SITE PLAN DRAWINGS FOR

RAYCONNECT INDUSTRIAL BUILDING

SECTION 29, TOWNSHIP 3 NORTH, RANGE 11 EAST ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

(Per Warranty Deed recorded in Liber 10352, Page 405, OCR.)

A part of Lot 1, SUPERVISOR'S PLAT NO. 9, as recorded in Liber 59 of plats, on Page 13, Oakland County Records, being a part of the West 1/2 of the SE 1/4 of Section 29, Town 3 North, Range 11 East, Avon Township, Oakland County, Michigan, more particularly described as: Beginning at the SW corner of said lot, thence N01°01'10"E, 125.12 feet along the West line of said Lot 1, also being the centerline of a 60 foot wide easement for roadway; thence N88°31'00"E, 348.61 feet; thence S00°58'05"W, 125.11 feet to a point on the South line of said Lot 1; thence S88°31'00"W, 348.72 feet along the South lot line to the Point of Beginning. Parcel No: 15-29-452-028

A part of Lot 1 and Lot 2, of "SUPERVISOR'S PLAT NO. 9", as recorded in Liber 59 on Page 13, of Plats, Oakland County Records, being a part of the West 1/2 of the Southeast 1/4 of Section 29, Town 3 North, Range 11 East, Avon Township, Oakland County, Michigan, more particularly described as: Commencing at the Southwest corner of said Lot 1, thence N01°01′10″E, 125.12 feet along the West line of said Lot 1, to the Point of Beginning, thence the following three courses along said West line of Lot 1, also the centerline of a 60 foot wide easement for roadway; (1) N01°01'10"E, 229.55 feet, and (2) N19°01'20"W, 193.76 feet, and (3) N01°04'48"E, 28.01 feet to the Northwest corner of said Lot 1; thence N87°01'10"E, 801.69 feet along the North line of said Lot 1 and 2, also being the centerline of a 60 foot wide easement for roadway as platted; thence S01°35'30"W, 588.87 feet along the East line of said Lot 2; thence S88°31'00"W, 379.46 feet along the South line of said Lot 2; thence N00°58'05"E, 125.11 feet; thence S88°31'00"W, 348.61 feet to the Point of Beginning, and containing 8.893 acres. Subject to the rights of any easements, restrictions of rights of way either recorded or unrecorded. Parcel No: 15-29-452-027

W HAMLIN RD W AUBURN RD W SOUTH BLVD SCALE: 1"=2000"

INDEX OF DRAWINGS:

COVER SHEET TOPOGRAPHIC SURVEY TREE INVENTORY PRELIMINARY SITE PLAN PRELIMINARY GRADING PLAN PRELIMINARY UTILITY PLAN EXISTING DRAINAGE AREA MAP PRELIMINARY DRAINAGE AREA MAP PRELIMINARY DETAIL SHEET

PRELIMINARY LANDSCAPE PLAN PRELIMINARY LANDSCAPE DETAILS L-2WOODLAND PRESERVATION PLAN TREE INVENTORY

ARCHITECTURAL PLANS

(BY MANDELL, BILOVUS, LENDERMAN & ASSOCIATES, P.C.):

ELECTRICAL SITE PHOTOMETRIC PLAN

PRELIMINARY SITE PLAN PRELIMINARY FLOOR PLAN A-2PRELIMINARY MEZZANINE PLAN PRELIMINARY ELEVATIONS

CONDITIONS OF SITE PLAN APPROVAL:

- 1. ALL APPLICABLE MDEQ AND OAKLAND COUNTY DRAIN COMMISSION PERMITSMUST BE SECURED PRIOR TO ISSUANCE OF A LAND IMPROVEMENT PERMIT.
- 2. A DETAILED SOIL EROSION PLAN WITH MEASURES SUFFICIENT TO ENSURE AMPLE PROTECTION OF WETLAND AREAS WILL BE PROVIDED PRIOR TO CONSTRUCTION PLAN APPROVAL.
- 3. NATURAL FEATURES AREAS MUST BE PERMANENTLY MARKED PRIOR TO CONSTRUCTION, TO BE REVIEWED AND APPROVED BY STAFF PRIOR TO ISSUANCE OF A LAND IMPROVEMENT PERMIT.
- 4. BEST MANAGEMENT PRACTICES MUST BE STRICTLY FOLLOWED DURING CONSTRUCTION TO MINIMIZE THE IMPACTS ON THE NATURAL FEATURES SETBACK.
- 5. TREE PROTECTION FENCING MUST BE INSTALLED, INSPECTED AND APPROVED BY THE CITY'S LANDSCAPE ARCHITECT PRIOR TO ISSUANCE OF THE LAND IMPROVEMENT PERMIT FOR THIS DEVELOPMENT.
- 6. CONTRACTOR TO PROVIDE A TEMPORARY ROAD FOR CONSTRUCTION TRAFFIC AS SOON AS POSSIBLE TO ALLOW AUSTIN AVE. TO ALLEVIATE TRAFFIC ON DEVONDALE ROAD.

APPLICANT:

KIRCO DEVELOPMENT (ON BEHALF OF RAYCONNECT) 101 W. BIG BEAVER ROAD, SUITE 200 TROY, MI 48084 CONTACT: LLOYD SOVA PHONE: (248) 680-7180 FAX: (248) 680-7181

PROJECT ARCHITECT:

MANDELL, BILOVUS, LENDERMAN & ASSOCIATES, P.C. 4082 JOHN R. ROAD TROY, MI 48085 CONTACT: TERENCE BILOVUS, AIA PHONE: (248) 689-9400 FAX: (248) 689-9460

LANDSCAPE ARCHITECT:

PROFESSIONAL ENGINEERING ASSOCIATES, INC. 2900 E. GRAND RIVER AVENUE HOWELL, MI 48843 CONTACT: OZELL GOTHARD, R.L.A. PHONE: (517) 546-8583 FAX: (517) 546-8973

PROJECT ENGINEER:

PROFESSIONAL ENGINEERING ASSOCIATES, INC. 2430 ROCHESTER COURT, SUITE: 100 TROY, MICHIGAN 48083 CONTACT: RACHEL SUGDEN, P.E. PHONE: (248) 689-9090 FAX: (248) 689-1044

VISED PER CITY SITE PLAN REVIEW
VISED PER CITY SITE PLAN REVIEW
VISED PER CITY CONCEPT REVIEW
SCRIPTION

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANT EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIF FOR DETERMINING THE EXACT UTILITY LOCATIONS ELEVATIONS PRIOR TO THE START OF CONSTRUCTIONS. PROFESSIONAL ENGINEERING ASSOCIATES, INC. THE RRE SUBMITTED ON THE CONDITION THAT THEY ARE IOIT TO BE USED, REPRODUCED, OR COPIED, IN WHOLE OR IN PART, OR USED FOR FURNISHING WHOLE OR IN FART, NO SEED FOR FURNISHING
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ENGINEERING ASSOCIATES, INC. ENGINEERING ASSOCIATES, INC.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSON AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

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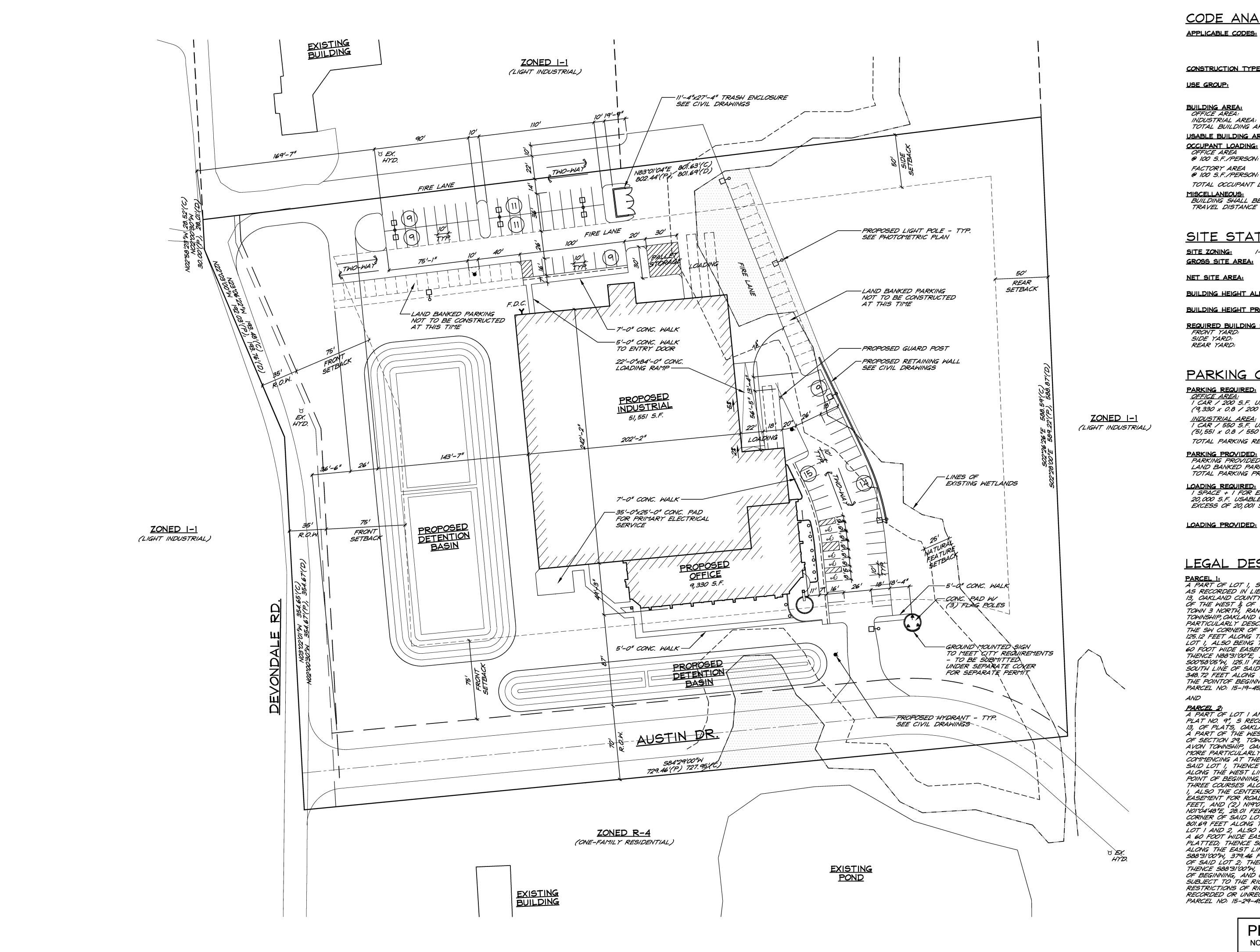


PROFESSIONAL ENGINEERING ASSOCIATES

2430 Rochester Ct. Suite 100 Troy, MI 48083-1872 Phone: (248) 689-9090 Fax: (248) 689-1044 website: www.peainc.com

ORIGINAL ISSUE DATE: JULY 7, 2008 PEA JOB NO. 2008-089

SCALE: 1" = 40' **DRAWING NUMBER: C-1**



CODE ANALYSIS

APPLICABLE CODES: 2006 M.B.C.

2006 M.M.C. 2006 M.P.C. 2005 N.E.C. 2006 I.F.C.

CONSTRUCTION TYPE:

UNLIMITED AREA USE GROUP: B (BUSINESS) F-I (FACTORY) NONSEPARATED USES

BUILDING AREA: OFFICE AREA: 9,330 S.F. 51,551 S.F. INDUSTRIAL AREA: TOTAL BUILDING AREA: 60,881 S.F. USABLE BUILDING AREA: 48, 705 S.F.

OCCUPANT LOADING: OFFICE AREA 93 PEOPLE @ 100 S.F./PERSON: FACTORY AREA @ 100 S.F./PERSON: 516 PEOPLE TOTAL OCCUPANT LOAD: 609 PEOPLE

MISCELLANEOUS:
BUILDING SHALL BE FULLY FIRE SUPRESSED. TRAVEL DISTANCE SHALL NOT EXCEED 250'-0".

SITE STATISTICS

SITE ZONING: I-I (LIGHT INDUSTRIAL) GROSS SITE AREA: 430,820 S.F. 9.89 ACRES 362,092 S.F.

8.31 ACRES BUILDING HEIGHT ALLOWED: 2 STORIES 30'-0"

2 STORIES BUILDING HEIGHT PROVIDED:

REQUIRED BUILDING SETBACKS: 75'-0" SIDE YARD: 50'-0" 50'-0" REAR YARD:

29'-2"

38 CARS

PARKING CALCULATIONS

PARKING REQUIRED: <u>OFFICE AREA:</u> 1 CAR / 200 S.F. USABLE AREA

(9,330 x 0.8 / 200 = 37.32) <u>INDUSTRIAL AREA:</u> 1 CAR / 550 S.F. USABLE AREA 75 CARS

(51,551 x 0.8 / 550 = 74.98) TOTAL PARKING REQUIRED: 113 CARS

87 CARS PARKING PROVIDED: LAND BANKED PARKING: 35 CARS TOTAL PARKING PROVIDED:

1 SPACE + 1 FOR EACH 20,000 S.F. USABLE AREA IN

EXCESS OF 20,001 S.F.

3 SPACES (10'x50') LOADING PROVIDED: 4 SPACES (10'x50')

LEGAL DESCRIPTION

PARCEL 1:
A PART OF LOT 1, SUPERVISOR'S PLAT NO. 9, AS RECORDED IN LIBER 59 OF PLATS, ON PÁGE 13, OAKLAND COUNTY RECORDS, BEING A PART
OF THE WEST & OF THE SE & OF SECTION 29,
TOWN 3 NORTH, RANGE II EAST, AVON
TOWNSHIP, OAKLAND COUNTY, MICHIGAN, MORE
PARTICULARLY DESCRIBED AS: BEGINNING AT THE SW CORNER OF SAID LOT, THENCE NOI OI'10"E, 125.12 FEET ALONG THE WEST LINE OF SAID LOT I, ALSO BEING THE CENTERLINE OF A 60 FOOT WIDE EASEMENT FOR ROADWAY; THENCE N88°31'00"E, 348.61 FEET; THENCE S00°58'05"W, 125.11 FEET TO A POINT ON THE SOUTH LINE OF SAID LOT I; THENCE S88°31'00"W, 348.72 FEET ALONG THE SOUTH LOT LINE TO THE POINTOF BEGINNING. PARCEL NO: 15-19-452-028

PARCEL 2:
A PART OF LOT I AND LOT 2, OF "SUPERVISOR'S PLAT NO. 9", S RECORDED IN LIBER 59 ON PAGE 13, OF PLATS, OAKLAND, COUNTY RECORDS BEING A PART OF THE WEST & OF THE SOUTHEAST & OF SECTION 29, TOWN 3 NORTH , RANGE II EAST, AVON TOWNSHIP, OAKLAND COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED ÁS: COMMENCING AT THE SOUTHWEST CORNER OF SAID LOT I, THENCE NOI OI 10 "E, 125.12 FEET ALONG THE WEST LINE OF SAID LOT I, TO THE POINT OF BEGINNING, THENCE THE FOLLOWING THREE COURSES ALONG SAID WEST LINE OF LOT I, ALSO THE CENTERLINE OF A 60 FOOT WIDE EASEMENT FOR ROADWAY; (I) NOI'01'10"E, 229.55 FEET, AND (2) NI9º01'20"W, 193.76 FEET, AND (3) NOI'04'48"E, 28.01 FEET TO THE NORTHWEST CORNER OF SAID LOT I; THENCE N87º01'10"E, 801.69 FEET ALONG THE NORTH LINE OF SAID LOT I AND 2, ALSO BEING THE CENTERLINE OF A 60 FOOT WIDE EASEMENT FOR ROADWAY AS PLATTED; THENCE SOI'35'30"W, 588.87 FEET ALONG THE EAST LINE OF SAID LOT 2; THENCE S88°31'00"W, 379.46 FEET ALONG THE SOUTH LINE OF SAID LOT 2; THENCE NOO'58'05"E, 125.11 FEET; THENCE S88 31 00 W, 348.61 FEET TO THE POINT OF BEGINNING, AND CONTAINING 8.893 ACRES. SUBJECT TO THE RIGHTS OF ANY EASEMENTS, RESTRICTIONS OF RIGHT OF WAY EITHER RECORDED OR UNRECORDED. PARCEL NO: 15-29-452-027

> **PRELIMINARY** NOT FOR CONSTRUCTION



MANDELL BILOYUS

LENDERMAN ASSOCIATES, P.C.

