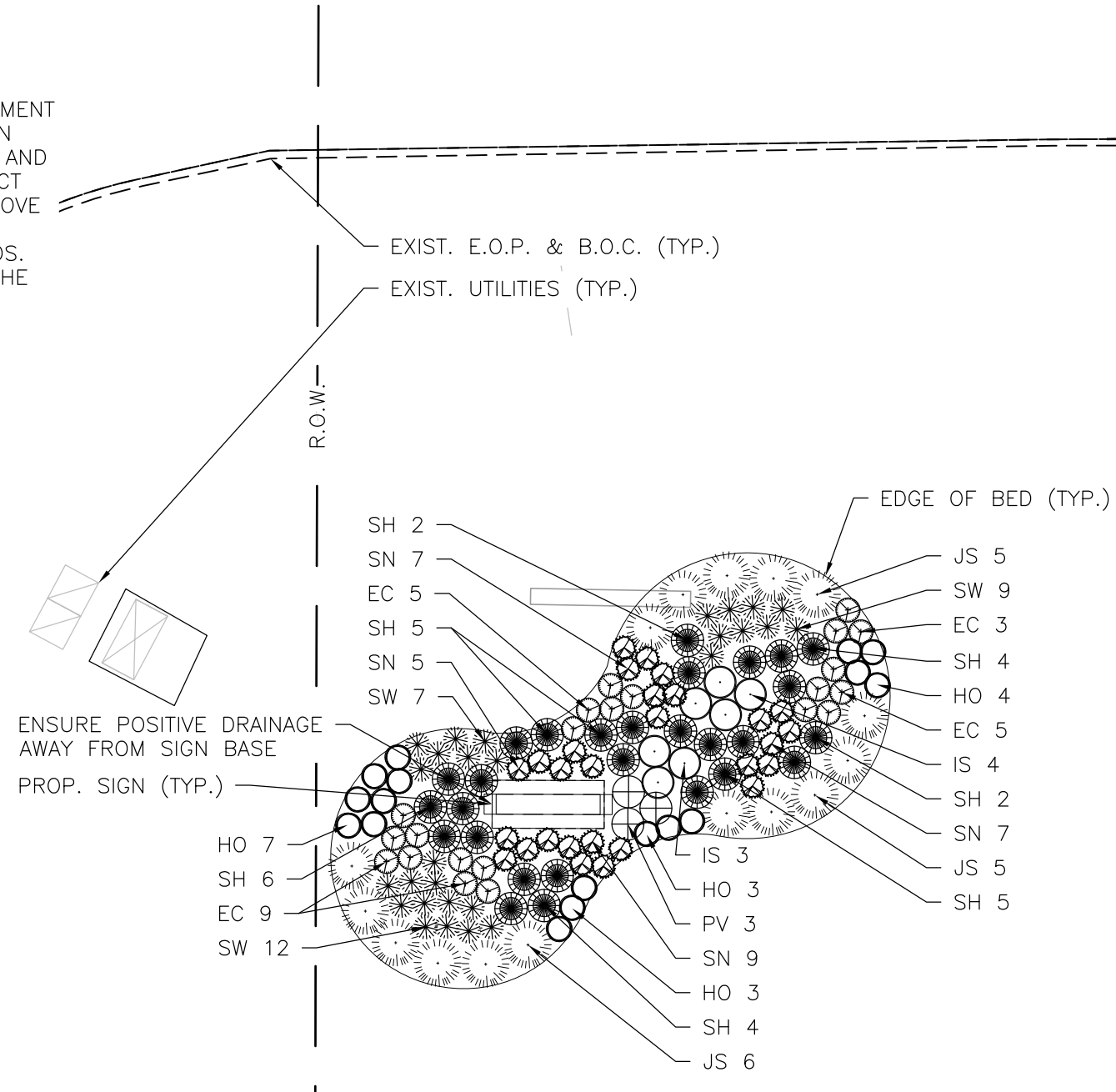


McHENRY COUNTY COLLEGE
PARKING LOT A RECONSTRUCTION
CRYSTAL LAKE, ILLINOIS

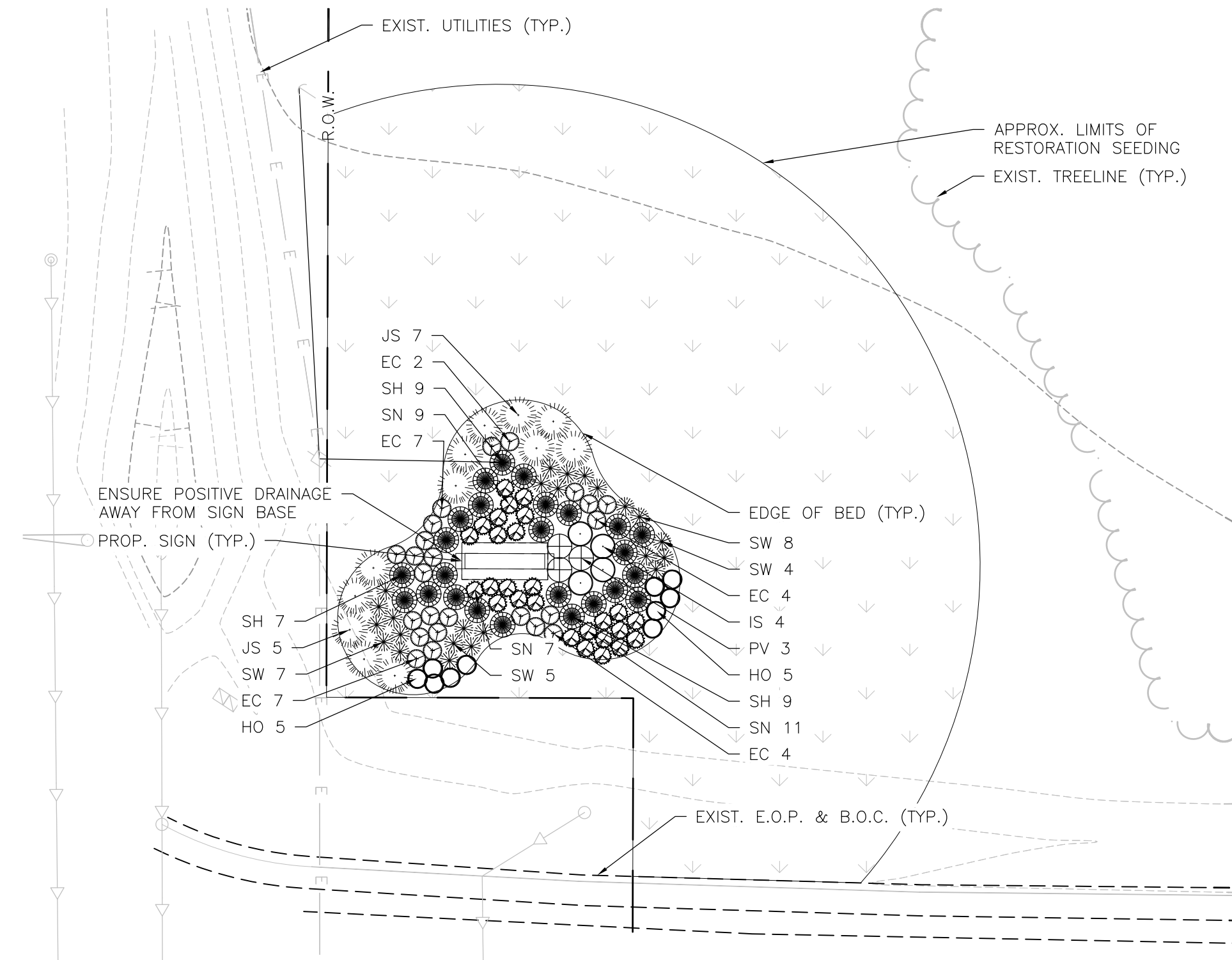
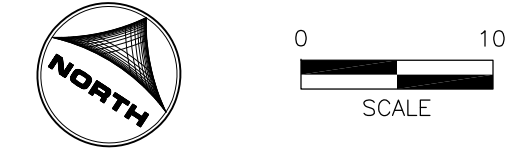
LANDSCAPING
LANDSCAPE PLAN

SHEET NO.
L-05

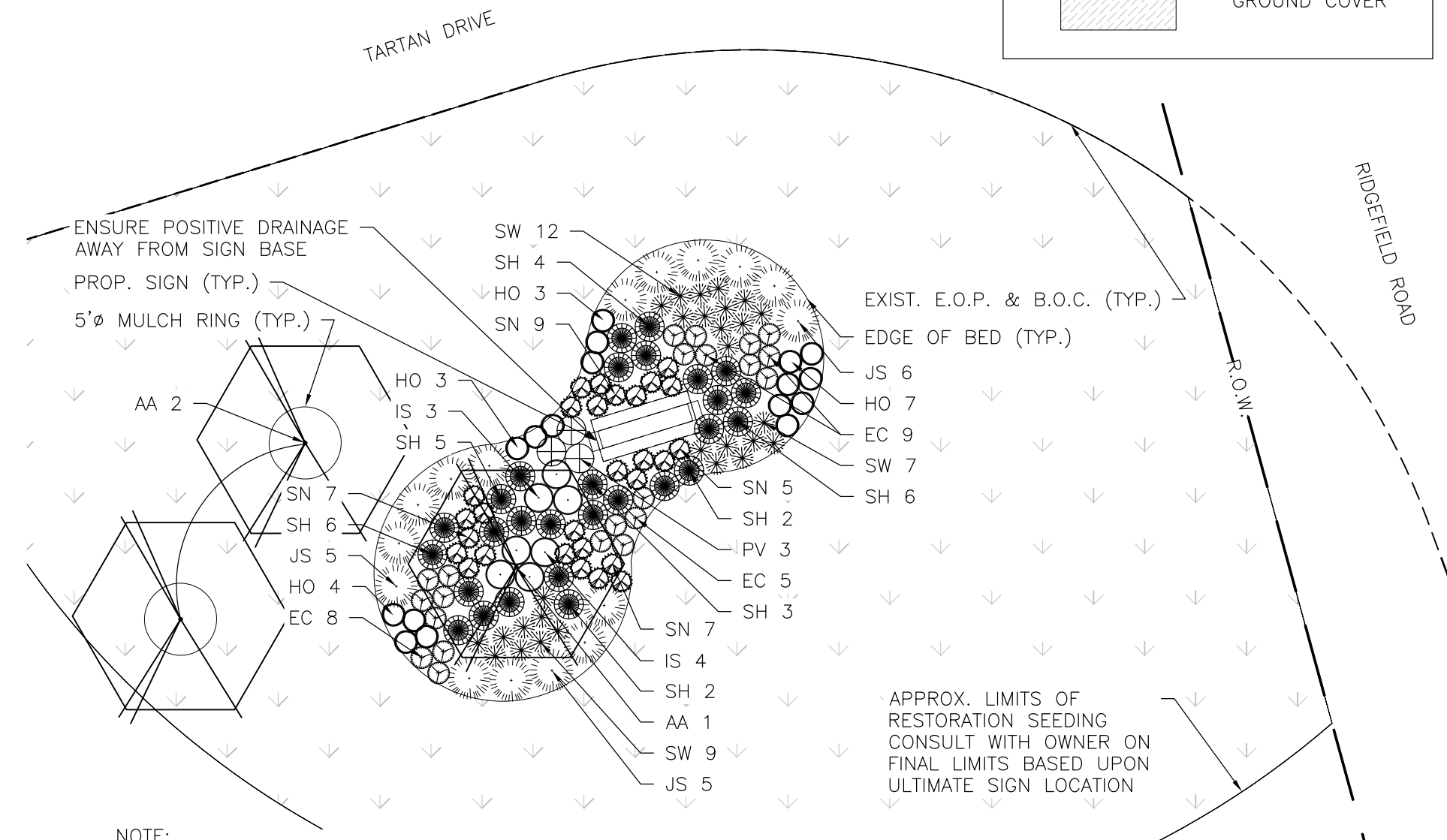
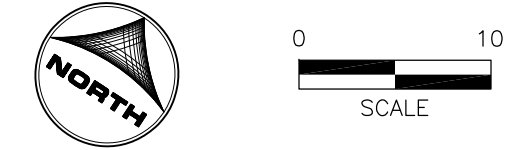
NOTE:
 1. ALL PROPOSED ENTRANCE MONUMENT SIGNS AND MAIN MONUMENT SIGN ARE UNDER A SEPARATE COVER AND ARE NOT PART OF THIS CONTRACT
 2. CONTRACTOR WILL NEED TO REMOVE TURF AROUND THE SIGNS FOR INSTALLATION OF THE PLANT BEDS. THIS SHALL BE INCIDENTAL TO THE PLANTING.



