### ANN ARBOR PLANNING DEPARTMENT STAFF REPORT

For Planning Commission Meeting of December 15, 2015

SUBJECT: NorthSky – Zoning & Site Plan for City Council Approval

(2701 Pontiac Trail)

Project Nos. Z14-027, SP14-053

### PROPOSED CITY PLANNING COMMISSION MOTION

The Ann Arbor City Planning Commission hereby recommend that the Mayor and City Council approve the request for R1D and R1E (Single-Family Dwelling District) and R4B (Multiple-Family Dwelling District) zoning designation for the NorthSky site.

### PROPOSED CITY PLANNING COMMISSION MOTION

The Ann Arbor City Planning Commission hereby recommends that the Mayor and City Council approve the NorthSky Site Plan and Development Agreement.

### **LOCATION**

The site is located on the west side of Pontiac Trail, north of Skydale and south of Dhu Varren Roads, in the Northeast planning area and the Traver Creek watershed (Ward 1).

### STAFF RECOMMENDATION

Staff recommends the zoning petition be **approved** because the proposed R1D, R1E, and R4B zoning is generally consistent with the adjacent zoning, surrounding land uses and the <u>Master Plan: Future Land Use Element</u>.

Staff recommends that the **site plan** petition be **approved** because it complies with all the applicable local, state, and federal laws, ordinances, standards, and regulations; the development would limit the disturbance of natural features to the minimum necessary to allow a reasonable use of the land; would not cause a public or private nuisance; and would not have a detrimental effect on public health, safety, or welfare.

### STAFF REPORT

The site plan was considered by the Planning Commission at their November 4, 2015 meeting. Discussion from the Planning Commission included site rearrangement to reduce overall site grading and tree loss, traffic impacts, consistency of submitted elevations, proposed phasing, and the amount of detail provided for the proposed multiple family residential portion of the development. This site plan was postponed by the Planning Commission on November 4, 2015 to allow the petitioner and staff to respond to Commission questions and suggestions.

NorthSky Site Plan and Zoning Staff Report December 15, 2015 Page 2

The following revisions have been made to the plan drawings:

- On the multi-family building, site details, materials, and floor plans were added, and the elevations were corrected to match the grades at the corners.
- Additional front elevations are included for the R1D homes, for a total of 16 designs. A streetscape drawing of a typical block is included.
- Six additional trees are being preserved between lots 72 and 73. New trees have been added behind lots 1-4 to help screen the property of the neighbor to the north. The tree at the end of the Havre Street stub has been removed.
- Bollard lights have been added to most of the pedestrian access points to open space where those paths intersect with roads.

In addition, the petitioner commented on issues raised at the November 5 Planning Commission meeting.

- The multi-family building is not an afterthought, and is intended to provide variety in housing choices.
- The multi-family building will be constructed after the single-family homes, and master deeds will disclose that to single-family condominium buyers.

### **STAFF COMMENTS**

<u>Planning</u> – The site density is calculated by dividing the total number of units by the parcel acreage minus the right-of-way dedication. The open space being dedicated to the city is not removed from the density calculation. 195 units are proposed on 30.67acres (31.77 minus 1.10 acres for right-of-way), for a density of 6.36 units/acre.

The city master plan recommends residential uses at a density of 7 to 10 dwelling units per acre. A mix of housing types is encouraged, and development should be sited away from significant natural features in the western portion of this site.

<u>Traffic Engineering</u> – The project's traffic study showed a very small impact on the Nixon/Dhu Varren/Green intersection because most vehicle trips from NorthSky will be heading south, toward downtown. The project would add less than 1% of the present traffic volume at that intersection. For that reason, the project was not asked to participate in paying for improvements to the intersection.

Prepared by Jill Thacher Reviewed by Ben Carlisle December 9, 2015

Attachments: Draft Development Agreement

11/4/15 Staff Report

Citizen Participation Report

Aerial Map

Revised drawings

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c: Petitioner: Trowbridge Homes of NorthSky

Attn: Bruce Michael 2617 Beacon Hill Drive Auburn Hills, 48326

Petitioner's Engineer: Greentech Engineering, Inc.

51111 W. Pontiac Trail Wixom, MI 48393

Owner: BH A2 North, LLC

North Sky Neighborhood, LLC c/o Phoenix Contractors

2111 Golfside Ypsilanti, MI 48197

Parks & Recreation Systems Planning Project Nos. Z14-027, SP14-053

### NORTHSKY SITE PLAN DEVELOPMENT AGREEMENT

THIS AGREEMENT, made this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, by and between the City of Ann Arbor, a Michigan Municipal Corporation, with principal address at 301 East Huron Street, Ann Arbor, Michigan 48107, hereinafter called the CITY; and NorthSky of Ann Arbor, a Michigan Limited Liability Company, with principal address at 2617 Beacon Hill Drive, Auburn Hills, Michigan 48326, hereinafter called the PROPRIETOR, witnesses that:

WHEREAS, the PROPRIETOR owns certain land in the City of Ann Arbor, described below and site planned as NorthSky Site Plan, and

WHEREAS, the PROPRIETOR has caused certain land in the City of Ann Arbor, described below to be surveyed, mapped and site planned as NorthSky Site Plan, and desires City Council and development agreement approval thereof, and

WHEREAS, the PROPRIETOR desires to build or use certain improvements with and without the necessity of special assessments by the CITY, and

WHEREAS, the CITY desires to insure that all of the improvements required by pertinent CITY ordinances and regulations be properly made, and that the PROPRIETOR will install these improvements prior to any permits being issued.

### THE PROPRIETOR(S) HEREBY AGREE(S):

- (P-1) To prepare and submit to the CITY for approval plans and specifications ("the Plans") prepared by a registered professional engineer for construction of public water and sanitary sewer mains, public and private storm water management systems, public streets, sidewalks and streetlights ("the Improvements") provided that no work on said Improvements shall be commenced until the Plans have been approved by the City Administrator or designee, and until such other relevant information to CITY service areas as shall be reasonably required has been provided.
- (P-2) To construct all improvements set forth in Paragraph P-1 of this Agreement in accordance with the approved Plans and to repair all defects in the improvements that occur within one year from the date of acceptance of the Improvements by the CITY, commencing on the latest date of the acceptance of any Improvements by the CITY. If the PROPRIETOR fails to construct the improvements, the CITY may send notice via first class mail to the PROPRIETOR at the address listed above requiring it to commence and complete the improvements in the notice within the time set forth in the notice. The CITY may cause the work to be completed at the expense of the PROPRIETOR, if the PROPRIETOR does not complete the work within the time set forth in the notice. Every owner of a portion of the property, including co-owners of condominium units, shall pay a pro-rata share of the cost of the work. That portion of the cost of the work attributable to each condominium unit shall be a lien on that Property and may be collected as a single tax parcel assessment as provided in Chapter 13 of the Ann Arbor City Code.

- (P-3) To furnish, within 30 days of completion, an engineer's certificate that the construction of the public improvements set forth in Paragraph P-1 above have been completed in accordance with the specifications of the CITY in accordance with the approved plans. The engineer's certificate will cover only those items the PROPRIETOR'S engineer inspects.
- (P-4) Prior to the issuance of building permits and recording the master deed, to deposit with a mutually acceptable escrow agent fully executed documents in a form acceptable to the CITY, which will convey, upon delivery to the CITY, easements for the construction and maintenance of public utilities and public streets. The escrow agreement shall provide for delivery of the documents to the CITY solely upon the condition that the CITY has accepted the public Improvement to be conveyed by the easement.
- (P-5) To provide, prior to the issuance of building permits, a signing plan to the Fire Department and install all street name signs according to CITY specifications and to provide and install such temporary warning signs during the construction period as are appropriate to protect the health, safety and welfare of the public. At the request of the PROPRIETOR, the CITY will provide and install all street name signs and invoice the PROPRIETOR for actual cost of installation.
- (P-6) Prior to issuance of building permits for the lots, to install the lot monuments and lot corners or provide escrow funds to insure placement of monuments and lot corners in accordance with section 125 of Public Act No. 288, Subdivision Control Act, for all lots and assign lot numbers in the master deed that conform to those on the approved site plan.
- (P-7) To install all water mains, storm sewers, sanitary sewers, sidewalks and public streets, through the first course of asphalt, pursuant to CITY approved plans and specifications, necessary to connect the site with existing CITY systems adjacent to the site prior to the issuance of any building permits.
- (P-8) To maintain the streets, including snow and ice removal, if certificates of occupancy are finalized before the street improvements have been accepted for maintenance by the CITY.
- (P-9) To design and construct Pontiac Trail improvements, including a center turn lane a bus pull-out on the west side of Pontiac Trail between Polson Street and Montana Way, an accessible pedestrian cross walk across Pontiac Trail leading to and from the bus stop, and a sidewalk spanning the length of the site along the west side of Pontiac Trail. Construction of all Pontiac Trail improvements shall be completed prior to issuance of permits for the 70<sup>th</sup> housing unit, or sooner if determined by the CITY to be necessary.
- (P-10) To convey to the CITY, prior to the issuance of any permits and subject to acceptance by the Ann Arbor City Council, a right of way easement on the east side of Pontiac Trail that the CITY determines is adequate to accommodate the additional right of way width necessitated by the addition of a center turn lane in Pontiac Trail.
- (P-11) To indemnify and hold the CITY harmless from any claims, losses, liabilities, damages or expenses (including reasonable attorney fees) suffered or incurred by the CITY based upon or resulting from any acts or omissions of the PROPRIETOR, its employees, agents, subcontractors, invitees, or licensees in the design, construction, maintenance or repair of any of the Improvements required under this Agreement and the approved site plan.

- (P-12) To cause to be maintained General Liability Insurance and Property Damage Insurance in the minimum amount of \$1,000,000 per occurrence and naming the CITY as named insured to protect and indemnify the CITY against any claims for damage due to public use of the public improvement(s) in the development prior to final written acceptance of the public improvement(s) by the CITY. Evidence of such insurance shall be produced prior to any construction of improvement and a copy filed with the City Clerk's Office and shall remain in full force and effect during construction of the public improvement(s) and until notice of acceptance by the CITY of the Improvements.
- (P-13) Existing woodland, landmark, and street trees shown on the site plan as trees to be saved shall be maintained by the PROPRIETOR in good condition for a minimum of three years after acceptance of the public improvements by the CITY or granting of Certificate of Occupancy or final approval of the lot or unit. Existing woodland, landmark, and street trees that are determined by the CITY to be dead, dying or severely damaged due to construction activity within three years after acceptance of the public improvements or granting of Certificate of Occupancy or final approval of the lot or unit, shall be replaced by the PROPRIETOR as provided by Chapter 57 of the Ann Arbor City Code.
- (P-14) To convey to the CITY, within 90 days from the date of this agreement listed above, subject to acceptance by the Ann Arbor City Council, land of approximately 2.07 acres for a public park as shown on an approved site plan. The PROPRIETOR shall record the deed and its conveyance to the CITY as public parkland. A park identification sign shall be provided per CITY specifications before issuance of any certificate of occupancy.
- (P-15) To deposit, prior to any building permits being issued, a street tree planting escrow account with the Parks and Recreation Services Unit in the form of a check payable to the City of Ann Arbor. The escrow amount shall be based on the CITY policy in effect at that time and is to include all on-site public streets. The City Administrator may authorize the PROPRIETOR to install the street trees if planted in accordance with CITY standards and specifications. If the street trees are found to be acceptable by the CITY, the escrow amount will be returned to the PROPRIETOR one year after the date of acceptance by the CITY.
- (P-16) To create an association (*or associations*) composed of all owners of NorthSky condominium, hereinafter called the "Association", in which membership shall be required by covenants and restrictions recorded as part of the master deed for NorthSky Condominium Association. The association(s) shall be responsible for and shall execute the appropriate documents insuring perpetual maintenance and ownership of the landscape materials, exterior lighting, driveways, on-site storm water management system, playground equipment, and all other common elements.
- (P-17) To construct, repair and/or adequately maintain on-site storm water management system. If the PROPRIETOR fails to construct, repair and/or maintain the private storm water management system, the CITY may send notice via first class mail to the PROPRIETOR at the address listed above, requiring it to commence and complete the items stated in the notice within the time set forth in the notice. The CITY may cause the work to be completed at the expense of the PROPRIETOR if the PROPRIETOR does not complete the work within the time set forth in the notice.
- (P-18) After construction of the private on-site storm water management system, to maintain it until non-developer co-owners elect one or more directors to the Association's board of directors. Thereafter, by provision in the master deed, the Association shall own and

maintain the storm water management system. Any proposed changes to the system must be approved by the City of Ann Arbor Systems Planning and Planning and Development Services Units. If the PROPRIETOR or Association, as appropriate, fails to maintain any portion of the system, the CITY may send notice via first class mail to the PROPRIETOR, or Association, at the address listed above, requiring it to commence and complete the maintenance stated in the notice within the time set forth in the notice. The CITY may cause the work to be completed at the expense of the PROPRIETOR or Association if the PROPRIETOR or Association does not complete the work, as appropriate, within the time set forth in the notice. If the CITY completes the work, and the costs remain unpaid by the Association for 60 days after notice via first class mail, the CITY may bill each condominium unit for the pro rata share of the total cost, or assess the pro rata share of those costs to each condominium unit as a single tax parcel assessment as provided in Chapter 13 of Ann Arbor City Code. Provisions for maintenance and responsibility for the storm water management system, as well as the pro rata share of each condominium unit shall be included by the PROPRIETOR in the master deed.

- (P-19) After construction of the private on-site storm water management system, to commission an annual inspection of the system by a registered professional engineer evaluating its operation and stating required maintenance or repairs, and to provide a written copy of this evaluation to the CITY Public Services Area.
- (P-20) To prepare and submit to the Planning and Development Services Unit one copy of the Master Deed, along with the required review fee, prior to issuance of building permits.
- (P-21) To design, construct, repair and maintain this development in accordance with the provisions of Chapter 119 (Noise Control) to ensure that any noise emanating from said development will not impact nearby residents or businesses. In addition, PROPRIETOR shall review existing noise sources surrounding said development and incorporate necessary design and construction techniques to ensure that future tenants will not be exposed to noise sources in violation of Chapter 119.
- (P-22) To remove all discarded building materials and rubbish from the development at least once each month during construction of the development improvements, and within one month after completion or abandonment of construction.
- (P-23) No lot in NorthSky may be divided such that an additional building parcel is created.
- (P-24) Prior to application for and issuance of certificates of occupancy, to disconnect 49 footing drains, which is based upon the uses currently existing on the Property and those currently contemplated by the Site Plan in accordance with the Guidelines for Completion of Footing Drain Disconnections, Table A, and adopted by City Council, August 18, 2003 and revised November 30, 2005 (the "Guidelines"), or to provide an alternative method of mitigation that results in an equivalent amount of sanitary flow removal, in accordance with the Guidelines. In the event the actual intensity of uses contemplated by the Site Plan are either increased or decreased, City and PROPRIETOR agree to adjust the number of footing drains to be disconnected, or the amount of alternative mitigation to be provided, in accordance with the Guidelines. PROPRIETOR may be allowed to obtain partial certificates of occupancy for the development prior to the completion of all of the required footing drain disconnects on a prorated basis at the Discretion of the CITY Public Services Area.

- (P-25) To advise, through deed restriction, the owners of lots abutting the northern stub of Havre Street and the southern stub of St. Regis Way that Havre Street is intended to be extended north and St. Regis Way is intended to be extended south in the future as a public street.
- (P-26) PROPRIETOR is the sole title holder in fee simple of the land described below except for any mortgage, easements and deed restrictions of record and that the person(s) signing below on behalf of PROPRIETOR has (have) legal authority and capacity to enter into this agreement for PROPRIETOR.
- (P-27) Failure to construct, repair and/or maintain the site pursuant to the approved site plan and/or failure to comply with any of this approved development agreement's terms and conditions shall constitute a material breach of the Agreement and the CITY shall have all remedies in law and/or in equity necessary to ensure that the PROPRIETOR complies with the approved site plan and/or the terms and conditions of the approved development agreement. The PROPRIETOR shall be responsible for all costs and expenses including reasonable attorney fees incurred by the CITY in enforcing the terms and conditions of the approved site plan and/or development agreement.
- (P-28) In addition to any other remedy set forth in this Agreement or in law or equity, if PROPRIETOR fails to make a timely or full payments to the CITY as set forth elsewhere in the Agreement to the CITY in the agreed upon manner, any unpaid amount(s) shall become a lien, as provided under Ann Arbor City Code and recorded with the Washtenaw County Register of Deeds, against the land described below and may be placed on the CITY tax roll as a single lot assessment, or if the development is converted to condominium ownership, every owner of a portion of the property shall pay a pro-rata share of the amount of the payments attributable to each condominium unit. If the unpaid amount(s), in whole or in part, has been recorded as a lien on the CITY'S tax roll and with the Washtenaw County Register of Deeds, upon payment of the amount in full along with any penalties and interest, the CITY, upon request, will execute an instrument in recordable form acknowledging full satisfaction of this condition. (P-38) To pay for the cost of recording this Agreement with the Washtenaw County Register of Deeds, and to pay for the cost of recording all documents granting easements to the CITY.
- (P-29) To install all electric, telephone, and other communications systems underground in accordance with the requirements of the applicable utility company.