ARCHITECTS

ENGINEERS

PLANNERS

4082 JOHN R.

TROY, MICHIGAN 48085 248/689-9400 248/689-9460 FAX

D. WILSON

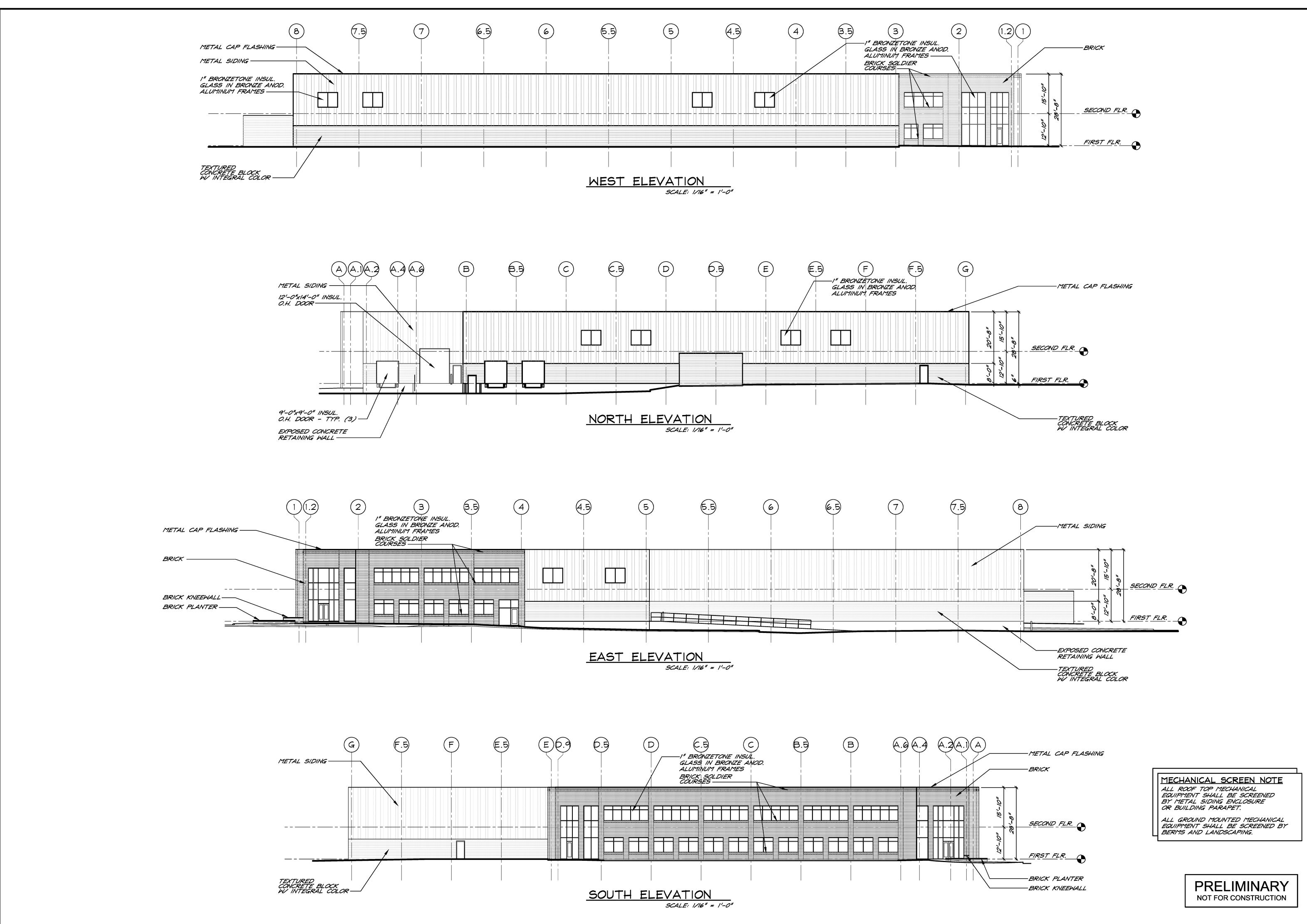
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↑ 7-24-08 PER

/1 City Review 8-12-08 PER City Review



08-430



MANDELL BILOVUS LENDERMAN ASSOCIATES, P.C.

> **ARCHITECTS ENGINEERS PLANNERS**

4082 JOHN R. TROY, MICHIGAN 48085 248/689-9400 248/689-9460 FAX

D. WILSON DATE STARTED: JUNE 2, 2008 CHECKED BY: T. BILOVUS

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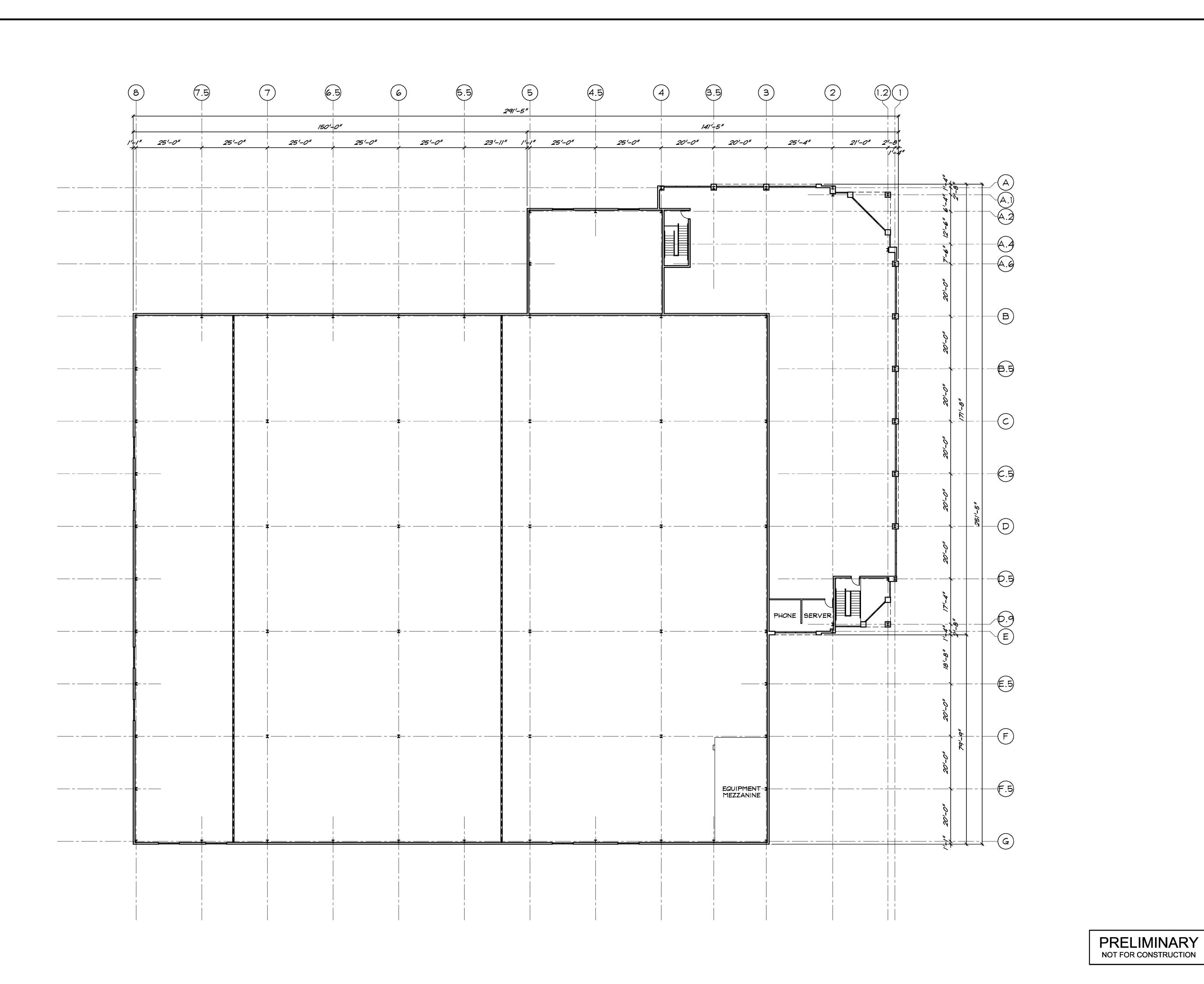
REVISIONS 7-24-08 PER
City Review
8-12-08 PER
City Review

ED BUILDING

PRELIMINARY ELEVATIONS

08-430

A-3



M|3 L|A

MANDELL BILOVUS LENDERMAN + ASSOCIATES,P.C.

> ARCHITECTS ENGINEERS PLANNERS

4082 JOHN R. TROY, MICHIGAN 48085 248/689-9400 248/689-9460 FAX

DRAWN BY:

D. WILSON

DATE STARTED:

JUNE 2, 2008

CHECKED BY:

T. BILOVUS

ISSUED:

JULY 7, 2008

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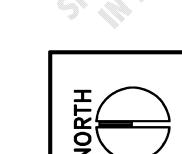
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City Review

8-12-08 PER City Review

PROPOSED BUILDING FO RAYCONNECT

MEZZANINE PLAN





FILE NO. 08-430

SHEET A-2

MANDELL **BILOYUS** LENDERMAN

ARCHITECTS

ENGINEERS PLANNERS

ASSOCIATES, P.C.

4082 JOHN R.

248/689-9400

248/689-9460 FAX

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T. BILOVUS

JULY 7, 2008

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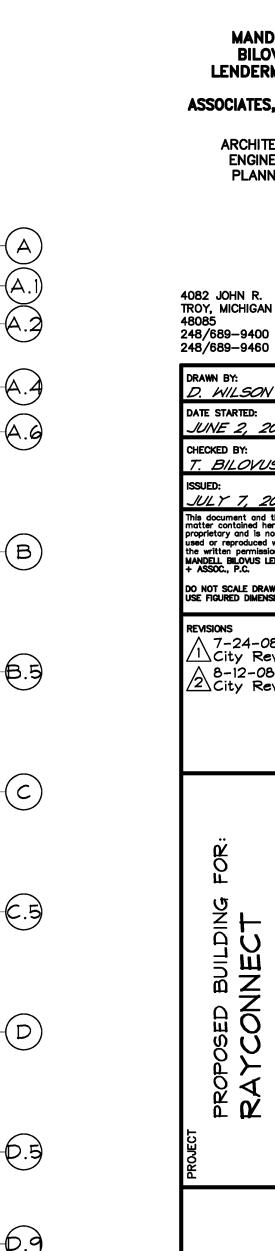
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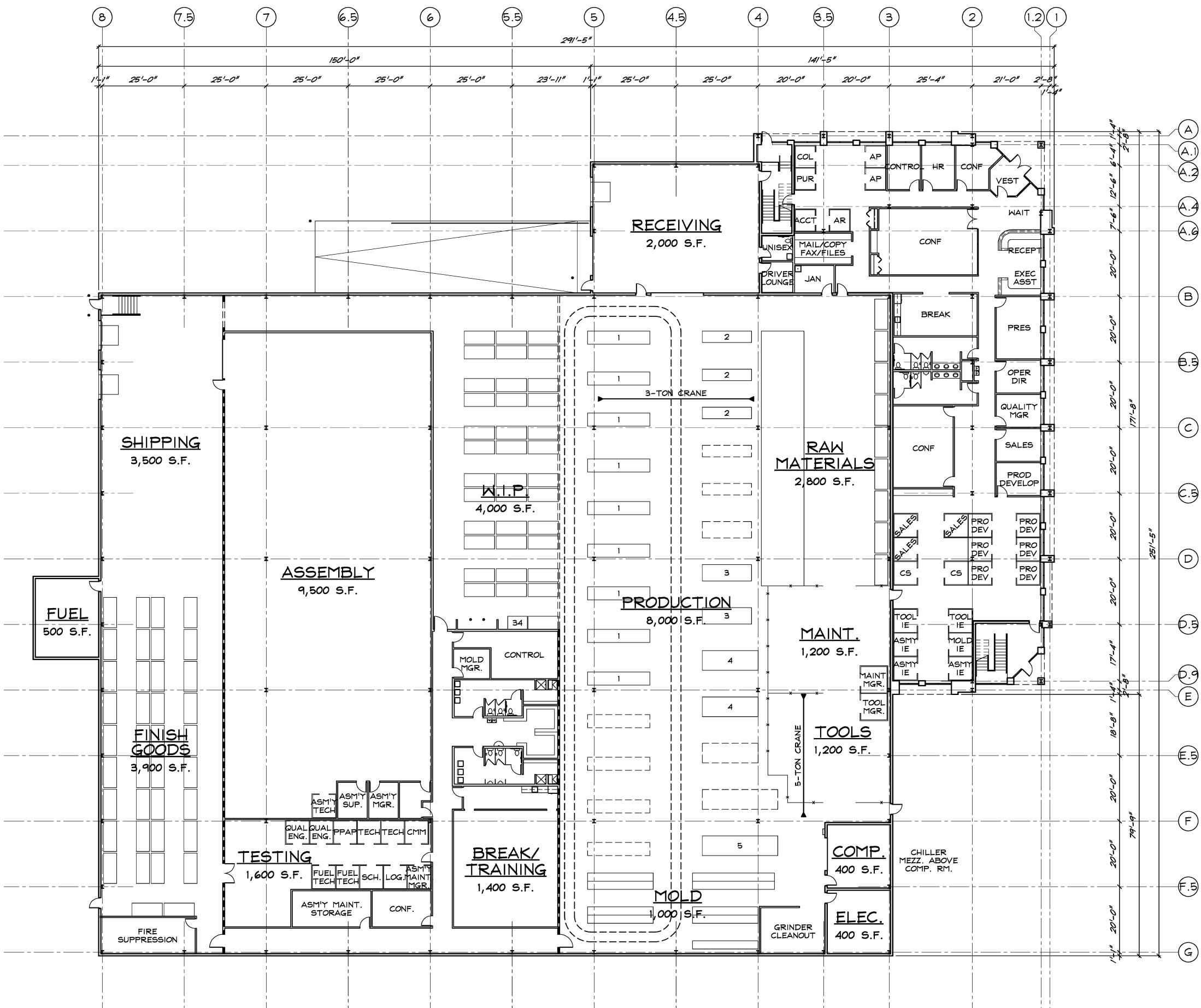


PRELIMINARY FLOOR PLAN

FILE NO. 08-430

PRELIMINARY

NOT FOR CONSTRUCTION



DESIGN CRITERIA

WIND DESIGN CRITERIA 1. WIND SPEED (3-SEC GUST) V = 90 MPH

2. WIND IMPORTANCE FACTOR IW = 1.15

3. BUILDING CATEGORY = 3

4. WIND LOAD EXPOSURE CATEGORY = B

5. DESIGN WIND PRESSURE

A) MAIN WINDFORCE-RESISTING SYSTEM: 16.1 PSF

B) COMPONENT AND CLADDING: 21 PSF

6. SIMPLIFIED WIND LOAD METHOD

7. INTERNAL PRESSURE COEF.: GCpi = ±0.18

ROOF SNOW LOAD DESIGN CRITERIA 1. SNOW EXPOSURE FACTOR Ce = 1.0

2. SNOW IMPORTANCE FACTOR: Is = 1.1

GROUND SNOW LOAD: PG = 25.0 PSF

4. THERMAL FACTOR: Ct = 1.0

5. ROOF SLOPE FACTOR: Cs = 1.0 6. FLAT ROOF SNOW LOAD: Pf = 19.25 PSF

SEISMIC LOADING DESIGN CRITERIA AND CODE REFERENCE

1. SEISMIC USE GROUP = GROUP 2

2. SEISMIC DESIGN CATEGORY = CATEGORY B

3. SPECTRAL RESPONSE COEF. Sds = 0.127

4. SPECTRAL RESPONSE COEF. Sdl = 0.068

5. SITE CLASS = D

6. SEISMIC FORCE RESISTING SYSTEM:

ORDINARY REINFORCED MASONRY WALLS 7. ANALYSIS PROCEDURE = EQUIV. LATERAL CODE REFERENCE

ASCE FIGURE 6-1 2006 MICHIGAN BUILDING CODE TABLE 1604.5

2006 MICHIGAN BUILDING CODE TABLE 1604.5

2006 MICHIGAN BUILDING CODE ARTICLE 1609.4

2006 MICHIGAN BUILDING CODE TABLE 1609.6.2.1 (1)

2006 MICHIGAN BUILDING CODE TABLE 1609.6.2.1 (2) 2006 MICHIGAN BUILDING CODE ARTICLE 1609.6

CODE REFERENCE

ASCE 7-02 FIGURE 6-5

2006 MICHIGAN BUILDING CODE TABLE 1608.3.1

2006 MICHIGAN BUILDING CODE 2006 MICHIGAN BUILDING CODE FIGURE 1608.2

2006 MICHIGAN BUILDING CODE TABLE 1608.3.2 2006 MICHIGAN BUILDING CODE ASCE SECTION 7.3

CODE REFERENCE

2006 MICHIGAN BUILDING CODE TABLE 1604.5 2006 MICHIGAN BUILDING CODE

TABLE 1616.3(2) 2006 MICHIGAN BUILDING CODE EQUATION 16-18 (SHORT PERIODS)

2006 MICHIGAN BUILDING CODE EQUATION 16-19 (1 - SECOND 2006 MICHIGAN BUILDING CODE

2006 MICHIGAN BUILDING CODE TABLE 1617.6

2006 MICHIGAN BUILDING CODE ARTICLE 1616.6

NOTE:

TREE REMOVAL IN THE AUSTIN AVENUE RIGHT-OF-WAY EXTENSION WILL BE SUBMITTED BY HRC.

OFFSITE TREES TO BE REMOVED FOR ROAD CONSTRUCTION: (40 TREES TOTAL) 161, 168, 169, 170, 171, 273, 274, 275, 276, 277, 278, 279,280, 281, 282, 283, 284, 315, 316, 317, 320, 321, 322, 323, 324, 325, 378, 379, 380, 381, 382, 383, 387, 388, 395, 396, 397,398,399,400

- DATA FOR THE TREE SURVEY WAS COMPLETED IN JUNE/2008
- ALL TREES TO REMAIN WILL BE IDENTIFIED BY PAINT OR FLAGGING.
- SEE TREE PROTECTION DETAIL ON SHEET L-2 FOR TREES TO REMAIN

TDEE0 TO DEVAN

- 254 TREES TO REMAIN— PROVIDE TREE PROTECTION AS REQUIRED
- 254 TREES TO BE REMOVED
- OFF−SITE TREE TO BE PRESERVED

LEGEND / REPLACEMENT TREE NOTES

OFF-SITE TREE TO BE REMOVED FOR ROAD CONSTRUCTION

NOTE: ALL ASH TREES TO BE REMOVED & DISPOSED OF ACCORDING TO CITY OF ROCHESTER HILLS AND OAKLAND COUNTY STANDARDS FOR ASH TREE REMOVAL.

REMOVE & DISPOSE OF ACCORDING TO STANDARDS TO PREVENT THE SPREAD OF EMERALD ASH BORER.