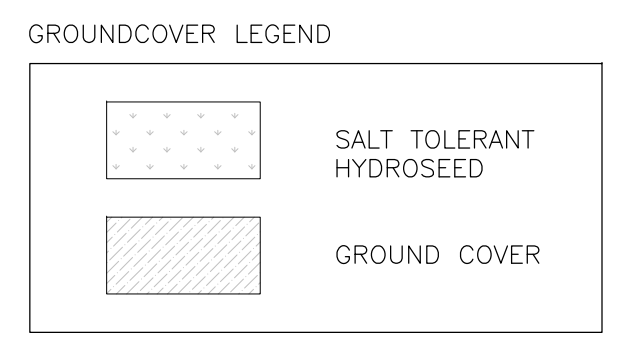
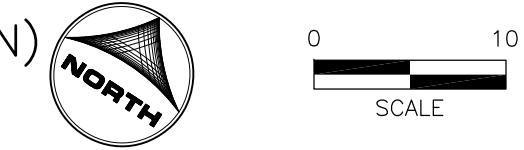
1 LANDSCAPE PLAN (ENTRANCE #1 SIGN)
 SCALE: 1" = 10'-0"



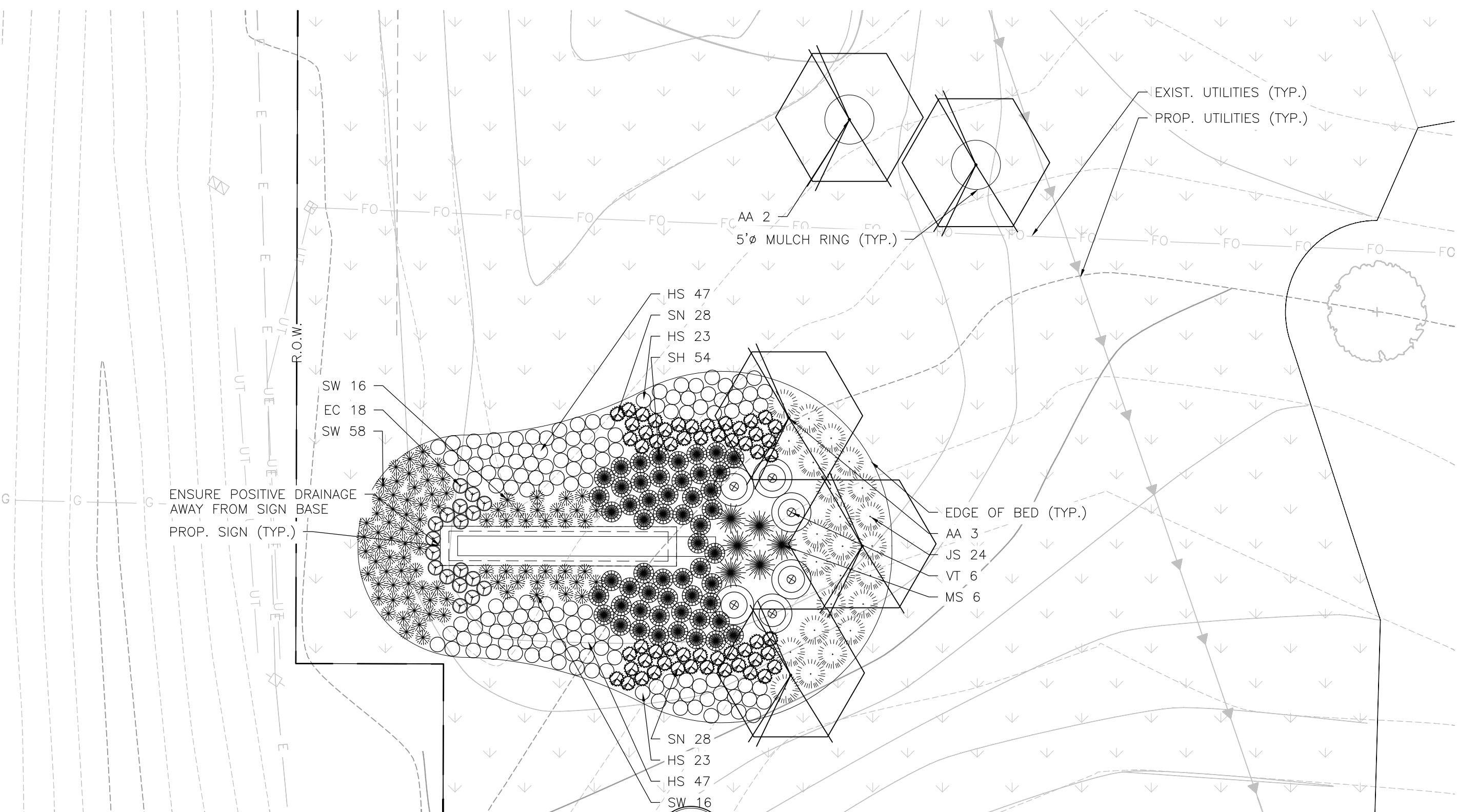
2 LANDSCAPE PLAN (ENTRANCE #3 SIGN)
 SCALE: 1" = 10'-0"



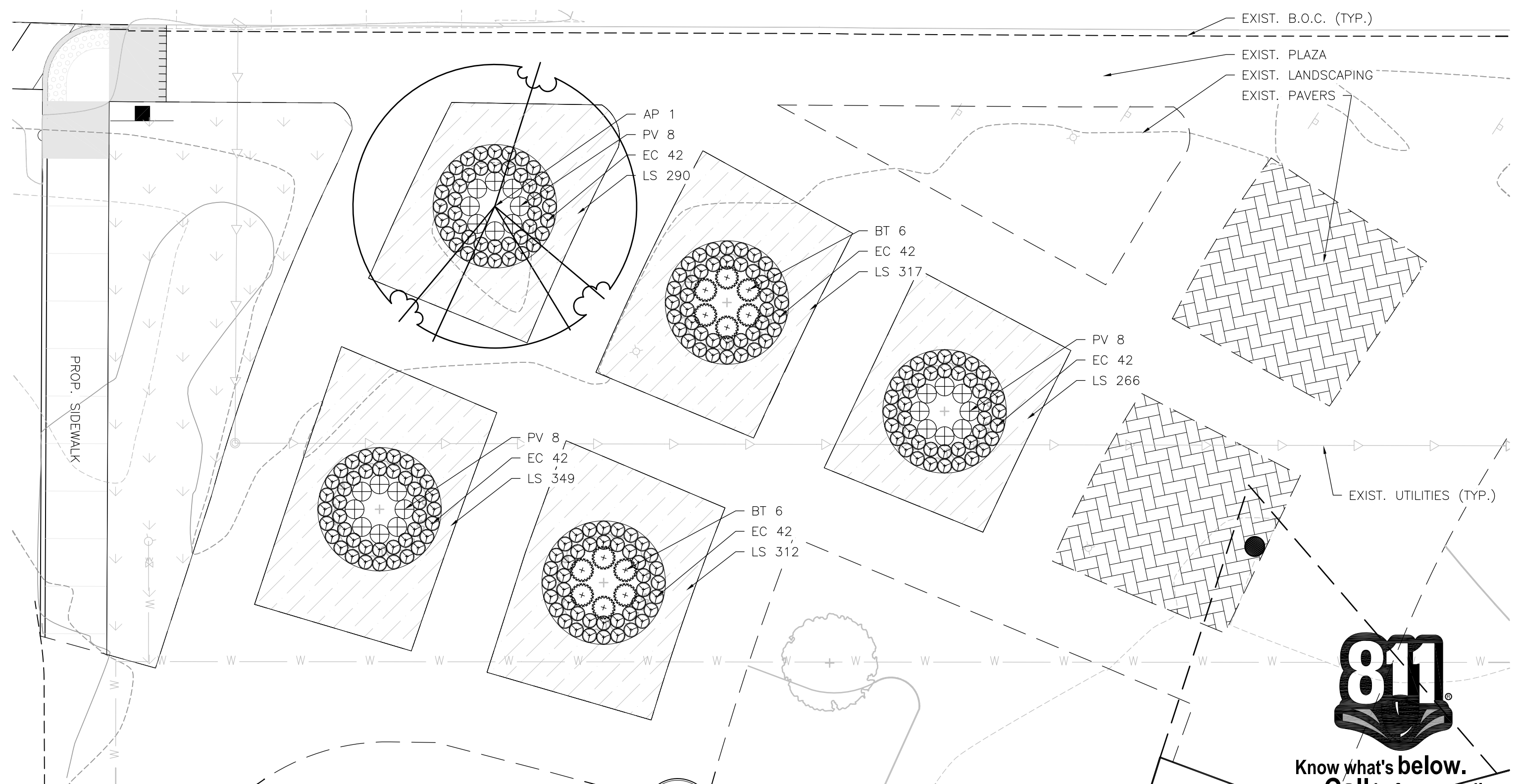
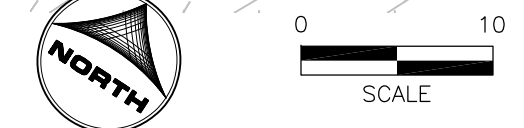
3 LANDSCAPE PLAN (ENTRANCE TARTAN DR. SIGN)
 SCALE: 1" = 10'-0"



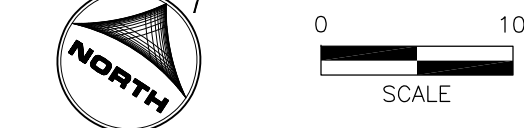
NOTE:
 CURRENT SURVEY AND BASE INFORMATION FOR THIS LOCATION WAS NOT AVAILABLE DURING THE PREPARATION OF THESE PLANS, INCLUDING GRADING AND UTILITIES. CONTRACTOR SHALL FIELD LOCATE EXISTING ITEMS AS NECESSARY. SIGN LOCATION SHALL BE COORDINATED WITH OWNER, STAKED AND FIELD ADJUSTED AS NECESSARY. CONTRACTOR SHALL NOT START CONSTRUCTION OF THE SIGN PRIOR TO OBTAINING ENGINEER'S AND OWNER'S APPROVAL OF THE LOCATION.



4 LANDSCAPE PLAN (MAIN MONUMENT SIGN)
 SCALE: 1" = 10'-0"



5 LANDSCAPE PLAN (PLAZA BEDS)
 SCALE: 1" = 10'-0"



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DRAWN BY: MAR JOB DATE: 2016
 APPROVED: DLR JOB NUMBER: 86150398
 CAD DATE: 3/9/2016 12:25:34 PM
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NO.	DATE	BY	REVISION DESCRIPTION

ILLINOIS DESIGN FIRM # 184-001322
 420 N. FRONT STREET, SUITE 100
 McHENRY, ILLINOIS 60050
 PHONE: 815.385.1778 | TOLL FREE: 800.728.7805
 FAX: 815.385.1781 | HRGreen.com



McHENRY COUNTY COLLEGE
 PARKING LOT A RECONSTRUCTION
 CRYSTAL LAKE, ILLINOIS

LANDSCAPING
 LANDSCAPE PLAN

SHEET NO.
 L-06

McHENRY COUNTY COLLEGE - PARKING LOT A RECONSTRUCTION						
March 9, 2016						
MATERIALS SCHEDULE						
QTY	KEY	BOTANICAL NAME/ITEM	COMMON NAME	SIZE	COND	REMARKS
DECIDUOUS TREES						
11	AA	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	APPLE SERVICEBERRY	8' HT.	B&B	MULTI-STEMMED; 2' CLEAR TRUNK; MATCHED
1	AG	AESCULUS GLABRA	OHIO BUCKEYE	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
1	AP	ACER PLATANOIDES 'ROYAL RED'	NORWAY MAPLE	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
1	AR	ACER RUBRUM	RED MAPLE	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
1	BN	BETULA NIGRA 'CULLY'	RIVER BIRCH	8' HT.	B&B	MULTI-STEMMED; MATCHED
1	GT	GLEDITSIA TRIACANTHOS VAR. INERMIS 'SKYCOLE'	THORNLESS HONEYLOCUST	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
1	OB	QUERCUS BICOLOR	SWAMP WHITE OAK	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
1	QM	QUERCUS MACROCARPA	BUR OAK	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
1	QP	QUERCUS PALUSTRIS	PIN OAK	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
1	QR	QUERCUS RUBRA	RED OAK	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
EVERGREEN TREES						
4	PN	PINUS NIGRA	AUTRIAN PINE	6' HT.	B&B	CENTRAL LEADER; MATCHED
DECIDUOUS SHRUBS						
12	BT	BERBERIS THUNBERGII 'ATROPURPUREA NANA'	CRIMSON PYGMY BARBERRY	#2 / 18" SPRD.	CONT.	30" O.C.; MATCHED
6	VT	VIBURNUM TRILOBUM 'ALFREDO'	COMPACT CRANBERRYBUSH VIBURNUM	#5 / 36" HT.	CONT.	48" O.C.; MATCHED
EVERGREEN SHRUBS						
68	JS	JUNIPERUS SABINA 'BLUE FOREST'	JUNIPER	#5 / 18" SPRD.	CONT.	36" O.C.; MATCHED
PERENNIALS, GRASSES & GROUND COVER						
296	EC	ECHINACEA 'CLEOPATRA'	CONEFLOWER	#1	CONT.	18" O.C.; MATCHED
44	HO	HEUCHERA 'OBSIDIAN'	CORALBELLS	#1	CONT.	18" O.C.; MATCHED
140	HS	HEMEROCALLIS 'STELLA DE ORO'	DAYLILY	#1	CONT.	18" O.C.; MATCHED
18	IS	IRIS SIBIRICA 'CAESAR'S BROTHER'	SIBERIAN IRIS	#1	CONT.	24" O.C.; MATCHED
1,534	LS	LIRIOPE SPICATA	CREEPING LILYTURF	1 CELL - 10 FLAT	CONT.	12" O.C.; MATCHED
6	MS	MISCANTHUS SINENSIS 'MORNING LIGHT'	MAIDEN GRASS	#3	CONT.	36" O.C.; MATCHED
33	PV	PANICUM VIRGATUM 'SHENANDOAH'	RED SWITCH GRASS	#3	CONT.	24" O.C.; MATCHED
135	SH	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSSEED	#1	CONT.	24" O.C.; MATCHED
139	SN	SALVIA NEMOROSA 'MAY NIGHT'	SALVIA	#1	CONT.	18" O.C.; MATCHED
170	SW	SALVIA NEMOROSA 'WESUWE'	SALVIA	#1	CONT.	18" O.C.; MATCHED
MISCELLANEOUS						
77	MULCH	3" DEEP SHREDDED HARDWOOD MULCH		CY		
9,102	HYDRO	SALT TOLERANT HYDROSEED TURF SEED - CLESEN PREMIUM MIX (ARTHUR CLESEN, INC.)		SY		
*NO PLANT SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER						

ORDINANCE LANDSCAPE REQUIREMENTS

TREE PRESERVATION
PER THE ORDINANCE, McHENRY COUNTY COLLEGE IS EXEMPT FROM THE TREE PRESERVATION REQUIREMENTS

PARKING LOT INTERIOR LANDSCAPING (PARKING LOTS DESIGNED FOR MORE THAN 200 SPACES)
N/A PER CITY

PARKING LOT PERIMETER LANDSCAPING NOT ABUTTING RIGHTS-OF-WAY (PARKING LOTS DESIGNED FOR MORE THAN 200 SPACES)
N/A PER CITY

PARKING LOT PERIMETER LANDSCAPING ABUTTING RIGHTS-OF-WAY (PARKING LOTS DESIGNED FOR MORE THAN 200 SPACES)

WHERE PARKING LOTS ARE ADJACENT TO A PUBLIC OR PRIVATE STREET, THE FOLLOWING SHALL APPLY: CONTINUOUS VISUAL SCREEN. PERIMETER LANDSCAPING FOR PARKING AREAS SHALL FORM A CONTINUOUS VISUAL SCREEN, EXCLUDING REQUIRED SIGHT CLEARANCES AT DRIVEWAYS. THIS LANDSCAPING SHALL BE IN UNDULATING BEDS, WITH PLANTINGS AT VARYING HEIGHTS FORMING AN INTERESTING VISUAL PATTERN.
(i) MINIMUM WIDTH. THE MINIMUM WIDTH OF THE PERIMETER LANDSCAPING STRIP SHALL BE 15 FEET. WHERE PARKING LOTS ARE REQUIRED TO PROVIDE SETBACKS GREATER THAN 20 FEET, DUE TO GREATER DEPTHS OF THE LOTS (REFER TO SECTION 4-200, OFF-STREET PARKING AND LOADING), THE MINIMUM WIDTH OF THE PERIMETER LANDSCAPING STRIP SHALL BE 20 FEET. FOR EVERY ADDITIONAL FIVE FEET OF SETBACK BEYOND 25 FEET, 2 1/2 FEET OF ADDITIONAL LANDSCAPING STRIP DEPTH (BEYOND 20 FEET) SHALL BE REQUIRED.
(ii) REQUIRED PLANTING. A SCREEN COMPRISING OF EVERGREEN AND DECIDUOUS SHRUBS, A MINIMUM THREE FEET IN HEIGHT (AT PLANTING) SHALL BE PROVIDED. THIS LANDSCAPING SHALL BE IN UNDULATING BEDS, WITH PLANTINGS AT VARYING HEIGHTS FORMING AN INTERESTING VISUAL PATTERN. A PERMISSIBLE ALTERNATIVE IS TO PROVIDE A BERM, 2 1/2 FEET HIGH THAT SEEDED, SODDED OR PLANTED WITH OTHER GROUND COVER, AT LEAST ONE TREE FOR EVERY 40 LINEAL FEET OF PARKING LOT ADJACENT TO THE RIGHT-OF-WAY SHALL BE PROVIDED WITHIN THE LANDSCAPING STRIP. ONE-THIRD OF THESE TREES SHALL BE SHADE TREES AT LEAST 2 1/2 INCHES CALIPER SIZE AT PLANTING, ONE-THIRD ORNAMENTAL 2 1/2 INCHES CALIPER SIZE AT PLANTING AND ONE-THIRD SHALL BE EVERGREEN TREES AT LEAST SIX FEET TALL AT PLANTING. THESE TREES ARE IN ADDITION TO THE PARKWAY TREES REQUIREMENT.