### THE CITY HEREBY AGREES:

- (C-1) In consideration of the above undertakings, to approve the NorthSky Site Plan, and upon PROPRIETOR'S request for the CITY to accept the utility improvement and contemplated streets for inclusion with the CITY'S utility and street system and will assume ownership of and responsibility for maintenance of the improvements after a final inspection indicates that the improvements were constructed in accordance with the previously-approved plans and specifications. This acceptance will be in the form of a certifricate of acceptance signed by the City Administrator.
- (C-2) To provide timely and reasonable CITY inspections as may be required during construction.
  - (C-3) To record this agreement with the Washtenaw County Register of Deeds.

(C-4) To accept the proposed public parkland with the understanding that the PL (Public Land) zoning district for NorthSky will be revised to reflect these dedications.

### **GENERAL TERMS**

Both the PROPRIETOR and the CITY agree as follows:

- (T-1) This agreement is not intended to create a contractual right for third parties.
- (T-2) This Agreement and any of its terms, conditions, or provisions cannot be modified, amended, or waived unless in writing and unless executed by both parties to this Agreement. Any representations or statements, whether oral or in writing, not contained in this Agreement shall not be binding on either party.
- (T-3) This Agreement and any of its terms or conditions shall not be assigned or transferred to any other individual or entity unless prior approval of the CITY is received. Such approval shall not be withheld unreasonably.
- (T-4) The obligations and conditions on the PROPRIETOR, as set forth above in this Agreement and in the approved site plan, shall be binding on any successors and assigns in ownership of the following described parcel:

legal description(s) to be inserted here

- (T-5) In addition to any other remedy in law or in equity failure to comply with all of the above paragraphs on the part of the PROPRIETOR, or any part of the approved site plan, in part or in whole, shall give the CITY adequate basis and cause to issue a stop work order for any previously-issued building permits and shall be an adequate basis and cause for the CITY to deny the issuance of any building permits, certificates of occupancy, or any other permits unless and until the CITY has notified the PROPRIETOR in writing that the PROPRIETOR has satisfactorily corrected the item(s) the PROPRIETOR has failed to perform.
- (T-6) This agreement shall be interpreted, enforced and governed under the laws of the State of Michigan and Ann Arbor City Code.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals the day first above written.

Witnesses:	CITY OF ANN ARBOR, MICHIGAN 301 East Huron Street Ann Arbor, Michigan 48107
	Ву:
	Christopher Taylor, Mayor

	By:
	Jacqueline Beaudry, City Clerk
Approved as to Substance:	
Steven D. Powers, City Administrator	
Approved as to Form:	
Stephen K. Postema, City Attorney	
Witness:	
	By: Name, Title
STATE OF MICHIGAN ) ) ss: County of Washtenaw )	
On this day of, 20_ Mayor, and Jacqueline Beaudry, Clerk of the C known to be the persons who executed this for	, before me personally appeared Christopher Taylor, city of Ann Arbor, a Michigan Municipal Corporation, to me egoing instrument, and to me known to be such Mayor and hat they executed the foregoing instrument as such officers y its authority.
	NOTARY PUBLIC County of Washtenaw, State of Michigan My Commission Expires: Acting in the County of Washtenaw
STATE OF MICHIGAN )	

) ss: County of Washtenaw )	
	, 20, before me personally appeared, to ecuted the foregoing instrument, and acknowledged that he executed act and deed.
	NOTARY PUBLIC County of Washtenaw, State of Michigan My Commission Expires: Acting in the County of Washtenaw

DRAFTED BY AND AFTER RECORDING RETURN TO: Ann Arbor Planning & Development Services Post Office Box 8647 Ann Arbor, Michigan 48107 (734) 794-6265

### ANN ARBOR PLANNING DEPARTMENT STAFF REPORT

For Planning Commission Meeting of November 4, 2015

SUBJECT: NorthSky – Zoning & Site Plan for City Council Approval

(2701 Pontiac Trail)

Project Nos. Z14-027, SP14-053

### PROPOSED CITY PLANNING COMMISSION MOTION

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### PROPOSED CITY PLANNING COMMISSION MOTION

The Ann Arbor City Planning Commission hereby recommends that the Mayor and City Council approve the NorthSky Site Plan and Development Agreement.

### LOCATION

The site is located on the west side of Pontiac Trail, north of Skydale and south of Dhu Varren Roads, in the Northeast planning area and the Traver Creek watershed (Ward 1).

### STAFF RECOMMENDATION

Staff recommends the zoning petition be **approved** because the proposed R1D, R1E, and R4B zoning is generally consistent with the adjacent zoning, surrounding land uses and the <u>Master Plan: Future Land Use Element</u>.

Staff recommends that the **site plan** petition be **approved** because it complies with all the applicable local, state, and federal laws, ordinances, standards, and regulations; the development would limit the disturbance of natural features to the minimum necessary to allow a reasonable use of the land; would not cause a public or private nuisance; and would not have a detrimental effect on public health, safety, or welfare.

### **DESCRIPTION OF PETITIONS**

The petitioners are seeking approval to rezone the 31.8 acre site from R4A (Multiple-Family Dwelling District) to R1D and R1E (Single-Family Dwelling District) and R4B (Multiple Family Dwelling District) to allow development of 139 site condominium lots for single-family detached homes and a four-story, 56-unit building at the southeast corner of the site.

NorthSky Site Plan and Zoning Staff Report November 4, 2015 Page 2

### Zoning

The petitioners have requested the site be zoned R1D and R1E (Single-Family Dwelling District) and R4B (Multiple Family Dwelling District). The R1D and R1E districts are designed to provide single-family detached dwellings, along with other related facilities, like park and recreation opportunities. They provide the highest densities of the single-family dwelling districts, with minimum lot areas of 5,000 and 4,000 square feet, respectively. R1D and R1E zoning should be contingent upon the availability or provision of adequate services to serve higher densities. This would be the first application of the R1E zoning district, which limits the floor area of each dwelling to 2,000 square feet.

The R4B district is intended for dwelling units to be arranged one above the other or side by side. R4B should be located in intermediate areas of the city, situated on small tracts for in-fill or medium sized tracts for moderate-sized developments. Single, two-family, multiple-family and assisted living uses, up to fifteen dwelling units per acre, are permitted in the R4B district.

The site is currently zoned R4A. Staff strongly encouraged the inclusion of a multi-family component to the petition in order to meet master plan goals and maintain a higher density than could be provided by single-family zoning alone.

### Site Plan

A site plan for 139 single-family detached dwelling units, each with a two-car garage, and a 56 unit multi-family building is proposed on a new network of public roads. A 0.4 acre private community park is proposed near the front of the development, with a playground and open space. The density of the proposed development is slightly over 6 dwelling units per acre.

<u>Existing Site Conditions</u> – The subject site has three single-family houses along Pontiac Trail, and the remainder of the site is vacant. Along the western and southern boundaries of the site are mature woodlands, with an additional patch of woodlands in the south central part. The majority of the site was cleared in 2006 (but not graded).

Natural Features —Thirty-five percent of the site, 11 of the 31.75 total acres, is proposed as open space. Two of those 11 acres, on the west edge of the site, would be conveyed to the City of Ann Arbor for use as a natural area and future linear park (as identified in the Non-Motorized Transportation Plan . The remainder of the open space would be maintained by the homeowners association. Natural feature impacts due to the development include removing 24 landmark trees and 230 non-landmark trees.

Woodland mitigation requires 462 three-inch trees to be planted. 451 mitigation trees are shown on the plan, and the developer is paying \$80,000 into the street tree planting program for the remaining 11 trees plus 309 trees removed by the previous developer. That portion (309 trees) is voluntary.

<u>Access</u> – Vehicular access to the site is planned by two connections to Pontiac Trail and an internal network of new public roads. Two road stubs are proposed on the north and south to allow connectivity with future developments. Sidewalks are planned along both sides of all roads. Four pathways between lots lead to the linear open space strip at the center of the

NorthSky Site Plan and Zoning Staff Report November 4, 2015 Page 3

development, and two more paths plus two openings between lots lead to the land to be conveyed to the city at the west end of the site.

<u>Parking</u> – For the multi-family building, 84 parking spaces are required and proposed, located at grade below the L-shaped building and in an exterior parking lot. Six class A and six class C bicycle parking spaces are required and 10 class A and four class C spaces are proposed. The class A are in a bike room The 139 single-family dwellings each have a two-car garage.

<u>Solid Waste</u> – An interior trash room opens to a fenced trash enclosure in the exterior parking lot of the multi-family building. Rollout dumpsters will service trash, recycling, and compost. Single-family units will have individual curb carts.

<u>Utilities</u> – Water and sanitary sewer service will be connected to existing mains on Pontiac Trail. Forty-nine footing drain disconnections, or their equivalent, will be required to mitigate for the increased flows to the sanitary sewer system from the proposed development.

<u>Stormwater Management</u> – Stormwater management is proposed in accordance with the rules of the Washtenaw County Water Resources Commissioner for infiltration of the first inch of rain from a 100-year storm event and detention for the remaining volume. Two detention basins are proposed along the south and east edges of the site, and an underground detention system is located under the multi-family building's external parking lot. The system will collect stormwater from approximately four off-site acres (i.e. on adjacent parcels).

<u>Landscape Plan</u> – Right-of-way screening is provided between the parking lot for the multi-family building and Pontiac Trail, and landscape islands are provided within that vehicular use area. 268 required street trees are provided along Pontiac Trail and the new public streets. A 210' conflicting land use buffer containing 14 trees is provided along the north side of the multi-family building, because it is adjacent to a single-family residential district. In sum, 742 trees are proposed to be planted on the site to fulfill landscape and mitigation requirements.

<u>Traffic Impacts</u> – A traffic impact analysis was completed for the project, and the petitioner proposes to add a center turn lane in Pontiac Trail at Polson Street, as well as a bus pull-out area and pedestrian crosswalk, also on Pontiac Trail.

<u>Development Agreement</u> – Development agreements are used for projects that include public and offsite improvements, such as extension of a public utility main, a contribution of land or money, or other capital improvements. The NorthSky development agreement will address the street tree escrow and street tree fund contribution, improvements to Pontiac Trail, public streets, parkland dedication, utility easements, and other site improvements.

<u>Citizen Participation Meeting</u> – The petitioner held two Citizen Participation meetings, one on March 19, 2014 and another on July 1, 2014. For each meeting, 638 postcards were sent out to residents and property owners within 1000 feet of the site. The first meeting was attended by 30 people, and examples of concerns raised were the width of Pontiac Trail, the density of the development, parkland dedication, drainage and construction-related questions. The second meeting was attended by eight people and the petitioner presented changes made to the site plan and answered additional questions. A copy of the meeting report is attached.

### **COMPARISON CHART**

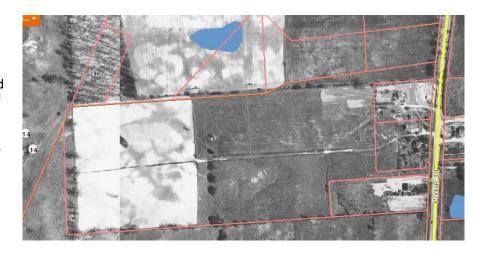
	EXISTING	PROPOSED	REQUIRED
Zoning	R4A Multiple- Family Dwelling (29.9 acres) R1D Single-Family Dwelling (1.9 acres)	R1D Single-Family Dwelling (19.4 acres) R1E Single-Family Dwelling (6.3 acres) R4B Multiple-Family Dwelling (4 acres)	R1D Single-Family Dwelling (19.4 acres) R1E Single-Family Dwelling (6.3 acres) R4B Multiple-Family Dwelling (4 acres)
Gross Site Area	31.8 acres	31.8 acres	
Dwelling Units	3	103 R1D 36 R1E <u>56 R4B</u> 209 total units	No requirement
Min. Lot Area Per Dwelling Unit	65,340+ sq ft	5,000 sq ft/unit (R1D) 4,000 sq ft/unit (R1E) 2,900 sq ft/unit (R4B)	5,000 sq ft/unit MIN 4,000 sq ft/unit MIN 2,900 sq ft/unit MIN
Min. Usable Open Space in % Lot Area		70% (R4B)	55% MIN (R4B)
Min. Active Open Space		300 sq ft per dwelling unit 16,800 sq ft total	300 sq ft per dwelling unit MIN (16,800 sq ft total MIN)
Setbacks: R1D		25 ft front 3 ft side 20 ft rear	25 ft front 3 ft side 20 ft rear
Setbacks: R1E		15 ft front 3 ft side 20 ft rear	15 ft front 3 ft side 20 ft rear
Setbacks: R4B		35 ft to Pontiac front 17 ft to Polson south front 20 ft to Polson west front 30 ft rear	15 ft MIN, 40 ft MAX front 30 ft rear
Height		30 ft (R1D) 30 ft (R1E) 45 ft (R4B)	30 ft (R1D) 30 ft (R1E) 45 ft (R4B)
Parking – Automobiles		1 space/unit or 103 spaces (R1D) 1 space/unit or 36 spaces (R1E) 1.5 spaces/unit or 84 spaces (R4B)	206 spaces (R1D) 72 spaces (R1E) 84 spaces (R4B)
Parking – Bicycles		10 Class A 4 Class C	6 Class A MIN + 6 Class C MIN for R4B

### SURROUNDING LAND USES AND ZONING

	LAND USE	ZONING
NORTH	Single-Family Residential	TWP (Township)
EAST		R4C (Multiple-Family Dwelling) TWP (Township) PUD
SOUTH	Vacant	R4A (Multiple-Family Dwelling)
WEST	M-14	Beyond City Limits

### **HISTORY**

A 1947 aerial photograph (right) shows nearly the entire site under cultivation and with no trees. In 1966 the site looked the same. By 1979 aerial photos show that the south half of the cultivated area had gone fallow, and the north half by 1990. The property was annexed into the city in 2005, and the North Sky (two words) site plan was approved. In 2006, most of the 31 acres were once again cleared (including 617 trees), but work halted and the North Sky project was abandoned.



### **PLANNING BACKGROUND**

This site is located in the Northeast planning area. This project encompasses the northern half of an area with a site specific recommendation in the 2009 Master Plan: Land Use Element:

**Site 1** [Northeast Area] – This 63-acre site is located on the west side of Pontiac Trail, east of M-14 and north of the Huron Highlands sub-division. It consists of eight parcels. The site has historically been used as farmland, although recently, farm operations have ceased. Large landmark trees are located in the southwest and western portion of the site. Pioneer vegetation has established itself in absence of farm activity on much of the remaining site. Although the western portion of the site slopes down toward M-14, the site is generally flat. A woodland area is located on the southwest portion of the site. A historically significant house exists near the southeast corner of the site. A site plan was approved in 2005 for the northern portion of this site.

NorthSky Site Plan and Zoning Staff Report November 4, 2015 Page 6

Residential uses are recommended for the site at a gross density (minus right-of-way) of 7 to 10 dwelling units per acre. A mixture of housing types is encouraged, including single-family detached homes, duplexes, attached townhouses, and multiple-family (stacked units). Future development should incorporate community design techniques (described in Chapter 5) that support the goals and objectives of this Plan.

Development should be sited away from significant natural features in the west and southwest portions of the site, which include landmark trees, high quality woodlands and slopes. The historically significant house near the southeast corner of the site should be preserved and incorporated in any future development proposal. A neighborhood park should be provided as described in the 2006-2011 Parks & Recreation Open Space Plan and located in an area that allows convenient access for future residents of this site and residents of the Huron Highlands neighborhood to the south. A vehicular and pedestrian connection should be provided to the existing stub street on Skydale Drive to provide access to off-site parks and to allow residents to the south access to any parkland on the site.

The <u>Non-motorized Transportation Plan (Update 2013)</u> recommends sidewalks be added along Pontiac Trail as a near-term goal. That plan also identifies a foot path along the rear of the property and M-14 as a long-term goal.

### **UNIT COMMENTS**

<u>Engineering</u> – Comments have been provided to the petitioner noting that the footing drains of 49 homes, or the flow equivalent to 195.7 GPM, will need to be removed from the sanitary sewer system in order to mitigate new flow from this proposed development.

Maintenance of the private storm water detention facilities will be the responsibility of the homeowner's association, and a drainage district will be established through the WCWRC.

The parcel owner across the street at 2670 Pontiac Trail has indicated the willingness to grant an easement for the construction and maintenance of a retaining wall on his property (necessary to add a center turn lane on Pontiac Trail). A formal easement will be required prior to the issuance of the first permit for the site.

