

**MIHALY**  
LAND DESIGN  
PLANNING + LANDSCAPE ARCHITECTURE  
330 MILITARY CUTOFF RD., Suite A3  
Wilmington, NC 28405 910.392.4355



**Revisions**  
2017-06-13: UPDATED LANDSCAPE PLAN PER SITE PLAN CHANGES  
2017-06-14: REVISED TREE REMOVAL/MITIGATION INFORMATION  
2017-07-07: REVISED PLAN TO ADDRESS TRC COMMENTS, ADDED DUMPSTER ENCLOSURE

**CLIENT**  
**NORRIS & TUNSTALL ENGINEERS**  
BAKER MOTOR COMPANY, LLC  
902 MARKET STREET  
WILMINGTON, NC 28401  
(910) 343-9653

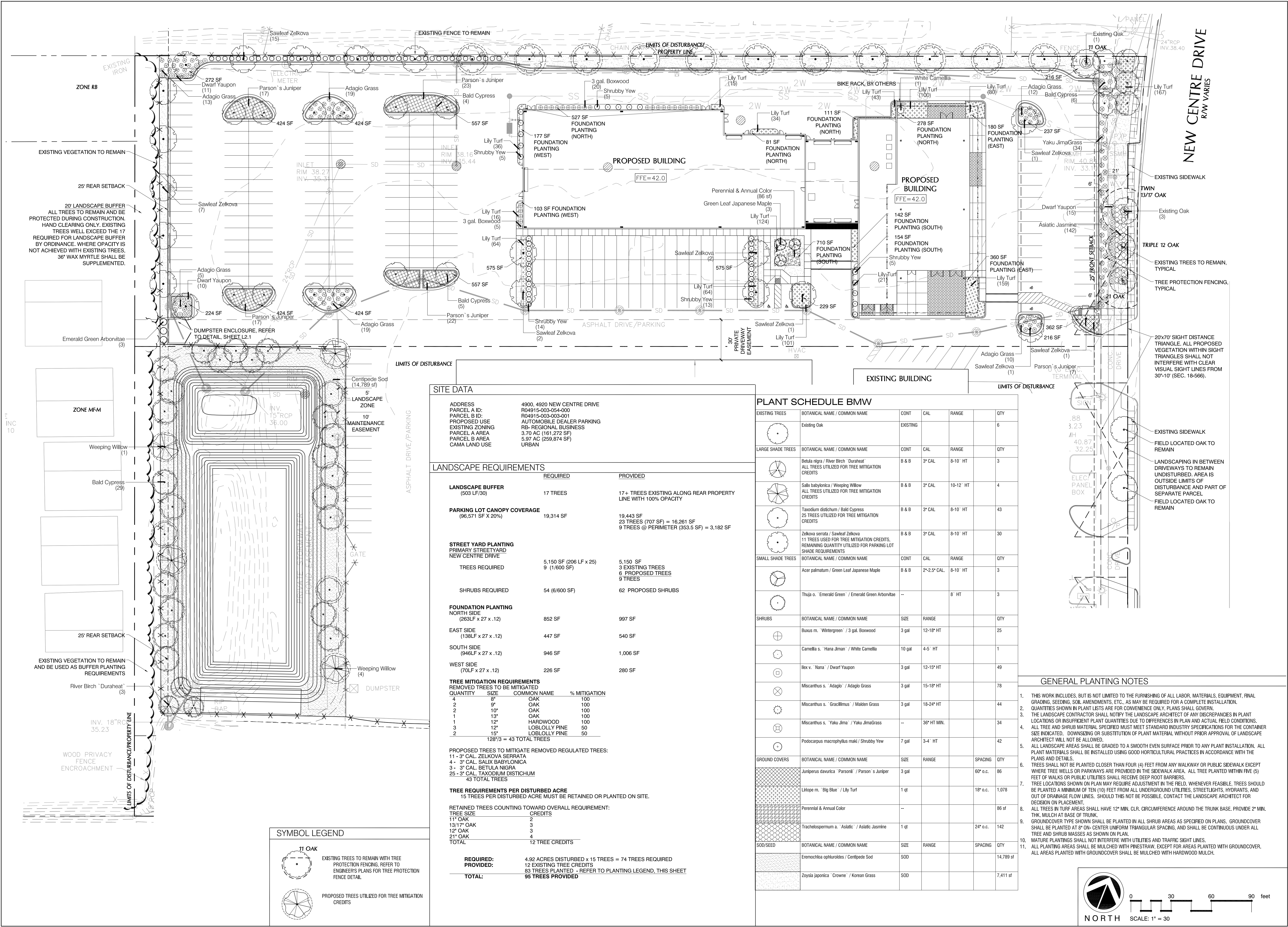
**PROJECT**  
4920 NEW CENTRE DRIVE  
WILMINGTON, NC 28403  
LANDSCAPE PLANS

**CONSTRUCTION SET**

Date: 05/15/2017  
Phase:  
Job Number: 680-05  
Designed by: MLD  
Drawn by: ALM  
Checked by: JWM

Sheet Title:  
**LANDSCAPE PLAN**

Sheet Number:  
**L1.1**  
of 1 sheets



**SITE DATA**

ADDRESS	4900, 4920 NEW CENTRE DRIVE
PARCEL A ID:	R04915-003-054-000
PARCEL B ID:	R04915-003-003-001
PROPOSED USE	AUTOMOBILE DEALER PARKING
EXISTING ZONING	RB- REGIONAL BUSINESS
PARCEL A AREA	3.70 AC (161,272 SF)
PARCEL B AREA	5.97 AC (259,874 SF)
CAMA LAND USE	URBAN

**LANDSCAPE REQUIREMENTS**

	REQUIRED	PROVIDED
<b>LANDSCAPE BUFFER</b> (503 LF/30)	17 TREES	17+ TREES EXISTING ALONG REAR PROPERTY LINE WITH 100% OPACITY
<b>PARKING LOT CANOPY COVERAGE</b> (96,571 SF x 20%)	19,314 SF	19,443 SF 23 TREES (707 SF) = 16,261 SF 9 TREES @ PERIMETER (353.5 SF) = 3,182 SF