+50' WIDE PERIMETER LANDSCAPING STRIP PROVIDED
+2.5' HIGH BERM WITH TURF SEEDING PROVIDED IN LIEU OF SHRUB SCREEN
483.3 LF OF PARKING LOT ABUTTING ROUTE 14 R.O.W.
483.3 LF / 40 LF = 12.08 ≈ 13 TREES REQUIRED (5 SHADE TREES; 4 ORNAMENTAL TREES; 4 EVERGREEN TREES)

MATERIAL	REQUIRED	PROVIDED
SHADE TREES	5	7
ORNAMENTAL TREES	4	4
EVERGREEN TREES	4	4

FOUNDATION LANDSCAPING
N/A - NO BUILDING IMPROVEMENTS OR MODIFICATIONS

BUFFER LANDSCAPING
N/A

PARKWAY LANDSCAPING
N/A

SIGN LANDSCAPING
LANDSCAPE AREA. THE AMOUNT OF LANDSCAPE AREA REQUIRED SHALL BE ONE SQUARE FOOT OF LANDSCAPE AREA PER ONE SQUARE FOOT OF SIGN AREA. THE LANDSCAPING SHALL BE LOCATED IN AN AREA RADIATING FROM THE BASE OF THE SIGN.

REQUIRED LANDSCAPING. A MIX OF SMALL DECIDUOUS TREES, MEDIUM EVERGREEN TREES, ORNAMENTAL TREES AND DECIDUOUS AND EVERGREEN SHRUBS IS REQUIRED, AT LEAST 50% OF THE REQUIRED LANDSCAPING AREA SHALL BE PLANTED WITH TREES AND/OR SHRUBS. THE REMAINING AREA SHALL CONSIST OF ANNUAL AND PERENNIAL FLOWERS AND GROUND COVERS, PLANTED TO ACCENT THE TREES AND SHRUBS.

ENTRANCE #1 SIGN	±50 SF X 2 SIDES =	100 SF OF LANDSCAPING AREA REQUIRED 123% (123 SF) OF REQUIRED LANDSCAPING AREA CONSISTS OF SHRUBS	486 SF PROVIDED
ENTRANCE #3 SIGN	±50 SF X 2 SIDES =	100 SF OF LANDSCAPING AREA REQUIRED 81% (81 SF) OF REQUIRED LANDSCAPING AREA CONSISTS OF SHRUBS	387 SF PROVIDED
ENTRANCE TARTAN DR. SIGN	±50 SF X 2 SIDES =	100 SF OF LANDSCAPING AREA REQUIRED 123% (123 SF) OF REQUIRED LANDSCAPING AREA CONSISTS OF SHRUBS	486 SF PROVIDED
MAIN MONUMENT SIGN	±285 SF X 2 SIDES =	570 SF OF LANDSCAPING AREA REQUIRED 57% (326 SF) OF REQUIRED LANDSCAPING AREA CONSISTS OF SHRUBS	1,326 SF PROVIDED

GENERAL NOTES

- BASE MAP INFORMATION IS ACCURATE AS OF THE DATE PRINTED ON THIS PACKAGE.
- THE LANDSCAPE PLANS CONTAINED HEREIN ILLUSTRATE APPROXIMATE LOCATIONS OF ALL SITE CONDITIONS. REFER TO SURVEY, ARCHITECTURAL, CIVIL ENGINEERING, STRUCTURAL, ELECTRICAL, IRRIGATION AND ALL OTHER DRAWINGS, IF AVAILABLE, FOR ADDITIONAL DETAILED INFORMATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING AWARE OF AND FIELD VERIFYING ALL RELATED EXISTING AND PROPOSED CONDITIONS, UTILITIES, PIPES AND STRUCTURES, ETC. PRIOR TO BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONTACTING J.U.L.I.E., THE MUNICIPAL PUBLIC WORKS DEPARTMENT, THE COUNTY AND ANY OTHER PUBLIC OR PRIVATE AGENCIES NECESSARY FOR UTILITY LOCATION PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF APPARENT CONFLICTS WITH CONSTRUCTION AND UTILITIES SO THAT ADJUSTMENTS CAN BE PLANNED PRIOR TO INSTALLATION. IF FIELD ADJUSTMENTS ARE NECESSARY DUE TO EXISTING UTILITY LOCATIONS THEY MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY AND ALL COSTS OR OTHER LIABILITIES INCURRED DUE TO DAMAGE OF SAID UTILITIES/STRUCTURES/ETC.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS. THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS APPARENT THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR CLARIFICATION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL LIABILITIES, INCLUDING NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- THE CONTRACTOR SHALL COMPLY WITH ALL CODES APPLICABLE TO THIS WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH SUBCONTRACTORS AND OTHER CONTRACTORS OF RELATED TRADES, AS REQUIRED, TO ACCOMPLISH THE PLANTING AND RELATED OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLANT MATERIAL WITH THE INSTALLATION OF OTHER IMPROVEMENTS SUCH AS HARDSCAPE ELEMENTS AND RELATED STRUCTURES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE TO RESTORE ALL AREAS OF THE SITE, OR ADJACENT AREAS, WHERE DISTURBED BY OPERATIONS OF OR RELATED TO THE CONTRACTOR'S WORK.
- ALL SURFACE DRAINAGE SHALL BE DIVERTED AWAY FROM STRUCTURES AND NOTED SITE FEATURES IN ALL AREAS AT A MINIMUM OF 2% SLOPE AS SHOWN ON THE CIVIL ENGINEERING PLANS. ALL AREAS SHALL POSITIVELY DRAIN AND ALL ISLANDS SHALL BE CROWNED 1" IN HEIGHT PER 1' IN ISLAND WIDTH.
- THE CONTRACTOR SHALL STAKE ALL IMPROVEMENTS AS NOTED ON THE FOLLOWING PLANS, AS WELL AS, TREE LOCATIONS AND THE PERIMETER OF SHRUB/PERENNIAL BEDS PRIOR TO INSTALLATION AND CONTACT THE OWNER'S REPRESENTATIVE FOR APPROVAL. FINAL LOCATION AND STAKING OF ALL IMPROVEMENTS SHALL BE ACCEPTED BY THE OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.
- IF CONFLICTS ARISE BETWEEN THE SIZE OF AREAS AND PLANS, THE CONTRACTOR IS REQUIRED TO CONTACT THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO INSTALLATION.
- WHERE PROVIDED, AREA TAKEOFFS AND PLANT QUANTITY ESTIMATES IN THE PLANT LIST ARE FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE TO DO THEIR OWN QUANTITY TAKE-OFFS FOR ALL PLANT MATERIALS AND SIZES SHOWN ON PLANS. IN CASE OF ANY DISCREPANCIES, PLANS TAKE PRECEDENCE OVER CALL-OUTS AND/OR THE PLANT LIST(S).
- ALL PLANTS SHALL BE NURSERY GROWN PLANTS MEETING AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) STANDARDS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1-2004). PLANTS ARE TO BE TYPICAL IN SHAPE AND SIZE FOR SPECIES. PLANTS PLANTED IN ROWS OR GROUPS SHALL BE MATCHED IN FORM. PLANTS SHALL NOT BE ROOT-BOUND OR LOOSE IN THEIR CONTAINERS. HANDLE ALL PLANTS WITH CARE IN TRANSPORTING, PLANTING AND MAINTENANCE UNTIL INSPECTION AND FINAL ACCEPTANCE. FIELD COLLECTED MATERIAL SHALL NOT BE USED UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.
- FERTILIZING, AS SPECIFIED, STAKING, WATERING AND ONE (1) YEAR PLANT WARRANTY FOR INSTALLED PLANT MATERIAL, SHALL BE CONSIDERED INCIDENTAL TO THE PLANT ITEMS.
- MUSHROOM COMPOST SHALL BE FINELY SCREENED, HOMOGENOUS, DECOMPOSED ORGANIC MATERIAL SUITABLE FOR HORTICULTURAL USE AS AVAILABLE FROM MIDWEST TRADING HORTICULTURAL SUPPLIES, INC. ST. CHARLES, IL 60174 (630) 365-1990 OR APPROVED EQUAL. MIX THOROUGHLY IN PLANT BED BEFORE INSTALLING PLANTS.
- WARRANTY: ONE (1) YEAR REPLACEMENT WARRANTY FOR ALL PLANT MATERIALS SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT. WARRANTY SHALL COVER PLANTS WHICH HAVE DIED OR PARTIALLY DIED (THEREBY RUINING THEIR NATURAL SHAPE), BUT SHALL NOT INCLUDE DAMAGE BY VANDALISM, BROWSING, HAIL, ABNORMAL FREEZES, DROUGHT OR NEGLIGENCE BY THE OWNER. THE WARRANTY IS INTENDED TO COVER CONTRACTOR NEGLIGENCE, INFESTATIONS, DISEASE AND DAMAGE OR SHOCK TO PLANTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND WATERING THE PLANT MATERIAL AS NECESSARY, TO ENSURE GROWTH AND ESTABLISHMENT DURING THE 1-YEAR WARRANTY PERIOD. ANY PLANTS THAT ARE NOT IN A LIVE, HEALTHY, GROWING CONDITION AT THE END OF THE 1-YEAR WARRANTY PERIOD SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. PLANTS REPLACED UNDER WARRANTY WILL BE WARRANTED FOR ONE (1) YEAR FOLLOWING REPLACEMENT.

GENERAL NOTES - SPECIAL REQUIREMENTS- WARRANTY AND MAINTENANCE OF SODDED AND SEEDED AREAS

- MOWING, TRIMMING AND REMOVAL OF GRASS CLIPPINGS IN TURF AREAS, DURING INITIAL 60 DAYS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DURING THIS TIME, CONTRACTOR SHALL MOW TURF AREAS AT REGULAR INTERVALS TO MAINTAIN AT A MAXIMUM HEIGHT OF 2-1/2 INCHES. DO NOT CUT MORE THAN 1/3 OF GRASS BLADE AT ANY ONE MOWING. CONTRACTOR SHALL ALSO NEATLY TRIM EDGES WHERE NECESSARY AND REMOVE CLIPPINGS AFTER MOWING AND TRIMMING.
- WARRANTY:
 - WARRANTY OF SEEDDED AND SODDED AREAS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM.
 - THE WARRANTY IS TO GUARANTEE COMPLETED SEED/SOD AREAS FOR A PERIOD OF 1 YEAR AFTER INITIAL ACCEPTANCE HAS BEEN DOCUMENTED.
 - REPLACEMENT COSTS ARE THE CONTRACTOR'S RESPONSIBILITY, EXCEPT FOR THOSE RESULTING FROM LOSS OR DAMAGE DUE TO VANDALISM, CIVIL DISOBEDIENCE, ACTS OF NEGLIGENCE ON THE PART OF OTHERS, PHYSICAL DAMAGE BY ANIMALS, VEHICLES, FIRE, OR LOSSES DUE TO CURTAILMENT OF WATER BY LOCAL AUTHORITY, OR BY "ACTS OF GOD."
- MAINTENANCE:
 - CONTRACTOR SHALL COORDINATE MAINTENANCE OPERATIONS AND ACTIVITIES WITH THE OWNER DURING THE WARRANTY PERIOD.
 - MAINTENANCE OF SEED/SOD AREAS SHALL BE PERFORMED BY TRAINED PERSONNEL SKILLED IN IDENTIFYING DESIRED AND UNDESIRABLE PLANT MATERIAL.
 - CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF SEEDDED AND SOD AREAS DURING THE 1 YEAR WARRANTY PERIOD WITH THE EXCEPTION OF ROUTINE MOWING OF TURF AREAS. ROUTINE MOWING OF TURF AREAS, DURING THE 1 YEAR WARRANTY PERIOD, WILL BE THE RESPONSIBILITY OF THE OWNER ONCE INITIAL ACCEPTANCE HAS BEEN DOCUMENTED.
 - MAINTENANCE OF SEEDDED AND SOD AREAS SHALL INCLUDE:
 - WATERING TO PREVENT GRASS AND SOIL FROM DRYING OUT.
 - ROLLING THE SURFACE TO REMOVE MINOR DEPRESSIONS OR IRREGULARITIES.
 - CONTROLLING GROWTH OF WEEDS. APPLY HERBICIDES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMEDY DAMAGE RESULTING FROM IMPROPER USE OF HERBICIDES.
 - PROTECTING SEEDDED/SOD AREAS WITH WARNING SIGNS DURING MAINTENANCE AND WARRANTY PERIOD AS DEEMED NECESSARY.
 - IN THE SPRING OF EACH YEAR DURING THE 1 YEAR WARRANTY PERIOD, THE CONTRACTOR SHALL CORRECT AND RESEED AS ORIGINALLY SPECIFIED, ANY DEFECTS IN THE SEEDDED/SOD AREAS AND GRASS STAND, SUCH AS WEEDY AREAS, ERODED AREAS, AND BARE SPOTS, UNTIL AFFECTED AREAS ARE ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.
 - IN THE SPRING DURING THE 1 YEAR WARRANTY PERIOD, THE CONTRACTOR SHALL REPLACE OR REPAIR TO ORIGINAL CONDITION, ALL DAMAGES TO PROPERTY RESULTING FROM THE SEEDING/SODDING OPERATION OR FROM THE REMEDYING OF DEFECTS, AT THE CONTRACTOR'S EXPENSE.