<u>Traffic Engineering</u> – A dedicated, center left turn lane will be required to be installed on Pontiac Trail. All sidewalks and ramps must be designed for ADA accessibility and to optimize pedestrian convenience and efficiency.

<u>Planning</u> – While the proposed mix of zoning designations is consistent with the future land use recommendation for the site, the site specific recommendation also encourages a mixture of housing types. Two types are provided here, single-family detached and a multi-family apartment building, with a resulting density of just over six dwelling units per acre. This is just short of the future land use density recommendation of 7-10 dwelling units per acre.

The five parcels must be combined before the execution of the development agreement.

There is a discrepancy between the comparison table on sheet 8 and the parking layout on sheet 44 that will be corrected before the petition advances to City Council. The table will be

NorthSky Site Plan and Zoning Staff Report November 4, 2015 Page 7

changed to show 14 bicycle parking spaces for the multi-family building: 10 class A in the bike room, and four class C near the east entrance.

<u>Park Planning</u> – To help achieve the Park and Open Space Plan goals, a contribution of at least 2.5 acres of parkland acreage is requested based on the proposed number of dwelling units. The Natural Areas Preservation unit has expressed interest in accepting a contribution of land on this site, specifically the woodland area along the western edge of the property.

Prepared by Jill Thacher Reviewed by Ben Carlisle 10/30/15

Attachments: Citizen Participation Report

Draft Development Agreement

Zoning Map Aerial Photo Site Plans

c: Petitioner: Trowbridge Homes of NorthSky

Attn: Bruce Michael 2617 Beacon Hill Drive Auburn Hills, 48326

Petitioner's Engineer: Greentech Engineering, Inc.

51111 W. Pontiac Trail Wixom, MI 48393

Owner: BH A2 North, LLC

North Sky Neighborhood, LLC c/o Phoenix Contractors

2111 Golfside Ypsilanti, MI 48197

Parks & Recreation Systems Planning Project Nos. Z14-027, SP14-053 CITIZEN PARTICIPATION MEETING NORTH SKY MARCH 19, 2014 SUMMARY OF MEETING

LOCATION: CLAGUE MIDDLE SCHOOL # OF PARTICIPANTS: APPROXIMATELY 30

638 POSTCARDS MAILED OUT

- 1. Introduced our first plan w/assisted living and the sf lots, including TND lots and the 45 x120 lots.
- 2. Introduced second plan w/all single family.
- 3. Questions about plan, setting, etc. Questions about adjacent property and the proposed development there.
- 4. Q: If someone could build a single family home on the property and can't be stopped by the City, then why can the City tell us to build smaller lots?
  - A: The City has the right to determine how the property is developed per the City's approved master plan.
- 5. Q: what is size of homes?
  - A: between 2,400 and 3,000 sf.
- 6. Questions about what the City wanted for density and housing types. We answered that we wanted the lower density single family only, vs the higher density attached product.
- 7. Q: When will we move in and start clearing land?
  - A: When the City gives us all of our permits. Will be after Pontiac Trail improvements. Questions asked about Pontiac Trail improvements.
- 8. Q: Will there be a signal at DhuVarren/Pontiac Trail? What about traffic impacts?
  - A: no traffic signal. It will have an impact. Less density would be less impact.
- 9. Q: Will the road be widened by the City? Would this additional traffic cause the City to widen the road?
  - A: Since master planned for higher density in this area, it would seem that the City would increase the road size with the current project if they intended to do anything about the roadway capacity. So, since Pontiac Trail will continue to be two lanes; it appears not.
  - Further Answer: Our plans include a dedicated center left turn lane at the southern entry to the development to handle turning movements into and out of the proposed development
- 10. Q: Does green space go down if density goes up?
  - A: Depends on how you build the density? If stack the units on top of each other, you could have more green space. But these additional people will still use Pontiac Trail and we will NOT get a ramp onto M-14 from this property.
  - Further Answer: Our present plans include a neighborhood park in the middle the site, open space separating houses on the north side from the south side and open space around the site south and west perimeter to preserve numerous large trees.
- 11. Q: Are there road connections to the property to the south and north?
  - A: Yes. Reduces traffic on Pontiac Trail for those people driving between adjacent properties.
- 12. Q: Anyone here from the City (Planning Dept)?
  - A: No.
- 13. Q: Do the properties in the township to the north have to be annexed if the City sewer and water to come here?
  - A: Our answer was statement of the current annexation policy. There was confusion about being forced to hook up to sanitary sewer if within 400 feet and their on-site septic system fails.
- 14. Q: Do the planners take into consideration entire City density when deciding what density to put on this site:

- A: Yes. Indicated that City doesn't want to see suburban development like you can easily find in surrounding townships. Want more urban density.
- 15. Q: Do we prepare a study showing that single family homes will result in more tax base/
  - A: we may do a fiscal impact study if requested.
- 16. Q: Schedule?
  - A: hope to be through approvals by end of 2014, but subject to City.
- 17. Q: what happens if you can't sell the high density homes?
  - A: We know our single family detached product will work. Build out over 5 years. Discussion about active adult, move-down type buyers.
- 18. Q: Neighborhood and developer want lower density, is there something citizen's can do to help that?
  - A: Talk to City Council member and do a petition.
- 19. Q: What's the rationale for high density.
  - A: City doesn't believe that single family doesn't pay its way, but condos or apts at least break even.
- 20. Q: is there going to be any neighborhood commercial, so don't have to drive around?
  - A: Nothing in master plan for this site, but there is a neighborhood center proposed/required for property at Nixon/Green.
- 21. Q: So, where is the green space?
  - A: Showing open space and park on the plan. Buffer will green around outside.
- 22. Q: what about pedestrian linkages w/adjacent properties, and M-14 linkage?
  - A: won't develop the NW corner of the site, allow the deer run to continue and provide land/easement for trail system to go along M-14. City will require green space and protect environmental assets.
- 23. Q: Did the City see the plan on the assisted living?
  - A: yes. Senior housing for the corner is most acceptable to us and neighbors.
- 24. Q: Did we propose the senior living to meet the density requirements or did City require senior housing?
  - A: Seniors works: doesn't detract from our ability to sell, doesn't upset you, doesn't take much space.
  - Further Answer: The proposed multi-family building is not necessarily designated for senior only housing.
- 25. Q: Would City accept plan with only Senior housing and midsize single family lots?
  - A: impression we got was that City wanted more housing types.
- 26. Q: Will there be another meeting?
  - A: if you want another meeting, then we will have it. You will be formally invited to Planning Commission meeting. Please provide email addresses and we can advise you of next meeting.
  - Further Answer: A second meeting was held on July 1, 2014. All email addresses were invited to the meeting as well as another postcard mailing.
- 27. Q: can we get City to attend next meeting to indicate their reasoning?
  - A: we can try. May not get them to this kind of meeting, but could get them to formal planning commission meeting.
  - Further Answer: Councilwoman Sabra Briere attended the second meeting.
- 28. Q: will some units be ranch style?
  - A: some will have a master bedroom on the first floor.
- 29. Q: How can we organize ourselves to support the lower density plan?
  - A: we need to get your contact info and meet with City Council member and one planning commissioner.
  - Further Answer: Sabra Briere attended the second meeting.
- 30. Q: Don't want connection to Skydale Drive?

A: We are not adjacent to Skydale, so our road won't connect. Our road network will not be laid out to encourage this connection through the adjacent vacant property. Will keep road stub to south closer to Pontiac Trail than rear of property.

Further Answer: our present site plan keeps the road stub to the south closer to Pontiac Trail than to the western end of the property.

- 31. Q: Will the City demand that we put in attached condos?
  - A: They will likely demand that we put some condos in.

Further Answer: We have provided the additional density in a single, three story multi family building that minimizes the impact of that density from the rest of the site.

- 32. Q: will there be coordination with adjacent landowner on connections, types of units, etc.
  - A: No. City encourages certain housing types through its master plan. Each landowner on his own. Property to south plan expired, they will start over in a separate site planning effort.
- 33. Q: Are there market studies supporting our proposed housing?
  - A: did a detailed competition analysis and its supports what we propose.
- 34. Q: Familiar with Northside Elementary school changes?
  - A: they say going to go from elementary to elementary/middle school. City may want more density to provide students.
- 35. Q: what are exterior materials
  - A: brick, stone and cement board. No vinyl.
- 36. Q: What is going on w/adjacent property to south?
  - A: Nothing right now, but it is annexed and has a sanitary sewer problem, and trees cut down need to be replaced. Citizens didn't like the connection between this development and west end of Skydale.
- 37. Q: what plan will you pursue?
  - A: don't know. Got thrown a curve when our single family only plan got thrown out. Further Answer: new plan is combination of larger and smaller single family lots and the multifamily building.
- 38. Q: more questions about plan.

A: all single family but the multi-family (likely senior) in the southeast corner of the property. There will be a buffer. Put in 12-15' high spruces on buffer.

Further Answer: these items are included in the present plan.

CITIZEN PARTICIPATION MEETING

NORTH SKY

JULY 1, 2014

SUMMARY OF MEETING

LOCATION: CLAGUE MIDDLE SCHOOL # OF PARTICIPANTS: APPROXIMATELY 8

638 POSTCARDS MAILED OUT

- 1. Sabra Brierie is presenting revised plan.
- 2. Will affect traffic on Pontiac Trail, but not Dhu Varren.
- 3. Q: kids go where?
  - A: Northside High, Clague Middle.
- 4. Q: Is there a reason for service drive along Pontiac Trail?
  - A: Eliminate driveways directly accessing Pontiac Trail, provide parking availability for the houses facing this frontage.

Further Answer: Per staff request, the service drive was eliminated, the site plan modified to include a detention basin and open space near the Pontiac Trail frontage and internal roadways located farther west nearer the interior of the site.

- 5. Q: Question about apt bldg in southeast corner?
  - A: description of the apt bldg. May be condos. Hard to get mortgages sold to GSE's.
- 6. Q: public streets?
  - A: yes, including city trash service.
- 7. Q: public park?
  - A: we will do what the City wants. If they want it publicly dedicated, we'll do that.

Further Answer: We are dedicating the perimeter open space to the City per the Parks Division request.

- 8. Q: market?
  - A: Old West Side product (R1E)– 1<sup>st</sup> floor master, active adults, under 2,000 sf. Rest-conventional product (R1D) family product 2,300-2800 sf. Full basements.
- 9. Q: Condos or homes?
  - A: site condo. Explanation of site condo ownership.
- 10. O: Association fees?
  - A: yes, but about same amount as in a subdivision.
- 11. Q: Stormwater retention?
  - A: doing test pits. Fulfill Green Streets and County infiltration. Described sand seam under ground. Described detention basins on south side of property, including retaining walls.

Further Answer: Site plan has been completed and Washtenaw County Water Resources Commissioner has approved stormwater management design.

- 12. Q: Topography. Upstream drainage?
  - A: will meet County and City requirements.
- 13. Q: Site size and annexation?
  - A: 31 acres, already annexed.
- 14. Q: Topography to south? What happens to drainage to Skydale?
  - A: lower. Explained detention concept and infiltration.
- 15. Q: Coyotes, what happens to them?
  - A: we may do a fiscal impact study if requested.
- 16. O: lot size?
  - A: 5,000 sf, 45 x 130.

Further Answer: site plan now also includes R1-E lots which have a minimum size of 4,000 sf.

- 17. Q: park size?
  - A: approx. 1.5 acres.

Further Answer: Site plan now includes 2.07 acres of natural land on the south and west site perimeters to be dedicated to the City of Ann Arbor Parks Department. Also provided is a neighborhood park that is approximately 0.4 acres.

- 18. Q: footing drain disconnects?
  - A: yes, assuming it's the law at the time. Looking at alternatives.
- 19. Q: Phasing?
  - A: Planning staff suggests phasing. 5 year build out.

Further Answer: Site plan now shows 2 land development phases: all of the single family in phase 1 and the multi-family building in phase 2.

- 20. Q: What about construction traffic on Pontiac Trail?
  - A: impacts won't be terribly great. most trucks aren't that heavy, except drywall and cement trucks.
- 21. Q: number and type of units?
  - A: described.
- 22. O: where start?
  - A: start at the front. Timing of multi-family up in the air. Would do infrastructure.
- 23. Q: streetlights and sidewalks?
  - A: yes and yes. Sabra wants to do pedestrian level lights. We would do mainly intersection lights. Sabra suggested remote control lights.

Further Answer: Street lights are provided at the Polson Street/Pontiac Trail, Montana Way/Pontiac Trail, Polson Street/Havre Street (park), and Big Fork Drive/St. Regis Way intersections. Street lights will meet City of Ann Arbor public street lighting requirements.

- 24. Q: will design for pedestrian connection to north or south?
  - A: described proposed connections. Soft trailscape on southern and western open space. Sabra: not auto connections

Further Answer: A direct pedestrian connection has provided through the center of the site connecting to properties to the south and north.

- 25. Q: Brought up connection to Skydale Drive?
  - A: showed how our connection to south would be closer to Pontiac Trail and therefore not encouraging connection to west end of Skydale Drive.
- 26. Q: General question about township and city jurisdiction?
  - A: just clarification of site boundaries and city boundaries.
- 27. Q: what about of freeway access? What about Barton onramp?
  - A: no new freeway access. Barton will get more dangerous.
- 28. Q: traffic impact?
  - A: Sabra explained concept of tipping point of traffic build up and that this development can't do anything about that here.

Further Answer: A dedicated left turn lane is being provided at the Polson Street/Pontiac Trail intersection to handle turning movements into and out of the property.

- 29. Q: Question of road access and visibility?
  - A: Our engineers looked at site distance before design and locations match last site plan approved. Speed limit needs to be decreased. Traffic study will look at whether warrants will allow putting in slower speeds. Sabra actually wants one more entrance.
  - Further Answer: 2 entries are provided to the property located as far from each other as possible on the north and south ends of the site. Site distance has been analyzed and the locations are safe.
- 30. Q: Concern about school bus stop on Pontiac Trail?
  - A: school buses will come into the site to stop. Sabra says school bus service might actually be discontinued. Or buses might be limited.

Further Answer: The proposed development will include dedicated City streets, meeting City design standards, so school buses should be able to traverse all of the roads of the development. In addition, an AATA bus stop is provided and the school bus may be able to stop here.

- 31. Q: Will stop signs be added at Dhu Varren/Pontiac Trail?
  - A: Have traffic study look at these stop signs.
- 32. Q: Question about number of school age children and who will walk to school.
  - A: She doesn't believe that any of the children here will ever walk to school. Talk about annexing Whitmore Lake Schools to AAPS.
- 33. Q: Number of entries?
  - A: 2 entries and two internal loops.
- 34. Q: What will the park look like?
  - A: looking to what staff does. We are thinking small play structure, but mostly open space for multi-use and play. It's a blank slate.

Further Answer: Parks department approved park plan with open play area, play structure, seating and sidewalks.

- 35. Q: Still needs to be approved by Planning Commission?
  - A: yes. description of the process. We are rezoning, description of rezoning to single family and multiple family.
- 36. Q: Timing?
  - A: maybe end o the year, but maybe as late as next May.
- 37. Q: Height of multi-family building?
  - A: approximately 40 feet high.
- 38. Q: How many feet between houses?
  - A: 10 feet. City allows 6 feet; we think too close.
- 39. Q: Construction sequence?
  - A: description of construction process. Grade entire site.
- 40. O: what about aquifer?
  - A: Description of grading, saving south side trees, phasing of plan.
- 41. Q: any environmental innovation on the construction?
  - A: typical house construction, not radically different—green things are small footprint and infiltration. Use OSB, high efficiency HVAC units as examples of green products. May use some bioswales.

Further Answer: first project to provide new County infiltration stormwater management system and also meet City Green Streets policy.







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his map complies with National Map Accuracy Standards for napping at 1 Inch = 100 Feet. The City of Ann Arbor and its napping contractors assume no legal representation for the content nd/or inappropriate use of information on this map.