TREE REMOVAL CALCULATIONS:	
TOTAL NUMBER OF TREES SURVEYED	284
MINUS TOTAL NUMBER OF ASH TREES	-13
MINUS DEAD TREES(OTHER THAN ASH TREES)	-4
MINUS OFF SITE TREES	-54
MINUS TREES IN ROAD EXTENSION AREA	<u>-40</u>
TOTAL NUMBER OF REGULATED TREES ONSITE	173
TOTAL NUMBER TREES REMOVED	<u>-163</u>
TOTAL NUMBER OF TREES BEING SAVED	10

	TAG#	CODES	SIZE	COMMON NAME	LATIN NAME	CONDITION
_	160	WA	16	White Ash	Fraxinus americana	——DEAD—
k	161	NS	22	Norway Spruce	Picea abies	GOOD
•	162	WS	15 	- White Spruce		
		-WS	14		Picea glauca	
	163			White Spruce	Picea glauca	FAIR
_	164	MR	6-Jan	Red Mulberry	Morus rubra	
_	165 -	MR	-7	Red Mulberry	Morus rubra	
_	166	WS	11	White Spruce	Picea glauca	FAIR
	167 —	NS.	_25	Norway Spruce	Picea abies	GOOD_
•	168	WC	8	White Cedar	Thuja occidentalis	GOOD
t	169	WC	8	White Cedar	Thuja occidentalis	GOOD
t	170	RM	15	Red Maple	Acer rubrum	GOOD
Ė	171	RM	25	Red Maple	Acer rubrum	GOOD
•	172 -	BX	8	Box elder	Acer negundo	
	173	BX	2 x6 	Box elder	Acer negundo	
	174	BC	10	Wild Black Cherry	Prunus serotina	
	175	NM -	7	Norway Maple	Acer platanoides	
	176	BX	8		•	
				Box elder	Acer negundo	
	177	BX	6	Box elder	Acer negundo	
	178 -	RM	2 x6	Red Maple	Acer rubrum	
	179 -	BX	11	Box elder	Acer negundo	
	180	BC	9	Wild Black Cherry	Prunus serotina	
	181	BX	_ 3_x7	Box elder	Acer negundo	GOOD_
	182 -	BX	-4 ×6	Box elder	Acer negundo	COOD_
_	183 -	BX	3 x7 	Box elder	- Acer neğundo	
_	184	BX	_11	Box elder	Acer negundo	GOOD_
	185	ВХ	8	Box elder	- Acer neğundo	
	186	BX	7	Box elder	Acer negundo	GOOD-
	187	BX	6	Box elder	Acer negundo	FAIR
	188	BX—	<u>.</u> 6	Box elder	Acer negundo	GOOD_
	1 89	BX	6	Box elder		
	190	CT	7		Acer negundo	
_			,	Cottonwood	Populus deltoides	
	191 -	CT	15	Cottonwood	Populus deltoides	
	192	CT	17	Cottonwood	Populus deltoides	
	193	CT	-14	Cottonwood	Populus deltoides 	
	194	-WA	7	- White Ash	Fraxinus americana	
_		-CT	-12	Cottonwood	Populus deltoides —	
_	196 -	WO -	6	- White Oak	Quercus alba	FAIR
_	197 -	CT	6	Cottonwood	Populus deltoides	GOOD
_	198	CT	_88		Populus deltoides	GOOD_
_	199	CE	-6	Chinese Elm	- Ulmus parvifolia	FAIR—
	200	CT	19	Cottonwood	Populus deltoides	G00D
	201	PB	-6	Paper Birch	Betula papyrifera	
	202	BC	6	Wild Black Cherry	Prunus serotina	
	202	RO 	9	Red Oak	Quercus rubra	
			9			
	204	CT	-	Cottonwood Dad Oak	Populus deltoides	GOOD-
	205	RO	6	Red Oak	Quercus rubra	FAIR
	206	-WO	6	White Oak	Quercus alba	
	207	R0	18	Red Oak	Quercus rubra	
	208	-R0	2 x17	Red Oak	Quercus rubra	
	209	R0		Red Oak	- Quercus rubra	
	210 -	-R0	-7	Red Oak	Quercus rubra	GOOD-
	211 —	-R0	17	Red Oak	Quercus rubra	COOD_
_	212	-R0	18	Red Oak	Quercus rubra — —	
	213	RO	10	Red Oak	Quercus rubra	
	214	R0	12	Red Oak	Quercus rubra	GOOD_
	215	E	6	American Elm	Ulmus americana	
	216 -	Ē	10	American Elm	Ulmus americana	
	217	RO RO	7	Red Oak	Quercus rubra	
	217 218	RO	18	Red Oak	Quercus rubra	
			22			
	219 -	RO		Red Oak	Quercus rubra	
	220	BC	6	Wild Black Cherry	Prunus serotina	
	221	CT	14	Cottonwood	Populus deltoides	
	222	BC	-6	Wild Black Cherry	- Prunus serotina	GOOD_
	223	RO	-6	Red Oak	Quercus rubra	GOOD_
	224	-P0	10	Pin Oak	Quercus palustris	
	225	R0	-6	Red Oak	Quercus rubra	GOOD_
	226	R0	-6	Red Oak	Quercus rubra	COOD_
	227	RO	8	Red Oak	Quercus rubra	GOOD
	228	RO	-6	Red Oak	Quercus rubra	
	229		7	Cottonwood	Populus deltoides	
		01	,	Socionwood	i opalas acitolaes	1 001

					_					_
62	TREES	TO	ΒE	REMOVED	(NOT	INCLUDING	ASH	OR	DEAD	TREES)
		. –			(– .					

				0011111011 1171111	27(111(147(11))	
-	230	ВХ	2 x7	Box elder	Acer negundo	GOOD
-	231	-RO		Red Oak	Quercus rubra	GOOD
-	232	-CT	-8	Cottonwood	Populus deltoides	GOOD
-	233	-CT	9	Cottonwood	Populus deltoides — —	GOOD
	234	BX-	-6	Box elder	Acer negundo	GOOD
	235	BX	9	Box elder	Acer negundo	
	236	BX	2 x11 	Box elder	Acer negundo	- GOOD-
	237	BX	2 x9	Box elder	Acer negundo	- GOOD-
	238	BX	$\frac{2}{2}$ $\times 7$	Box elder	Acer negundo	- GOOD
	239	BX	- 6	Box elder	Acer negundo	- GOOD
	240	BX	- 7	Box elder	Acer negundo	- GOOD
-	241	-CT	. 22	Cottonwood	Populus deltoides	GOOD
_	242	-BX	2 ×6	Box elder	Acer negundo	- GOOD
	243	BX	-7	Box elder	Acer negundo	- GOOD-
	244	_CE		Chinese Elm	Ulmus parvifolia	
	245	-WH	- 10	White Willow	Salix alba	- GOOD
	246		2 ×6	Box elder	Acer negundo	
_	247	BX BX	2 x6	Box elder	Acer negundo	
	248 248	BX BX	5 x7	Box elder		- GOOD GOOD-
	2 4 9	BL BL	2 x10	Black Locust	Acer negundo	- GOOD-
_	2 50	BL	2 x10 2 x8	Black Locust	Robinia pseudoacacia	GOOD
	250 251	BL BL	2 xo 2 x10		Robinia pseudoacacia	- GOOD - GOOD
				Black Locust	Robinia pseudoacacia	
	252 253	BX BL	8 10	Box elder	Acer negundo	GOOD GOOD
				Black Locust	Robinia pseudoacacia	
-	254	BL CT	6 2 x15	Black Locust	Robinia pseudoacacia	- GOOD -
•	255			Cottonwood	Populus deltoides	GOOD
•	256	CT	2 x12	Cottonwood	Populus deltoides	- GOOD -
-	257	-CT	2 x9	Cottonwood	Populus deltoides	- COOD-
•	258	CT	2 x10 	Cottonwood	Populus deltoides	- GOOD -
•	259	CT	12	Cottonwood	Populus deltoides	- GOOD-
-	260	CT	3 x12	Cottonwood	Populus deltoides	- GOOD -
	261	CT	15	Cottonwood	Populus deltoides	GOOD
	262	CT	12	Cottonwood	Populus deltoides	GOOD
-	263	CT_	8	Cottonwood	Populus deltoides	
•	264	CT	13	- Cottonwood	Populus deltoides	
•	265	CT	11	- Cottonwood	Populus deltoides	
-	266	-CT	11	- Cottonwood	Populus deltoides	
•	267	BX BX	2 x7	Box elder	Acer negundo	- GOOD -
•	268	BX—	-8	Box elder	Acer negundo	
-	269	BX—	9	Box elder	Acer negundo	
•	270	CT	11	Cottonwood	Populus deltoides	- GOOD -
•	271	-CT	2 x12 	Cottonwood	Populus deltoides	- GOOD -
_	272	CT	3 x14	Cottonwood	Populus deltoides	- COOD-
	273	RO	25	Red Oak	Quercus rubra	GOOD
	274	WO	23	White Oak	Quercus alba	GOOD
	275	WO	26	White Oak	Quercus alba	GOOD
	276	WO	25	White Oak	Quercus alba	GOOD
	277	CT	32	Cottonwood	Populus deltoides	GOOD
	278	В	6	Basswood	Tilia americana	GOOD
	279	E	7	American Elm	Ulmus americana	FAIR
	280	BX	7	Box elder	Acer negundo	GOOD
	281	BX	8	Box elder	Acer negundo	GOOD
	282	WO	30 10	White Oak	Quercus alba	GOOD
	283	CT	16	Cottonwood	Populus deltoides	GOOD
	284	WO	9	White Oak	Quercus alba	POOR
-	285	MR	2 x8 	Red Mulberry	Morus rubra	GOOD
-	-286 -	MR	9	Red Mulberry	Morus rubra	COOD_
-	287	BC	6	Wild Black Cherry	Prunus serotina	GOOD
-	288	-CT	36	- Cottonwood	Populus deltoides	GOOD-
-	289	BX	-6	Box elder	Acer negundo	- GOOD -
-	290	-BC	6	Wild Black Cherry	Prunus serotina	GOOD
-	291	Ē	2 x13 	American Elm	- Ulmus americana	DEAD
-	292	E	-6	American Elm	- Ulmus americana	-FAIR
-	293	-WO-	16	White Oak	Quercus alba	GOOD
-	294	BC-	2 4	Wild Black Cherry	Prunus serotina	<u> </u>
	-295 -	-WO	14	White Oak	Quercus alba	- GOOD -
-	-296 -	BC	-12	Wild Black Cherry	Prunus serotina	GOOD-
-			~~	\M/I=!± =	O	$\alpha \alpha \alpha \rho \rho$
-	297	-WO-	-27	White Oak	Quercus alba	- GOOD-
-			27 26 24	White Oak White Oak Chinese Elm	Quercus alba Quercus alba Ulmus parvifolia	

-230-	BX	2 x7	Box elder	Acer negundo	GOOD
-231-	-RO		Red Oak	Quercus rubra	
232	-CT-	8	Cottonwood	Populus deltoides	- GOOD-
				•	
-233-	-CT-	9		Populus deltoides — —	- GOOD -
-234 -	BX	6	Box elder	— ∧cer negundo ———	GOOD
-235 -	BX-	9	Box elder	Acer negundo	GOOD
-236 -	-BX-	2 x11 	Box elder	- Acer negundo	
237	BX	2 x9	Box elder		
				Acer negundo	
-238	-BX-	2 ×7	Box elder	Acer negundo	
-239-	-BX-	6	- Box elder	- Acer negundo	
-240-	-BX-		Box elder	Acer negundo	
241	- CT -	- 22	Cottonwood	Populus deltoides	GOOD
242	BX	2 x6	Box elder	•	- GOOD -
				Acer negundo	
243	BX	7	Box elder	Acer negundo	
244	CE	11	Chinese Elm	— Ulmus parvifolia — — —	GOOD
- 245 -	- WH-	10	White Willow	- Salix alba	
-246	BX-	2 x6	Box elder	Acer negundo	COOD
247	BX	2 x6	Box elder		
				Acer negundo	
- 248 -	-BX-	5 x7	- Box elder	- Acer negundo	
-249 -	-BL-	2 x10 	- Black Locust	Robinia pseudoacacia	
250	BL	2 x8	Black Locust	Robinia pseudoacacia	GOOD
251	BL	2 x10	Black Locust	Robinia pseudoacacia	- GOOD-
	BX	8	Box elder	•	
252				Acer negundo	G00D
253	BL	10	Black Locust	Robinia pseudoacacia	GOOD
-254	-BL	6	Black Locust	Robinia pseudoacacia	
255	_CT_	2 x15	Cottonwood	Populus deltoides	GOOD
-256	_ČŤ	2 x12	Cottonwood	Populus deltoides	
257	_CT_	$\frac{2}{2}$ $\times 9$			
			— Cottonwood	Populus deltoides	
- 258 -	-CT-	2 x10 	Cottonwood	Populus deltoides — —	
-259-	-CT-	12	Cottonwood	Populus deltoides —	
-260-	-CT-	3 x12	Cottonwood	Populus deltoides	
261	ĊŤ	15	Cottonwood	Populus deltoides	GOOD
262	CT	12			
			Cottonwood	Populus deltoides	GOOD
-263 -	_CT_	8	Cottonwood	Populus deltoides	GOOD
-264 -	CT	 13	Cottonwood	— Populus deltoides — —	COOD
-265 -	CT	11	Cottonwood	Populus deltoides	GOOD
-266	-CT	<u>11</u>	Cottonwood	Populus deltoides	
				· · · · · · · · · · · · · · · · · · ·	
-267	BX BX	2 ×7	Box elder	Acer negundo	- GOOD -
-268 -	BX	8	Box elder	- Acer negundo	COOD
-269	_BX_	9	Box elder	— Acer negundo — — — —	GOOD
-270-	-CT-	- 11	Cottonwood	Populus deltoides	
271	-CT	2 x12	Cottonwood	Populus deltoides	- GOOD-
272	-CT-	$\frac{2}{3}$ $\times 14$			
			Cottonwood	Populus deltoides	
273	RO	25	Red Oak	Quercus rubra	GOOD
274	WO	23	White Oak	Quercus alba	GOOD
275	WO	26	White Oak	Quercus alba	GOOD
276	WO	25	White Oak	Quercus alba	GOOD
277	CT	32	Cottonwood	Populus deltoides	GOOD
278	В	6	Basswood	Tilia americana	GOOD
279	Ε	7	American Elm	Ulmus americana	FAIR
280	ВХ	7	Box elder	Acer negundo	GOOD
281	BX	8	Box elder	Acer negundo	GOOD
		30			
282	WO		White Oak	Quercus alba	GOOD
283	СТ	16	Cottonwood	Populus deltoides	GOOD
284	WO	9	White Oak	Quercus alba	POOR
-285 -	MR	2 x8 -	Red Mulberry	Morus rubra	
-286	MR	9	Red Mulberry	Morus rubra	— COOD —
$\frac{-287}{-287}$	BC	6			
			Wild Black Cherry	Prunus serotina	G00D
-288	-CT-	- 36	Cottonwood	Populus deltoides — —	
-289 -	-BX-	6	Box elder	- Acer negundo	GOOD
-290-	BC-	-6	Wild Black Cherry	Prunus serotina — — — — — — — — — — — — — — — — — — —	
291	-Ē	2 ×13 	American Elm	Ulmus americana	DEAD
292					
	E	-6	American Elm	Ulmus americana	FAIR
-293-	- WO -	16	White Oak	Quercus alba	GOOD
-294	BC	24		— Prunus serotina — — —	
-295 -	- WO -	- 14		Quercus alba	
-296	BC	- 12	Wild Black Cherry	Prunus serotina	
$\frac{230}{-297}$	- WO-	27			
			White Oak	Quercus alba	- GOOD-
-298	<u>WO</u>	26	White Oak	Quercus alba	<u> </u>
-299 -	-CE-	24	— Chinese Elm	Ulmus parvifolia — —	
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TAG# CODE SIZE COMMON NAME LATIN NAME CONDITION

55 TREES TO BE REMO	VED (NOT INCLUDING ASH	I OR DEAD TREES

	TAG#	CODE	E SIZE	COMMON NAME	LATIN NAME	CONDITION
-	300 301	WA CE	7 14	White Ash Chinese Elm	Fraxinus americana Ulmus parvifolia	POOR FAIR
	301	BO	26	Black Oak	Quercus velutina	GOOD
_	303	CT		- Cottonwood	Populus deltoides	GOOD GOOD
_	304 	-WA	8	White Ash	Fraxinus americana	— DEAD—
_	305	AS	-8	Quaking Aspen	Populus tremuloides	GOOD
_	306	CT		-Cottonwood	Populus deltoides	
_	307	Č	2 ×6	American Elm	Ulmus americana	
_	308	-CT	32	Cottonwood	Populus deltoides	
-	309	-ĈŤ	- 33	Cottonwood	Populus deltoides	GOOD
-	310	-WO-	2 x12+20	White Oak	Quercus alba	
_	311	WO	23	White Oak	Quercus alba	GOOD_
-	312	PB		Paper Birch	Betula papyrifera —	
-	313	CE	6	Chinese Elm	Ulmus parvifolia —	FAIR—
-	314	E	-7	American Elm	Ulmus americana	COOD
\triangle	315	CT	30	Cottonwood	Populus deltoides	GOOD
Δ	316	WH	8	White Willow	Salix alba	FAIR
\triangle	317	WH	6	White Willow	Salix alba	GOOD
\triangle	318	СТ	12	Cottonwood	Populus deltoides	GOOD
$\bar{\triangle}$	319	CT	8	Cottonwood	Populus deltoides	GOOD
*	320	CE	2 ×9	Chinese Elm	Ulmus parvifolia	GOOD
△** *	321	Ε	2 x8	American Elm	Ulmus americana	GOOD
*	322	Ε	11	American Elm	Ulmus americana	GOOD
**	323	E	6	American Elm	Ulmus americana	GOOD
*	324	E_	7	American Elm	Ulmus americana	GOOD
*	325	CT	18	Cottonwood	Populus deltoides	GOOD
	326	CT	38	Cottonwood	Populus deltoides	GOOD
	327	CE	7	Chinese Elm	Ulmus parvifolia	GOOD
	328	ΜH	2 x7	White Willow	Salix alba	GOOD
-	329	E	12	American Elm	Ulmus americana	— DEAD—
	330	E	6 7	American Elm	Ulmus americana	GOOD
	331 -332	BC WO		Wild Black Cherry White Oak	Prunus serotina Quercus alba	GOOD GOOD
	333	-WO	7	White Oak	Quercus alba	
_	334	-WO-		White Oak	— Quercus alba	
_	335	E	3 x8	American Elm	Ulmus americana	
_	336	Ē	6	American Elm	Ulmus americana	GOOD
-	337	BC	6	Wild Black Cherry	Prunus serotina	GOOD
_	338	-ĈŤ	-6	Cottonwood	Populus deltoides	— DEAD
	339	WO	2 x6+10	White Oak	Quercus alba	GOOD
-	340	WO	-8	White Oak	Quercus alba	GOOD
-	341	BC	8	Wild Black Cherry	Prunus serotina	GOOD
-	342	AP	7	Domestic Apple	Malus sylvestris	FAIR
	343	WO	6	White Oak	Quercus alba	GOOD
	344	WO	9	White Oak	Quercus alba	GOOD
-	345	BX-		Box elder	Acer negundo	GOOD_
-	346	BA	6	- Black Ash	- Fraxinus nigra	
-	347	BA	6	Black Ash	- Fraxinus nigra	FAIR
-	348	-WA	6	White Ash	- Fraxinus americana	DEAD
-	349	BX	10	Box elder	Acer negundo .	GOOD
-	350	WA -		White Ash	- Fraxinus americana -	DEAD
-	351	AP		Domestic Apple	Malus sylvestris	FAIR—
-	352	WA-		White Ash	Fraxinus americana	— DEAD—
	353	WO	/	White Oak	Quercus alba	GOOD
_	354 355	E CE	8	American Elm	Ulmus americana	GOOD FAIR
	356	BA	4 ×7	Chinese Elm Black Ash	Ulmus parvifolia Fraxinus nigra	FAIR
_	357	-WO-		White Oak	Quercus alba	GOOD
	358 358	-AS		Quaking Aspen	Populus tremuloides	——DEAD—
_	359	AS	- 7	Quaking Aspen	Populus tremuloides	GOOD
_	360	-SC		Scotch Pine	Pinus sylvestris	— <u>COOD</u>
_	361	BA	7	Black Ash	Fraxinus nigra	FAIR—
_	362	CE		Chinese Elm	Ulmus parvifolia	FAIR—
_	363	E	-6	American Elm	Ulmus americana	
_	364	- NM-	6	Norway Maple	Acer platanoides	
_	365	B0	9	Black Oak	— Quercus velutina	
-	366	B 0	6	Black Oak	Quercus velutina	
-	367	BC	6	Wild Black Cherry	Prunus serotina	GOOD_
-	368	RC		Red Cedar	- Juniperus virginiana -	COOD
	360		6	Pad Cadar		COOD_