<b>STREET YARD PLANTING</b> PRIMARY STREET/ YARD NEW CENTRE DRIVE		
TREES REQUIRED	5,150 SF (206 LF x 25) 9 (1/600 SF)	5,150 SF 3 EXISTING TREES 6 PROPOSED TREES 9 TREES
SHRUBS REQUIRED	54 (6/600 SF)	62 PROPOSED SHRUBS
<b>FOUNDATION PLANTING</b> NORTH SIDE (263LF x 27 x .12)	852 SF	997 SF
EAST SIDE (138LF x 27 x .12)	447 SF	540 SF
SOUTH SIDE (946LF x 27 x .12)	946 SF	1,006 SF
WEST SIDE (70LF x 27 x .12)	226 SF	280 SF

**TREE MITIGATION REQUIREMENTS**

QUANTITY	SIZE	COMMON NAME	% MITIGATION
4	8"	OAK	100
2	9"	OAK	100
2	10"	OAK	100
1	13"	OAK	100
1	12"	HARDWOOD	100
3	12"	LOBLOLLY PINE	50
2	15"	LOBLOLLY PINE	50
128/3 = 43 TOTAL TREES			

PROPOSED TREES TO MITIGATE REMOVED REGULATED TREES:  
11- 3" CAL. ZELKOVA SERRATA  
4- 3" CAL. SALIX BABYLONICA  
3- 3" CAL. BETULA NIGRA  
25- 3" CAL. TAXODIUM DISTICHUM  
43 TOTAL TREES

**TREE REQUIREMENTS PER DISTURBED ACRE**  
15 TREES PER DISTURBED ACRE MUST BE RETAINED OR PLANTED ON SITE.

TREE SIZE	CREDITS
13" OAK	2
12" OAK	3
21" OAK	4
TOTAL	12 TREE CREDITS

RETAINED TREES COUNTING TOWARD OVERALL REQUIREMENT:  
11- 3" CAL. ZELKOVA SERRATA  
4- 3" CAL. SALIX BABYLONICA  
3- 3" CAL. BETULA NIGRA  
25- 3" CAL. TAXODIUM DISTICHUM  
43 TOTAL TREES

**TOTAL:** 4.92 ACRES DISTURBED x 15 TREES = 74 TREES REQUIRED  
12 EXISTING TREE CREDITS  
63 TREES PLANTED - REFER TO PLANTING LEGEND, THIS SHEET  
**TOTAL:** 95 TREES PROVIDED