SPECIAL REQUIREMENTS - MAINTENANCE

- BEGIN MAINTENANCE IMMEDIATELY FOLLOWING INSTALLATION OF SOD AND CONTINUE FOR A PERIOD UNTIL SODDED AREAS ARE ESTABLISHED WITH SOD ROOTED IN PLACE. MAINTENANCE PERIOD SHALL BE A MINIMUM OF 14 DAYS.
- MAINTENANCE OF SODDED AREAS SHALL INCLUDE WATERING, WEEDING, MOWING TO A 2 - 2 1/2 INCH HEIGHT AFTER HEIGHT HAS EXCEEDED 3 INCHES AND PRIOR TO 4 INCHES, AND REPLACEMENT AND INSTALLATION OF SOD AS ORIGINALLY SPECIFIED FOR SODDED AREAS FAILING TO SURVIVE. CLIPPINGS FROM MOWING WHICH MAT ON THE GRASS, ARE TO BE REMOVED.

SPECIAL REQUIREMENTS - WARRANTY

- A WARRANTY IS REQUIRED TO GUARANTEE COMPLETED SODDING OPERATIONS PROVIDING A UNIFORMLY DENSE, LIVE, AND HEALTHY STAND OF GRASS, FREE OF WEEDS AND UNDESIRABLE GRASSES, DEBRIS, AND FREE OF ERODED AREAS, BARE SPOTS, DISEASES, AND INSECTS AT THE END OF ONE YEARS FOLLOWING THE MINIMUM MAINTENANCE PERIOD OR PROJECT ACCEPTANCE, WHICHEVER IS MORE RECENT.
- CONTRACTOR TO REPLACE AS ORIGINALLY SPECIFIED AREAS THAT HAVE FAILED TO SURVIVE, AS OFTEN AS REQUIRED, TO ESTABLISH THE SODDED LAWN AREA UNTIL ACCEPTED; AT NO ADDITIONAL COMPENSATION.
- REPAIR AND REPLACE TO ORIGINAL CONDITION ALL DAMAGES TO PROPERTY RESULTANT FROM THE SODDING OPERATION AND ALL DAMAGES AS A RESULT FROM THE REMEDYING OF THESE DEFECTS, WITHOUT ADDITIONAL COMPENSATION.



Know what's below.
Call before you dig.

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DRAWN BY: MAR JOB DATE: 2016 BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: DLR JOB NUMBER: 86150398 0 [REDACTED] 1"
CAD DATE: 3/9/2016 11:23:25 AM IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: 0:\86150398\CAD\DWGS\L\86150398_L-sheets.dwg

NO.	DATE	BY	REVISION DESCRIPTION

ILLINOIS DESIGN FIRM # 184-001322
420 N. FRONT STREET, SUITE 100
McHENRY, ILLINOIS 60050
PHONE: 815.385.1778 | TOLL FREE: 800.728.7805
FAX: 815.385.1781 | HRGreen.com



McHENRY COUNTY COLLEGE
PARKING LOT A RECONSTRUCTION
CRYSTAL LAKE, ILLINOIS

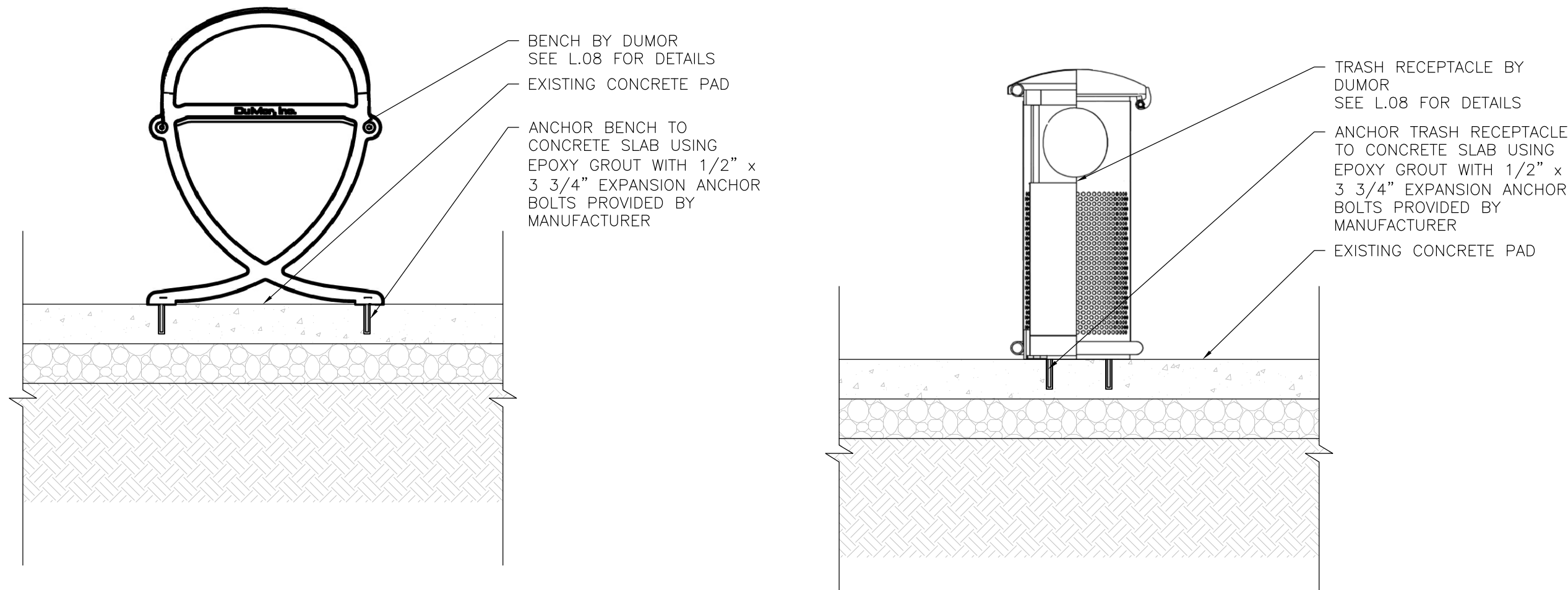
LANDSCAPING
PLANT LIST & GENERAL NOTES

SHEET NO.
L-07

McHENRY COUNTY COLLEGE - PARKING LOT A RECONSTRUCTION					
March 9, 2016					
FURNISHINGS SCHEDULE					
QTY	ITEM	MANUFACTURER & MODEL	MATERIAL & FINISH	CONTACT INFORMATION	REMARKS
1	BENCH	DUMOR, INC. 193-60 6' LONG STEEL BENCH WITHOUT BACKREST & 2 SUPPORTS	SLATS: BLACK POWDERCOAT FRAME: BLACK POWDERCOAT	MANUFACTURER: DUMOR, INC. (800) 598-4018 LOCAL REP: NUTOYS LEISURE PRODUCTS (708) 579-9055	SURFACE MOUNT SEE MANUFACTURER'S SPECIFICATIONS AND DETAILS FOR RECOMMENDATIONS
1	TRASH RECEPTACLE	DUMOR, INC. 65-944 SH1 STEEL RECEPTACLE (WITH HINGED TOP) THIS WAS USED ON ANOTHER COLLEGE PROJECT - REP SHOULD HAVE RECORD OF WHAT WAS ORDERED	FRAME: BLACK POWDERCOAT	MANUFACTURER: DUMOR, INC. (800) 598-4018 LOCAL REP: NUTOYS LEISURE PRODUCTS (708) 579-9055	SURFACE MOUNT SEE MANUFACTURER'S SPECIFICATIONS AND DETAILS FOR RECOMMENDATIONS