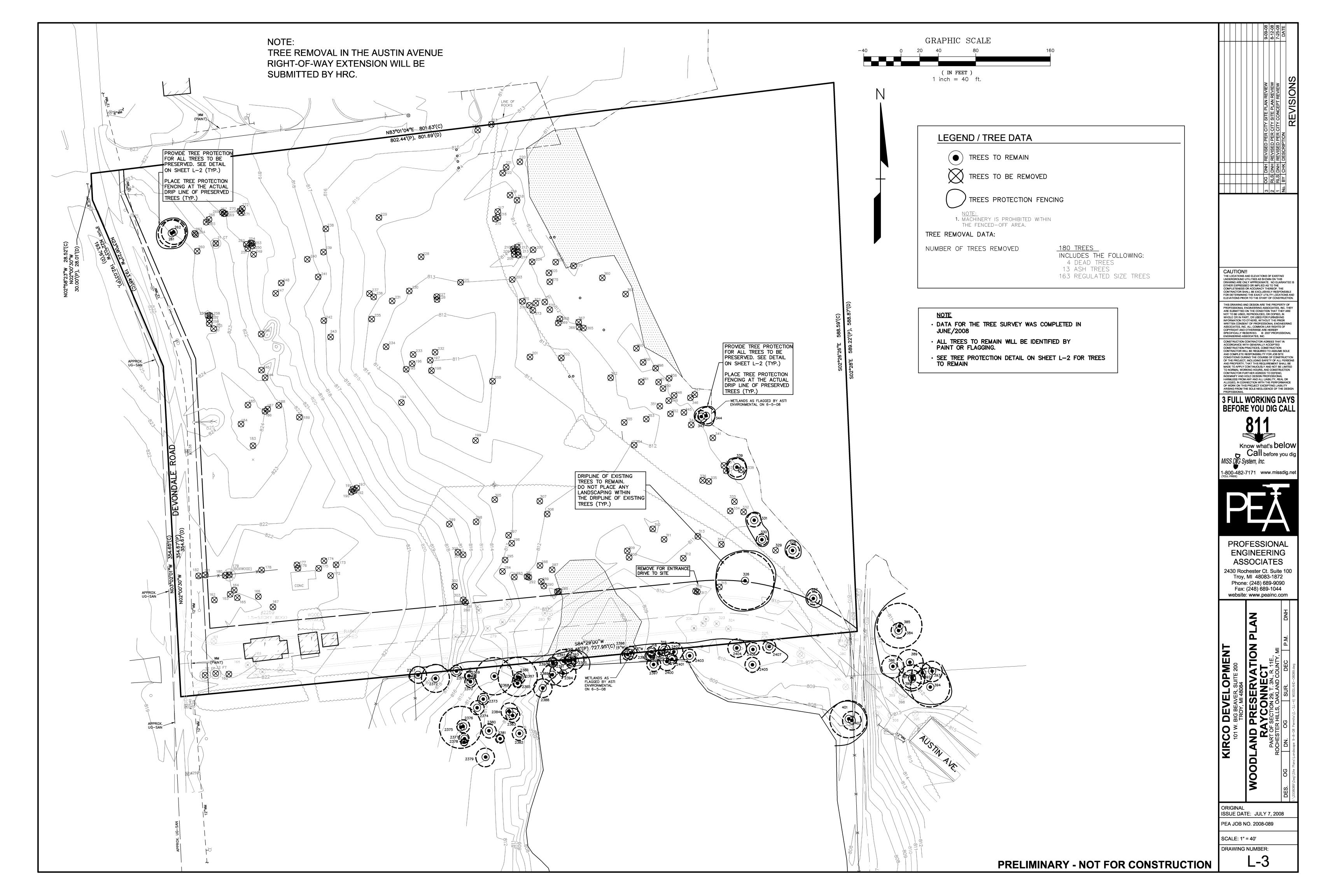
39 TREES	TO BE	REMOVED(NOT	INCLUDING	ASH	OR	DEAD	TREES)

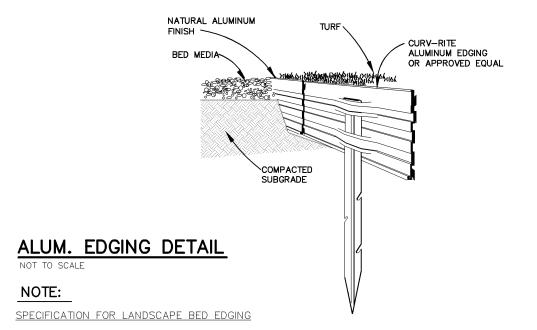
TAG#	CODE	SIZE	COMMON NAME	LATIN NAME	CONDITION
-370 -	-wo-	6	White Oak	Quercus alba	GOOD-
-371 -	- WO -		White Oak	Quercus alba	
-372 - - 373 -	-CT	- 13 12	Cottonwood Cottonwood	Populus deltoides Populus deltoides	
-374	Ē	-6	American Elm	Ulmus americana	
-375 -	E	-6	American Elm	Ulmus americana	
-376 - - 377 -	-WA -WO		White Ash White Oak	— Fraxinus americana — Quercus alba	DEAD—
k 378	CT	, 2 x8+13	Cottonwood	Populus deltoides	GOOD
379	CT	13	Cottonwood	Populus deltoides	GOOD
k 380 k 381	CT CT	25 20	Cottonwood Cottonwood	Populus deltoides Populus deltoides	GOOD GOOD
382	Ε	9	American Elm	Ulmus americana	GOOD
383	E	8	American Elm	Ulmus americana	GOOD
∑ 384 ∑ 385	BC WO	8 26	Wild Black Cherry White Oak	Prunus serotina Quercus alba	FAIR GOOD
∆ 386	BC	12	Wild Black Cherry	Prunus serotina	FAIR
387	ВА	10	Black Ash	Fraxinus nigra	POOR
♦ 388 △ 389	E BC	17 2 x14+19	American Elm	Ulmus americana	GOOD GOOD
$\stackrel{\sim}{2}$ 390	BC BC	10	Wild Black Cherry Wild Black Cherry	Prunus serotina Prunus serotina	GOOD
∆ 391	BC	9	Wild Black Cherry	Prunus serotina	GOOD
∆ 392 ∆ 393	BX	11	Box elder	Acer negundo	GOOD
∆ 393 ∆ 394	BX BC	11 21	Box elder Wild Black Cherry	Acer negundo Prunus serotina	GOOD GOOD
k 395	BC	10	Wild Black Cherry	Prunus serotina	POOR
k 396	BX	2 x14	Box elder	Acer negundo	GOOD
k 397 k 398	E BC	2 x17+27 13	American Elm Wild Black Cherry	Ulmus americana Prunus serotina	GOOD GOOD
4 399	BC	14	Wild Black Cherry	Prunus serotina	GOOD
400	СТ	8	Cottonwood	Populus deltoides	GOOD
∆ 401 ∆ 402	WH CT	20 11	White Willow Cottonwood	Salix alba Populus deltoides	GOOD GOOD
$\stackrel{\triangle}{\Delta}$ 2367		9	Wild Black Cherry	Prunus serotina	GOOD
2368		20	White Oak	Quercus alba	GOOD
∆ 2369 ∆ 2370		8 8	American Elm American Elm	Ulmus americana Ulmus americana	GOOD GOOD
$\stackrel{\triangle}{\Delta}$ 2371	Ē	6	American Elm	Ulmus americana	GOOD
∑ 2372	CT	15	Cottonwood	Populus deltoides	GOOD
<u>^</u> 2373 <u>^</u> 2374		6 7	American Elm Wild Black Cherry	Ulmus americana Prunus serotina	GOOD GOOD
2374		7 24×4	Cottonwood	Populus deltoides	GOOD
∑ 2376	Ε	8	American Elm	Ulmus americana	FAIR
∆ 2377 ∆ 2378		9 7×2	American Elm	Ulmus americana	GOOD GOOD
2376 2379		7x∠ 11	American Elm Cottonwood	Ulmus americana Populus deltoides	GOOD
<u>)</u> 2380	Ε	10	American Elm	Ulmus americana	FAIR
∆ 2381 ∆ 2382	E	6x2 12	American Elm	Ulmus americana	GOOD
2382 2383		9	American Elm Cottonwood	Ulmus americana Populus deltoides	GOOD GOOD
△ 2384	Ε	12	American Elm	Ulmus americana	GOOD
∆ 2385 ∆ 2386		19 23	White Oak	Quercus alba	GOOD
∆ 2386 ∆ 2387		23 10	White Oak Wild Black Cherry	Quercus alba Prunus serotina	GOOD FAIR
△ 2388	WO	11	White Oak	Quercus alba	GOOD
\triangle 2389		14	Willow	Salix Spp.	GOOD
∆ 2390 ∆ 2391	W	9 10	Cottonwood Willow	Populus deltoides Salix Spp.	GOOD GOOD
<u></u>	W	14	Willow	Salix Spp.	GOOD
∆ 2393 ∧ 2393		12x2	Willow	Salix Spp.	GOOD
<u> </u>		15 10	Willow Willow	Salix Spp. Salix Spp.	GOOD GOOD
$\stackrel{\frown}{\Delta}$ 2396	W	6	Willow	Salix Spp.	GOOD
△ 2397		10	Willow	Salix Spp.	GOOD
△ 2398 △ 2399		8 10	Cottonwood Willow	Populus deltoides	GOOD POOR
\triangle 2399 \triangle 2400		13	Willow	Salix Spp. Salix Spp.	POOR
△ 2401	W	10	Willow	Salix Spp.	GOOD
△ 2402		16 7	Cottonwood	Populus deltoides	GOOD
∆ 2403 ∆ 2404		7 12	Cottonwood Cottonwood	Populus deltoides Populus deltoides	GOOD GOOD
\triangle 2405		8	Cottonwood	Populus deltoides	GOOD
∆ 2406 ∆ 2407	CT	8	Cottonwood	Populus deltoides	GOOD
	-	7	American Elm	Ulmus americana	GOOD

7 TREES TO BE REMOVED (NOT INCLUDING ASH OR DEAD TREES)

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	24	30 T Pl	R ro ho Fa	oc y, ne x:	MI : (2 (24	4 248 (18)	80 3) 6	Ct. 183 68 89	Si 3-18 9-9	uite 87: 909 944	2 2 90 I	<u>1</u>
	24	30 T Pl	R ro ho Fa	oc y, ne x:	MI : (2 (24	4 248 (18)	80 3) 6	Ct. 183 68 89	Si 3-18 9-9	uite 87: 909 944	e 1 2 90	<u>1</u>
	24	30 T Pl	R ro ho Fa	oc y, ne x:	MI : (2 (24	4 248 (18)	80 3) 6	Ct. 183 68 89	Si 3-18 9-9	uite 87: 909 944	90 L om	ו ב
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DRAWING NUMBER:





LANDSCAPE BED EDGING SHALL BE CURV-RITE DESIGN 2 (CRD2) AS MANUFACTURED BY CURV-RITE INC. WAYLAND, MICHIGAN 1 - 800 366 - 2878. EIGHT (8) OR SIXTEEN (16) FOOT SECTIONS SHALL BE USED WITH ONE STAKE PER (38) INCHES OF EDGING EDGING SHALL BE ALUMINUM ALLOY 6063 - T6 WITH STAKES BEING 6061 - T6 STAKE SHALL SECURELY ENGAGE EDGING AND SHALL BE ENTIRELY BELOW TOP SURFACE OF EDGING. EDGING SHALL HAVE A MINIMUM OF (2) INCHES OF INTERLOCKING OVERLAP BETWEEN SECTIONS. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS WITH TOP OF EDGING 1/4" TO 1/2" ABOVE COMPACTED FINISH GRADE. FINISH GRADE TO BE COMPACTED ON EITHER SIDE OF EDGING TO MAINTAIN STABILITY.

TREE PROTECTION DETAIL

ON CENTER.

BE REVIEWED BY THE CITY.

BUT NOT LIMITED TO

PROTECTED AREAS.

KIND IS PROHIBITED

P.O. BOX 7841

(734)677 - 3260

PRAIRIE NURSERY

KLYN NURSERY INC.

P.O. BOX 306

ANN ARBOR, MI 48107

WWW.NATIVEPLANT.COM

1. EITHER PLASTIC OR WOOD ORANGE SNOW FENCING SHALL BE INSTALLED AT OR BEYOND THE DRIPLINE, UNLESS MORE SUBSTANTIAL FENCING IS

2. STAKES SHALL BE METAL "T" POLES SPACED NO FURTHER APART THAN 5'

DRIPLINE OF THOSE TREES TO BE SAVED. SPECIAL CIRCUMSTANCES SHALL

4. FENCING SHALL BE ERECTED PRIOR TO CONSTRUCTION. THE CITY SHALL BE

6. NO PERSON SHALL CONDUCT ANY ACTIVITY WITHIN THE AREAS PROPOSED TO

5. UNDER NO CIRCUMSTANCE SHALL THE PROTECTIVE FENCING BE REMOVED

B. NO BUILDING MATERIALS OR CONSTRUCTION EQUIPMENT WITHIN THE

C. NO GRADE CHANGES, INCLUDING FILL, WITHIN THE PROTECTED AREAS.

D. NO REMOVAL OR VEGETATION FROM THE GROUND, WITHOUT PERMISSION

E. ANY REQUIRED SWALE NEEDS TO BE DIRECTED AROUND THE PROTECTED

PROTECTED AREA, THE SWALES NEED TO BE HAND DUG, MACHINERY OF ANY

AREAS. IN INSTANCES WHERE SWALES ARE APPROVED THROUGH A

3. FENCING SHALL NOT BE INSTALLED CLOSER TO THE TREE THAN THE

NOTIFIED ONCE THE FENCING IS INSTALLED FOR INSPECTION.

A. NO SOLVENTS OR CHEMICALS WITHIN THE PROTECTED AREAS.

WITHOUT PROPER APPROVAL FROM THE CITY.

FROM THE PROPER REVIEWING AUTHORITY.

CONTACTS:
NATIVE PLANT NURSERY LLC

J.F. NEW & ASSOCIATES, INC.

PHONE: 616-847-1680 FAX: 616-847-9970

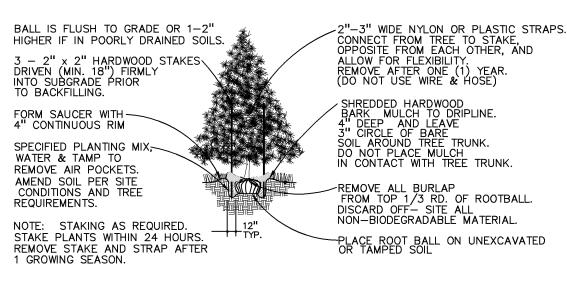
WESTFIELD, WI 53964 PHONE: 800-476-9453

600 S. BEACON BLVD., SUITE A GRAND HAVEN, MI 49417

WEBSITE: WWW.JFNEWNURSERY.COM

WEBSITE: WWW.PRAIRIENURSERY.COM

MINERAL SOIL



PLANTING NOTES

AND FESCUE.

RESPONSIBILITIES.

8. PLANT SPACING GUIDE:

9,330 S.F

STORM WATER

LAWN AREAS AND SHRUB BEDS.

APPLICATION RATE IS 8 POUNDS PER 1000 S.F.

GRASS SEED MIX: ANALYSIS

1. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT/OR OWNER'S REPRESENTATIVE IMMEDIATELY TO RESOLVE ANY CONFLICTS BETWEEN

2. INSTALL SOD IN ALL AREAS INDICATED ON PLAN. SOD TO BE WELL ESTABLISHED, MINERAL GROWTH, NO PEAT SOD WILL BE ALLOWED. SOD

BARONS, 15% MAJESTIC, 15% GLADE AND, 15% ABBEY OR REVIEWED

BLEND SHALL CONSIST OF THE FOLLOWING BLUEGRASS TYPES: 55%

COMPLETELY INSTALLED & APPROVED BY THE LANDSCAPE ARCHITECT.

3. SEEDED LAWN TO BE A COMBINATION OF BLUEGRASS, PERENNIAL RYE

PLANS AND FIELD CONDITIONS BEFORE PROCEEDING WITH HIS/HER WORK.