**PLANT SCHEDULE BMW**

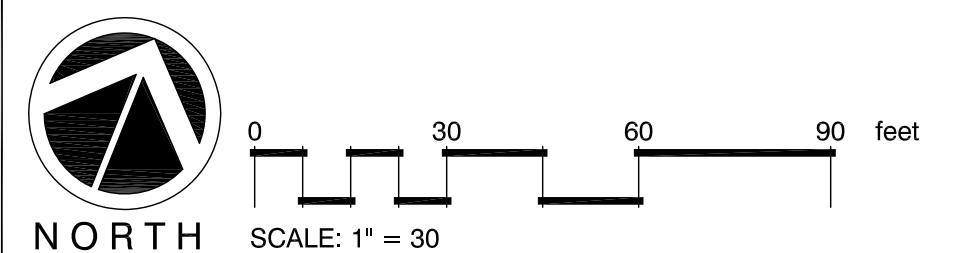
EXISTING TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	RANGE	QTY
Existing Oak		EXISTING			6
<b>LARGE SHADE TREES</b>	<b>BOTANICAL NAME / COMMON NAME</b>	<b>CONT</b>	<b>CAL</b>	<b>RANGE</b>	<b>QTY</b>
Betula nigra / River Birch 'Duraheat'	ALL TREES UTILIZED FOR TREE MITIGATION CREDITS	B & B	3" CAL	8-10' HT	3
Salix babylonica / Weeping Willow	ALL TREES UTILIZED FOR TREE MITIGATION CREDITS	B & B	3" CAL	10-12' HT	4
Taxodium distichum / Bald Cypress	25 TREES UTILIZED FOR TREE MITIGATION CREDITS	B & B	3" CAL	8-10' HT	43
Zelkova serrata / Sawleaf Zelkova	11 TREES USED FOR TREE MITIGATION CREDITS. REMAINING QUANTITY UTILIZED FOR PARKING LOT SHADE REQUIREMENTS	B & B	3" CAL	8-10' HT	30
<b>SMALL SHADE TREES</b>	<b>BOTANICAL NAME / COMMON NAME</b>	<b>CONT</b>	<b>CAL</b>	<b>RANGE</b>	<b>QTY</b>
Acer palmatum / Green Leaf Japanese Maple		B & B	2"-2.5" CAL.	8-10' HT	3
Thuja o. 'Emerald Green' / Emerald Green Arborvitae				8' HT	3
<b>SHRUBS</b>	<b>BOTANICAL NAME / COMMON NAME</b>	<b>SIZE</b>	<b>RANGE</b>	<b>QTY</b>	
Buxus m. 'Wintergreen' / 3 gal. Boxwood		3 gal	12-18" HT	25	
Camellia s. 'Hana Jiman' / White Camellia		10 gal	4-5' HT	1	
Ilex v. 'Nana' / Dwarf Yaupon		3 gal	12-15" HT	49	
Miscanthus s. 'Adagio' / Adagio Grass		3 gal	15-18" HT	78	
Miscanthus s. 'Gracillimus' / Maiden Grass		3 gal	18-24" HT	44	
Miscanthus s. 'Yaku Jima' / Yaku Jima Grass			36" HT MIN.	34	
Podocarpus macrophyllus maki / Shrubby Yew		7 gal	3-4' HT	42	
<b>GROUND COVERS</b>	<b>BOTANICAL NAME / COMMON NAME</b>	<b>SIZE</b>	<b>RANGE</b>	<b>SPACING</b>	<b>QTY</b>
Juniperus davurica 'Parson's' / Parson's Juniper		3 gal		60" o.c.	86
Liriope m. 'Big Blue' / Lily Turf		1 qt		18" o.c.	1,078
Perennial & Annual Color				86 sf	
Trachelospermum a. 'Asiatic' / Asiatic Jasmine		1 qt		24" o.c.	142
<b>SOD/SEED</b>	<b>BOTANICAL NAME / COMMON NAME</b>	<b>SIZE</b>	<b>RANGE</b>	<b>SPACING</b>	<b>QTY</b>
Eremochloa ophiuroides / Centipede Sod		SOD			14,789 sf
Zoysia japonica 'Crown' / Korean Grass		SOD			7,411 sf