## SITE PLAN for CITY COUNCIL

# NORTHSKY

FILE NUMBER SP14-053
CITY OF ANN ARBOR
WASHTENAW COUNTY, MICHIGAN

PETITIONER/APPLICANT:

TROWBRIDGE HOMES OF NORTHSKY, LLC AGENT: BRUCE MICHAEL 2617 BEACON HILL DRIVE AUBURN HILLS, MI 48326 PHONE: (248) 703-4653 FAX: (248) 373-1230 EMAIL: BRUCEMICH@GMAIL.COM CURRENT PROPERTY OWNER:

BH A2 NORTH, LLC. NORTH SKY NEIGHBORHOOD, LLC C/O PHOENIX CONTRACTORS 2111 GOLFSIDE YPSILANTI, MI 48197 SITE CIVIL:

GREENTECH ENGINEERING, INC. 51111 W PONTIAC TRAIL

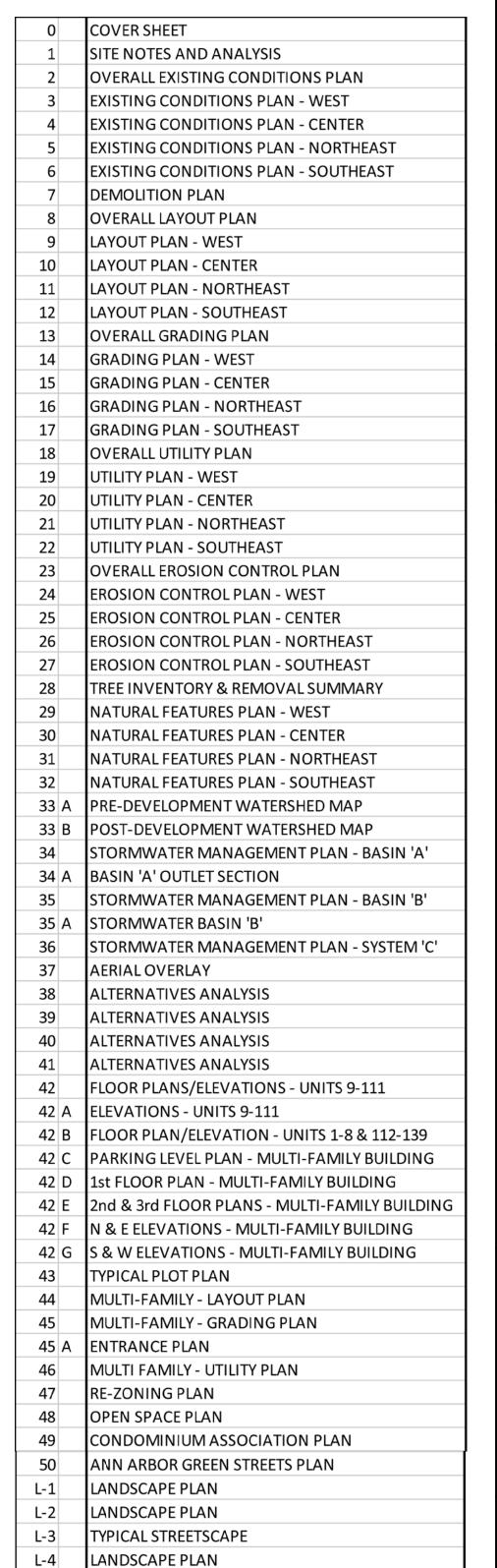
GREENTECH ENGINEERING, INC. 51111 W PONTIAC TRAIL WIXOM, MICHIGAN 48393 PHONE: (248) 668-0700 FAX: (248) 668-0701 LANDSCAPE ARCHITECT:

ALLEN DESIGN
557 CARPENTER
NORTHVILLE, MICHIGAN 48167
PHONE (248) 467–4668
FAX (248) 349–0559

N85°25'43"E(M) 424.91'(M)

CITY OF ANN ARBOR FILE NO. SP14-053:

LOCATION MAP
SCALE: 1"-2000'



LANDSCAPE DETAILS WOODLAND PLAN WOODLAND PLAN Know what's **below Call** before you dig.

REVISED

 $\overline{-1}$ -15 PER CITY REVIEW

-4-15 PER CNTY REVIEW

7-15 PER CITY REVIEW

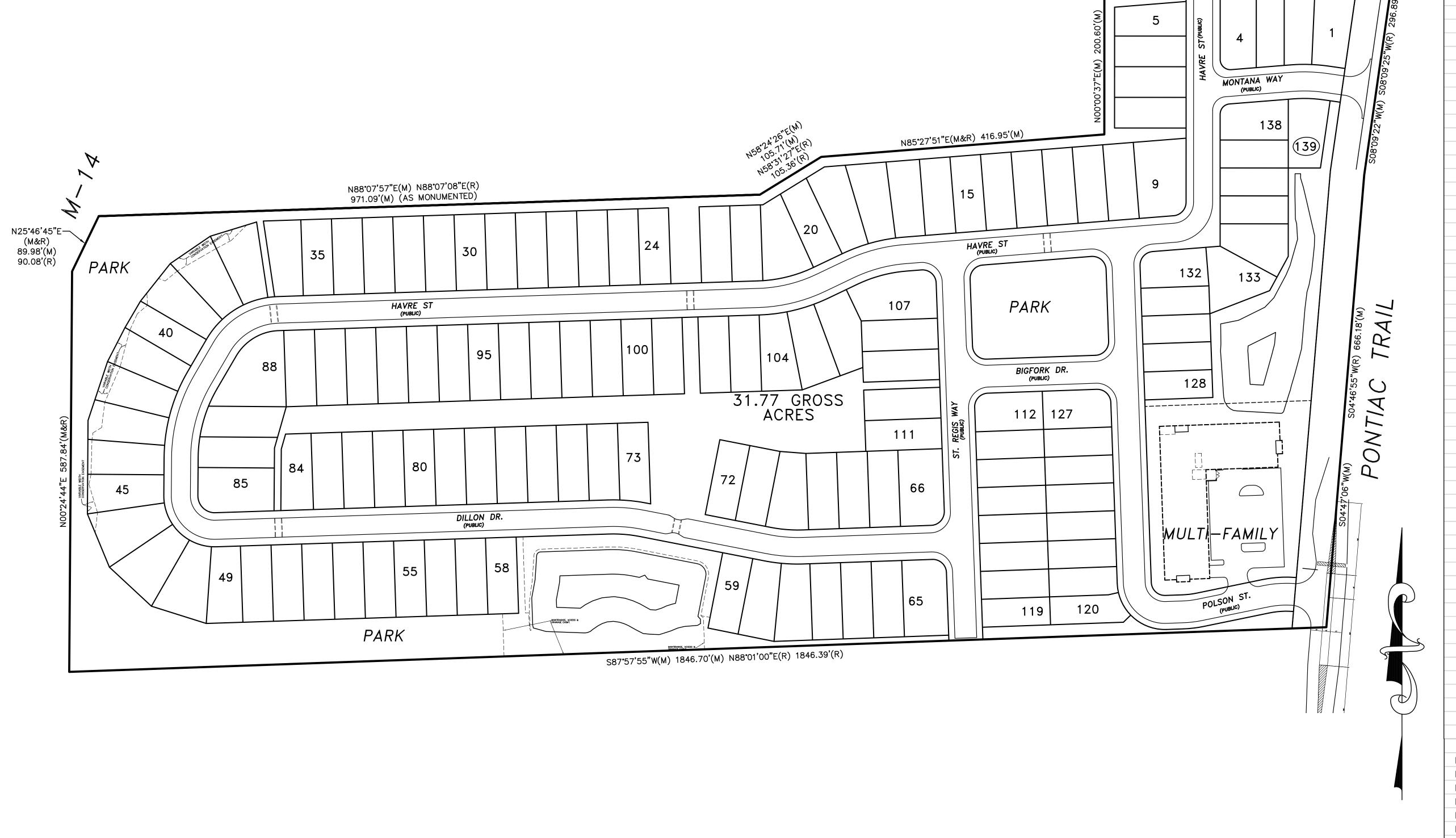
-2-15 UPDATED PLAN

DATE: 9-26-14

DRAWN BY: dl

CHECKED BY:

SCALE HOR 1"= F



BENCHMARK NO. 2 EXISTING SPIKE ON EAST SIDE OF UTILITY POLE 33' WEST OF PONTIAC TRAIL CENTERLINE AT NORTHEAST PROPERTY CORNER OF HOUSE NO 2735

BENCHMARK NO. 3 EXISTING SPIKE ON NORTH SIDE OF UTILITY POLE 510'+/- WEST OF PONTIAC TRAIL 100' +/- WEST OF SOUTHWEST PROPERTY CORNER OF HOUSE NO 2735 ELEVATION=932.95

BENCHMARK NO. 4
TOP/STEAMER VALVE HYDRANT, WEST SIDE OF PONTIAC TRAIL, NORTH SIDE OF PROPERTY TO HOUSE #2655 ELEVATION=905.90

### SURVEY NOTE

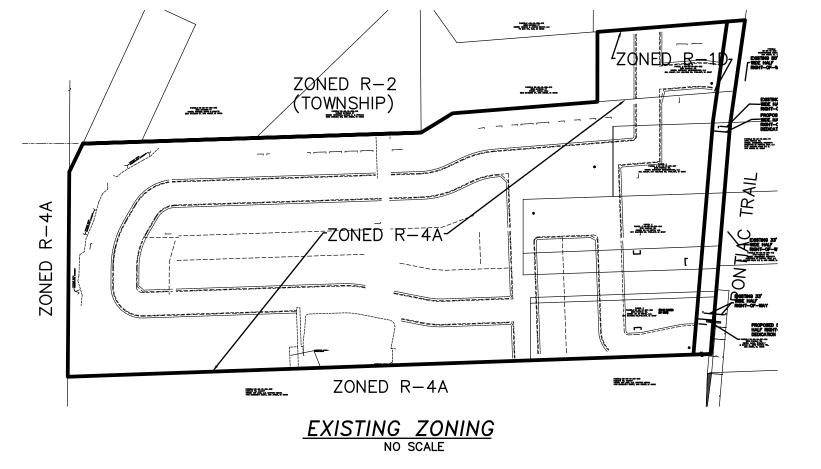
THE TOPOGRAPHIC SURVEY WAS PREVIOUSLY PREPARED BY OTHERS AND VERIFIED BY GREENTECH ENGINEERING, INC. IN JUNE 2014.

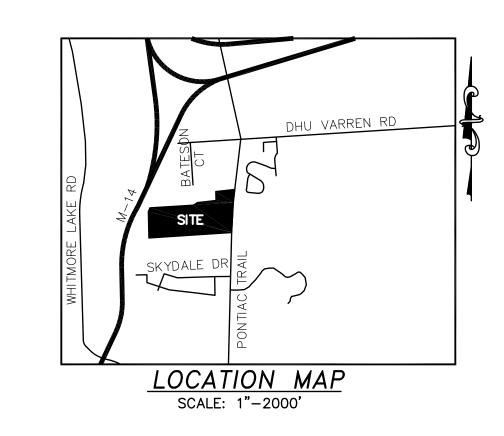
THE TREE SURVEY WAS PREVIOUSLY PREPARED BY OTHERS AND VERIFIED BY GREENTECH ENGINEERING, INC. IN JUNE

### SEE SHEET 28 FOR TREE LIST AND SHEETS 29, 30, 31 AND 32 FOR TREE

Washten	aw County, Michigan (M	I161)	8
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
FoC	Fox sandy loam, 6 to 12 percent slopes	4.8	14.8%
FoD	Fox sandy loam, 12 to 18 percent slopes	0.2	0.6%
MdA	Matherton sandy loam, 0 to 4 percent slopes	1.8	5.5%
MmB	Miami loam, 2 to 6 percent slopes	18.1	55.6%
MmC	Miami loam, 6 to 12 percent slopes	1.4	4.4%
MmD	Miami loam, 12 to 18 percent slopes	6.2	19.1%
Totals for	Area of Interest	32.5	100.0%







NORTH 174 CORNER OF SECTION 16

S88°18'25"W(R) 584.00'(R)

NORTH LINE OF-

S07°49'05"W(R) 1049.70'(R)+

ZONED R-2

SOILS INFORMATION:
NO SCALE

## **LEGAL DESCRIPTIONS:**

WASHTENAW COUNTY RECORDS.

LAND IN THE CITY OF ANN ARBOR, COUNTY OF WASHTENAW, MICHIGAN, DESCRIBED AS:

LAND IN THE CITY OF ANN ARBOR (FORMERLY KNOWN AS THE TOWNSHIP OF ANN ARBOR), WASHTENAW COUNTY, MICHIGAN, DESCRIBED AS: COMMENCING AT THE WEST 1/4 CORNER OF SECTION 16, T.2S., R.6E., THENCE NORTH 00°24'44" EAST 667.66 FEET ALONG THE WEST LINE OF SECTION 16 TO THE POINT OF BEGINNING; THENCE CONTINUING ALONG SAID WEST LINE OF SECTION 16, NORTH 00°24'44" EAST 587.84 FEET TO A POINT ON THE SOUTHEASTERLY RIGHT-OF-WAY OF M-14; THENCE NORTH 25°46'45" EAST ALONG SAID SOUTHEASTERLY RIGHT-OF-WAY 90.08 FEET TO A POINT ON THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 16; THENCE ALONG SAID LINE NORTH 88°07'08" EAST 971.09 FEET; THENCE NORTH 58°31'27" EAST 105.36 FEET; THENCE NORTH 85°27'51" EAST 812.67 FEET TO A POINT ON THE CENTERLINE OF PONTIAC TRAIL (66 FOOT WIDE); THENCE SOUTH 08°09'25" WEST ALONG SAID CENTERLINE 91.65 FEET TO A POINT ON THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 16; THENCE ALONG SAID LINE SOUTH 88°07'08" WEST 336.53 FEET; THENCE DUE SOUTH 201.10 FEET; THENCE SOUTH 88°07'08" WEST 258.29 FEET; THENCE DUE SOUTH 216.49 FEET; THENCE NORTH 88°07'08" EAST 553.83 FEET TO A POINT ON THE CENTERLINE OF PONTIAC TRAIL; THENCE ALONG SAID CENTERLINE SOUTH 04'46'55" WEST 65.74 FEET; THENCE SOUTH 88'00'55" WEST 533.38 FEET: THENCE DUE SOUTH 181.20 FEET: THENCE SOUTH 88°00'55" WEST 1328.23 FEET TO THE POINT OF BEGINNING. EXCEPT FOR ANY PORTION OF ABOVE PROPERTY CONTAINED IN WARRANTY DEED RECORDED IN LIBER 525. PAGE 515. WASHTENAW COUNTY RECORDS AND AS FURTHER DESCRIBED IN WARRANTY DEED DATED NOVEMBER 26, 1979, RECORDED DECEMBER 19, 1979 AS RECORDED IN LIBER 1742, PAGE 696,

COMMENCING AT THE INTERSECTION OF THE CENTERLINE OF PONTIAC ROAD WITH THE SOUTH LINE OF THE NORTH 1/2 OF THE SOUTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 16, T.2S. R.6E., WASHTENAW COUNTY, MICHIGAN; THENCE NORTH 6'48' EAST ALONG THE CENTERLINE OF PONTIAC ROAD 311.17 FEET FOR A PLACE OF BEGINNING; THENCE WEST 555.0 FEET; THENCE NORTH 154.49 FEET; THENCE SOUTH 89\*52' EAST 573.24 FEET TO THE CENTERLINE OF PONTIAC ROAD; THENCE SOUTH 6°48' WEST ALONG THE CENTERLINE OF PONTIAC ROAD 154.22 FEET TO THE PLACE OF BEGINNING, ALSO COMMENCING AT THE SAME PLACE OF BEGINNING IN PONTIAC ROAD AS ABOVE DESCRIBED; THENCE WEST 555.0 FEET; THENCE SOUTH 62.0 FEET; THENCE EAST TO THE CENTERLINE OF PONTIAC ROAD: THENCE NORTH TO THE PLACE OF BEGINNING, ALL BEING A PART OF THE NORTH 1/2 OF THE SOUTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 16, CITY OF ANN ARBOR (FORMERLY ANN ARBOR TOWNSHIP), WASHTENAW COUNTY, MICHIGAN. MORE PARTICULARLY DESCRIBED BY SURVEY RECORDED IN LIBER 3090, PAGE 953, WASHTENAW COUNTY RECORDS, TO WIT: COMMENCING AT THE WEST 1/4 CORNER OF SECTION 16, T.2S., R.6E., ANN ARBOR TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; THENCE NORTH 00°24'44" EAST 667.66 FEET ALONG THE WEST LINE OF SECTION 16 TO A POINT ON THE SOUTH LINE OF THE NORTH 1/2 OF THE SOUTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 16; THENCE ALONG SAID SOUTH LINE NORTH 88°01 '00" EAST 1,846.39 FEET TO A POINT ON THE CENTERLINE OF PONTIAC TRAIL; THENCE NORTH 04'46'55" EAST ALONG SAID CENTERLINE 247.59 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 88°07'08" WEST 559.86 FEET; THENCE DUE NORTH 216.49 FEET; THENCE NORTH 88°07'08" EAST 578.04 FEET TO A POINT ON THE CENTERLINE OF PONTIAC TRAIL; THENCE SOUTH 04°46'55" WEST ALONG SAID