1 FURNISHING SCHEDULE

SCALE: NTS

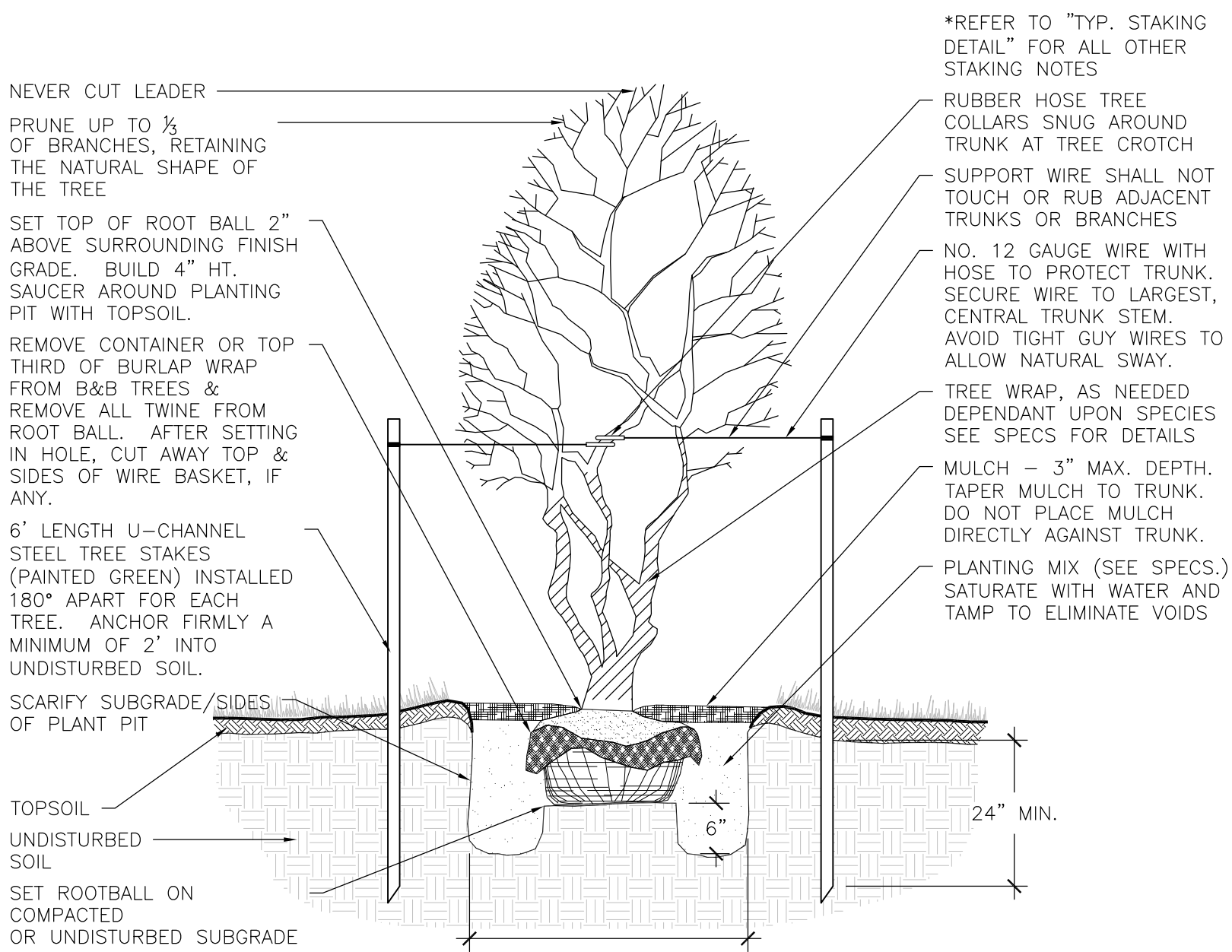


2 TYP. SECTION: BENCH

SCALE: NTS

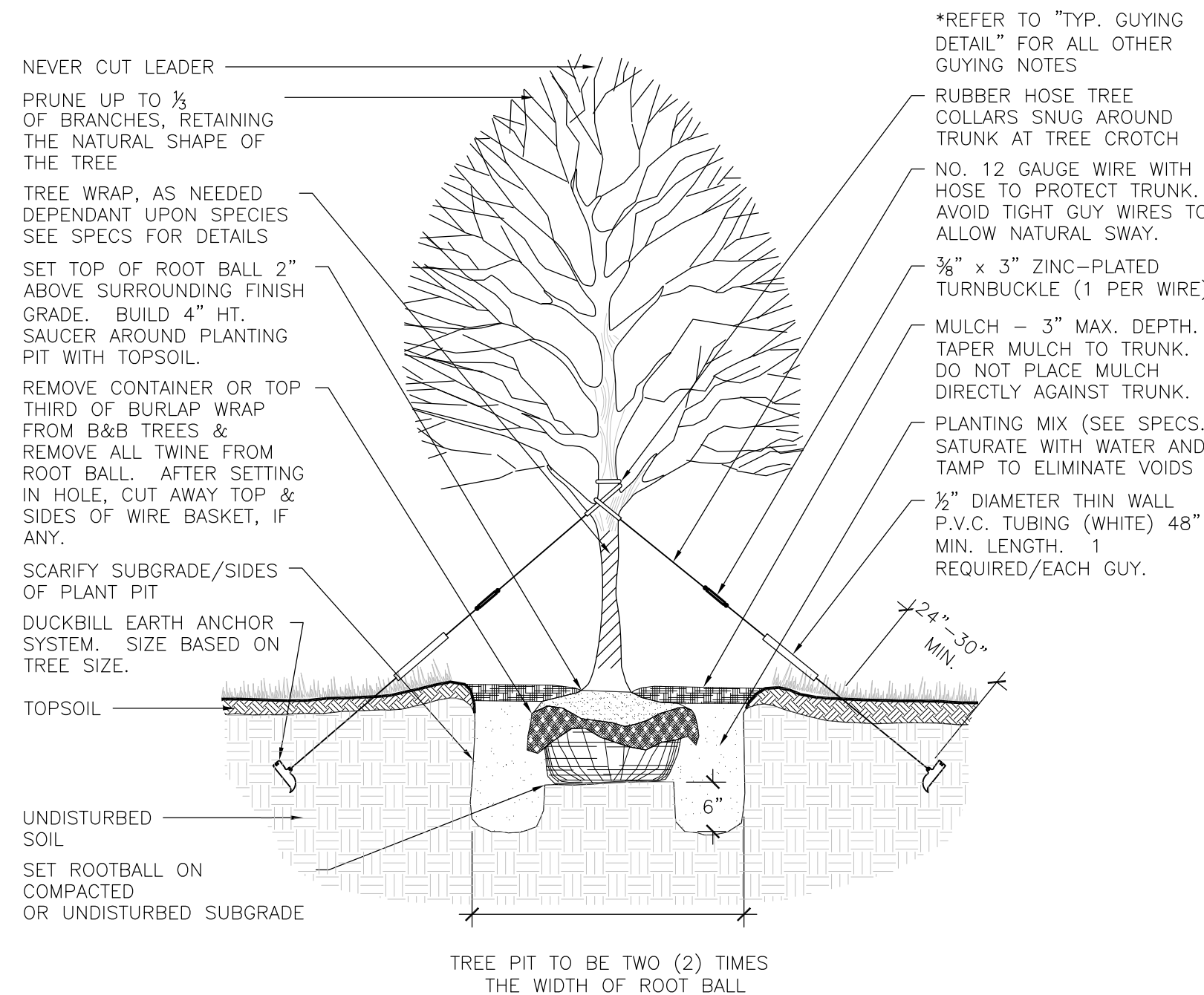
3 TYP. SECTION: TRASH RECEPTACLE

SCALE: NTS



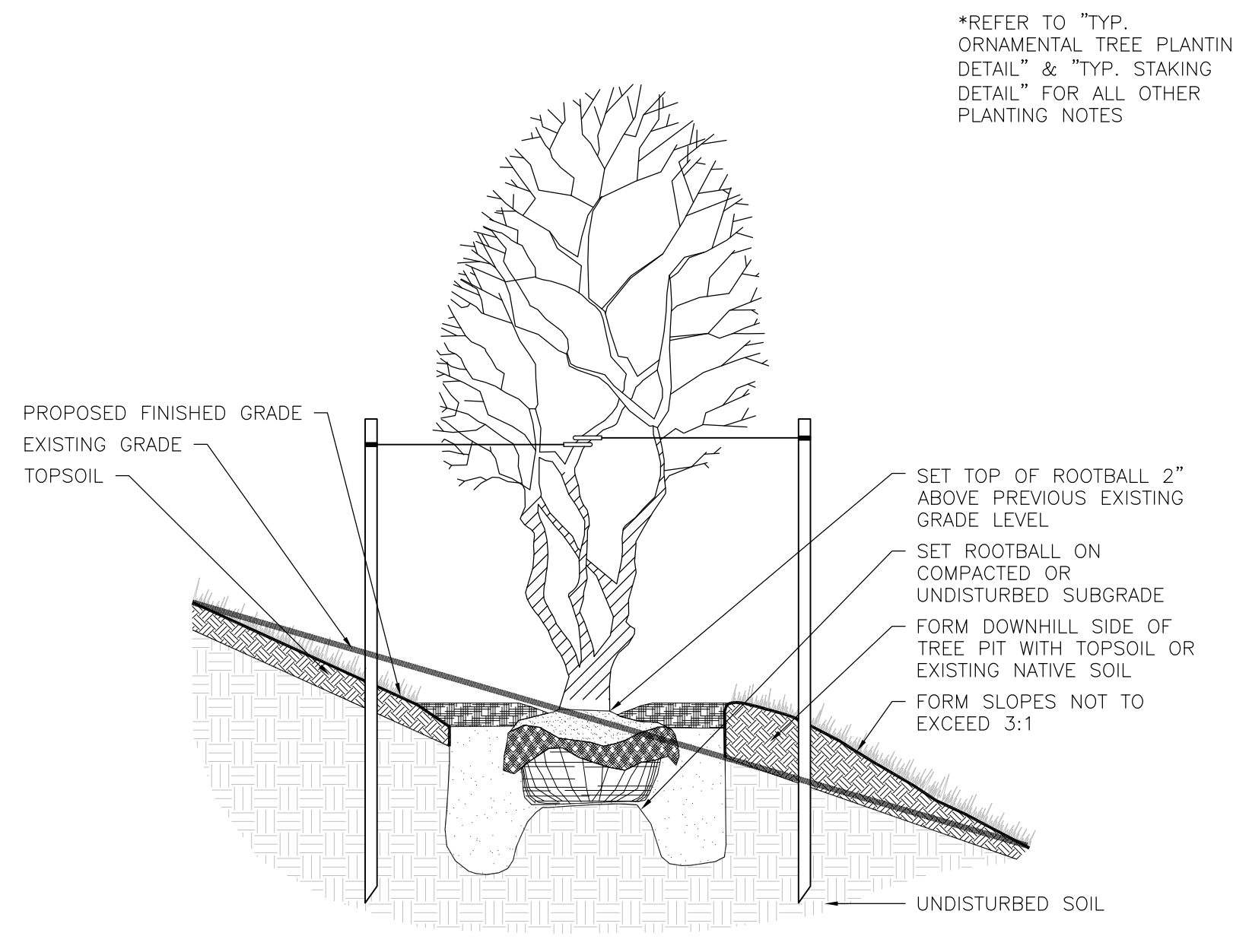
6 TYP. ORNAMENTAL TREE PLANTING DETAIL

SCALE: NTS



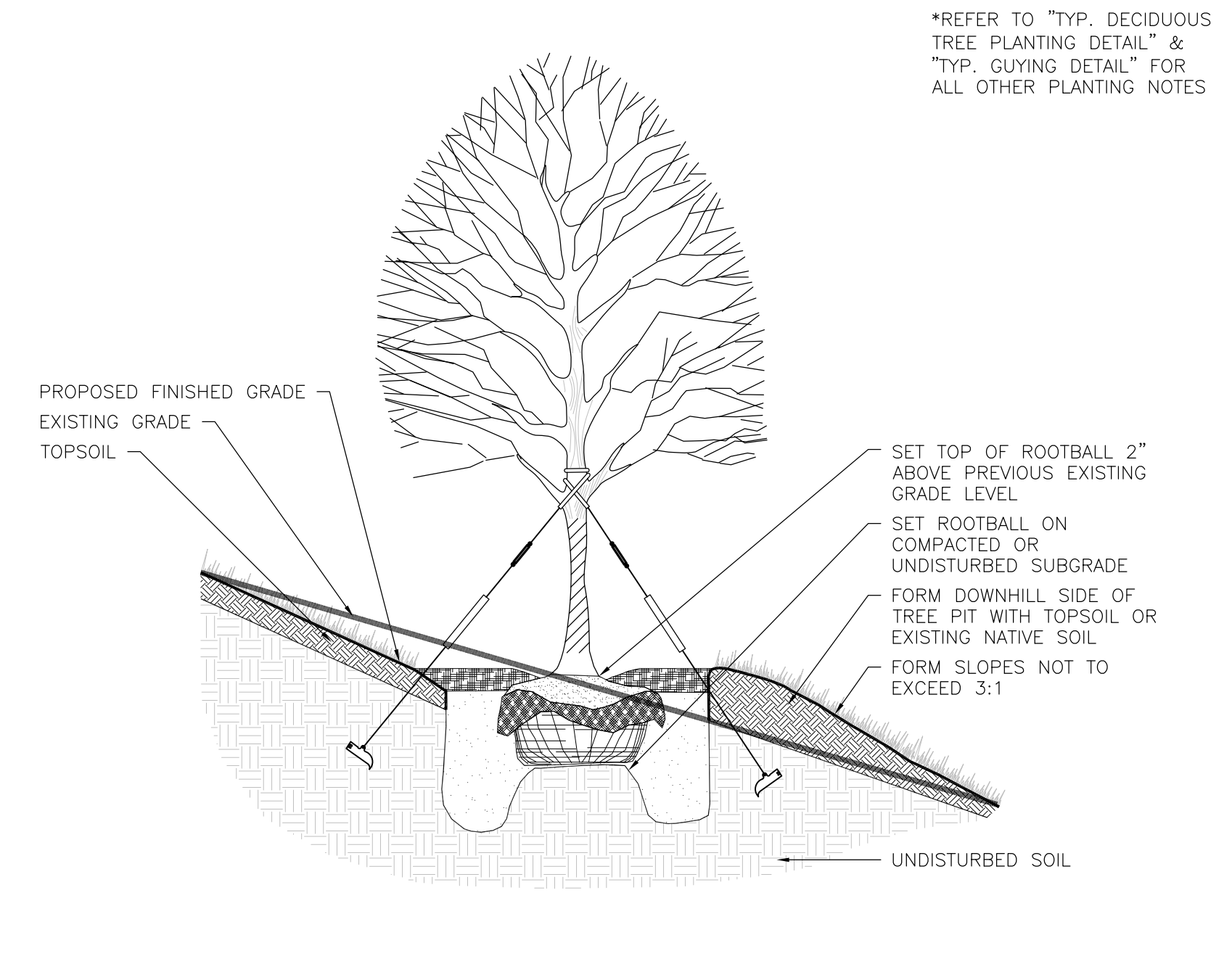
4 TYP. DECIDUOUS TREE PLANTING DETAIL

SCALE: NTS



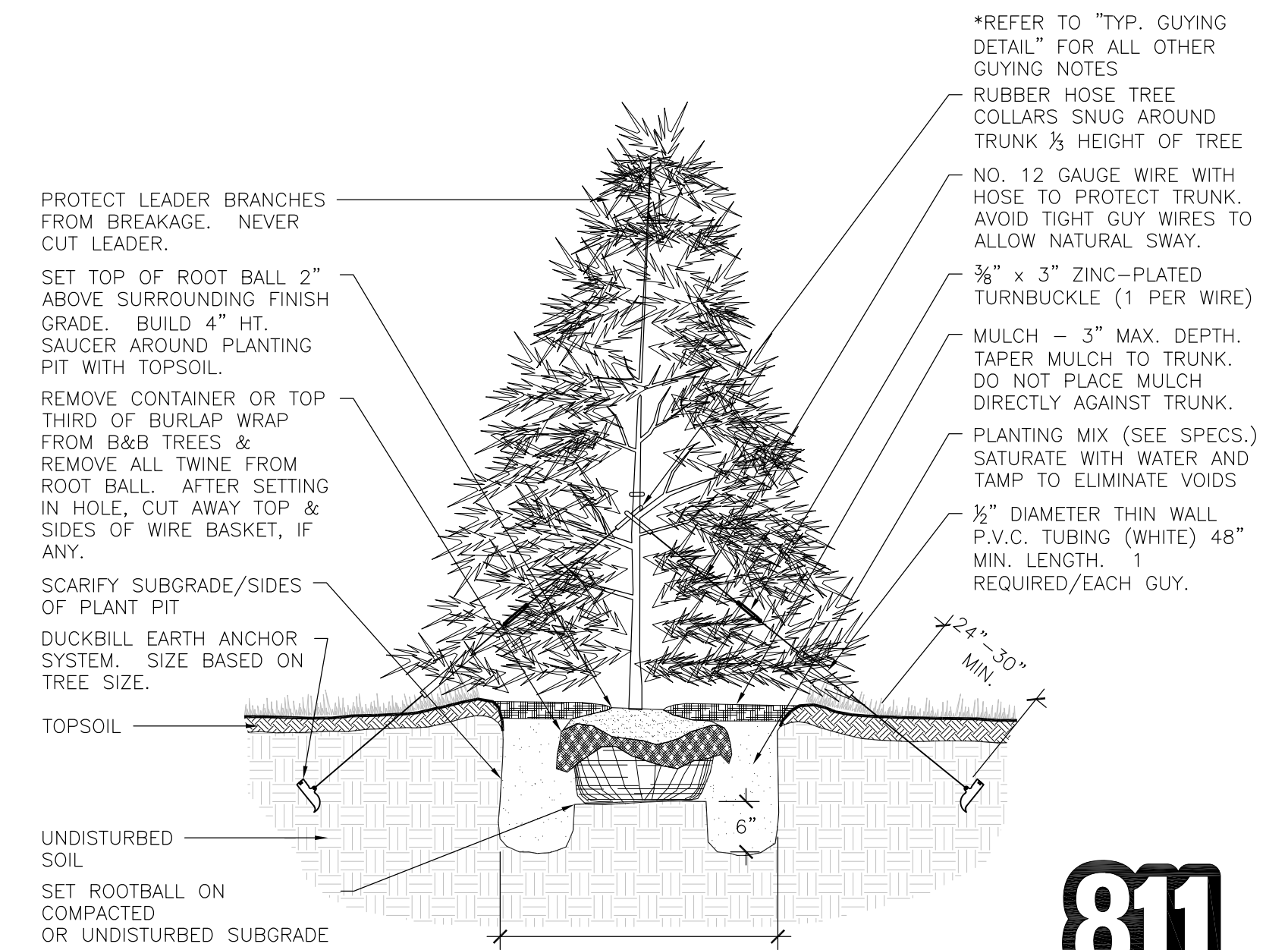
7 TYP. ORNAMENTAL TREE PLANTING DETAIL (SLOPE CONDITION)

SCALE: NTS



5 TYP. DECIDUOUS TREE PLANTING DETAIL (SLOPE CONDITION)

SCALE: NTS



8 TYP. EVERGREEN TREE PLANTING DETAIL

SCALE: NTS



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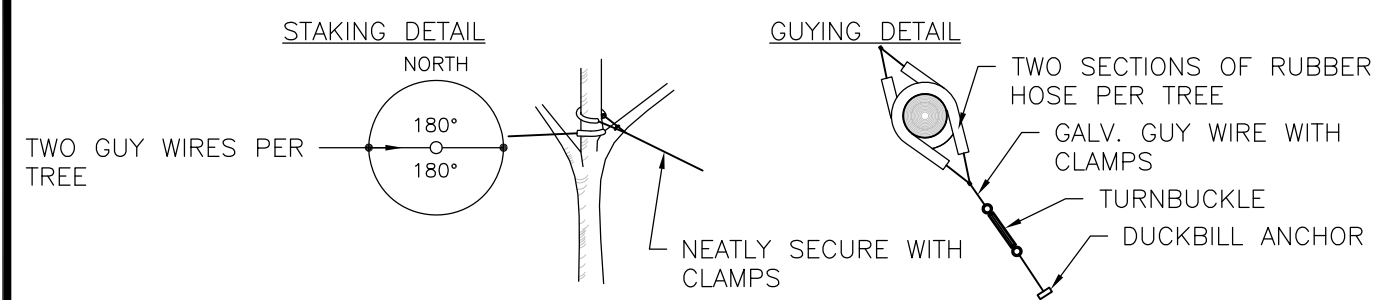