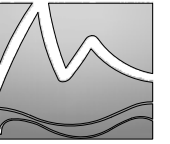
**GENERAL PLANTING NOTES**

- THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, FINAL GRADING, SEEDING, SOIL AMENDMENTS, ETC., AS MAY BE REQUIRED FOR A COMPLETE INSTALLATION.
- QUANTITIES SHOWN IN PLANT LISTS ARE FOR CONVENIENCE ONLY. PLANS SHALL GOVERN.
- THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANT LOCATIONS OR INSUFFICIENT PLANT QUANTITIES DUE TO DIFFERENCES IN PLAN AND ACTUAL FIELD CONDITIONS.
- ALL TREE AND SHRUB MATERIAL SPECIFIED MUST MEET INDUSTRY SPECIFICATIONS FOR THE CONTAINER SIZE INDICATED. DOWN SIZING OR SUBSTITUTION OF PLANT MATERIAL WITHOUT PRIOR APPROVAL OF LANDSCAPE ARCHITECT WILL NOT BE ALLOWED.
- ALL LANDSCAPE AREAS SHALL BE GRADED TO A SMOOTH EVEN SURFACE PRIOR TO ANY PLANT INSTALLATION. ALL PLANT MATERIALS SHALL BE INSTALLED USING GOOD HORTICULTURAL PRACTICES IN ACCORDANCE WITH THE PLANS AND DETAILS.
- TREES SHALL NOT BE PLANTED CLOSER THAN FOUR (4) FEET FROM ANY WALKWAY OR PUBLIC SIDEWALK EXCEPT WHERE TREE WELLS OR PARKWAYS ARE PROVIDED IN THE SIDEWALK AREA. ALL TREE PLANTED WITHIN FIVE (5) FEET OF WALKS OR PUBLIC UTILITIES SHALL RECEIVE DEEP ROOT BARRIERS.
- TREE LOCATIONS SHOWN ON PLAN MAY REQUIRE ADJUSTMENT IN THE FIELD, WHENEVER FEASIBLE. TREES SHOULD BE PLANTED AT A MINIMUM OF TEN (10) FEET FROM ALL UNDERGROUND UTILITIES, STREETLIGHTS, HYDRANTS, AND OUT OF DRAINAGE FLOW LINES. SHOULD THIS NOT BE POSSIBLE, CONTACT THE LANDSCAPE ARCHITECT FOR DECISION ON PLACEMENT.
- ALL TREES IN TURF AREAS SHALL HAVE 12" MIN. CLR. CIRCUMFERENCE AROUND THE TRUNK BASE. PROVIDE 2" MIN. THK. MULCH AT BASE OF TRUNK.
- GROUND COVER TYPE SHOWN SHALL BE PLANTED IN ALL SHRUB AREAS AS SPECIFIED ON PLANS. GROUND COVER SHALL BE PLANTED AT 8" ON-CENTER UNIFORM TRIANGULAR SPACING, AND SHALL BE CONTINUOUS UNDER ALL TREE AND SHRUB MASSES AS SHOWN ON PLAN.
- MATURE PLANTINGS SHALL NOT INTERFERE WITH UTILITIES AND TRAFFIC SIGHT LINES.
- ALL PLANTING AREAS SHALL BE MULCHED WITH PINE STRAW, EXCEPT FOR AREAS PLANTED WITH GROUND COVER. ALL AREAS PLANTED WITH GROUND COVER SHALL BE MULCHED WITH HARDWOOD MULCH.

**SYMBOL LEGEND**

	11 OAK
	EXISTING TREES TO REMAIN WITH TREE PROTECTION FENCING, REFER TO ENGINEER'S PLANS FOR TREE PROTECTION FENCE DETAIL
	PROPOSED TREES UTILIZED FOR TREE MITIGATION CREDITS