LAND IN THE CITY OF ANN ARBOR (FORMERLY KNOWN AS THE TOWNSHIP OF ANN ARBOR),

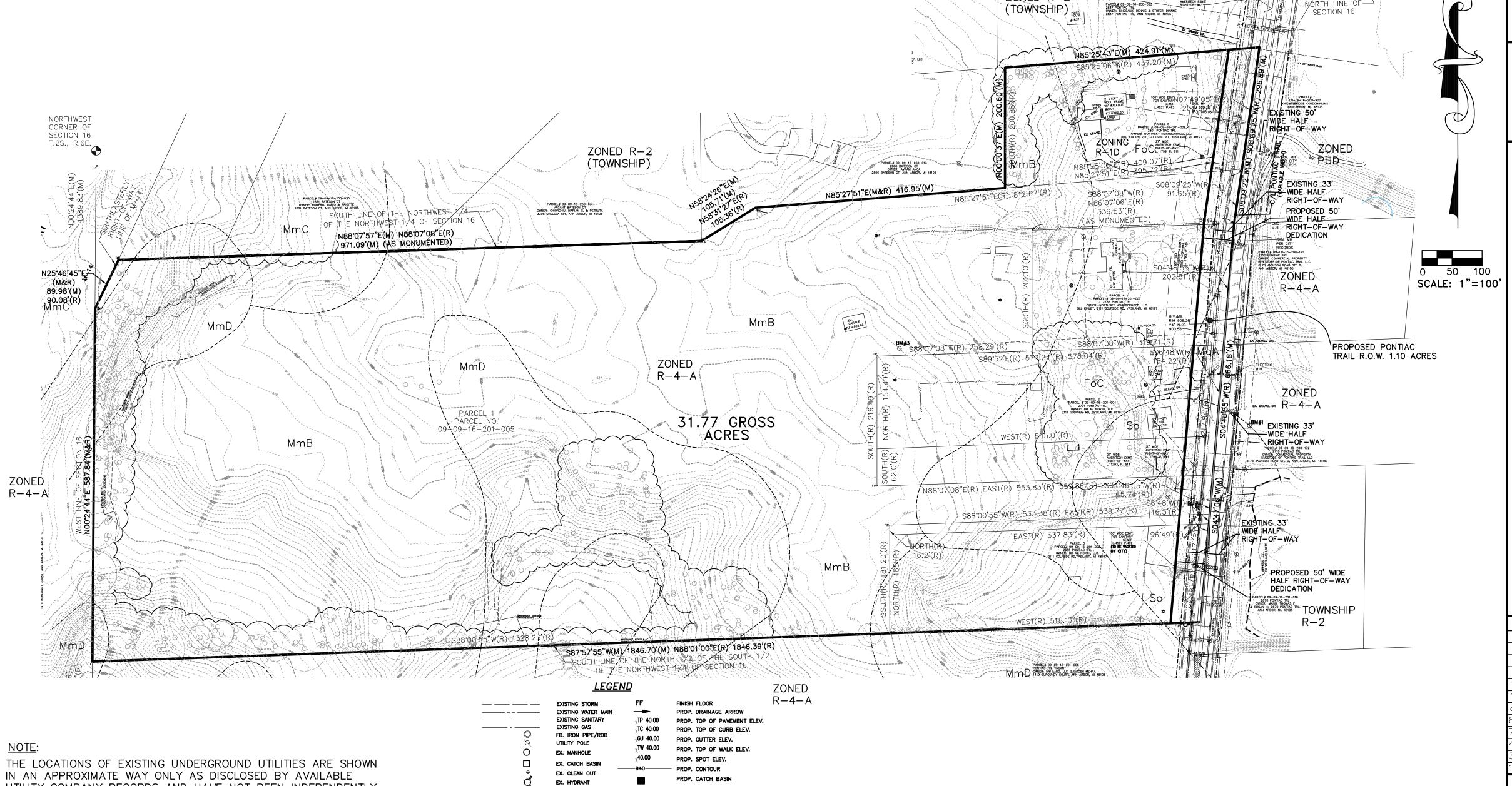
CENTERLINE 217.84 FEET TO THE POINT OF BEGINNING.

WASHTENAW COUNTY, MICHIGAN, DESCRIBED AS: COMMENCING AT AN IRON PIPE MAKING THE INTERSECTION OF THE CENTERLINE OF THE PONTIAC ROAD WITH THE SOUTH LINE OF THE NORTH 1/2 OF THE SOUTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 16, ANN ARBOR TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; THENCE WEST IN SAID SOUTH LINE 518.17 FEET TO AN IRON PIPE; THENCE NORTH AT RIGHT ANGLES 165 FEET; THENCE EAST AT RIGHT ANGLES 537.83 FEET TO THE CENTERLINE OF PONTIAC ROAD; THENCE SOUTHERLY DEFLECTING 96'49' TO THE RIGHT 166.17 FEET TO THE PLACE OF BEGINNING. ALSO COMMENCING AT THE INTERSECTION OF THE CENTERLINE OF PONTIAC ROAD WITH THE SOUTH LINE OF THE NORTH 1/2 OF THE SOUTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 16, T.2S., R.6E., MERIDIAN OF MICHIGAN; THENCE NORTH 6°48' EAST ALONG THE CENTERLINE OF MILFORD ROAD (NOW KNOWN AS PONTIAC TRAIL), 166.17 FEET FOR A PLACE OF BEGINNING; THENCE WEST 537.83 FEET; THENCE NORTH 16.2 FEET; THENCE EAST 539.77 FEET TO THE CENTERLINE OF MILFORD ROAD (NOW KNOWN AS PONTIAC TRAIL); THENCE SOUTH 6°48' WEST ALONG THE CENTERLINE OF MILFORD ROAD 16.3 FEET TO THE PLACE OF BEGINNING, BEING A PART OF THE NORTH 1/2 OF THE SOUTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 16, CITY OF ANN ARBOR, FORMERLY KNOWN AS ANN ARBOR TOWNSHIP, WASHTENAW COUNTY, MICHIGAN.

COMMENCING AT THE WEST 1/4 CORNER OF SECTION 16, T.2S., R.6E., CITY OF ANN ARBOR, (FORMERLY ANN ARBOR TOWNSHIP) WASHTENAW COUNTY, MICHIGAN; THENCE NORTH 00°24'44" EAST 1,255.50 FEET ALONG THE WEST LINE OF SECTION 16 TO A POINT ON THE SOUTHEASTERLY RIGHT OF WAY OF M-14; THENCE NORTH 25°46'45" EAST ALONG SAID SOUTHEASTERLY RIGHT OF WAY 90.08 FEET TO A POINT ON THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 16; THENCE ALONG SAID LINE NORTH 88'07'08" EAST 971.09 FEET; THENCE NORTH 58'31'27" EAST 105.36 FEET; THENCE NORTH 85°27'51" EAST 812.67 FEET TO A POINT ON THE CENTERLINE OF PONTIAC TRAIL (66 FOOT WIDE); THENCE SOUTH 08°09'25" WEST ALONG SAID CENTERLINE 91.65 FEET TO A POINT ON THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 16, SAID POINT BEING THE POINT OF BEGINNING; THENCE CONTINUING ALONG THE CENTERLINE OF PONTIAC TRAIL SOUTH 04°46'55" WEST 202.81 FEET; THENCE SOUTH 88°07'08" WEST 319.71 FEET; THENCE DUE NORTH 201.10 FEET TO A POINT ON THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 16; THENCE ALONG SAID LINE NORTH 86°07'06" EAST 336.53 FEET TO THE POINT OF BEGINNING.

THAT PART OF A PARCEL OF LAND IN THE NORTHWEST 1/4 OF SECTION 16, T.2S., R.6E., CITY OF ANN ARBOR, (FORMERLY ANN ARBOR TOWNSHIP) WASHTENAW COUNTY, MICHIGAN, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE CENTERLINE OF PONTIAC TRAIL (FORMERLY MILFORD ROAD 66 FEET WIDE) DISTANT FROM THE NORTH 1/4 CORNER OF SECTION 16, SOUTH 88'18'25" WEST 584.0 FEET AS MEASURED ALONG THE NORTH LINE OF SAID SECTION (581.0 FEET RECORD) AND SOUTH 7'49'05" WEST 1049.70 FEET ALONG THE AFORESAID CENTERLINE OF PONTIAC TRAIL; THENCE PROCEEDING SOUTH 85°25'06" WEST 437.20 FEET; THENCE SOUTH 200.85 FEET; THENCE NORTH 85°25'06" EAST 409.07 FEET TO A POINT ON THE CENTERLINE OF AFORESAID PONTIAC TRAIL; THENCE ALONG SAID CENTERLINE, NORTH 07°49'05" EAST 205.05 FEET TO THE POINT OF BEGINNING.



Know what's **below** Call before you dig.

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REVISED

I-19-15 PER CITY )—1—15 PER CITY REVIEW -24-15 PER CITY REVIEW -4-15 PER CNTY REVIEW -7-15 PER CITY REVIEW -28-15 PER CITY REVIEW -2—15 UPDATED PLAN -21-15 PER CITY REVIEW

DATE: 9-26-14 DRAWN BY: DL CHECKED BY:

SCALE HOR 1"=100 FT VER 1"= FT

1-800-482-7171 (TOLL FREE)

UTILITY COMPANY RECORDS AND HAVE NOT BEEN INDEPENDENTLY

OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

VERIFIED BY THE COMPANY. NO GUARANTEE IS EITHER EXPRESSED

THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL

EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE

FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE

OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE

CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF

AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE

A CONFLICT IS APPARENT.

CALL MISS DIG

PROP. HYDRANT

EX. WATER SHUTOF

EX. LIGHT POLE

EX. MAILBOX

EX. SIGNAL POLE

PROP. SAN. STR. NUMBER PROP. STM. STR. NUMBER PROP. GATE VALVE NUMBER

PROP. HYDRANT NUMBER

PROP. END SECTION

PROP. GATE VALVE

PROP. WATER MAIN

THE INDIVIDUAL PARCELS THAT CURRENTLY MAKE UP THIS PROPOSED DEVELOPMENT MUST BE LEGALLY COMBINED PRIOR TO ISSUANCE OF ANY PERMITS BY THE CITY OF ANN ARBOR.

<u>LEGEND</u> FINISH FLOOR BENCHMARKS: EXISTING WATER MAIN PROP. DRAINAGE ARROW PROP. TOP OF PAVEMENT ELEV. BENCHMARK NO. 1 R.R. SPIKE ON NORTH SIDE OF UTILITY POLE. EAST EXISTING GAS TC 40.00 PROP. TOP OF CURB ELEV. <sub>v</sub>GU 40.00 PROP. GUTTER ELEV. UTILITY POLE SIDE OF PONTIAC TRAIL AT SHOP #2710. PROP. TOP OF WALK ELEV. PROP. SPOT ELEV. EX. CATCH BASIN BENCHMARK NO. 2 EXISTING SPIKE ON EAST SIDE OF UTILITY POLE 33' EX. CLEAN OUT PROP. CATCH BASII EX. HYDRANT WEST OF PONTIAC TRAIL CENTERLINE AT NORTHEAST PROPERTY CORNER OF HOUSE NO 2735 EX. WATER SHUTOF EX. SIGN EX. LIGHT POLE BENCHMARK NO. 3 EXISTING SPIKE ON NORTH SIDE OF UTILITY POLE 510'+/- WEST OF PONTIAC TRAIL 100' +/- WEST OF PROP. GATE VALVE SOUTHWEST PROPERTY CORNER OF HOUSE NO 2735 ELEVATION=932.95 BENCHMARK NO. 4
TOP/STEAMER VALVE HYDRANT, WEST SIDE OF PONTIAC TRAIL, NORTH SIDE OF PROPERTY TO HOUSE #2655 PROP. STM. STR. NUMBER ELEVATION=905.90 PROP. GATE VALVE NUMBER

### **OVERALL DENSITY CALCULATION:**

TRASH REMOVAL:

IN THE GARAGE.

OVERALL SITE AREA 31.77 ACRES LESS PROPOSED PONTIAC TRAIL RIGHT-OF-WAY 1.10 ACRES 30.67 ACRES NET SITE AREA

OVERALL DENSITY (195 UNITS / 30.67 ACRES) 6.36 UNITS/ACRE

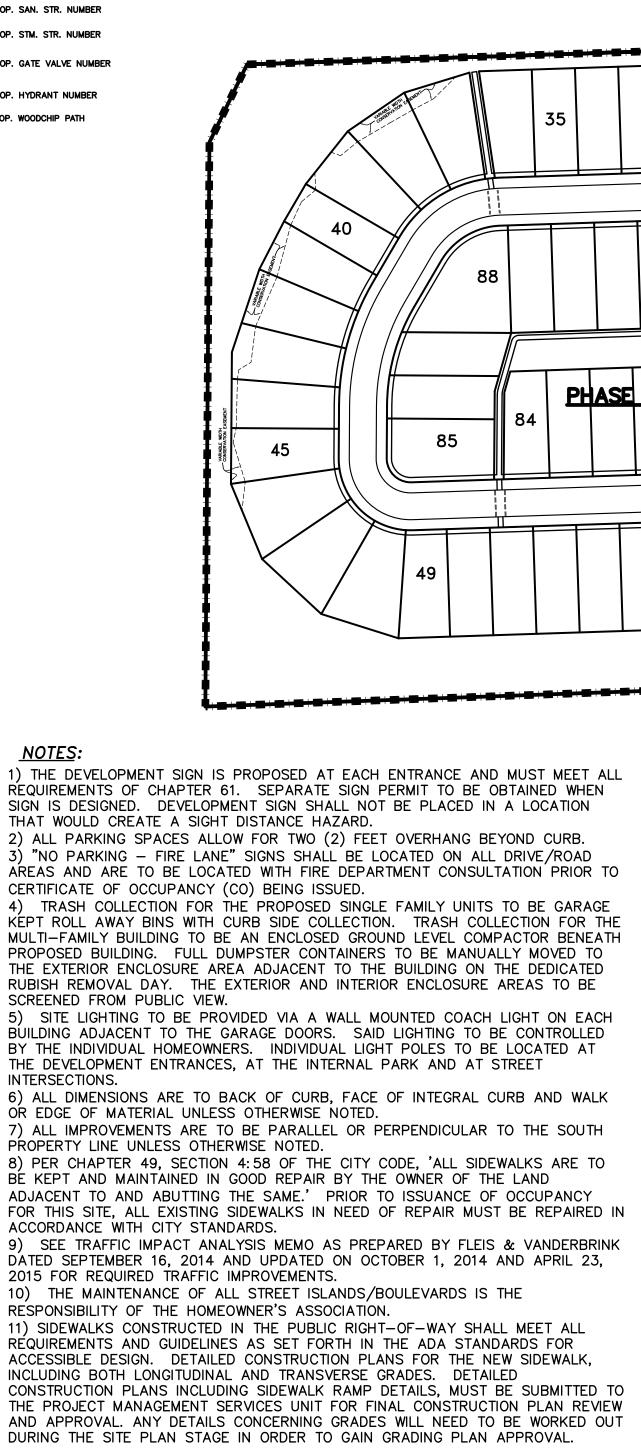
EACH UNIT SHALL USE A PERSONAL CART DUMPSTER TO BE STORED

			COMPARISON TA		
			Existing	Required	Proposed
Zoning:	Parcel 1		23.38 Ac R4-A		R1-E - 6.26 Acres
	Parcel 2		2.83 Ac R4-A		R1-D - 19.40 Acres
	Parcel 3		2.17 Ac R4-A		R4-B - 4.03 Acres
	Parcel 4		1.51 Ac R4-A		PL - 2.07 Acres
	Parcel 5		1.88 Ac R1-D		
Existina [	Dwelling Units				
	R1D Single Family		1		
	R4A Multi Family		2		
	1 TAN CIVICILITY CITTING				
Proposed	Dwelling Units				
	R1-D Single Family	1			103 Units
	R1-E Single Family	,			36 Units
	R4-B Multi Family				56 Units
					-
					195 Units Total
R1-D Sing	le Family				
Lot Area				5000 sf	5000 sf
Lot Width				40 feet	45 feet
Vehicle Pa	arkina				
	e per Dwelling Unit			103 spaces	206 spaces
Bicycle Pa				na	na
Setbacks	anding	Front		25'	25'
Gelbacks		Side		3' min / 6' total	3' / 6'
				20'	20'
1.1		Rear			
Height				30'	30'
	le Family				
Lot Area				4000 sf	4000 sf
Lot Width				34 feet	40 feet
Vehicle Pa	<u> </u>				
	e per Dwelling Unit			36 spaces	72 spaces
Bicycle Pa	arking			na	na
Setbacks		Front		15'	25'
		Side		3' min / 6' total	3' / 6'
		Rear		20'	20'
Height				30'	30'
R4-B Mult	ti Family				<b></b>
Lot Area				14,000 sf	217,800 sf
Density			<u> </u>	2900 sf/d.u.	3889 sf/d.u.*
	* incl 2.07 acres of	Public	c Land zone	F=0/	222/
	pen Space			55%	68%
	ot include 2.07 Acre	s of P	ublic Lands		
Vehicle Pa	•				
	s per Dwelling Unit			84 spaces	84 spaces
Bicycle Pa	_				
1 Space p	er 5 Dwelling Units			6 spaces	14 spaces
				50% class A	10 class A
				50% class C	4 class C
Setbacks		Front		15' min / 40' max	35' to Pontiac Trail
					17' to Polson on south
					20' to Polson on west
		Side		12'	na
		Rear		30'	30'
Height				45' MAX	30'-0 1/2"