EQUIVALENT. ACCEPTANCE AND GUARANTEE NOTES SHALL APPLY TO ALL

SOD. SOD MUST BE INSTALLED ONLY AFTER IRRIGATION SYSTEM HAS BEEN

THE AUTOMATIC IRRIGATION SYSTEM SHALL PROVIDE 100% COVERAGE ON ALL

DESCRIPTION

23.02% Manhattan II Perennial Ryegrass 92%

ALL LAWN AREAS SHOULD BE FERTILIZED AT INSTALLATION WITH 0-26-26 ANALYSIS

24.53% Abbey Kentucky Bluegrass

24.53% Banner Chewing Fescue

4. SEEDING RATE: 6 POUNDS PER 1000 S.F., IF HYDRO-SEEDING METHOD IS USED,

AT A RATE OF 6LBS. PER 1000 SQUARE FEET, SECOND APPLICATION TO BE 15-40-5, APPLIED AT A RATE OF 6LBS PER 1000 SQUARE FEET AFTER CUTTING.

ALL LAWN AREAS TO REMAIN FREE OF WEEDS, AND OTHER DEBRIS.

BY THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT.

DURING AND AT THE END OF THE GUARANTEE PERIOD.

APPLY POST AND EMERGENT HERBICIDES AS REQUIRED.

ACCEPTANCE AND GUARANTEE NOTES SHALL APPLY TO ALL SEEDED AREAS.

5. GUARANTEE OF PLANTS FOR TWO (2) YEARS SHALL BEGIN AFTER APPROVAL

THE CONTRACTOR SHALL GUARANTEE ALL PLANTS TO BE IN A HEALTHY. VIGOROUS CONDITION FOR A PERIOD OF TWO (2) YEARS FOLLOWING APPROVAL.

THE CONTRACTOR SHALL REPLACE WITHOUT COST TO OWNER, ANY DEAD

6. ACCEPTANCE OF GRADING AND SEEDING SHALL BE BY LANDSCAPE ARCHITECT

MAINTENANCE RESPONSIBILITIES FOR A MINIMUM OF NINETY (90) DAYS OR UNTIL

AND/OR PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME

SECOND CUTTING, WHICHEVER, IS LONGER. MAINTENANCE SHALL

INCLUDE WATERING, WEEDING, RESEEDING, AND OTHER OPERATIONS

NECESSARY TO KEEP LAWN IN A THRIVING CONDITION. UPON FINAL

ASSUME ALL MAINTENANCE RESPONSIBILITIES. AFTER LAWN AREAS

GRASS FOR ANY REASON WHATSOEVER SHALL BE RESEEDED

HAVE GERMINATED, AREAS WHICH FAIL TO SHOW UNIFORM STAND OF

ACCEPTANCE BY LANDSCAPE ARCHITECT AND/OR OWNER, OWNER SHALL

UNTIL ALL AREAS ARE COVERED WITH A SATISFACTORY STAND OF

GRASS. MINIMUM ACCEPTANCE OF SEEDED LAWN AREAS MAY INCLUDE

7. ACCEPTANCE OF GRADING AND SOD SHALL BE BY LANDSCAPE ARCHITECT

AND/OR PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME

INCLUDE WATERING, WEEDING, REPLACEMENT OF WASH-OFFS AND OTHER

UPON FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT AND/OR PROJECT

• TREES AND SHRUBS MAY NOT BE PLANTED WITHIN 4' OF A PROPERTY LINE.

. TREES AND SHRUBS MAY NOT BE PLANTED WITHIN 10' OF A FIRE HYDRANT.

• TREES AND SHRUBS ARE NOT PERMITTED WITHIN A RIGHT-OF-WAY ..

6"-8" Ø COBBLESTONE BORDER ON LANDSCAPE

FABRIC (4' WIDE)

• SHADE TREES AND SHRUBS ARE NOT BE PLANTED WITHIN 5' OF A PUBLIC WALKWAY.

• EVERGREEN AND ORNAMENTAL TREES ARE NOT BE PLANTED WITHIN 10' OF A PUBLIC

• TREES ARE NOT BE PLANTED WITHIN 5' OF ANY UNDERGROUND UTILITY OR 15' OF AN

ALL LANDSCAPE BEDS

ON LANDSCAPE FABRIC

AND ALUM. EDGING

TO RECEIVE BARK MULCH

PROJECT REPRESENTATIVE, THE OWNER SHALL ASSUME ALL MAINTENANCE

SECOND CUTTING, WHICHEVER IS LONGER. MAINTENANCE SHALL

OPERATIONS NECESSARY TO KEEP SOD IN A THRIVING CONDITION.

SCATTERED BARE SPOTS, NONE OF WHICH ARE LARGER THAN 1 SQUARE

FOOT AND WHEN COMBINED DO NOT EXCEED 2 PERCENT OF TOTAL SEEDED

MAINTENANCE RESPONSIBILITY FOR A MINIMUM OF NINETY (90) DAYS OR UNTIL

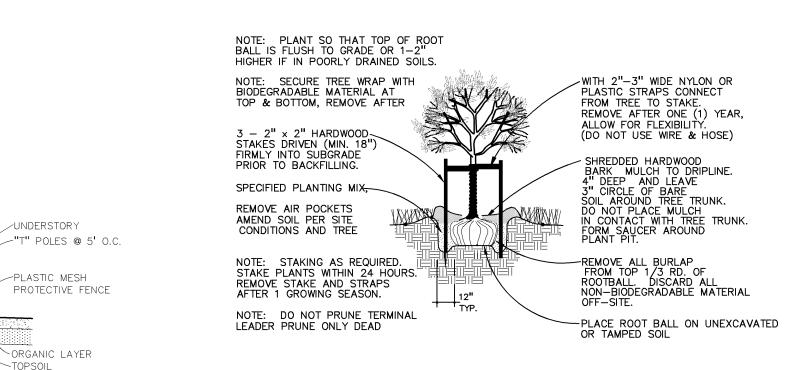
OR UNACCEPTABLE PLANTS. AS DETERMINED BY LANDSCAPE ARCHITECT

24.52% Koket Chewing Fescue

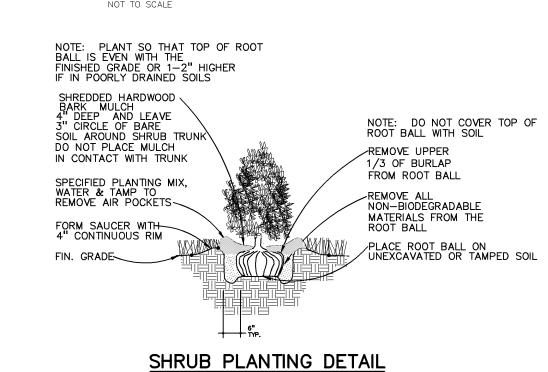
GERMINATION

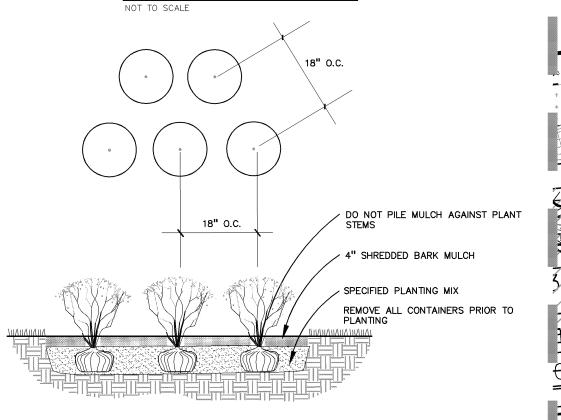
87%

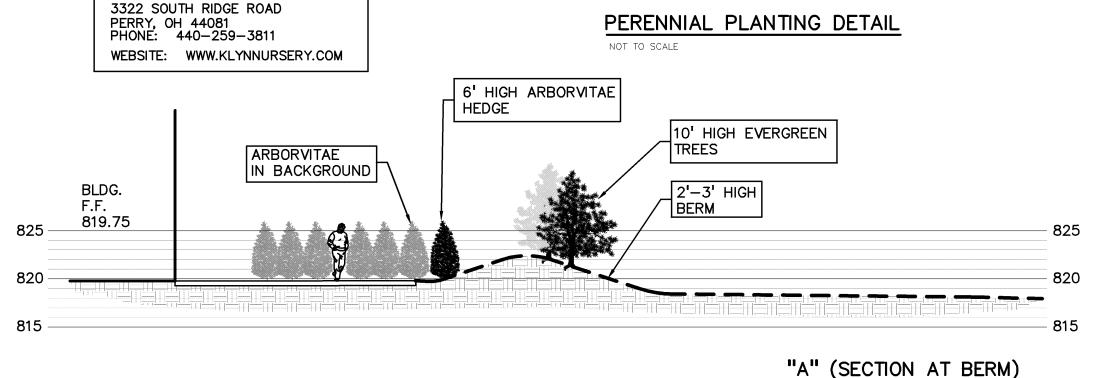
EVERGREEN TREE PLANTING DETAIL



DECIDUOUS TREE PLANTING DETAIL







GENERAL PLANTING NOTES:

1. Landscape contractor shall visit site, inspect existing site conditions and review proposed planting and related work. In case of discrepancy between plan and plant list, plan shall govern quantities. Contact Landscape Architect with any concerns.

2. Contractor shall verify locations of all on site utilities prior to beginning construction on his/her phase of work. Electric, gas, telephone, cable television may be located by calling MISS DIG 1-800-482-7171. Any damage or interruption of services shall be the responsibility of Contractor. Contractor shall coordinate all related activities with other trades on the job and shall report any unacceptable job conditions to Owner's Representative prior to commencing.

3. All plant material to be premium grade nursery stock and shall satisfy American Association of Nurserymen standard for Nursery Stock. All landscape material shall be Northern Grown, No. 1. Grade.

4. Contractor is responsible for verifying all quantities shown on landscape plan prior to pricing the work.

5. The owner's representative reserves the right to reject any plant material not meeting specifications.

symmetrical crowns.

trees with forked or irregular trunks will not be accepted.

symmetrical crowns. One sided trees or those with thin or open crowns shall not be accepted.

the ground, symmetrical in shape and not sheared for the last five growing seasons.

10. All trees to have clay or clay loam balls, trees with sand balls Will Be Rejected.

11. No machinery is to be used within the drip line of existing trees; Hand grade all lawn areas within the drip

12. All tree locations shall be staked by Landscape Contractor and are subject to the approval of the Landscape

13. It is mandatory that positive drainage is provided away from from all buildings.

14. All planting beds shall receive 4" shredded hardwood bark mulch, see specifications. Shredded palette and died

BUFFER TREES, FOUNDATION SHRUBS, WETLAND MITIGATION AND MATERIAL

Description

Min. Size Unit Price

Item Price

PLAN PLAN CEPT

CITY CITY

PER (

COST OPINION

130	TONS 2010 s.f./1:	5 s.f. per ton=134 tons			
	PERSONAL TARK	6*-8" Cobblestone		\$40.00	\$5,200.00
1	L.S.	Automatic Imigation		\$15,000.00	\$15,000.00
0.16	ACRES	Slope Stablization Seed mix		\$750.00	\$120.00
0.7	ACRES	Stormwater Wetland Edge Seed mix		\$1,800.00	\$1,260.00
500	S.Y.	Sod Lawn		\$4.00	\$2,000.00
10,380	S.Y.	Hydro-seed Lawn		\$1.10	\$11,418.00
475	LF	Alum Edging		\$3.00	\$1,425.00
80	CY	4" deep shredded hardwood bark mu	lch	\$48.00	\$3,840.00
13	EA	NANNYBERRY	24" HT.	\$45.00	\$585.00
27	EΑ	AMERICAN ELDER	24" HT.	\$45.00	\$1,215.00
15	EA	RED-OSIER DOGWOOD	24" HT.	\$45.00	\$675.00
2	EA	SWAMP WHITE OAK	2.5" CAL.	\$425.00	\$850.00
WEIL2	EA	ATION HACKBERRY	2.5" CAL.	\$425.00	\$1,275.00
ALETT 4	AND MITIG	TATION			
429	EA	MAYNIGHT SALVIA	1 GAL	\$15.00	\$6,435.00
267	EA	LITTLE SPIRE RUSSIAN SAGE	PLUGS	\$3.00	\$801.00
295	EA	BLACK EYE SUSAN	1 GAL.	\$15.00	\$4,425.00
91	EA	OVERDAM REED GRASS	2 GAL.	\$20.00	\$1,820.00
470	EA	KARL FOERSTER REED GRASS	PLUGS	\$3.00	\$1,410.00
95	EA	FANAL ASTILBE	PLUGS	\$3.00	\$285.00
79	EA	DWARF FOUNTAIN GRASS	2 GAL.	\$20.00	\$1,580.00
179	EA	BLUE LYME GRASS	I GAL.	\$15.00	\$2,685.00
	ERENNIAI	•			
21	EA	ANTHONY WATER SPRIREA	24" HT.	\$45.00	\$945.00
28	EA	GOLDFLAME SPIREA	24" HT.	\$45.00	\$1,260.00
11	EA	JACKMAN POTENTILLA	24" HT.	\$45.00	\$495.00
20 56	EA	MISSION ARBORVITAE	6' HT.	545.00 \$80.00	\$4,480.00
31 20	EA EA	REDTWIG DOGWOOD DWARF BURNING BUSH	24" HTT. 24" HTT.	\$45.00 \$45.00	\$1,395.00 \$900.00
22	EA	BANKER'S WILLOW	24" HT.	\$45.00	\$990.00
23	EA	DWARF FRAGRANT VIBURNUM	24" HT.	\$45.00	\$1,035.00
					
3	EA	BOSNIAN PINE	14 HT	\$700.00	\$2,100.00
10	EA	CANADIAN HEMLOCK	14' HT	\$700.00 \$700.00	\$7,000.00
6	ea Ea	WHITE FIR	14' HT	\$700.00	\$4,200.00
6 8	EA EA	COLORADO SPRUCE BALSAM FIR	14' HT 14' HT	\$700.00 \$700.00	\$4,200.00 \$5,600.00
2	EΑ	HACKBERRY	3.5" CAL.	\$595.00	\$1,190.00
3	ΕA	SARATOGA GINKGO	3.5" CAL.	\$595.00	\$1,785.00
2	EA	OCTOBER GLORY MAPLE	3.5" CAL.	\$595.00	\$1,785.00
	EΑ	LIBERTY LONDON PLANETREE	3.5" CAL.	\$595.00	\$1,190.00

MISS DIG System, Inc. 1-800-482-7171 www.missdig.ne

Know what's below

Call before you dig

PROFESSIONAL ENGINEERING ASSOCIATES 2430 Rochester Ct. Suite 100 Troy, MI 48083-1872 Phone: (248) 689-9090

> Fax: (248) 689-1044 website: www.peainc.com

S S

ISSUE DATE: JULY 7, 2008 PEA JOB NO. 2008-089

SCALE: AS SHOWN **DRAWING NUMBER:**

PRELIMINARY - NOT FOR CONSTRUCTION

CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTE DRAWING ARE UNITY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. THIS DRAWING AND DESIGN ARE THE PROPERTY OF PROFESSIONAL ENGINEERING ASSOCIATES, INC. THEY ARE SUBMITTED ON THE CONDITION THAT THEY ARE NOT TO BE USED, REPRODUCED, OR COPIED, IN WHOLE OR IN PART, OR USED FOR FURNISHING INFORMATION TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF PROFESSIONAL ENGINEERING ASSOCIATES, INC. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED. © 2007 PROFESSIONAL ENGINEERING ASSOCIATES, INC. ENGINEERING ASSOCIATES, INC.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL. **3 FULL WORKING DAYS BEFORE YOU DIG CAL** ISLAND TREES AND SHRUBS Description Unit Price Item Price Quantity 8 EA GREENSPIRE LINDEN 2.5" CAL. \$3,400.00 MISSION ARBORVITAE 6° HT. \$1,440.00 ANDORRA JUNIPER \$2,350.00 24" SPD. \$50.00 47 EA subtotal \$7,190,00 SCREENING-ALONG DEVONDALE ROAD Min. Size Unit Price Item Price Description 2 EA LIBERTY LONDON PLANE TREE \$425.00 \$850.00 3 EA OCTOBER GLORY MAPLE 2.5" CAL \$425.00 \$1,275.00 4 EA SARATOGA GINKGO 2.5" CAL. \$425.00 \$1,700.00 2.5" CAL. \$425.00 \$1,700.00 4 EA HACKBERRY 3 EA CLEVELAND SELECT PEAR 2.5" CAL. \$425.00 \$1,275.00 6 EA COLORADO SPRUCE \$500.00 \$3,000,00 9 EA BALSAM FIR 10' HT \$500.00 \$4.500.00 WHITE FIR 10' HT \$500.00 \$3,500.00 7 EA CANADIAN HEMLOCK \$500.00 \$2,000.00 4 EA IO HT 14 EA BOSNIAN PINE $10^{\circ}\,\mathrm{HT}$ \$500.00 \$7,000.00 \$26,800.00 subtotal GRAND TOTAL \$138,844.00

6. All single stem shade trees to have straight trunks and

7. All single trunk shade trees to have a central leader;

8. All multi stem trees shall be heavily branched and have

9. All evergreen trees shall be heavily branched and full to

line of existing trees.