McHENRY COUNTY COLLEGE
 PARKING LOT A RECONSTRUCTION
 CRYSTAL LAKE, ILLINOIS

LANDSCAPING
 DETAILS

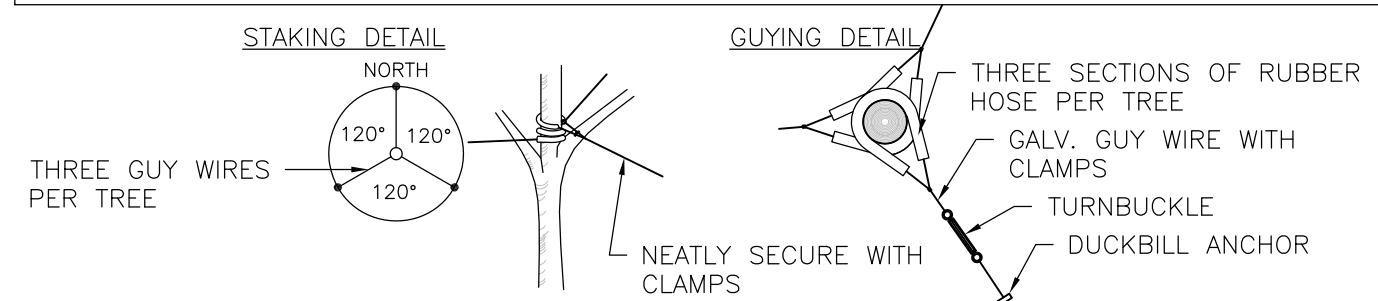
SHEET NO.
 L-08

- GUYING STANDARDS**
- TWO (2) MODEL 68 DUCKBILL ANCHORS (HOLDING CAPACITY 1100# PER ANCHOR IN NORMAL SOIL.
 - 13' OF 3/8" 7x7 GALVANIZED STEEL CABLE WITH TURNBUCKLE ATTACHED MID-CABLE.
 - 1/2" DIAMETER THIN WALL P.V.C. TUBING (WHITE) 48" MINIMUM LENGTH, ONE (1) REQUIRED/EACH GUY.
 - TWO (2) TURNBUCKLES, EYE AND EYE TYPE, 3/8" THREAD DIAMETER WITH 3" TAKE-UP
 - FOUR (4) 3/8" CABLE CLAMPS, ZINC PLATED (DR-2 STEEL DRIVE ROD 2" LONG WITH 1/4" ROUND DRIVING TIP NEEDED TO INSTALL ANCHORS. ONE ROD, NOT INCLUDED IN KIT, DRIVES HUNDREDS OF ANCHORS)
 - TWO (2) RUBBER HOSE TREE COLLARS, 21" LONG, EA.



*APPLIES TO SINGLE TRUNK DECIDUOUS TREES 3" CAL. AND LESS & EVERGREEN TREES 8' HT. AND LESS

- GUYING STANDARDS**
- THREE (3) MODEL 68 DUCKBILL ANCHORS (HOLDING CAPACITY 1100# PER ANCHOR IN NORMAL SOIL.
 - 13' OF 3/8" 7x7 GALVANIZED STEEL CABLE WITH TURNBUCKLE ATTACHED MID-CABLE.
 - 1/2" DIAMETER THIN WALL P.V.C. TUBING (WHITE) 48" MINIMUM LENGTH, ONE (1) REQUIRED/EACH GUY.
 - THREE (3) TURNBUCKLES, EYE AND EYE TYPE, 3/8" THREAD DIAMETER WITH 3" TAKE-UP
 - SIX (6) 3/8" CABLE CLAMPS, ZINC PLATED (DR-2 STEEL DRIVE ROD 2" LONG WITH 1/4" ROUND DRIVING TIP NEEDED TO INSTALL ANCHORS. ONE ROD, NOT INCLUDED IN KIT, DRIVES HUNDREDS OF ANCHORS)
 - THREE (3) RUBBER HOSE TREE COLLARS, 21" LONG, EA.



*APPLIES TO SINGLE TRUNK DECIDUOUS TREES GREATER THAN 3" CAL. & EVERGREEN TREES GREATER THAN 8' HT.

1 TYP. GUYING DETAIL

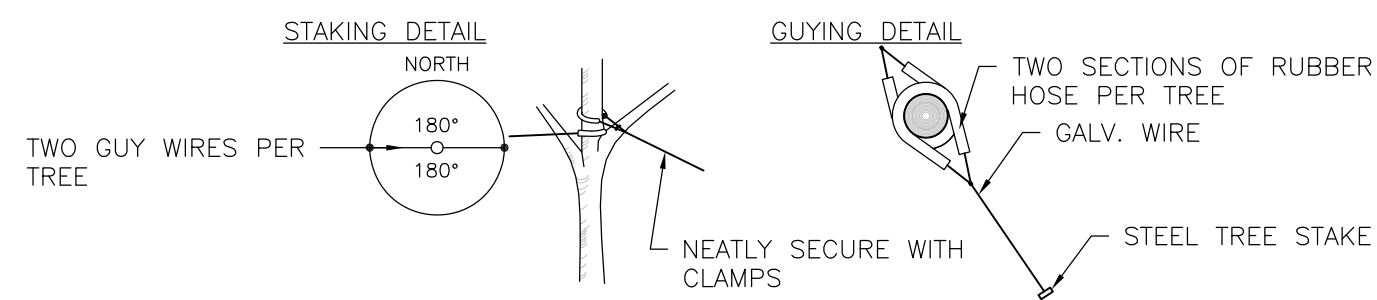
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2 TYP. STAKING DETAIL

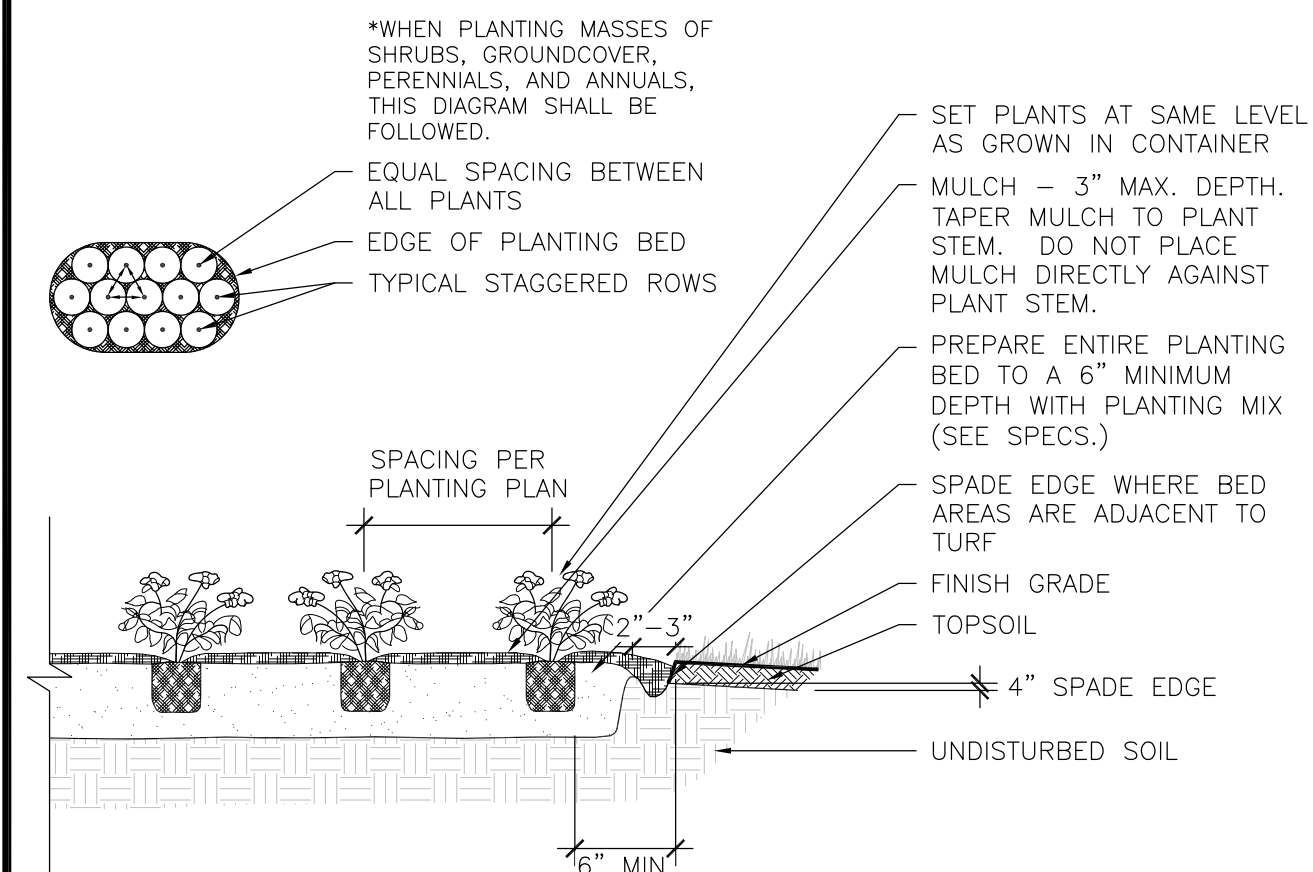
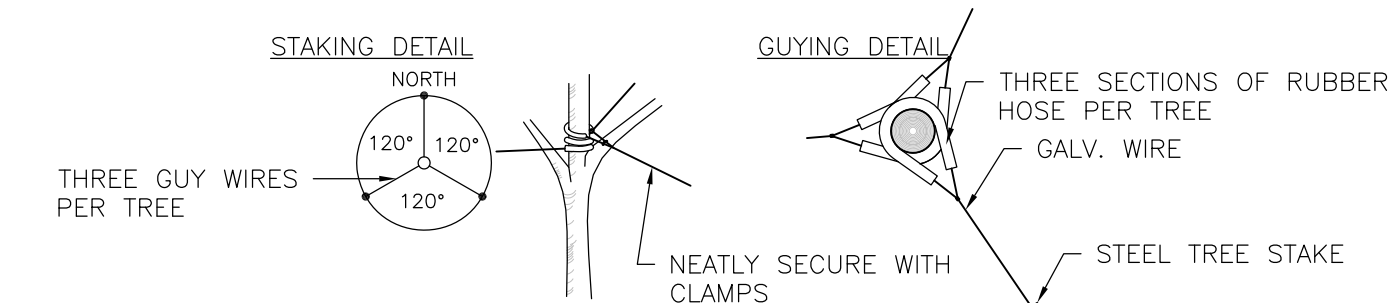
SCALE: NTS