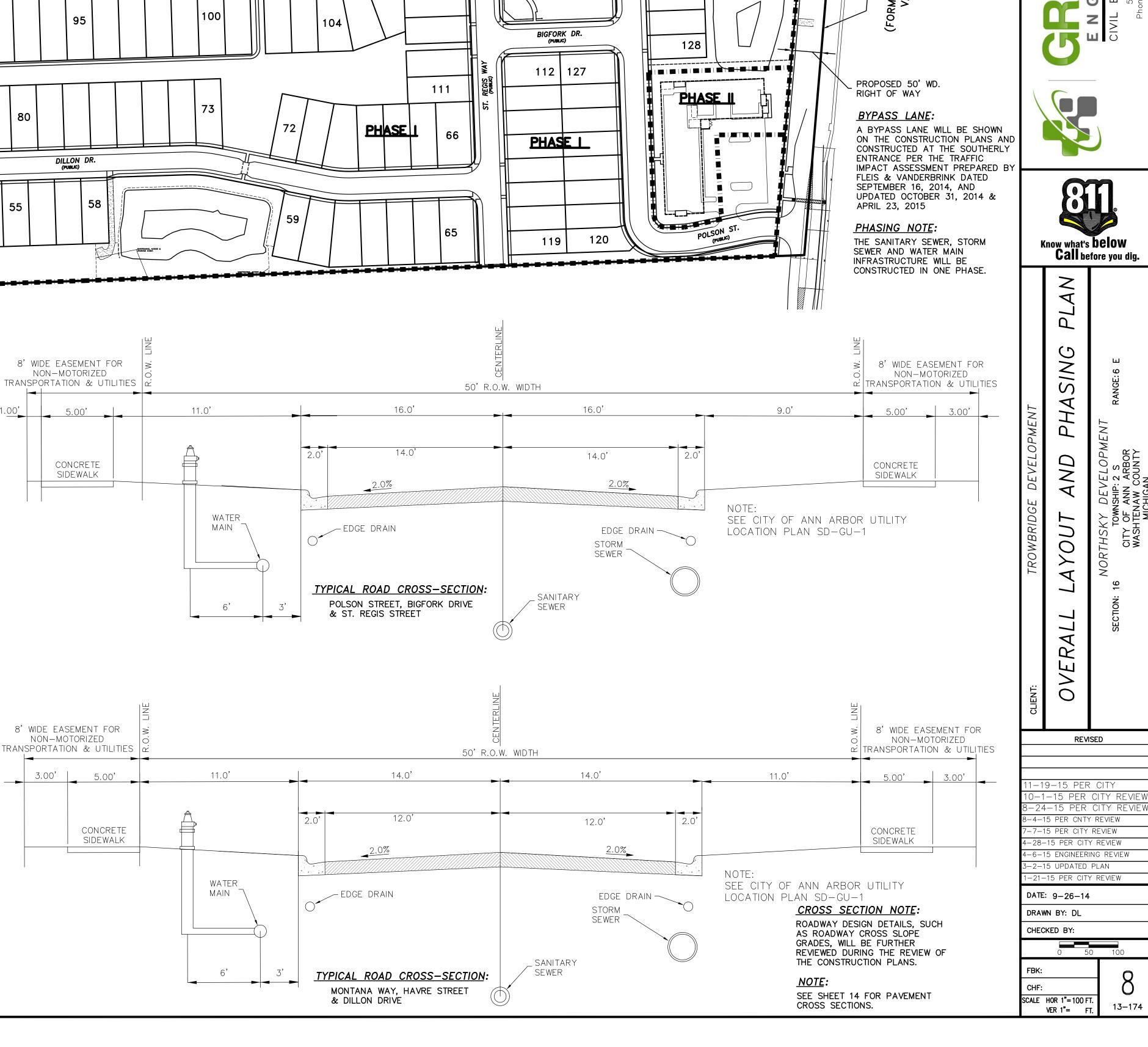
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AS DISCLOSED BY AVAILABLE UTILITY COMPANY RECORDS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE COMPANY. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF A CONFLICT IS APPARENT.

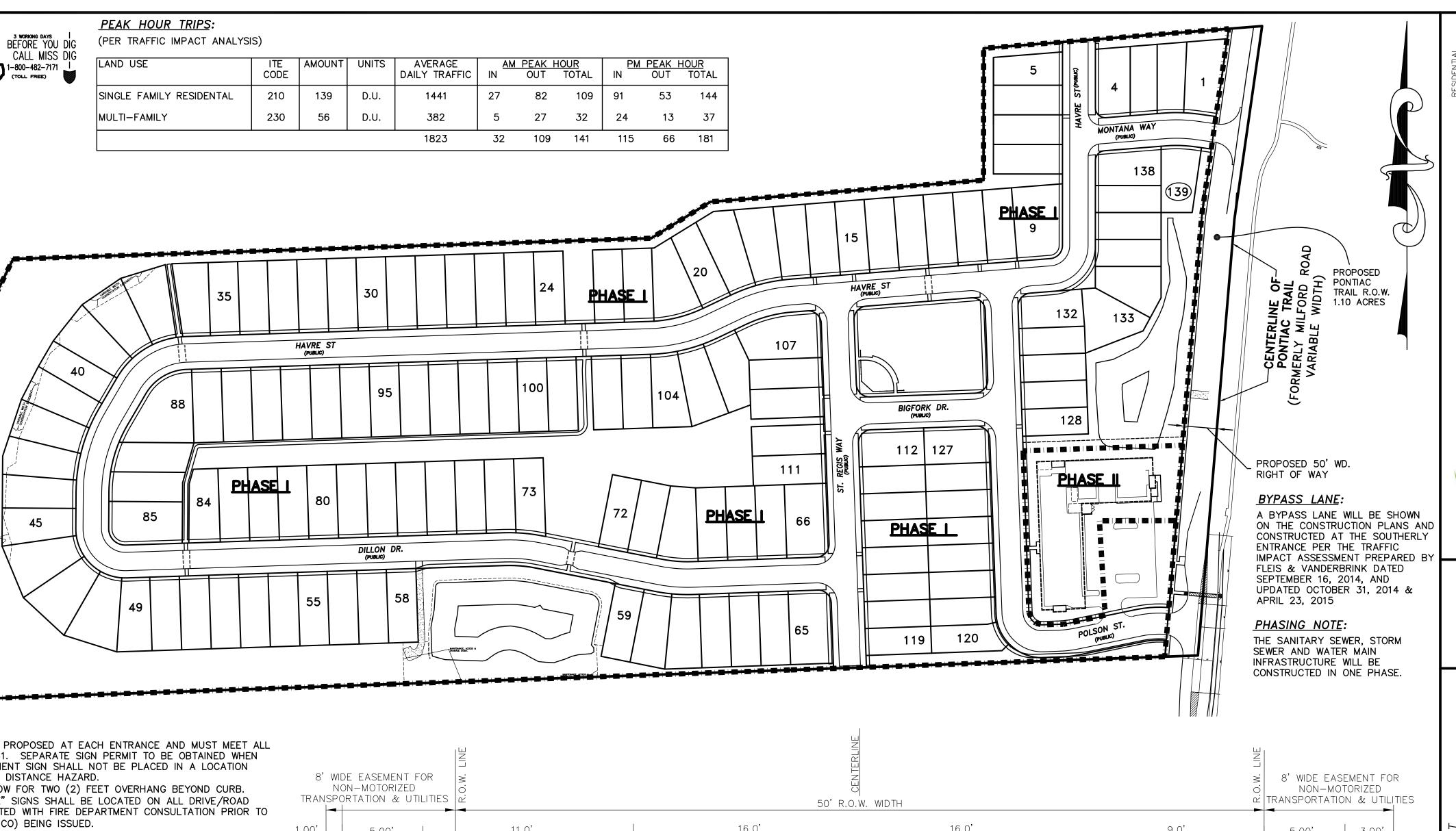
45' MAX

39'-9 1/2"



IF SITE ACCESS IS RESTRICTED DURING CONSTRUCTION, A KNOX BOX





PROP. HYDRANT NUMBER

PROP. WOODCHIP PATH

1) THE DEVELOPMENT SIGN IS PROPOSED AT EACH ENTRANCE AND MUST MEET ALL REQUIREMENTS OF CHAPTER 61. SEPARATE SIGN PERMIT TO BE OBTAINED WHEN SIGN IS DESIGNED. DEVELOPMENT SIGN SHALL NOT BE PLACED IN A LOCATION THAT WOULD CREATE A SIGHT DISTANCE HAZARD.

2) ALL PARKING SPACES ALLOW FOR TWO (2) FEET OVERHANG BEYOND CURB. 3) "NO PARKING - FIRE LANE" SIGNS SHALL BE LOCATED ON ALL DRIVE/ROAD AREAS AND ARE TO BE LOCATED WITH FIRE DEPARTMENT CONSULTATION PRIOR TO CERTIFICATE OF OCCUPANCY (CO) BEING ISSUED.

4) TRASH COLLECTION FOR THE PROPOSED SINGLE FAMILY UNITS TO BE GARAGE KÉPT ROLL AWAY BINS WITH CURB SIDE COLLECTION. TRASH COLLECTION FOR THE MULTI-FAMILY BUILDING TO BE AN ENCLOSED GROUND LEVEL COMPACTOR BENEATH PROPOSED BUILDING. FULL DUMPSTER CONTAINERS TO BE MANUALLY MOVED TO THE EXTERIOR ENCLOSURE AREA ADJACENT TO THE BUILDING ON THE DEDICATED RUBISH REMOVAL DAY. THE EXTERIOR AND INTERIOR ENCLOSURE AREAS TO BE

5) SITE LIGHTING TO BE PROVIDED VIA A WALL MOUNTED COACH LIGHT ON EACH BUILDING ADJACENT TO THE GARAGE DOORS. SAID LIGHTING TO BE CONTROLLED BY THE INDIVIDUAL HOMEOWNERS. INDIVIDUAL LIGHT POLES TO BE LOCATED AT THE DEVELOPMENT ENTRANCES, AT THE INTERNAL PARK AND AT STREET

6) ALL DIMENSIONS ARE TO BACK OF CURB, FACE OF INTEGRAL CURB AND WALK OR EDGE OF MATERIAL UNLESS OTHERWISE NOTED. 7) ALL IMPROVEMENTS ARE TO BE PARALLEL OR PERPENDICULAR TO THE SOUTH

PROPERTY LINE UNLESS OTHERWISE NOTED. 8) PER CHAPTER 49, SECTION 4:58 OF THE CITY CODE, 'ALL SIDEWALKS ARE TO BE KEPT AND MAINTAINED IN GOOD REPAIR BY THE OWNER OF THE LAND ADJACENT TO AND ABUTTING THE SAME.' PRIOR TO ISSUANCE OF OCCUPANCY

ACCORDANCE WITH CITY STANDARDS. 9) SEE TRAFFIC IMPACT ANALYSIS MEMO AS PREPARED BY FLEIS & VANDERBRINK DATED SEPTEMBER 16, 2014 AND UPDATED ON OCTOBER 1, 2014 AND APRIL 23,

10) THE MAINTENANCE OF ALL STREET ISLANDS/BOULEVARDS IS THE RESPONSIBILITY OF THE HOMEOWNER'S ASSOCIATION. 11) SIDEWALKS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY SHALL MEET ALL REQUIREMENTS AND GUIDELINES AS SET FORTH IN THE ADA STANDARDS FOR ACCESSIBLE DESIGN. DETAILED CONSTRUCTION PLANS FOR THE NEW SIDEWALK, INCLUDING BOTH LONGITUDINAL AND TRANSVERSE GRADES. DETAILED CONSTRUCTION PLANS INCLUDING SIDEWALK RAMP DETAILS, MUST BE SUBMITTED TO THE PROJECT MANAGEMENT SERVICES UNIT FOR FINAL CONSTRUCTION PLAN REVIEW AND APPROVAL. ANY DETAILS CONCERNING GRADES WILL NEED TO BE WORKED OUT

FIRE DEPARTMENT SEQUENCING NOTES:

HYDRANTS PROVIDING PROTECTION COVERAGE FOR THE BUILDINGS MUST BE IN SERVICE AND APPROVED BY BOTH ENGINEERING AND FIRE DEPARTMENT BEFORE FIRE DEPARTMENT WILL SUPPORT PERMIT ISSUANCE FOR NEW CONSTRUCTION PHASES AND BEFORE COMBUSTABLE MATERIALS ARE PLACED ON THE JOB SITE.

STORAGE AREAS FOR BUILDING CONSTRUCTION MATERIALS MUST BE APPROVED SO AS NOT TO INTERFERE WITH FIRE/EMERGENCY SITE ACCESS.

LOCK FOR THE GATE IS TO BE PROVIDED

MINIMUM FIRE FLOW OF 1000 GAL/MINUTE AT 20 PSI IS REQUIRED (SINGLE FAMILY RESIDENTIAL CONSTRUCTION UNDER 3600 SF)

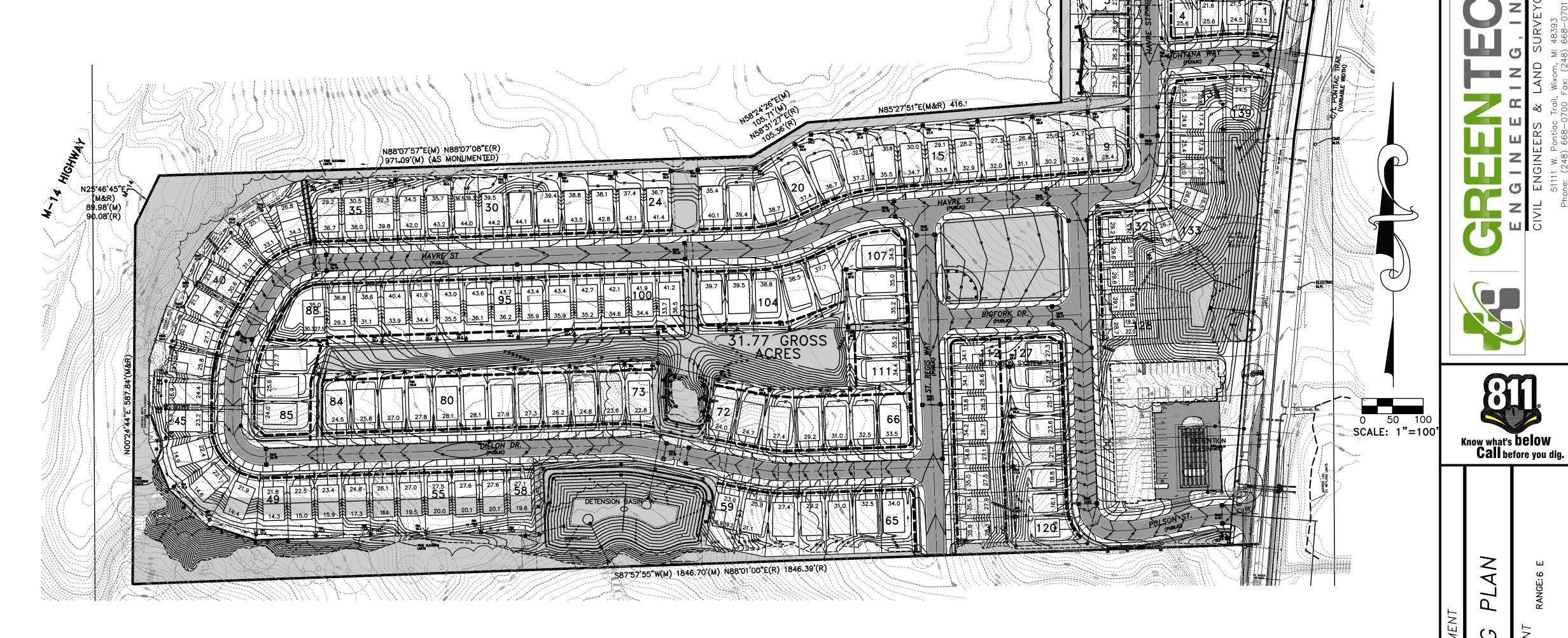
BENCHMARK NO. 2
EXISTING SPIKE ON EAST SIDE OF UTILITY POLE 33'
WEST OF PONTIAC TRAIL CENTERLINE AT NORTHEAST
PROPERTY CORNER OF HOUSE NO 2735
ELEVATION=918.51