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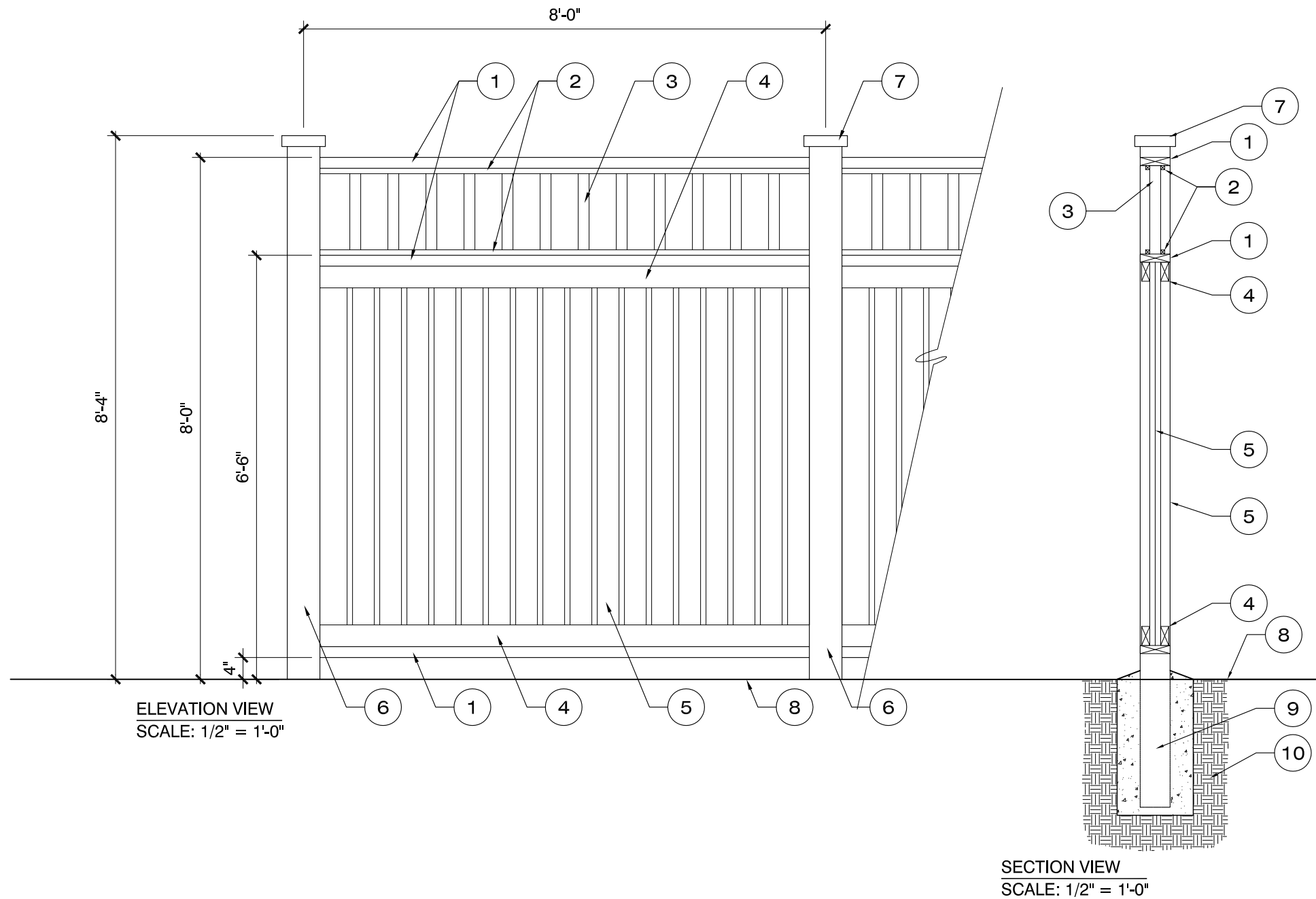


## LEGEND

1. 2 x 6 CAP
2. 1 x 1 NAILER
3. 2 x 2 PICKET
4. 2 x 4 STRINGER
5. 1 x 6 VERTICAL BOARDS - 1" OVERLAP
6. 6 x 6 POSTS AT 8'-0" O.C.
7. DECORATIVE POST CAP
8. FINISH GRADE
9. CONCRETE FOOTING
10. COMPACTED SUBGRADE

### NOTES:

- PAINT COLOR: TO BE SELECTED
- TREAT ALL EXPOSED SURFACES WITH (2) TWO COATS MOISTURE-PROOF PRIMER AND (2) COATS ENAMEL.
- ALL CONNECTORS, FASTENERS AND OTHER HARDWARE SHALL BE HOT DIPPED GALVANIZED



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**BAKER BMW**  
4920 NEW CENTRE DRIVE  
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Dumpster Enclosure Detail

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DETAIL -  
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