3 TYP. SHRUB PLANTING DETAIL

SCALE: NTS

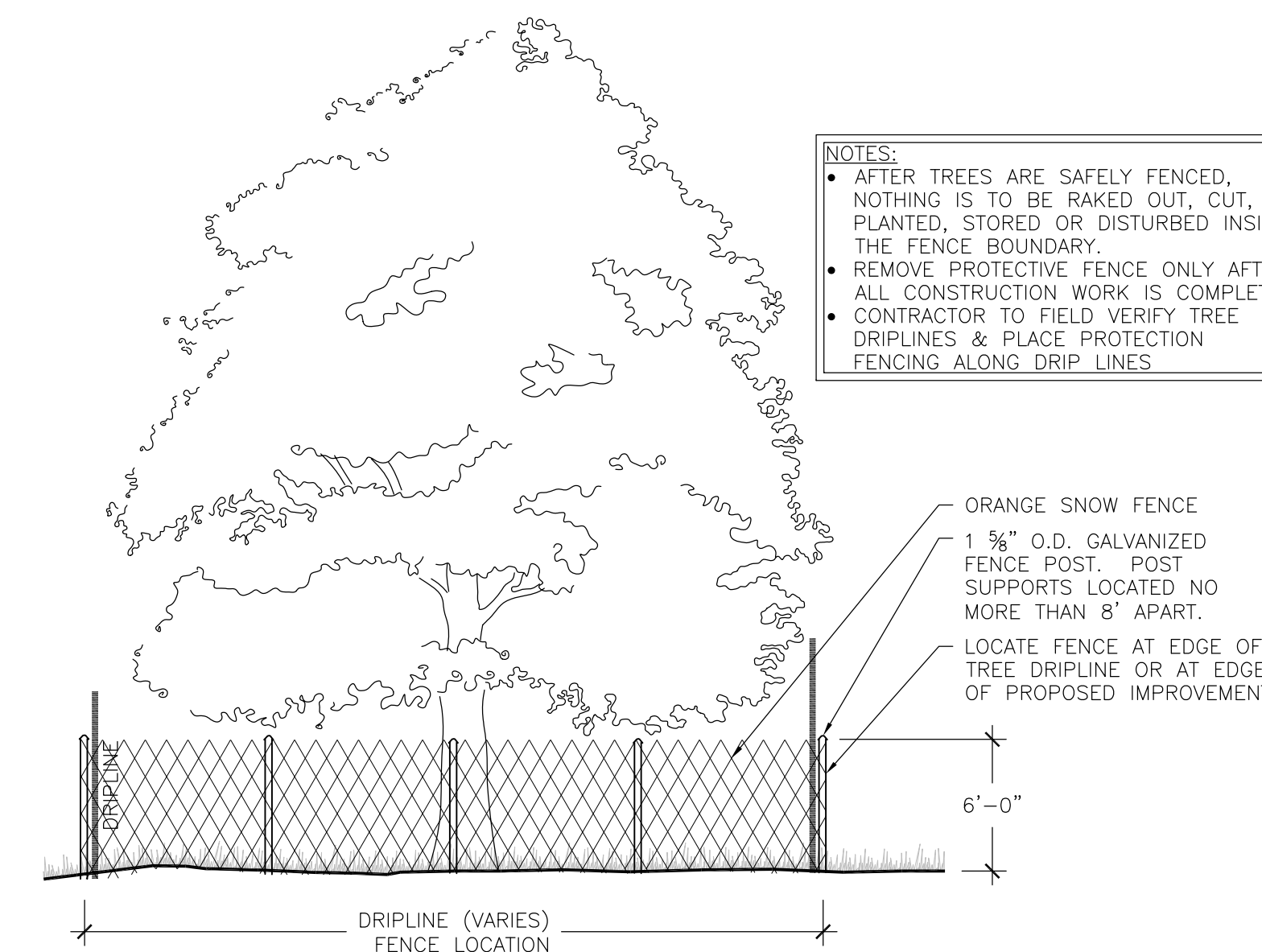


*APPLIES TO SINGLE TRUNK DECIDUOUS TREES 3" CAL. AND LESS & EVERGREEN TREES 8' HT. AND LESS & ALL MULTI-STEM TREES



5 PARKING ISLAND DETAIL

SCALE: NTS



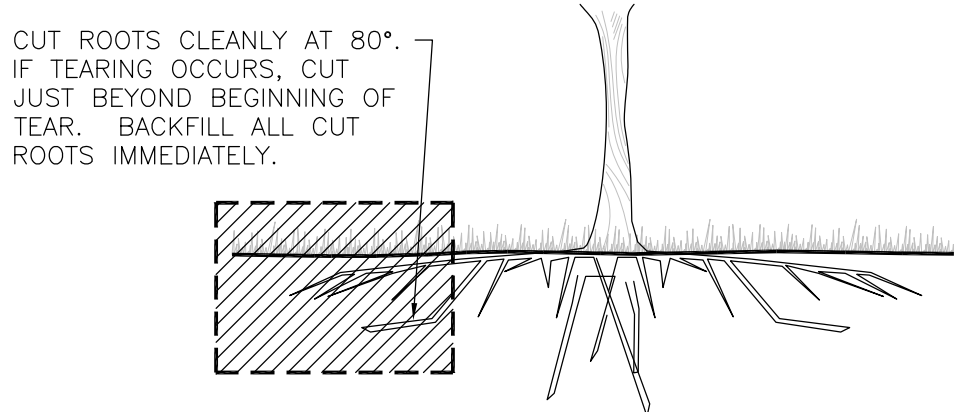
6 TYP. TREE PROTECTION SNOW FENCE DETAIL

SCALE: NTS

- NOTES:**
- AFTER TREES ARE SAFELY FENCED, NOTHING IS TO BE RAKED OUT, CUT, PLANTED, STORED OR DISTURBED INSIDE THE FENCE BOUNDARY.
 - REMOVE PROTECTIVE FENCE ONLY AFTER ALL CONSTRUCTION WORK IS COMPLETE.
 - CONTRACTOR TO FIELD VERIFY TREE DRIPLINES & PLACE PROTECTION FENCING ALONG DRIP LINES

4 TYP. PERENNIAL PLANTING DETAIL

SCALE: NTS



7 TYP. ROOT PRUNING DETAIL

SCALE: NTS



Know what's below. Call before you dig.

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 420 N. FRONT STREET, SUITE 100
 McHENRY, ILLINOIS 60050
 PHONE: 815.385.1778 | TOLL FREE: 800.728.7805
 FAX: 815.385.1781 | HRGreen.com



McHENRY COUNTY COLLEGE
 PARKING LOT A RECONSTRUCTION
 CRYSTAL LAKE, ILLINOIS

LANDSCAPING
 DETAILS

SHEET NO.
 L-09

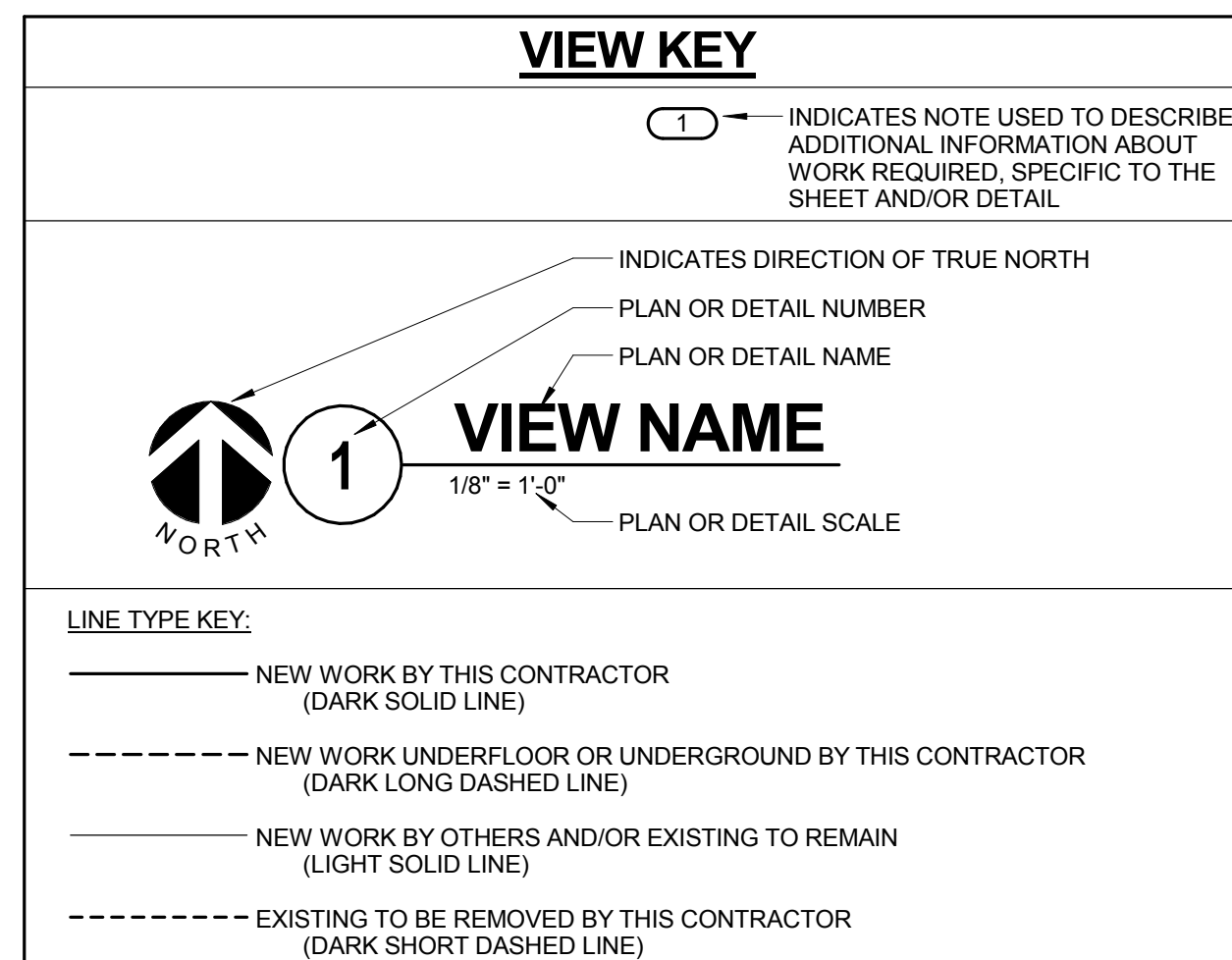
ELECTRICAL INSTALLATION NOTES:

- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND BELOW GRADE, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.

ELECTRICAL DEMOLITION NOTES:

- THE ELECTRICAL DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
- ELECTRICAL ITEMS (i.e., LIGHTING FIXTURES, ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN (i.e., FOR MAINTENANCE PURPOSES).
- THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER BEFORE TURNING OFF POWER TO CIRCUITS, FEEDERS, PANELS, ETC. COORDINATE ALL OUTAGES WITH OWNER.
- EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATED EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH.
- EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.

ELECTRICAL SYMBOL LIST			
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	S#	26 51 00	POLE MOUNTED LUMINAIRE - (1 HEAD)
	S#	26 51 00	POLE MOUNTED LUMINAIRE - (2 HEAD)
	HH#	26 05 33	HAND HOLE
	ECONN	26 05 33	ELECTRICAL CONNECTION
	JB	26 05 33	JUNCTION BOX
	MX#	26 28 16	MANUAL SWITCH



LUMINAIRE SCHEDULE

MOUNTING: (MTG) RE- RECESSED SP- SUSPENDED CL- CEILING SURFACE WL- WALL UC- UNDER CABINET CV- COVE PL- POLE O- OTHER (SEE DESCRIPTION)	LAMP TYPE: FL- FLUORESCENT CF- COMPACT FLUORESCENT IN- INCANDESCENT LED- LIGHT EMITTING DIODE HS- HIGH PRESSURE SODIUM MH- METAL HALIDE MV- MERCURY VAPOR LV- LOW VOLTAGE SMH- SUPER METAL HALIDE PSMH- PULSE START METAL HALIDE O- OTHER (SEE DESCRIPTION) XL- EXTENDED LIFE 24,000 HR XLP- EXTENDED LIFE & OUTPUT 24,000 HOURS 3100 LUMENS	LENS/LOUVER: (L/L) A- .125" ACRYLIC B- BLACK BAFFLE C- CLEAR ALZAK D- PARABOLIC F- FRESNEL G- TEMPERED GLASS H- WALL WASHER P- POLYCARBONATE K- KSH12 .125" ACRYLIC K19- KSH19 .156" ACRYLIC L- LOW IRIDESCENT SPECULAR ALUM. N- NONE R- HIGH IMPACT DR ACRYLIC O- OTHER (SEE DESCRIPTION)
DOOR: FA- FLAT ALUMINUM FS- FLAT STEEL RA- REGRESSED ALUMINUM RS- REGRESSED STEEL	BALLAST: (BLS) DIM- DIMMING BALLAST EB- ELECTRONIC BALLAST EM- EMERGENCY BATTERY/BALLAST DALI- DIGITAL DIMMING BALLAST	#BF- BALLAST FACTOR HL- HIGH / LOW LEVEL BALLAST HP- HIGH PERFORMANCE ML- MULT-LEVEL SWITCHING MV- MULTI-VOLTAGE ELECTRONIC
FINISH: PAF- PAINT AFTER FABRICATION CSA- FINISH SELECTION BY ARCHITECT		

LAMP CORRELATED COLOR TEMPERATURE 4000°K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 70, UNLESS NOTED OTHERWISE.

ITEM	DESCRIPTION	SIZE	MTG	TYPE	LAMPS QUANTITY & SIZE	VOLTS / BLS	L/L	APPROVED MANUFACTURER
S1	EXISTING SITE LIGHTING LUMINAIRE, SINGLE HEAD, TYPE 4 DISTRIBUTION. POLE: 30' HEIGHT, 6" SQUARE STRAIGHT CONTRACTOR TO PROVIDE NEW ANCHOR BOLTS.		PL	LED	1 206 WATT	277V	O	EXISTING HEAD AND POLE
S2	EXISTING SITE LIGHTING LUMINAIRE, DUAL HEADS, TYPE 4 DISTRIBUTION. POLE: 30' HEIGHT, 6" SQUARE STRAIGHT. CONTRACTOR TO PROVIDE NEW ANCHOR BOLTS.		PL	LED	2 206 WATT	277V	O	EXISTING HEAD AND POLE
S2A	EXISTING S1 SITE LIGHTING LUMINAIRE, SINGLE HEAD, COMBINE WITH AN EXTRA S1 HEAD ON THE SAME POLE. REFER TO PLAN SHEET FOR HEAD ORIENTATION. POLE: 30' HEIGHT, 6" SQUARE STRAIGHT. CONTRACTOR TO PROVIDE REQUIRED HARDWARE FOR MOUNTING THE EXTRA HEAD AND NEW ANCHOR BOLTS.		PL	LED	2 206 WATT	277V	O	EXISTING HEAD AND POLE
S3	EXISTING SITE LIGHTING LUMINAIRE, SINGLE HEAD, TYPE 4 DISTRIBUTION. POLE: 15' HEIGHT, 4" SQUARE STRAIGHT ALUMINUM		PL	LED	1 103 WATT	277V	O	EXISTING HEAD AND POLE
S4	EXISTING SITE LIGHTING LUMINAIRE, SINGLE HEAD, TYPE 5MQ DISTRIBUTION.		PL	LED	1 103 WATT	277V	O	EXISTING HEAD AND POLE

DISCONNECT AND STARTER SCHEDULE

REMARKS:

STARTER TYPE:

- FV - FULL VOLTAGE
- YD - WYE - DELTA
- RE - REVERSING
- TW - 2 SPEED, 2 WINDING
- SW - 2 SPEED, 1 WINDING
- RV - REDUCED VOLTAGE AUTOXFMR
- SS - SOLID STATE
- MD - MOTOR DISCONNECT SWITCH
- MS - MANUAL STARTER
- MX - MANUAL SWITCH
- FDS - FUSED SWITCH

SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)

- *CT - CONTROL TRANSFORMER, FUSED 120V
- *EO - ELECTRONIC OVERLOAD
- *HA - HAND-OFF-AUTO IN DOOR
- *RP - RED (RUN) PILOT LIGHT IN DOOR
- *TA - TWO CONVERTIBLE AUXILIARY CONTACTS
- S/N - INSULATED NEUTRAL ASSEMBLY

PF - PHASE FAILURE RELAY (6 HP OR GREATER)

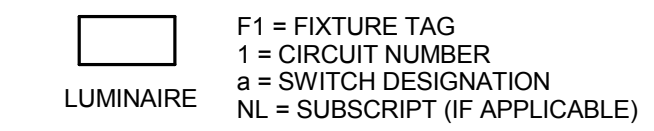
- TO - MELTING THERMAL OVERLOADS
- TS - 2 SPEED SELECTOR SWITCH IN DOOR
- GP - GREEN (OFF) PILOT LIGHT IN DOOR
- FA - 4-CONVERTIBLE AUXILIARY CONTACTS
- EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C
- SS - START-STOP PUSHBUTTON IN DOOR
- HL - HANDLE PADLOCK HASP

ITEM	DISCONNECT TYPE & RATING			VOLTAGE	POLES	STARTER		NEMA ENCLOSURE	REMARKS	APPROVED MANUFACTURERS
	FUSED	NON-FUSED	CIRCUIT BREAKER			NEMA SIZE	TYPE			
MX-1				120	1		MX	4		SQUARE D 2510 KW1 CUTLER-HAMMER TYPE MS GENERAL ELECTRIC TYPE TC SIEMENS TYPE MMS

ELECTRICAL GENERAL NOTES:

- ### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
- SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.

LUMINAIRE KEY:



*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

ELECTRICAL SHEET INDEX

E000	ELECTRICAL COVER SHEET
ED100	ELECTRICAL SITE PLAN - DEMOLITION
E100	ELECTRICAL SITE PLAN - LIGHTING
E101	ELECTRICAL SITE PLAN - PHOTOMETRIC
E200	ENLARGED ELECTRICAL ROOM AND WIRING DETAILS
E300	ELECTRICAL DETAILS

BEAR IN MIND: INDICATED ON ORIGINAL DRAWINGS.