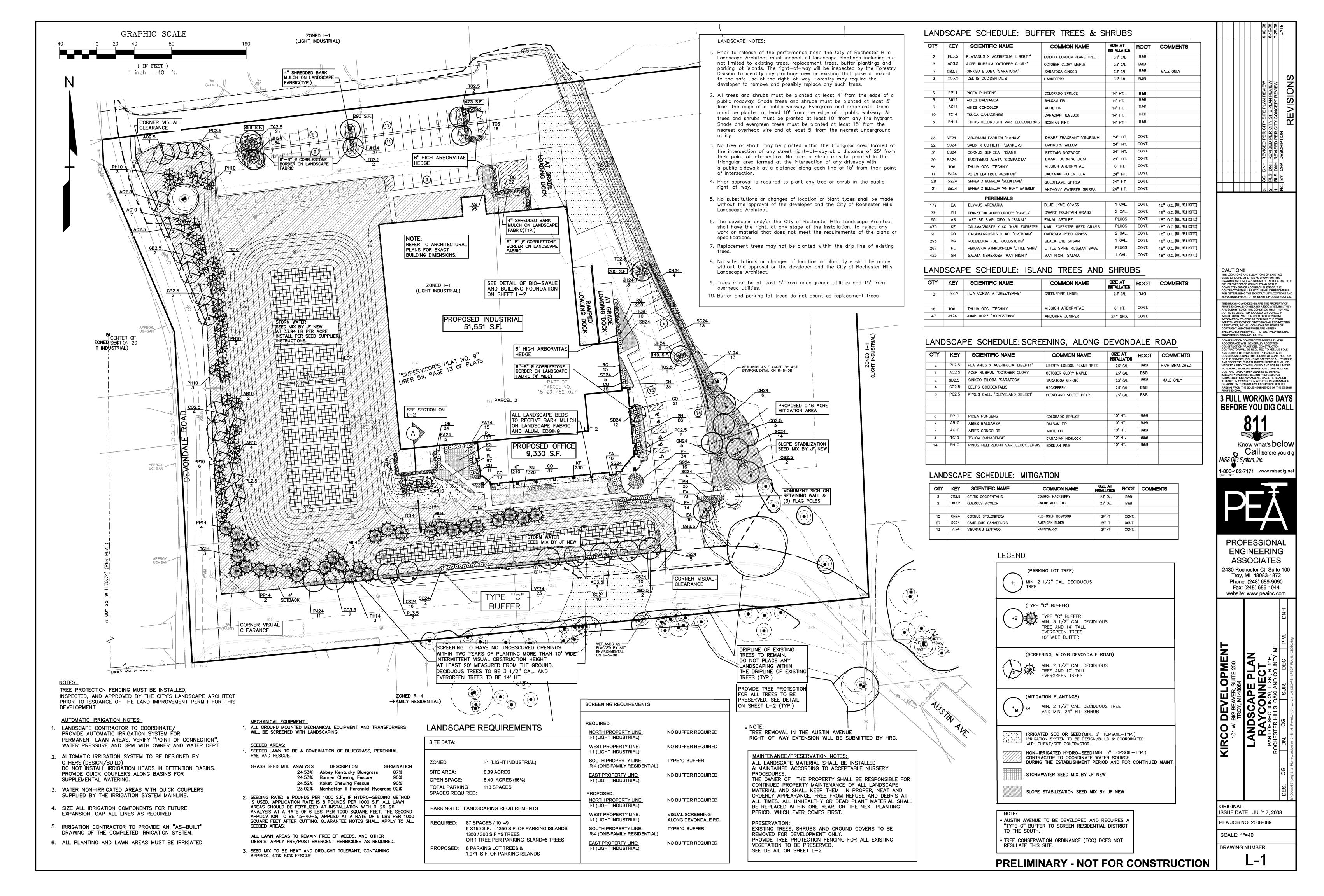
Architect prior to installation of the plant material.

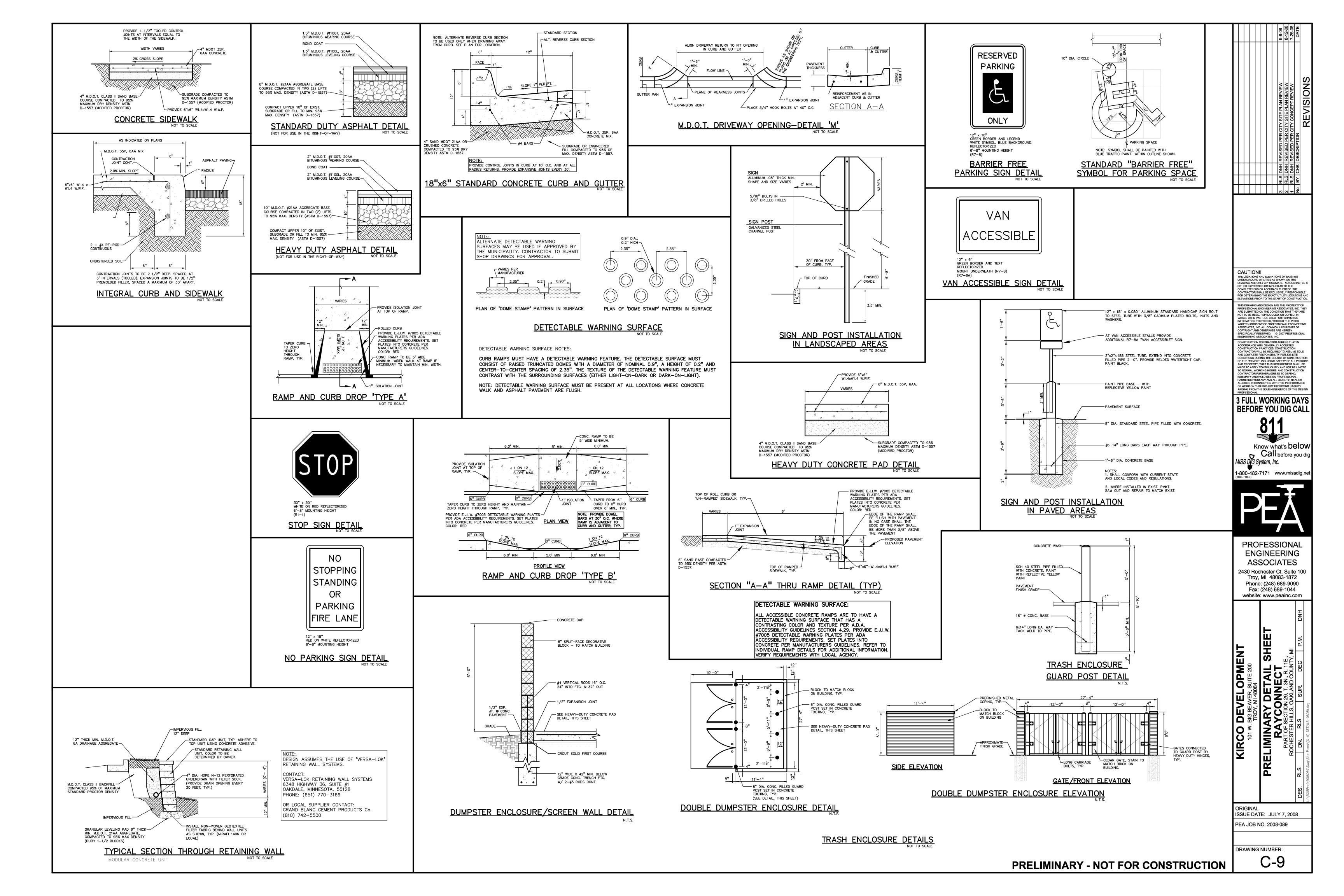
mulch will not be accepted.

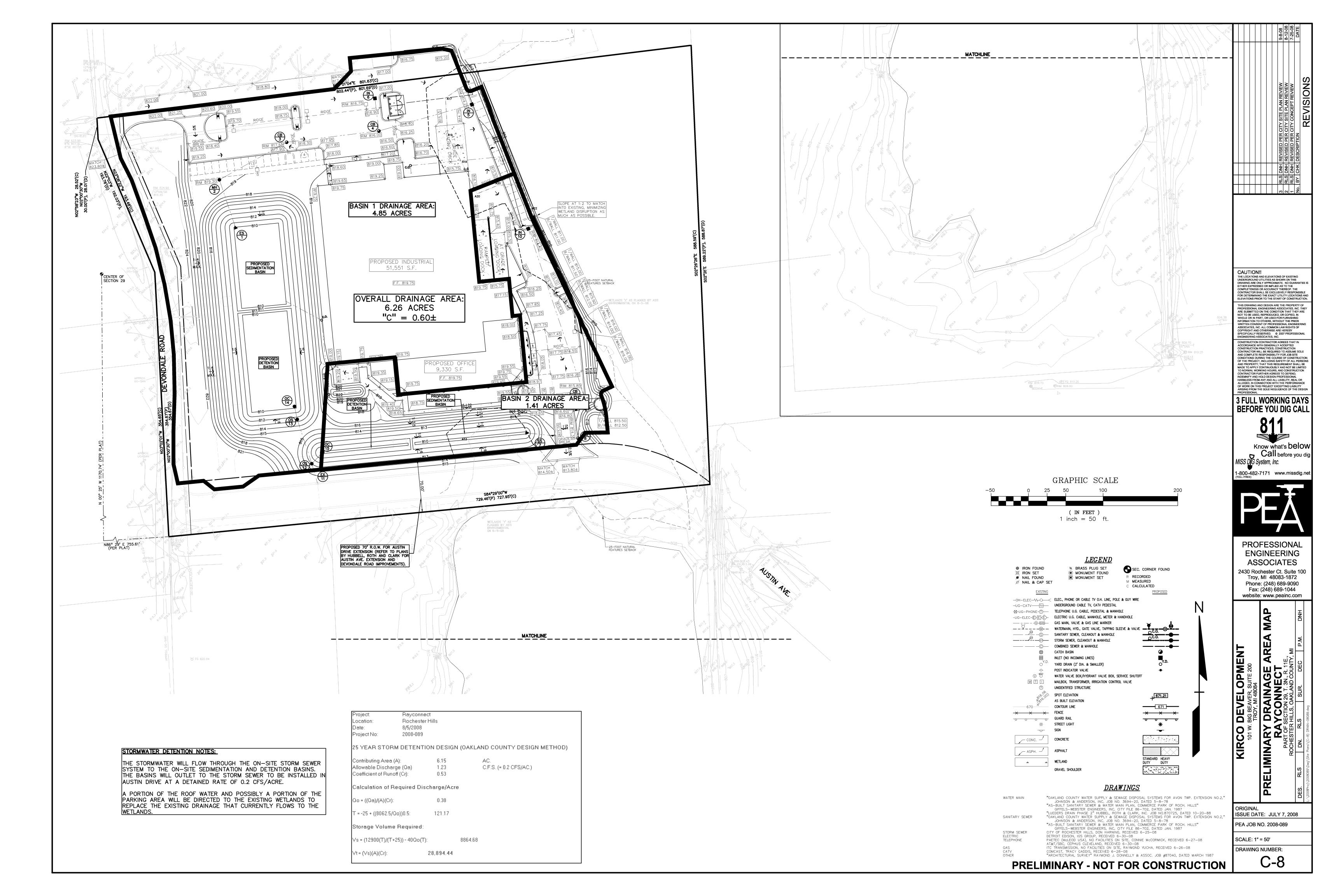
15. All landscape areas shall receive 3" compacted topsoil, from on-site stockpile.

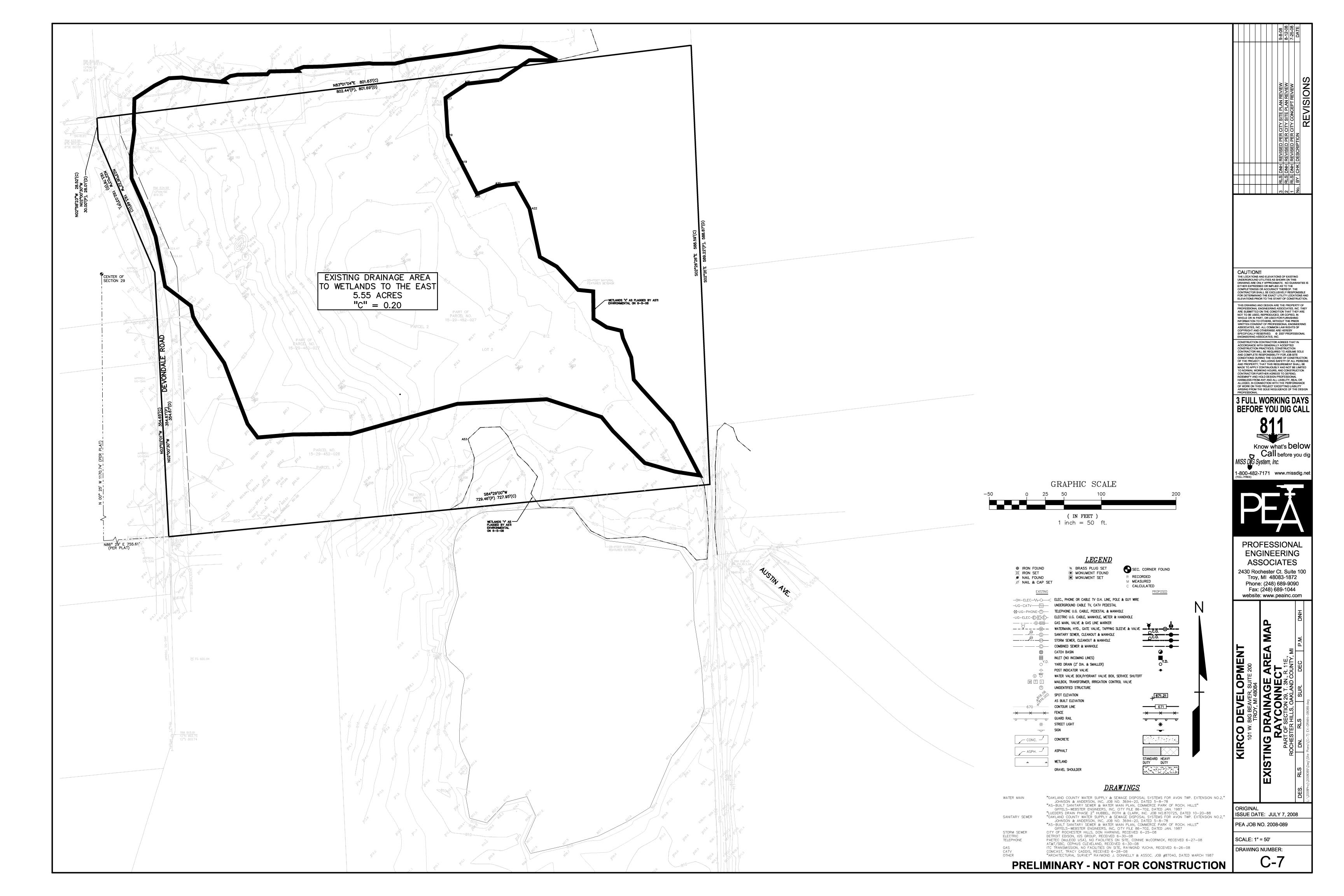
DETAIL-BUILDING FOUNDATION

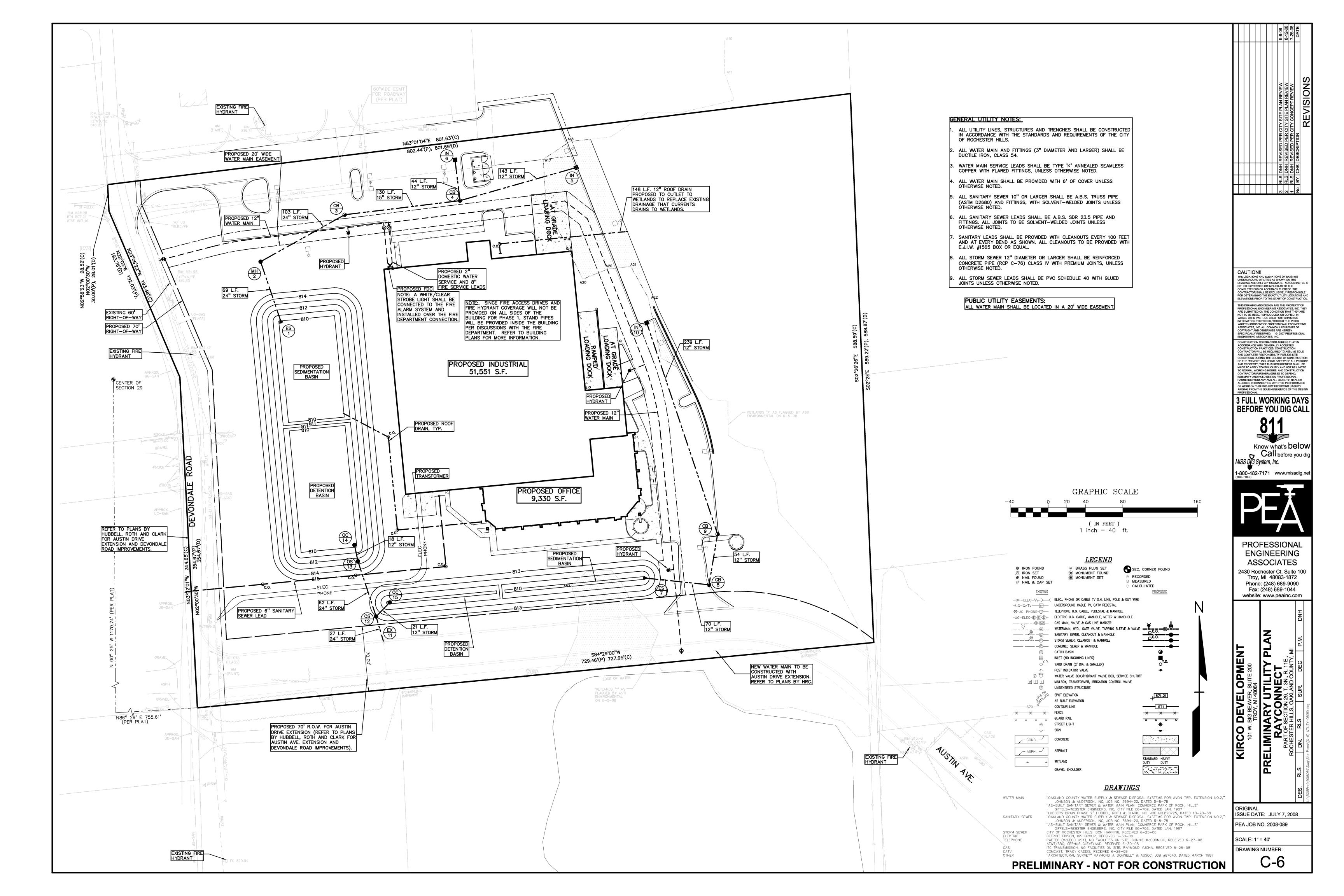
16. All lawn, shrub and perennials beds to have an inground automatic irrigation system. The irrigation system shall provide 100% coverage of all landscape areas.