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APPROVED:	JML	JOB NUMBER:	86150398
CAD DATE:			
CAD FILE:			

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ILLINOIS DESIGN FIRM # 184,001,322
 420 N. FRONT STREET, SUITE 100
 McHENRY, ILLINOIS 60050
 PHONE: 815.385.1778 | TOLL FREE: 800.728.7805
 FAX: 815.385.1781 | HRGreen.com



McHENRY COUNTY COLLEGE
 PARKING LOT A RECONSTRUCTION
 CRYSTAL LAKE, ILLINOIS

ELECTRICAL COVER SHEET

SHEET NO.
 E000

KJW ENGINEERING CONSULTANTS
 The FUTURE. Built SMARTER.
 1100 WARRENVILLE ROAD, SUITE 400W
 NAPERVILLE, ILLINOIS 60563
 630.527.2300 FAX: 630.527.2321
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 Illinois Design Firm Registration #184-000973

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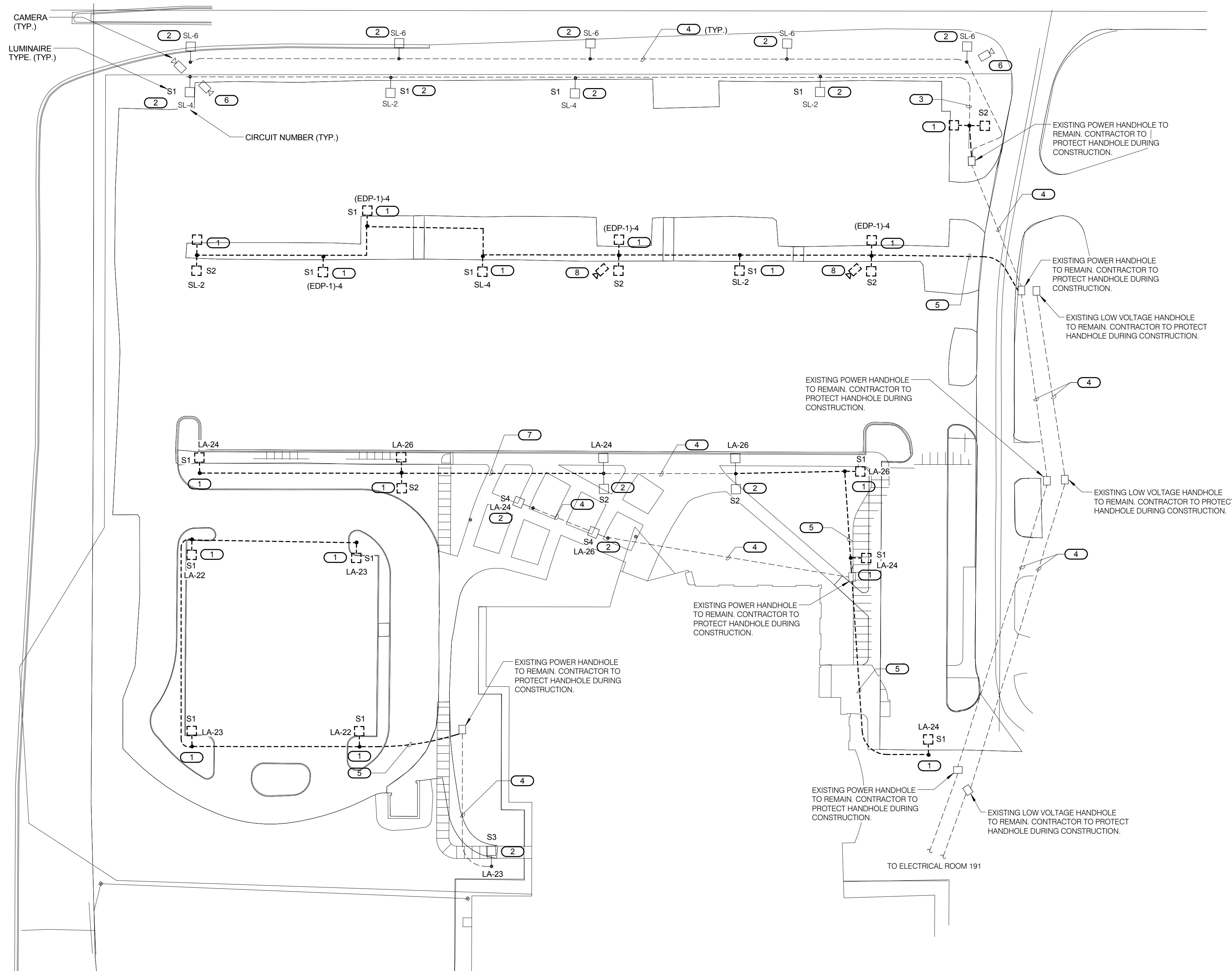
REFERENCE SCALE IN INCHES
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GENERAL SHEET NOTES :

1. REFER TO SHEET E000 FOR ELECTRICAL NOTES, SYMBOL LIST AND LUMINAIRE SCHEDULE.
2. REFER TO SHEET E000 FOR ELECTRICAL DEMOLITION NOTES.

KEYNOTES: #

1. REMOVE HEAD AND POLE AND STORE FOR REUSE. REMOVE POLE BASE. WIRING AND CONDUIT BACK TO THE HANDHOLE. REFER TO E100 FOR NEW WORK REQUIRED.
2. EXISTING POLE AND WIRING TO REMAIN IN PLACE. CONTRACTOR SHALL PROTECT POLES AND WIRING DURING CONSTRUCTION.
3. INTERCEPT EXISTING CIRCUITS AND EXTEND IT TO EXISTING HANDHOLE. USE MINIMUM 3/8" & 1/8" GND IN 1 1/4" C PER CIRCUIT.
4. EXISTING CONDUIT AND WIRING TO REMAIN. CONTRACTOR TO PROTECT CONDUIT DURING CONSTRUCTION.
5. REMOVE CONDUIT AND WIRING BACK TO THE HAND HOLE.
6. EXISTING CAMERA ON EXISTING POLE. NO RELOCATION REQUIRED. CONTRACTOR TO PROTECT CONDUIT DURING CONSTRUCTION.
7. REMOVE CONDUIT AND WIRING BACK TO THE NEAREST EXISTING POLE.
8. REMOVE CAMERA AND CIRCUITING FROM POLE BACK TO EXISTING LOW VOLTAGE HANDHOLE. REFER TO E100 FOR NEW WORK.



ELECTRICAL SITE PLAN - DEMOLITION
1" = 40'-0"

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ILLINOIS DESIGN FIRM # 184.001322
 420 N. FRONT STREET, SUITE 100
 McHENRY, ILLINOIS 60050
 PHONE: 815.385.1778 | TOLL FREE: 800.728.7805
 FAX: 815.385.1781 | HRGreen.com

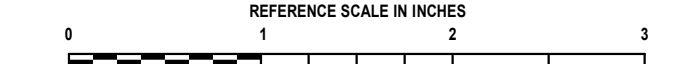


McHENRY COUNTY COLLEGE
 PARKING LOT A RECONSTRUCTION
 CRYSTAL LAKE, ILLINOIS

ELECTRICAL SITE PLAN - DEMOLITION

KJ ENGINEERING CONSULTANTS
 1100 WARRENVILLE ROAD, SUITE 400W
 NAPERVILLE, ILLINOIS 60563
 630.527.2350 FAX: 630.527.2321
 www.kjww.com
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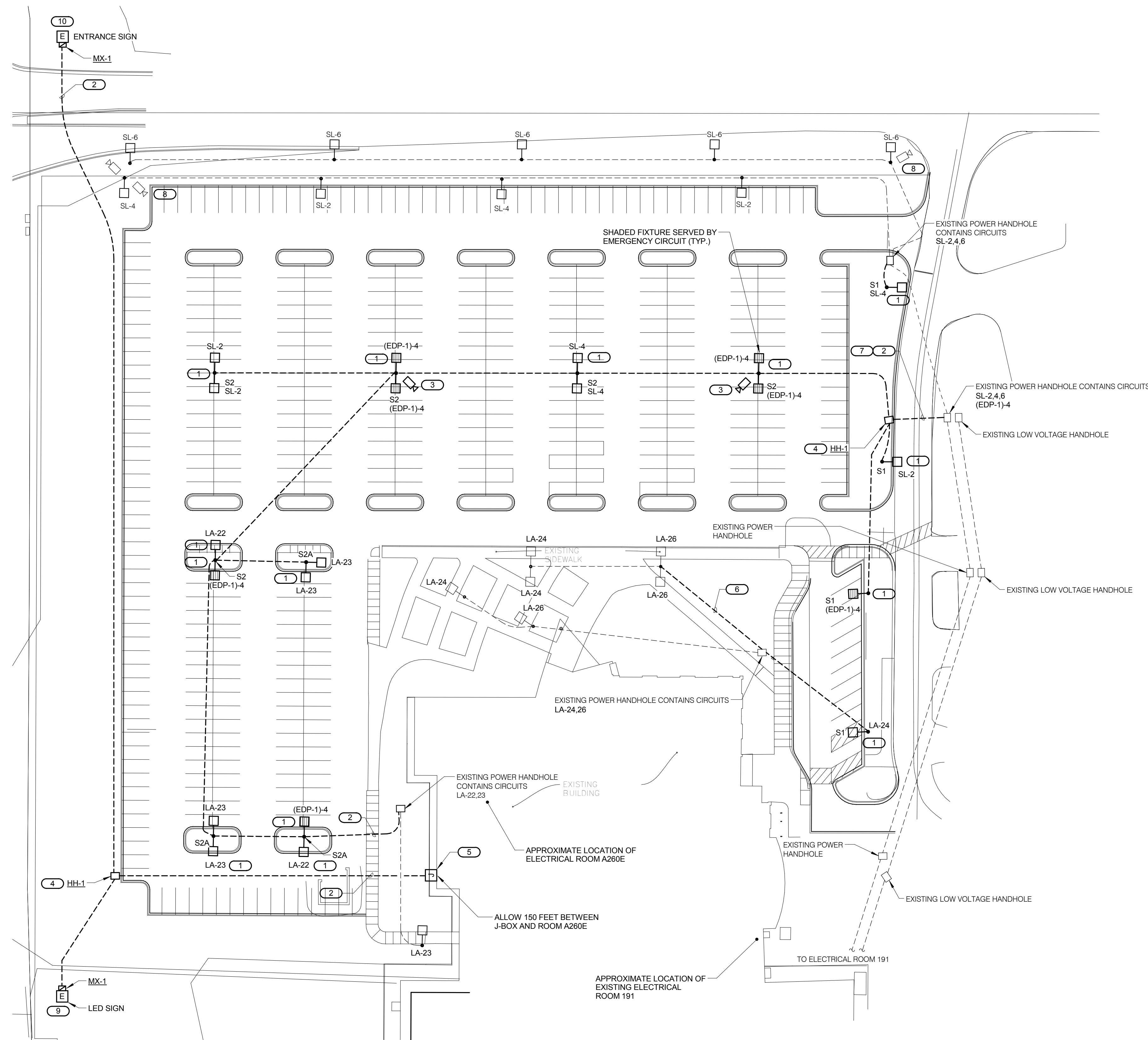
SHEET NO.
ED100

GENERAL SHEET NOTES:

- REFER TO SHEET E000 FOR ELECTRICAL NOTES, SYMBOL LIST AND LUMINAIRE SCHEDULE.
- REFER TO SHEET E200 FOR CONTROL WIRING DIAGRAM.

KEYNOTES:

- REFER TO 1/E300 FOR EXTENDED POLE BASE DETAIL. ROUTE CONDUIT AND WIRING (2#6 & 1#8 GND IN 1 1/4" C.) TO EXISTING POWER HANDHOLE AND CONNECT TO EXISTING CIRCUIT IN THE HANDHOLE.
- CONTRACTOR HAS THE OPTION TO EITHER CUT AND PATCH EXISTING ROAD/ SIDEWALK OR USE DIRECTIONAL DRILLING FOR CONDUIT INSTALLATION.
- RELOCATED CAMERA. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH OWNER. MATCH AND EXTEND EXISTING CIRCUITING FROM EXISTING LOW VOLTAGE HANDHOLE. USE MINIMUM 1 1/4" C.
- REFER TO 2/E300 FOR HANDHOLE DETAIL.
- ROUTE CONDUIT UP 16" ON EXTERIOR WALL AND INSIDE AT THE CORNER OF THE COLUMN. ROUTE WIRING IN SURFACE RACEWAY (WIREMOLD 700) TO ABOVE THE LAY-IN CEILING AND IN CONDUIT TO THE PANEL.
- INTERCEPT EXISTING CIRCUIT LA-24, 26 AND EXTEND TO EXISTING POWER HANDHOLE AND CONNECT TO EXISTING CIRCUIT. USE MINIMUM 2#8 AND 1#8 GND IN 1 1/4" C. PER EACH CIRCUIT.
- INSTALL 2" CONDUIT BETWEEN HANDHOLES.
- EXISTING CAMERA ON EXISTING POLE.
- ROUTE CONDUIT AND WIRING (2#6 & 1#8 GND IN 1 1/2" C.) TO EXISTING PANEL 'MB' LOCATED IN ROOM A260E. CONNECT TO NEW 20A/1P, 120V CIRCUIT BREAKER. MATCH EXISTING CIRCUIT BREAKER TYPE AND RATING.
- ROUTE CONDUIT AND WIRING (2#6 & 1#8 GND IN 1 1/2" C.) TO EXISTING PANEL 'MB' LOCATED IN ROOM A260E. ROUTE CIRCUIT VIA NEW TIME CLOCK (PARAGON EC72, TORK DTS 200A, INTERMATIC ET70215C). MOUNT TIME CLOCK NEXT TO PANEL 'MB' AND LABEL. CONNECT CIRCUIT TO NEW 20A/1P, 120V CIRCUIT BREAKER. MATCH EXISTING CIRCUIT BREAKER TYPE AND RATING.



ELECTRICAL SITE PLAN - LIGHTING
 1" = 40'-0"
 NORTH

KJW ENGINEERING CONSULTANTS
 1100 WARRENVILLE ROAD, SUITE 400W
 NAPERVILLE, ILLINOIS 60563
 630.527.2200 FAX: 630.527.2321
 www.kjw.com
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McHENRY COUNTY COLLEGE
 PARKING LOT A RECONSTRUCTION
 CRYSTAL LAKE, ILLINOIS

ELECTRICAL SITE PLAN - LIGHTING

SHEET NO.
E100