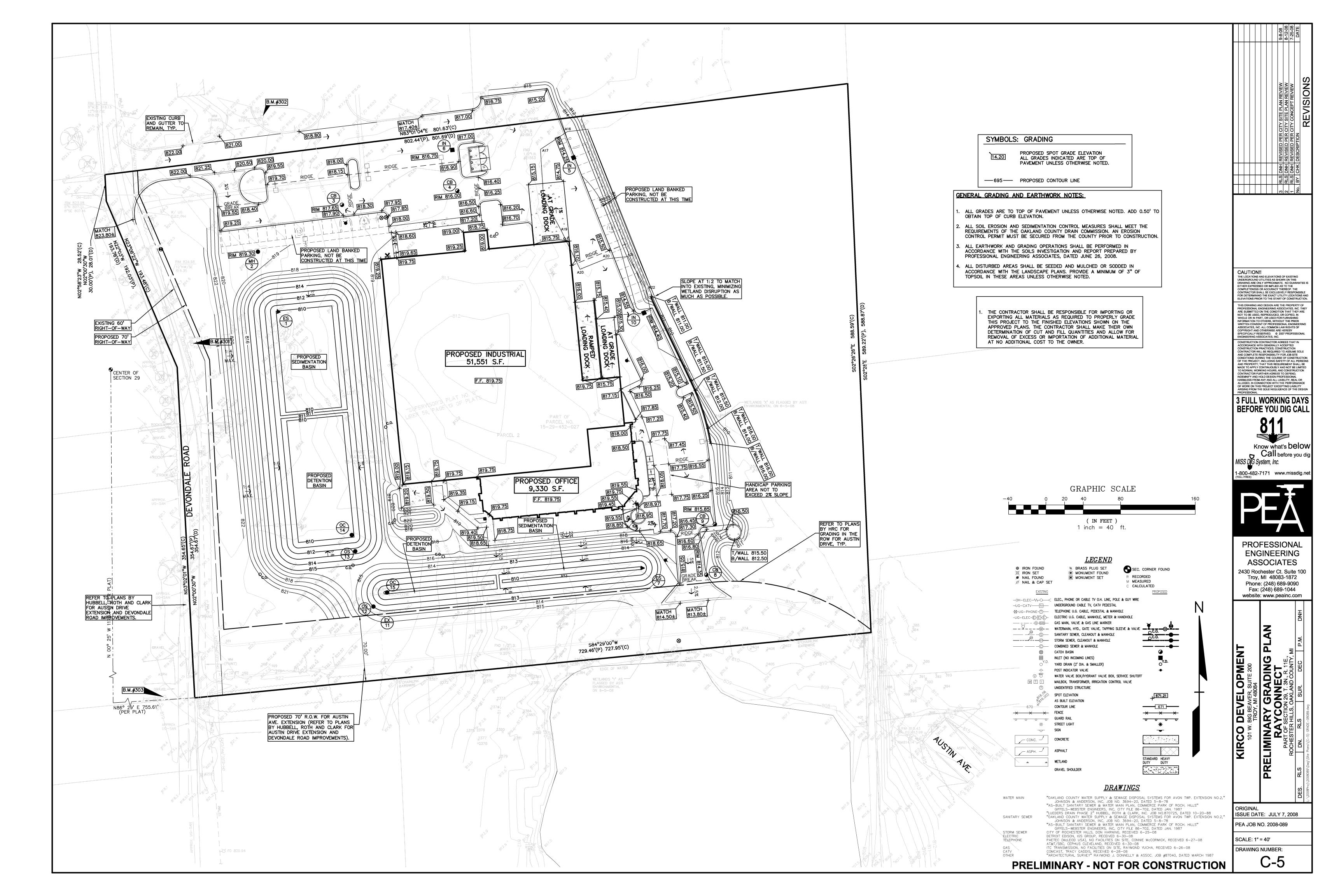


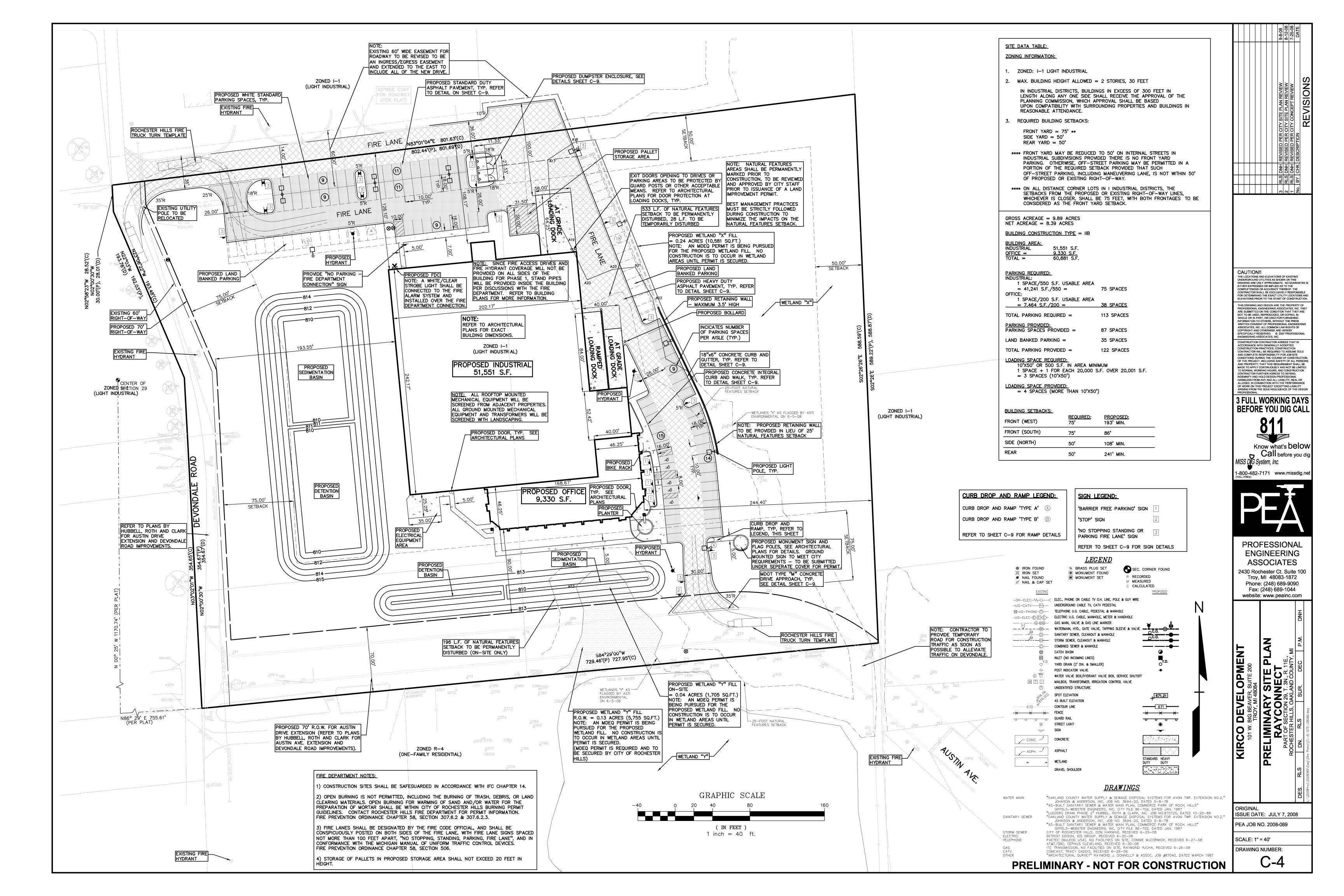


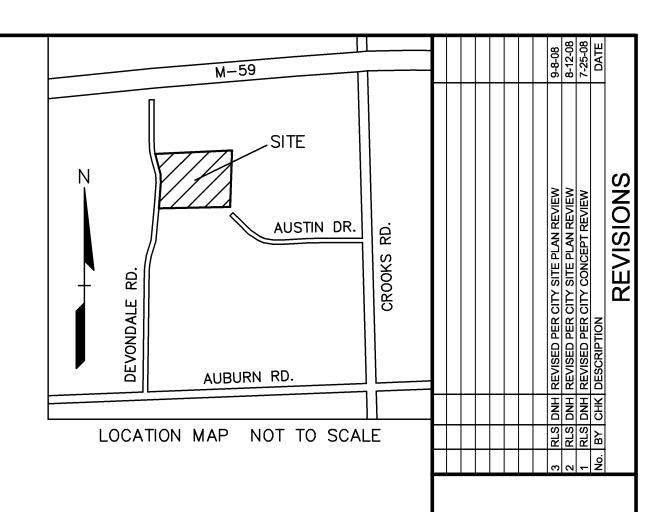












TAG# CODE SIZE	COMMON NAME	LATIN NAME	CONDITION	TAG# CODE SIZE	COMMON NAME	LATIN NAME	CONDITION	TAG# CODE SIZE	COMMON NAME	LATIN NAME	CONDITION	TAG# CODE SIZE	COMMON NAME	LATIN NAME	CONDITION
160 WA 16	White Ash	Fraxinus americana	DEAD	230 BX 2 x7	Box elder	Acer negundo	GOOD	300 WA 7	White Ash	Fraxinus americana	POOR	370 WO 6	White Oak	Quercus alba	GOOD
161 NS 22 162 WS 15	Norway Spruce White Spruce	Picea abies Picea glauca	GOOD GOOD	231 RO 8 232 CT 8	Red Oak Cottonwood	Quercus rubra Populus deltoides	GOOD GOOD	301 CE 14 302 BO 26	Chinese Elm Black Oak	Ulmus parvifolia Quercus velutina	FAIR GOOD	371 WO 7 372 CT 13	White Oak Cottonwood	Quercus alba Populus deltoides	GOOD GOOD
163 WS 14	White Spruce	Picea glauca	FAIR	233 CT 9	Cottonwood	Populus deltoides	GOOD	303 CT 12	Cottonwood	Populus deltoides	GOOD	373 CT 12	Cottonwood	Populus deltoides	GOOD
164 MR 6-Jan	Red Mulberry	Morus rubra	GOOD GOOD	234 BX 6 235 BX 9	Box elder Box elder	Acer negundo	GOOD GOOD	304 WA 8 305 AS 8	White Ash	Fraxinus americana	DEAD GOOD	374 E 6 375 E 6	American Elm	Ulmus americana	GOOD GOOD
165 MR 7 166 WS 11	Red Mulberry White Spruce	Morus rubra Picea glauca	FAIR	236 BX 2 x11	Box elder Box elder	Acer negundo Acer negundo	GOOD	306 CT 22	Quaking Aspen Cottonwood	Populus tremuloides Populus deltoides	GOOD	376 WA 10	American Elm White Ash	Ulmus americana Fraxinus americana	DEAD
167 NS 25	Norway Spruce	Picea abies	GOOD	237 BX 2 x9	Box elder	Acer negundo	GOOD	307 E 2 x6	American Elm	Ulmus americana	GOOD	377 WO 7	White Oak	Quercus alba	GOOD
168 WC 8 169 WC 8	White Cedar White Cedar	Thuja occidentalis	GOOD GOOD	238 BX 2 x7 239 BX 6	Box elder Box elder	Acer negundo	GOOD GOOD	308 CT 32 309 CT 33	Cottonwood Cottonwood	Populus deltoides	GOOD GOOD	378 CT 2 x8- 379 CT 13		Populus deltoides	GOOD GOOD
170 RM 15	Red Maple	Thuja occidentalis Acer rubrum	GOOD	240 BX 7	Box elder Box elder	Acer negundo Acer negundo	GOOD	310 WO 2 x12-		Populus deltoides Quercus alba	GOOD	380 CT 25	Cottonwood Cottonwood	Populus deltoides Populus deltoides	GOOD
171 RM 25	Red Maple	Acer rubrum	GOOD	241 CT 22	Cottonwood	Populus deltoides	GOOD	311 WO 23	White Oak	Quercus alba	GOOD	381 CT 20	Cottonwood	Populus deltoides	GOOD
172 BX 8 173 BX 2 x6	Box elder Box elder	Acer negundo Acer negundo	GOOD GOOD	242 BX 2 x6 243 BX 7	Box elder Box elder	Acer negundo Acer negundo	GOOD GOOD	312 PB 7 313 CE 6	Paper Birch Chinese Elm	Betula papyrifera Ulmus parvifolia	GOOD FAIR	382 E 9 383 E 8	American Elm American Elm	Ulmus americana Ulmus americana	GOOD GOOD
174 BC 10	Wild Black Cherry	Prunus serotina	GOOD	244 CE 11	Chinese Elm	Ulmus parvifolia	GOOD	314 E 7	American Elm	Ulmus americana	GOOD	384 BC 8	Wild Black Cherry	Prunus serotina	FAIR
175 NM 7	Norway Maple	Acer platanoides	GOOD	245 WH 10	White Willow	Salix alba	GOOD	315 CT 30	Cottonwood	Populus deltoides	GOOD	385 WO 26	White Oak	Quercus alba	GOOD
176 BX 8 177 BX 6	Box elder Box elder	Acer negundo Acer negundo	GOOD GOOD	246 BX 2 x6 247 BX 2 x6	Box elder Box elder	Acer negundo Acer negundo	GOOD GOOD	316 WH 8 317 WH 6	White Willow White Willow	Salix alba Salix alba	FAIR GOOD	386 BC 12 387 BA 10	Wild Black Cherry Black Ash	Prunus serotina Fraxinus nigra	FAIR POOR
178 RM 2 x6	Red Maple	Acer rubrum	GOOD	248 BX 5 x7	Box elder	Acer negundo	GOOD	318 CT 12	Cottonwood	Populus deltoides	GOOD	388 E 17	American Elm	Ulmus americana	GOOD
179 BX 11	Box elder	Acer negundo	GOOD	249 BL 2 x10	Black Locust	Robinia pseudoacac		319 CT 8	Cottonwood	Populus deltoides	GOOD		1+19 Wild Black Cherry	Prunus serotina	GOOD
180 BC 9 181 BX 3 x7	Wild Black Cherry Box elder	Prunus serotina Acer negundo	GOOD GOOD	250 BL 2 x8 251 BL 2 x10	Black Locust Black Locust	Robinia pseudoacac Robinia pseudoacac		320 CE 2 x9 321 E 2 x8	Chinese Elm American Elm	Ulmus parvifolia Ulmus americana	GOOD GOOD	390 BC 10 391 BC 9	Wild Black Cherry Wild Black Cherry	Prunus serotina Prunus serotina	GOOD GOOD
182 BX 4 x6	Box elder	Acer negundo	GOOD	252 BX 8	Box elder	Acer negundo	GOOD	322 E 11	American Elm	Ulmus americana	GOOD	392 BX 11	Box elder	Acer negundo	GOOD
183 BX 3 x7	Box elder	Acer negundo	GOOD	253 BL 10	Black Locust	Robinia pseudoacac		323 E 6	American Elm	Ulmus americana	GOOD	393 BX 11	Box elder	Acer negundo	GOOD
184 BX 11 185 BX 8	Box elder Box elder	Acer negundo Acer negundo	GOOD GOOD	254 BL 6 255 CT 2 x15	Black Locust Cottonwood	Robinia pseudoacac Populus deltoides	ia GOOD GOOD	324 E 7 325 CT 18	American Elm Cottonwood	Ulmus americana Populus deltoides	GOOD GOOD	394 BC 21 395 BC 10	Wild Black Cherry Wild Black Cherry	Prunus serotina Prunus serotina	GOOD POOR
186 BX 7	Box elder	Acer negundo	GOOD	256 CT 2 x12	Cottonwood	Populus deltoides	GOOD	326 CT 38	Cottonwood	Populus deltoides	GOOD	396 BX 2 x14	Box elder	Acer negundo	GOOD
187 BX 6 188 BX 6	Box elder	Acer negundo	FAIR GOOD	257 CT 2 x9 258 CT 2 x10	Cottonwood	Populus deltoides	GOOD GOOD	327 CE 7 328 WH 2 x7	Chinese Elm White Willow	Ulmus parvifolia	GOOD GOOD	397 E 2 x17 398 BC 13	7+27 American Elm Wild Black Cherry	Ulmus americana	GOOD GOOD
188 BX 6 189 BX 6	Box elder Box elder	Acer negundo Acer negundo	GOOD	259 CT 12	Cottonwood Cottonwood	Populus deltoides Populus deltoides	GOOD	329 E 12	American Elm	Salix alba Ulmus americana	DEAD	399 BC 14	Wild Black Cherry Wild Black Cherry	Prunus serotina Prunus serotina	GOOD
190 CT 7	Cottonwood	Populus deltoides	GOOD	260 CT 3 x12	Cottonwood	Populus deltoides	GOOD	330 E 6	American Elm	Ulmus americana	GOOD	400 CT 8	Cottonwood	Populus deltoides	GOOD
191 CT 15	Cottonwood Cottonwood	Populus deltoides Populus deltoides	GOOD	261 CT 15 262 CT 12	Cottonwood Cottonwood	Populus deltoides Populus deltoides	GOOD	331 BC 7 332 WO 7	Wild Black Cherry White Oak	Prunus serotina Quercus alba	GOOD GOOD	401 WH 20 402 CT 11	White Willow Cottonwood	Salix alba Populus deltoides	GOOD GOOD
193 CT 14	Cottonwood	Populus deltoides Populus deltoides	GOOD GOOD	262 CT 72 263 CT 8	Cottonwood	Populus deltoides	GOOD GOOD	332 WO 7 333 WO 7	White Oak White Oak	Quercus alba	GOOD	2367 BC 9	Wild Black Cherry	Prunus serotina	GOOD
194 WA 7	White Ash	Fraxinus americana	GOOD	264 CT 13	Cottonwood	Populus deltoides	GOOD	334 WO 6	White Oak	Quercus alba	GOOD	2368 WO 20	White Oak	Quercus alba	GOOD
195 CT 12 196 WO 6	Cottonwood White Oak	Populus deltoides Quercus alba	GOOD FAIR	265 CT 11 266 CT 11	Cottonwood Cottonwood	Populus deltoides Populus deltoides	GOOD GOOD	335 E 3 x8 336 E 6	American Elm American Elm	Ulmus americana Ulmus americana	GOOD GOOD	2369 E 8 2370 E 8	American Elm American Elm	Ulmus americana Ulmus americana	GOOD GOOD
190 WO 0	Cottonwood	Populus deltoides	GOOD	267 BX 2 x7	Box elder	Acer negundo	GOOD	337 BC 6	Wild Black Cherry	Prunus serotina	GOOD	2370 E 6	American Elm	Ulmus americana	GOOD
198 CT 8	Cottonwood	Populus deltoides	GOOD	268 BX 8	Box elder	Acer negundo	GOOD	338 CT 6	Cottonwood	Populus deltoides	DEAD	2372 CT 15	Cottonwood	Populus deltoides	GOOD
199 CE 6 200 CT 19	Chinese Elm Cottonwood	Ulmus parvifolia Populus deltoides	FAIR GOOD	269 BX 9 270 CT 11	Box elder Cottonwood	Acer negundo Populus deltoides	GOOD GOOD	339 WO 2 x6+ 340 WO 8	-10 White Oak White Oak	Quercus alba Quercus alba	GOOD GOOD	2373 E 6 2374 BC 7	American Elm Wild Black Cherry	Ulmus americana Prunus serotina	GOOD GOOD
201 PB 6	Paper Birch	Betula papyrifera	GOOD	271 CT 2 x12	Cottonwood	Populus deltoides	GOOD	341 BC 8	Wild Black Cherry	Prunus serotina	GOOD	2375 CT 24×4		Populus deltoides	GOOD
202 BC 6	Wild Black Cherry	Prunus serotina	GOOD	272 CT 3 x14	Cottonwood	Populus deltoides	GOOD	342 AP 7	Domestic Apple	Malus sylvestris	FAIR	2376 E 8	American Elm	Ulmus americana	FAIR
203 RO 9 204 CT 9	Red Oak Cottonwood	Quercus rubra Populus deltoides	GOOD GOOD	273 RO 25 274 WO 23	Red Oak White Oak	Quercus rubra Quercus alba	GOOD GOOD	343 WO 6 344 WO 9	White Oak White Oak	Quercus alba Quercus alba	GOOD GOOD	2377 E 9 2378 E 7x2	American Elm American Elm	Ulmus americana Ulmus americana	GOOD GOOD
205 RO 6	Red Oak	Quercus rubra	FAIR	275 WO 26	White Oak	Quercus alba	GOOD	345 BX 7	Box elder	Acer negundo	GOOD	2379 CT 11	Cottonwood	Populus deltoides	GOOD
206 WO 6	White Oak	Quercus alba	GOOD	276 WO 25	White Oak	Quercus alba	GOOD	346 BA 6	Black Ash	Fraxinus nigra	GOOD	2380 E 10	American Elm	Ulmus americana	FAIR
207 RO 18 208 RO 2 x17	Red Oak Red Oak	Quercus rubra Quercus rubra	GOOD GOOD	277 CT 32 278 B 6	Cottonwood Basswood	Populus deltoides Tilia americana	GOOD GOOD	347 BA 6 348 WA 6	Black Ash White Ash	Fraxinus nigra Fraxinus americana	FAIR DEAD	2381 E 6x2 2382 E 12	American Elm American Elm	Ulmus americana Ulmus americana	GOOD GOOD
209 RO 17	Red Oak	Quercus rubra	GOOD	279 E 7	American Elm	Ulmus americana	FAIR	349 BX 10	Box elder	Acer negundo	GOOD	2383 CT 9	Cottonwood	Populus deltoides	GOOD
210 RO 7 211 RO 17	Red Oak	Quercus rubra	GOOD	280 BX 7	Box elder	Acer negundo	GOOD	350 WA 7 351 AP 7	White Ash	Fraxinus americana	DEAD	2384 E 12	American Elm	Ulmus americana	GOOD
211 RO 17 212 RO 18	Red Oak Red Oak	Quercus rubra Quercus rubra	GOOD GOOD	281 BX 8 282 WO 30	Box elder White Oak	Acer negundo Quercus alba	GOOD GOOD	351 AP 7 352 WA 7	Domestic Apple White Ash	Malus sylvestris Fraxinus americana	FAIR DEAD	2385 WO 19 2386 WO 23	White Oak White Oak	Quercus alba Quercus alba	GOOD GOOD
213 RO 10	Red Oak	Quercus rubra	GOOD	283 CT 16	Cottonwood	Populus deltoides	GOOD	353 WO 7	White Oak	Quercus alba	GOOD	2387 BC 10	Wild Black Cherry	Prunus serotina	FAIR
214 RO 12 215 E 6	Red Oak American Elm	Quercus rubra Ulmus americana	GOOD GOOD	284 WO 9 285 MR 2 x8	White Oak Red Mulberry	Quercus alba Morus rubra	POOR GOOD	354 E 8 355 CE 4 x7	American Elm Chinese Elm	Ulmus americana Ulmus parvifolia	GOOD FAIR	2388 WO 11 2389 W 14	White Oak Willow	Quercus alba Salix Spp.	GOOD GOOD
216 E 10	American Elm	Ulmus americana	GOOD	286 MR 9	Red Mulberry	Morus rubra	GOOD	356 BA 6	Black Ash	Fraxinus nigra	FAIR	2390 CT 9	Cottonwood	Populus deltoides	GOOD
217 RO 7	Red Oak	Quercus rubra	GOOD	287 BC 6	Wild Black Ćherry	Prunus serotina	GOOD	357 WO 7	White Oak	Quercus alba	GOOD	2391 W 10	Willow	Salix Spp.	GOOD
218 RO 18 219 RO 22	Red Oak Red Oak	Quercus rubra Quercus rubra	GOOD GOOD	288 CT 36 289 BX 6	Cottonwood Box elder	Populus deltoides Acer negundo	GOOD GOOD	358 AS 8 359 AS 7	Quaking Aspen Quaking Aspen	Populus tremuloides Populus tremuloides	DEAD GOOD	2392 W 14 2393 W 12×2	Willow Willow	Salix Spp. Salix Spp.	GOOD GOOD
220 BC 6	Wild Black Cherry	Prunus serotina	GOOD	290 BC 6	Wild Black Cherry	Prunus serotina	GOOD	360 SC 10	Scotch Pine	Pinus sylvestris	GOOD	2394 W 15	Willow	Salix Spp.	GOOD
221 CT 14	Cottonwood	Populus deltoides	GOOD	291 E 2 x13	American Elm	Ulmus americana	DEAD	361 BA 7	Black Ash	Fraxinus nigra	FAIR	2395 W 10	Willow	Salix Spp.	GOOD
222 BC 6 223 RO 6	Wild Black Cherry Red Oak	Prunus serotina Quercus rubra	GOOD GOOD	292 E 6 293 WO 16	American Elm White Oak	Ulmus americana Quercus alba	FAIR GOOD	362 CE 6 363 E 6	Chinese Elm American Elm	Ulmus parvifolia Ulmus americana	FAIR GOOD	2396 W 6 2397 W 10	Willow Willow	Salix Spp. Salix Spp.	GOOD GOOD
224 PO 10	Pin Oak	Quercus rabra Quercus palustris	GOOD	294 BC 24	Wild Black Cherry	Prunus serotina	GOOD	364 NM 6	Norway Maple	Acer platanoides	GOOD	2398 CT 8	Cottonwood	Populus deltoides	GOOD
225 RO 6	Red Oak	Quercus rubra	GOOD	295 WO 14	White Oak	Quercus alba	GOOD	365 BO 9	Black Oak	Quercus velutina	GOOD	2399 W 10	Willow	Salix Spp.	POOR
226 RO 6 227 RO 8	Red Oak Red Oak	Quercus rubra Quercus rubra	GOOD GOOD	296 BC 12 297 WO 27	Wild Black Cherry White Oak	Prunus serotina Quercus alba	GOOD GOOD	366 BO 6 367 BC 6	Black Oak Wild Black Cherry	Quercus velutina Prunus serotina	GOOD GOOD	2400 W 13 2401 W 10	Willow Willow	Salix Spp. Salix Spp.	POOR GOOD
228 RO 6	Red Oak	Quercus rubra	GOOD	298 WO 26	White Oak	Quercus alba	GOOD	368 RC 7	Red Cedar	Juniperus virginiana	GOOD	2402 CT 16	Cottonwood	Populus deltoides	GOOD
	Cottonwood	Populus deltoides	POOR	299 CE 24	Chinese Elm	Ulmus parvifolia		369 RC 6		Juniperus virginiana		2403 CT 7	Cottonwood	Populus deltoides	GOOD
												2404 CT 12 2405 CT 8	Cottonwood Cottonwood	Populus deltoides Populus deltoides	GOOD GOOD
												2406 CT 8	Cottonwood	Populus deltoides	GOOD
												2407 E 7	American Elm	Ulmus americana	GOOD

TAG# C	CODE SIZE	COMMON NAME	LATIN NAME	CONDITIO
370 V	VO 6	White Oak	Quercus alba	GOOD
	VO 7	White Oak	Quercus alba	GOOD
	CT 13	Cottonwood	Populus deltoides	GOOD
	CT 12	Cottonwood	Populus deltoides	GOOD
374 E		American Elm	Ulmus americana	GOOD
375 E		American Elm	Ulmus americana	GOOD
	VA 10	White Ash	Fraxinus americana	DEAD
	VO 7	White Oak	Quercus alba	GOOD
	CT 2 x8		Populus deltoides	GOOD
	CT 13	Cottonwood	Populus deltoides	GOOD
	CT 25	Cottonwood	Populus deltoides	GOOD
	CT 20	Cottonwood	Populus deltoides	GOOD
382 E		American Elm	Ulmus americana	GOOD
383 E		American Elm	Ulmus americana	GOOD
	3C 8	Wild Black Cherry		FAIR
	VO 26	White Oak	Quercus alba	GOOD
	3C 12	Wild Black Cherry		FAIR
	3A 10	Black Ash _	Fraxinus nigra	POOR
388 E		American Elm	Ulmus americana	GOOD
		4+19 Wild Black Cherry		GOOD
	3C 10	Wild Black Cherry		GOOD
	3C 9	Wild Black Cherry		GOOD
	3X 11	Box elder	Acer negundo	GOOD
	3X 11	Box elder	Acer negundo	GOOD
	3C 21	Wild Black Cherry		GOOD
	3C 10	Wild Black Cherry		POOR
	3X 2 x1		Acer negundo	GOOD
397 E		7+27 American Elm	Ulmus americana	GOOD
	3C 13	Wild Black Cherry		GOOD
	3C 14	Wild Black Cherry		GOOD
	T 8	Cottonwood	Populus deltoides	GOOD
	VH 20 CT 11	White Willow	Salix alba	GOOD GOOD
		Cottonwood	Populus deltoides	GOOD
2367 E 2368 V	BC 9 VO 20	Wild Black Cherry White Oak	/ Prunus serotina Quercus alba	GOOD
2369 E		American Elm	Ulmus americana	GOOD
2370 E		American Elm	Ulmus americana	GOOD
2370 E 2371 E		American Elm	Ulmus americana	GOOD
2371 C		Cottonwood	Populus deltoides	GOOD
2372 E		American Elm	Ulmus americana	GOOD
2374 E		Wild Black Cherry		GOOD
	T 24x4		Populus deltoides	GOOD
2376 E		American Elm	Ulmus americana	FAIR
2377 E		American Elm	Ulmus americana	GOOD
2378 E		American Elm	Ulmus americana	GOOD
2379 C		Cottonwood	Populus deltoides	GOOD
2380 E		American Elm	Ulmus americana	FAIR
2381 E		American Elm	Ulmus americana	GOOD
2382 E		American Elm	Ulmus americana	GOOD
2383 C		Cottonwood	Populus deltoides	GOOD
2384 E		American Elm	Ulmus americana	GOOD
2385 V		White Oak	Quercus alba	GOOD
	VO 23	White Oak	Quercus alba	GOOD
	3C 10	Wild Black Cherry		FAIR
	VO 11	White Oak	Quercus alba	GOOD
2389 V	V 14	Willow	Salix Spp.	GOOD
	CT 9	Cottonwood	Populus deltoides	GOOD
2391 V		Willow	Salix Spp.	GOOD
2392 V		Willow	Salix Spp.	GOOD
2393 V			Salix Spp.	GOOD
2394 V		Willow	Salix Spp.	GOOD
2395 V		Willow	Salix Spp.	GOOD
2396 V		Willow	Salix Spp.	GOOD
2397 V		Willow	Salix Spp.	GOOD
	T 8	Cottonwood	Populus deltoides	GOOD
2399 V		Willow	Salix Spp.	POOR
2400 V		Willow	Salix Spp.	POOR
2401 V		Willow	Salix Spp.	GOOD
2402 C		Cottonwood	Populus deltoides	GOOD
2403 C		Cottonwood	Populus deltoides	GOOD
2404 C		Cottonwood	Populus deltoides	GOOD
2405 C		Cottonwood	Populus deltoides	GOOD
	T 8	Cottonwood	Populus deltoides	GOOD
2406 C				

CAUTION!! CAU TION!!

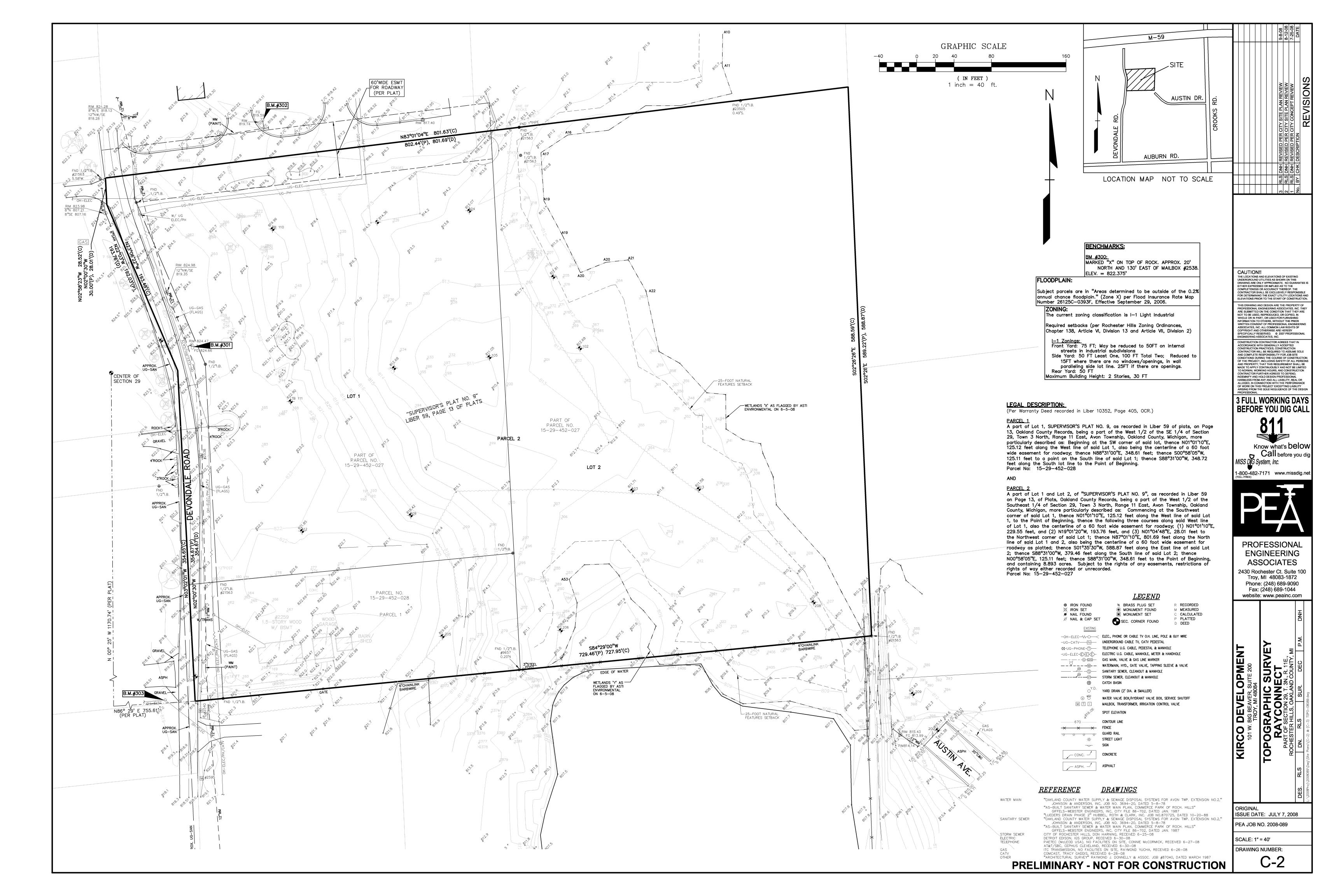
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ORIGINAL ISSUE DATE: JULY 7, 2008 PEA JOB NO. 2008-089

SCALE: 1" = 40' DRAWING NUMBER:

C-3



Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
- -	SA	3	MHTR-2F-250	ARCHITECTURAL AREA LUMINAIRE - TYPE II	250 WATT MH CLEAR ED- -28	MHTR-2F- 250.ies	23000	0.75	588
	SB	1	MHTR-4F-250	ARCHITECTURAL AREA LUMINAIRE - TYPE IV	250 WATT MH CLEAR ED- -28	MHTR-4F- 250.ies	23000	0.72	294
	sc	5	MHTR-2F-250	ARCHITECTURAL AREA LUMINAIRE - TYPE II	250 WATT MH CLEAR ED- -28	MHTR-2F- 250.ies	23000	0.75	294
ô	SD	7	BRC-100-MH	100W MH ROUND ARCHITECTURAL BOLLARD-SYMMETRIC DISTRIBUTION	100 WATT MH CLEAR BD ED-17	BRC-XX-100- MH.IES	8500	0.75	100
	SE	13	MHFZ17		175 watt MH Clear HOR ED-28	MHFZ17.ies	14000	0.75	175

STATISTICS											
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min					
Side Door Entrance	+	1.3 fc	2.0 fc	0.9 fc	2.2:1	1.4:1					
Parking Lot	+	2.2 fc	11.1 fc	0.3 fc	37.0:1	7.3:1					
Property Line (Exitance)	+	0.0 lm/ft²	0.0 lm/ft²	0.0 lm/ft²	N/A	N/A					