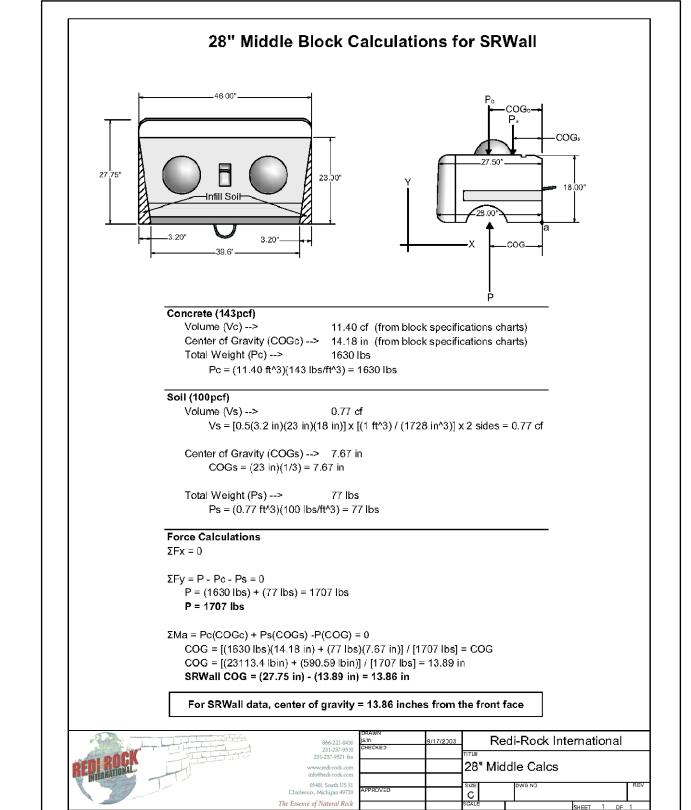
BENCHMARK NO. 3
EXISTING SPIKE ON NORTH SIDE OF UTILITY POLE
510'+/- WEST OF PONTIAC TRAIL 100' +/- WEST OF SOUTHWEST PROPERTY CORNER OF HOUSE NO 2735 ELEVATION=932.95

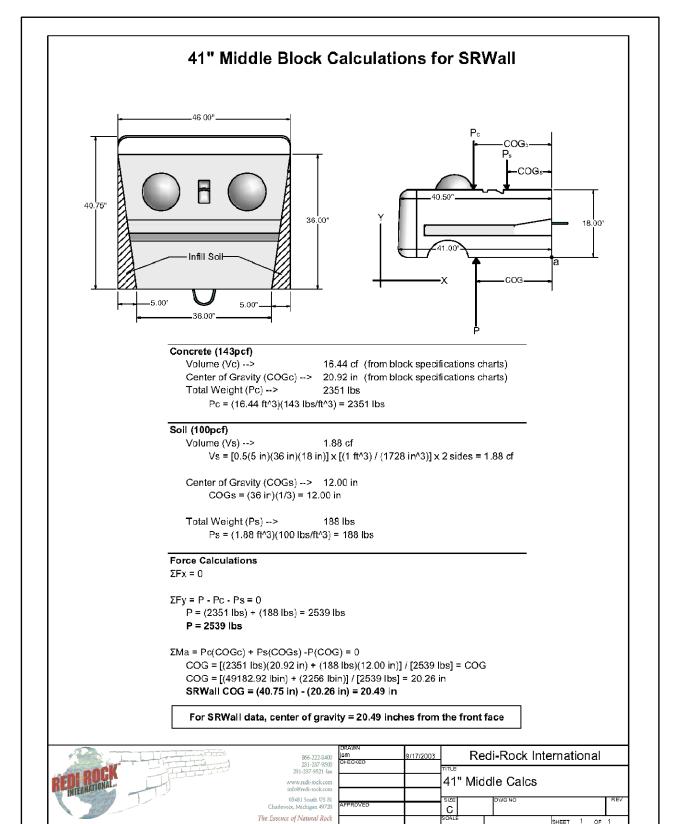
BENCHMARK NO. 4
TOP/STEAMER VALVE HYDRANT, WEST SIDE OF PONTIAC TRAIL, NORTH SIDE OF PROPERTY TO HOUSE #2655 ELEVATION=905.90

<u>LEGEND</u>

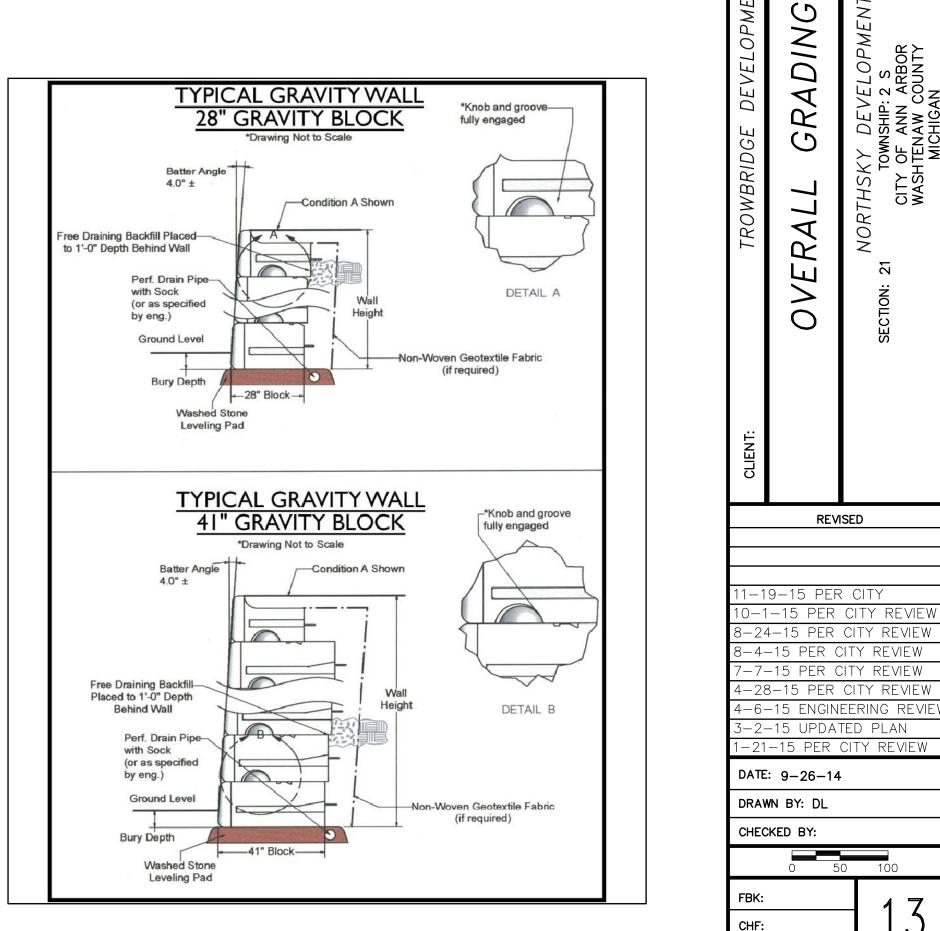
 EXISTING STORM EXISTING WATER MAIN EXISTING SANITARY EXISTING GAS FD. IRON PIPE/ROD UTILITY POLE EX. MANHOLE EX. CATCH BASIN	TF 40.00	FINISH FLOOR PROP. DRAINAGE ARROW PROP. TOP OF PAVEMENT ELEV. PROP. TOP OF CURB ELEV. PROP. GUTTER ELEV. PROP. TOP OF WALK ELEV. PROP. SPOT ELEV.
EX. CAICH BASIN  EX. CLEAN OUT  EX. HYDRANT  EX. WATER SHUTOFF  EX. SIGN  PRO. LIGHT POLE  PRO. BOLLARD LIGHT  EX. MAILBOX  EX. SIGNAL POLE	940 • • • • • • • • • • • • • • • • • • •	PROP. CONTOUR PROP. CATCH BASIN PROP. MANHOLE PROP. END SECTION PROP. STORM SEWER PROP. SANITARY SEWER PROP. WATER MAIN PROP. GATE VALVE PROP. HYDRANT PROP. SAN. STR. NUMBER PROP. STM. STR. NUMBER PROP. GATE VALVE NUMBER PROP. GATE VALVE NUMBER











Q

SCALE HOR 1"=100 FT VER 1"= FT.



3 WORKING DAYS
BEFORE YOU DIG
CALL MISS DIG

A CONFLICT IS APPARENT.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN

UTILITY COMPANY RECORDS AND HAVE NOT BEEN INDEPENDENTLY

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CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF

AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE

IN AN APPROXIMATE WAY ONLY AS DISCLOSED BY AVAILABLE

	ut Hickory	Remove	Yes	REQUIRED REPLACEMENTS	446	SIZE TYPE  12" Red Maple	Remove Ye	REQUIRED REPLACEMENTS 6	2421	SIZE TYP	Ren	nove Yes	ED REQUIRED REPLACEMENTS	2656		9" Elm	STATUS RE	GULATED R	REQUIREI REPLACEM 5
15" Black	k Walnut k Walnut k Locust	Remove Remove	Yes Yes	8 10	447 448 449	- DEAD - DEAD - DEAD	Remove Remove		2422 2423 2424	14" Pine 12" Maple 12" Pine	Ren Ren	nove Yes	7 6 6	2657 2658	1	0" Linden 7" Choke Cherry			
18" Box 8	Elder Elder	Remove			461 462	- DEAD 15" Black Oak	Remove Remove		2425 2626	12" Pine 14" Pine		nove Yes	6 6 7	2659 2660 2661		6" Choke Cherry 7" Shag Hickory 9" Choke Cherry			
18" Box E - DEAD	Elder D	Remove Remove	Ver	40	463 465 Yes	- DEAD 35" Pignut Hickory	Remove		2427 2428	12" Pine 12" Pine	Ren Ren	nove Yes	6 6	2662 2663	1	B" Choke Cherry Box Elder			
	Spruce Spruce	Remove Remove	Yes Yes	10 10	480 Yes 481 483 Yes	18" Northern Pin Oak - DEAD 17" Pignut Hickcry			2429 2430 2431	12" Pine 7" Walnut 12" Oak		nove Yes	6	2664 2665 2666		7" American Elm 6" American Elm 6" American Elm			
s 28" Silver 15" Blue	Maple Spruce	Remove Remove	Yes	14	484 Yes 485	19" Pignut Hickory 12" Black Cherry	Remove		2432 2433	7" Oak 8" Elm	Ren Ren	nove		2667 2668		B" Black Walnut  B" American Elm			
	Spruce Spruce	Remove Remove	Yes	10	495 Yes 496 509	20" Black Cherry 13" Apple 14" Black Cherry	Remove		2434 2435 2436	6" Oak 14" Oak 10" Spruce	Ren	nove nove		2669 2670 2671	1	0" Linden 0" American Elm 3" American Elm			
s 20" Black	k Walnut k Walnut	Remove Remove	Yes	10	510 511	14" Black Cherry 14" Black Cherry	Remove Remove		2437 2438	10" Mulberry 10" Mulberry	Ren Ren	nove		2672 2673		B" American Elm P" American Elm			
16" Silver - DEAD 14" Pignu		Remove Remove			512 513 514 Yes	15" Black Cherry 16" Black Cherry 18" Black Cherry	Remove SeeNoteX Remove Ye	9	2439 2440 2441	15" Locust 11" Spruce 7" Pine	Ren	nove nove		2674 2675	1	6" Linden 2" Box Elder			
s 20" Pignu 15" Red M	ut Hickory Maple	Remove Remove	Yes	10	515 * 516 Yes	12" Black Cherry 19" Black Oak	Remove yes		2442 2443	12" Oak 10" Spruce	Ren Ren	nove		2676 2677 2678	1	0" American Elm-50% 4" American Elm 7" Twin- American Elr			
16" Black	k Walnut k Walnut	Remove	Yes	8	* 517 * 518 * 521	<ul><li>10" Black Cherry dead</li><li>12" Mulberry</li><li>16" Black Cherry</li></ul>	Remove Remove		2444 2445 2446	10" Spruce 8" Birch 11" Pine	Ren	nove Yes NoteX Yes	4	2679 2680		6" American Elm 6" American Elm			
17" Black	k Walnut k Cherry mp White Oak				* 522 * 523	11" American Elm 12" Blue Spruce	Remove Remove		2447 2448	11" Pine 11" Pine	Seel	loteX Yes loteX Yes nove Yes	6	* 2681 2682 2683		9" American Elm 7" Red Maple 9" Linden			
15" Black s 24" Cotto	k Cherry onwood				* 524 Yes 525 526 Yes	18" Silver Maple - DEAD 31" Silver Maple	Removed By C Remove Removed By C		2450 * 2451 2452	12" Pine 13" Poplar 12" Pine				2684 2685		9" American Elm 7" Red Oak			
	onwood onwood				528 Yes 531	38" Silver Maple 13" Black Cherry	Removed Ye	19	2452 2453 2454	14" Pine 13" Pine	SeeN	VoteX		2686 2700 2701	1	2" Linden 6" Poplar 7" American Elm	Remove Remove		
12" Black	k Cherry k Walnut				532 533 534	10" Douglas Fir 10" Mulberry 10" Mulberry	Remove Ye Remove Ye		2455 2458 2459	13" Pine 8" Black Che 10" Pine		loteX nove		2702 2703	1	2" American Elm 5" Shag Maple	Remove Remove		
12" Amer	k Walnut rican Elm onwood				535 701 Yes	12" Black Cherry 30" White Oak	Remove Ye	6 5 15	2500 2501	8" Box Elder 10" Box Elder	Ren	nove		2704 2705 2706	1	2" Box Elder 0" Pignut Hickory 2" Twin- Black Cherry	Remove Remove		
- DEAD	)				702 Yes 703 Yes 704 Yes	19" Pignut Hickory 23" White Oak 30 Oak	Removed Ye		2502 2503 2504	10" Elm 8" Apple 9" Pignut Hid	Ren	nove		2707 2708	1	9" Box Elder 2" Box Elder	Remove Remove		
16" Black - DEAD	)				827 828	7" Locust - DEAD	Remove	_	2505 2506	9" Pignut Hid 8" Pignut Hid	kory SeeN kory	loteX		2709 2710 2711	1	0" Triple-Box Elder 0" Box Elder 0" Box Elder	Remove Remove		
- DEAD					831 832 833	9" American Elm 7" American Elm 10" Black Cherry	Remove Ye Remove Ye		2507 2508 2509	8" Cherry 7" Cherry 6" Shagbark	Ren	nove Yes nove NoteX Yes	4	2712 2713	1	2" Box Elder 0" Quad-Box Elder	Remove Remove		
s 26" Cotto	k Walnut onwood onwood				836 837	- DEAD 14" Red Oak	Remove Ye	5 7	2510 2511	6" Shagbark 6" Shagbark	Hickory Seel	loteX Yes		2714 2715 2716	1	4" Box Elder 4" Box Elder 0" Spurce	Remove Remove		
16" Cotto	onwood				861 862 863	9" Black Walnut 11" Linden 11" Linden			2512 2513 2514	10" Black Che 10" Black Che 8" Black Che	rry Ren	nove Yes	5 5 4	2717 2718	1	2" Spurce 0" Box Elder	Remove Remove		
es 26" Cotto - DEAD es 26" Cotto					864 868	- DEAD 11" Black Walnut			2515 2516	10" Black Che 9" Black Che	rry Ren	nove Yes	5	2719 2720 2721		2" Box Elder 7" Box Elder 7" Box Elder	Remove Remove		
- DEAD	) k Walnut				869 870 871	8" White Oak 9" Shagbark Hickory 11" American Elm	Remove Ye Remove Ye SeeNoteX Ye	5 5	2517 2518 2519	9" Black Che 8" Black Che 10" Black Che	rry			2722 2723	Yes 2	2" Silver Maple 0" Silver Maple	Remove Remove	Yes	10
s 18" Black	k Walnut k Cherry 25% onwood twin				872 873	9" Black Walnut - DEAD			2520 2521	10" Black Che 10" Twin- Blac	rry k Cherry Ren	nove Yes	5	2724 2725 2726	1	0" Black Cherry 0" Black Cherry 0" Spurce	Remove Remove	Yes Yes Yes	10 5 5
es 20" Pignu 15" Red 0	ut Hickory Oak				874 875 876	10" Black Walnut 10" White Oak 10" Black Walnut	Remove Ye	5 5	2522 2523 2524	12" Black Che 12" Black Che 10" Black Che	rry			2727 2728	1	2" Spurce B" Spurce	Remove Remove	Yes Yes	6
8" Red ( 14" Swee		Remove	Yes	4	877 953	9" Black Walnut 8" Black Cherry	Remove Ye SeeNoteX Ye		2525 2526	12" Ash 8" Twin- Blac	k Cherry			2729 2730 2731	1	5" Spurce 5" American Elm 8" Black Cherry	Remove Remove	Yes Yes Yes	8 8 9
15" Red ( 14" Black	Oak k Walnut				954 955 956	9" Black Cherry 7" Black Cherry 7" Black Cherry			2527 2550 2551	9" Black Che 10" Black Che 7" White Oal	rry Ren	nove Yes	5 5	2732 2733	1	5" Pina 7" Spurce	Remove Remove	Yes	8
s 20" Black s 42" White	k Cherry k Walnut e Oak				958 959 960	<ul><li>11" Shagbark Hickory</li><li>10" Shagbark Hickory</li><li>12" Black Cherry</li></ul>	SeeNoteX Ye	3	2552 2553 2554	7" Black Che 6" Twin Appl	rry Ren	nove		2734 2735 2736	1	2" White Pine 2" White Pine 7" Box Elder	Remove Remove	Yes Yes	6 6
16" Linde					961 962	10" Red Oak 8" Twin-Shagbark Hic	Remove Ye		2554 2555 2556	8" Black Che 6" Black Che 6" Black Che	rry			2737 2738	1	3" Choke Cherry 7" Black Walnut	Remove Remove	Yes Yes	7 8
14" Linde 14" Red ( 14" Red (	Oak	Remove SeeNoteX	Yes Yes	7	963 966 988	6" Shagbark Hickory 7" Shagbark Hickory 8" Black Cherry	Remove Remove		2557 2558	12" Black Loc	ust			2739 2740 2741	1	0" Black Walnut 6" White Pine 4" Box Elder	Remove Remove	Yes	5
es 44" Red ( 14" Linde es 34" Black					1054 1055	11" Sweet Cherry - DEAD	Remove Ye	6	2559 2560 2561	10" Black Loc 10" Black Loc 6" Black Loc	ıst			2742 2743	Yes 2	24" White Pine 8" White Pine	Remove Remove	Yes	12
14" Linde					1056 1057 1058	9" Shagbark Hickory 13" Pignut Hickory 7" Shagbark Hickory	Remove Ye Remove Ye		2562 2563 2564	12" Black Loc	ıst			2744 2745 2746	1	0" White Pine 2" Locust 0" Black Cherry	Remove Remove	Yes Yes	6
es 21" Shag	ut Hickory gbark Hickory k Oak				1059 1064	11" Black Cherry 9" Hickory Pig	Remove Ye	6	2565 2566	10" Black Loc 7" Black Loc 12" Black Loc	ust			2747 2748	1	0" Spurce 3" Box Elder	Remove Remove	Yes Yes	5 7
	e Oak	SeeNoteX	Yes		1079 1080 1081	<ul><li>12" Shagbark Hickory</li><li>10" Shagbark Hickory</li><li>12" Shagbark Hickory</li></ul>	Remove SeeNoteX Remove		2567 2568 2569	14" Black Loc 12" Poplar 12" Black Loc				2749 2750 2751		6" Spurce 7" Mullberry 8" Mullberry	Remove Remove	Yes	4
16" Black	k Walnut k Walnut k Walnut	Remove Remove	Yes Yes Yes	7 8 8	1118 1132	8" Black Cherry 10" Black Cherry	Remove Remove Ye	5 5	2570 2571	12" Black Loo 9" Choke Ch	ıst			2752 2753	1	0" Triple- Apple 8" Spruce	Remove Remove	Yes Yes	5
13" Black es 24" Black	k Walnut k Walnut	rtemote	100		1150 1151 1152	9" Shagbark Hickory 9" Shagbark Hickory 9" Shagbark Hickory	Remove Remove		2572 2573 2574	8" Choke Ch 8" Choke Ch 9" Choke Ch	erry			2754 2755 2756	1	6" Spruce 2" Spruce 6" Spruce	Remove Remove	Yes Yes Yes	8 6 8
13" Red ( - DEAD 13" Black	)				1153 1154	8" Shagbark Hickory 8" American Elm			2574 2575 2576	9" Choke Ch 9" Choke Ch	erry			2757 2758	1	4" White Pine 2" Spruce	Remove Remove	Yes Yes	7
13" Black es 18" North	k Walnut k Walnut nen Hackberry				1155 1156	- DEAD 8" Shagbark Hickory			2577 2578 2579	12" Choke Ch 7" Choke Ch 7" Choke Ch	erry			2759 2760 2761	1	B" Spruce 0" Spruce 4" Spruce	Remove Remove	Yes Yes Yes	4 5 7
es 24" Pignu	k Walnut ut Hickory e Oak	SeeNoteX	Yes		1157 1158 1159	8" Shagbark Hickory 10" American Elm 10" American Elm			2580 2581	7" Black Che 9" Elm	rry			2762 2763	1	8" Spruce 1" Scotch Pine	Remove Remove	Yes Yes	7 4 6
14" Black 14" Red (	k Walnut Oak				1160 1161 1162	9" Shagbark Hickory 14" American Elm	Remove Ye	7	2582 2583 2584	9" Black Che 12" Choke Ch 6" Choke Ch	erry			2764 2765 2766		B" Spruce B" Spruce B" Spruce	Remove Remove	Yes Yes Yes	4 4 4
- DEAD	k Cherry C k Cherry	Remove	Yes	7	1163 1164	12" American Elm 11" Black Cherry	Remove Ye Remove Ye		2585 2586	6" Choke Ch 8" Choke Ch	erry			2767 2768	1	8" Spruce 0" Scotch Pine	Remove Remove	Yes Yes	4 5
es 24" Pignu es 25" Linde	ut Hickory en multi				1165 1166	- DEAD 10" Black Cherry	Remove Ye	5	2587 2588 2589	8" Choke Ch 8" Choke Ch 6" Choke Ch	erry			2769 2770 2771		2" Spruce B" Black Hills Spruce B" Spruce	Remove Remove	Yes Yes Yes	6
12" Black 10" Pignu 14" Red 0		Remove Remove	Yes Yes	5 7	1167 1168 1169	9" Black Cherry 11" American Elm 9" Black Oak	Remove Ye Remove Ye SeeNoteX Ye	6	2590 2591	6" Choke Ch 9" Twin Chok	erry e Cherry			2772 2773		B" Spruce B" Spruce	Remove Remove	Yes Yes	4 4
14" Amer es 18" Linde	rican Elm				1170 1171 1172	10" Pignut Hickory 8" Pignut Hickory 7" Shagbark Hickory	SeeNoteX Ye	3	2592 2593 2594	8" Black Che 8" Black Che 6" Black Che	rry	nove		2774 2775 2776		8" Spruce 9" Spruce 20" Twin- Spruce	Remove Remove	Yes Yes Yes	4 5 10
14" Red (					1173 1174	8" Tree-of-heaven 8" Shagbark Hickory	SeeNoteX Remove Ye	s 4	2595 2596	8" Black Che 6" Black Loc	rry ust Ren	nove Yes	3 x	2777 2778	1	0" Mullberry 6" Spruce	Remove Remove		
12" Pignu	ut Hickory ut Hickory				1175 1176 1177	- DEAD 10" Black Cherry 8" Black Cherry	Remove Ye Remove Ye		2597 2598 2599	6" Box Elder 13" Black Che 7" Black Che	rry	nove		2779 2780 2781	Yes 3	66" Silver Maple 50% 66" Oak 2" American Elm	Remove Remove	Yes Yes	18 18
12" Black	k Cherry 50% k Cherry ut Hickory				1178 1179	12" Black Cherry 12" Black Cherry	Remove Ye	6	2600 2601	6" Black Che	rry			2782 2783		8" White Pine 8" White Pine	Remove Remove		
- DEAD	ut Hickory				1180 1181 1182	- DEAD 10" Black Cherry 8" Black Cherry	Remove Ye Remove Ye		2602 2603 2604	9" Black Che 6" Elm 6" Black Che	Ren	nove		2784 2785 2786		8" White Pine 8" White Pine 8" White Pine	Remove Remove		
- DEAD	k Cherry				1183 1184	10" Black Cherry 11" Black Cherry	Remove Ye	5	2605 2606 2607	8" Oak 6" Elm 8" Black Che	Ren Ren	nove Yes	4	2787 2788		8" White Pine 8" White Pine	Remove Remove		
	k Cherry ut Hickory 60% Oak				1185 1186 1187	- DEAD - DEAD 10" Shagbark Hickory	Remove Ye	5 5	2608 2609	7" Black Che 20" Red Maple	Ren Ren	nove Yes	10	2789 2790 2791		8" White Pine 8" White Pine 8" White Pine	Remove Remove		
- DEAD	)	Remove Remove			1188 1221	- DEAD 7" Apple, twin	Remove Remove		2610 2611 2612	11" Hickory 9" Hickory 7" Shag Hicl	Ren	nove Yes nove Yes	6 5	2792 2793 2794	1	8" White Pine 0" White Pine 0" White Pine	Remove Remove		
- DEAD - DEAD - DEAD	)	Remove Remove			1222 1223 1224	7" Black Cherry, twin 12" Sweet Cherry 8" American Elm	Remove Remove		2613 2614	9" Shag Hick 8" Shag Hick	ory Ren	nove Yes	5 4	2795 2796	1	8" White Pine 0" White Pine	Remove Remove		
- DEAD	)	Remove Remove			1226 1227	7" Cottonwood 8" American Elm	Remove Ye		2615 2616 2617	9" Black Che 6" Shag Hicl 6" Shag Hicl	ory Ren	nove Yes	5	2797 2798 2799		8" White Pine B" White Pine 9" Shag Hickory	Remove Remove		
- DEAD - DEAD - DEAD	)	Remove Remove			1228 1229 1318	7" Black Walnut 7" Mulberry 11" Shagbark Hickory			2618 2619	6" Shag Hick 9" Pignut Hick	ory Ren kory Ren	nove Yes	5	2800 2801		8" White Pine B" White Pine	Remove Remove		
- DEAD	) k Locust	Remove Remove	Yes	8	1319 1320	11" Shagbark Hickory 11" Twin-Shagbark Hick			2620 2621 2622	6" Pignut Hid 7" Black Che 6" Pignut Hid	rry Ren	nove nove		2802 2803		8" White Pine 8" White Pine 7" White Pine	Remove Remove		
12" Black	k Cherry k Cherry	Remove Remove	Yes Yes	6 7	1321 1322 1324	9" American Elm 12" American Elm - DEAD	Remove Ye Remove Ye Remove		2623 2624	7" Triple -Bla 7" Shag Hick	ck Cherry ory Seet	NoteX		2804 2805 2806	1	7" White Pine 0" Scotch Pine 8" Scotch Pine	Remove Remove		
12" Black	k Cherry k Cherry triple	Remove Remove	Yes Yes	6	1325 1326 1327	<ul><li>14" Black Cherry</li><li>10" Shagbark Hickory</li></ul>	SeeNoteX		2625 2626 2627	8" Black Che 8" Red Oak 7" Black Che				2807 2808		B" White Pine B" White Pine B" White Pine	SeeNoteX SeeNoteX	Yes Yes	
15" Black	k Cherry k Locust k Locust	Remove Remove	Yes	9	1351 1352	11" Black Cherry 7" American Elm	Remove Remove		2628 2629	8" Twin Shag 6" Black Che	Hickory			2809 2810 2811		8" White Pine 7" twin- poplar	Remove	Yes	4
12" Black	k Cherry k Cherry	Remove	. 50	-	1353 1368 1369	8" Hawthorn 11" Black Cherry 8" Black Cherry	Remove		2630 2631 2632	6" Black Che 7" Basswood 7" Black Che				2812 2813 2814		6" Poplar B" Poplar O" Poplar	SeeNoteX Remove Remove	Yes Yes Yes	4
- DEAD 14" Black 12" Black		Remove Remove	Yes Yes	7	1423 1466	7" Hawthorn 6" Black Locust	Remove Ye		2633 2634	8" Black Che 7" Linden	rry Seet	NoteX Yes		2815 2816		8" White Pine 9" Mullberry	Remove	Yes	4
12" Black Dead	k Cherry	Remove Remove	Yes	6	2400 2401 2402	10" Spruce 12" Spruce 10" Spruce	Remove Ye Remove Ye Remove Ye	6	2635 2636 2637	6" Black Che 6" Black Che 8" Black Che	rry Ren	NoteX Yes nove Yes nove Yes	3 4	2817 2818 2819	1	3" Scotch Pine B" Scotch Pine	SeeNoteX	Yes	
	k Cherry k Cherry	Remove Remove	Yes Yes	6	2403 Yes 2404	24" Pine 12" Pine	Remove Ye	12 6	2638 2639	9" Linden				2820 2821	1	8" Scotch Pine 6" White Pine	SeeNoteX Remove Remove	Yes Yes Yes	4 8
s 16" Red 0 15" White	Oak e Oak	Remove Remove	Yes Yes Yes	8 8	2405 * 2406 * 2407	12" Pine 12" Pine 12" Pine	Remove Ye Remove Ye Remove Ye	6	2640 Yes 2641 2642	32" Cottonwood 10" Cottonwood 8" American	d Seel	NoteX NoteX Yes		2822 2823		8" Scotch Pine 7" White Pine	Remove Remove	Yes Yes	4
- DEAD 14" Amer - DEAD	rican Elm	Remove Remove	Yes	7	2408 * 2409	15" Pine 12" Pine	Remove Ye	8 8	2643 2644	7" Linden 9" Maple	Seet Ren	NoteX Yes	5	2824 2825 2826	1	7" Scotch Pine 1" Twin-White Pine 2" White Pine	Remove Remove	Yes Yes	4 6
- DEAD	k Cherry	Remove Remove SeeNoteX	Yes		2410 2411 2412 Yes	12" Pine 16" Pine 18" Pine	Remove Ye Remove Ye Remove Ye	8	2645 2646 2647	8" Shag Hicl 14" Choke Ch 8" Linden	erry Seet	nove Yes NoteX Yes nove Yes	4	2827 2828	1	2" White Pine 0" White Pine	Remove Remove	Yes Yes	6 5
s 18" Black	k Oak				2413 Yes 2414	18" Oak, twin 12" Pine	Removed By C Remove Dama	ity 0 ged 0	2648 2649	9" Triple- Lin 7" Oak	den Ren	nove Yes	4	2829 2830 2831	1	0" White Pine 0" White Pine 9" White Pine	SeeNoteX SeeNoteX Remove	Yes Yes Yes	5
- DEAD 12" Black	)	Remove Remove	Yes	6	2415 Yes 2416 Yes 2417 Yes	24" Pine 24" Pine 32" Maple	Removed By C Removed By C Remove Dama	ity 0	2650 2651 2652	14" Oak 12" Oak 8" Linden	Ren	nove Yes nove Yes	6 4	2832 2833		8" White Pine 9" White Pine	Remove Remove	Yes Yes	4 5
12" Black	k Cherry bark Hickory	Remove		8	2418 2419 Yes	0 DEAD 34" Maple	Remove Ye	s 17	2653 2654	8" Black Che 6" Shag Hick	rry Ren ory Seet	nove Yes NoteX Yes	4	2834 2835 2836		7" Spruce B" Spruce 6" Spruce	Remove Remove	Yes	4
vvinte	(e/)	, tolliove	100	•	2420	14" Pine	Remove Ye	5 7	2655	9" Linden	Ren	nove Yes	5	2837 2838		6" Spruce 7" Spruce	Remove Remove		

LEGEND:

TAG - 371 TAG NUMBER

LMK - YES=LANDMARK TREE

SIZE - TREE SIZE (DBH)

TYPE - TREE TYPE

## NOTE:

\* THE FOLLOWING TREES: 518, 521, 522, 523, 524, 525, 526, 2413, 2415, 2416, 2500, 2701, 2702 AND 2703 WERE REMOVED BY THE CITY OF ANN ARBOR AS PART OF THE PONTIAC TRAIL ROADWAY IMPROVEMENT PROJECT.

TREES 20 AND 2414 HAVE BEEN HEAVILY DAMAGED BY PRUNING FROM THE POWER COMPANY AND ARE PROPOSED TO BE REMOVED WITHOUT MITIGATION.

TREES 21 AND 2417 HAVE BEEN HEAVILY DAMAGED BY PRUNING FROM THE POWER COMPANY, BUT ARE PROPOSED TO REMAIN.

## <u> TREE REMOVAL SUMMARY</u>

TOTAL LANDMARK TREES REMOVED = 24

TOTAL LANDMARK TREES REMOVED BY CITY OF ANN ARBOR = 6

Remove Yes
Remove Yes

REM REGULATED REQUIRED REPLACEMENTS

Remove Yes Remove Yes Remove

Remove Yes

SeeNoteX Yes

Remove Yes SeeNoteX Yes

S" Spruce
S" Spruce
S" Scotch Pine

9" White Pine 9" White Pine

9" White Pine 10" White Pine

10" White Pine 9" White Pine

10" White Pine 6" Scotch Pine 8" Scotch Pine

10" White Pine 8" White Pine 8" Scotch Pine

10" White Pine 6" White Pine

10" White Pine 6" White Pine

White Pine 7" Spurce 8" White Pine 6" White Pine 14" White Pine 6" White Pine Twin-Mullberry " White Pine

10" Sweet Gum

 10"
 Sweet Gum

 10"
 Sweet Gum

 7"
 Spurce

 8"
 Spurce

 6"
 Spurce

 10"
 Spurce

 10"
 Spurce

 7"
 Spurce

 7"
 Spurce

 7"
 Spurce

 7"
 Spurce

 10"
 Apple

 8"
 Spurce

 10"
 Twin-Black Oak

 8"
 Spurce

 9"
 Spurce

 9"
 Spurce

 10"
 Spurce

 10"
 Spurce

10" Spurce

6" Scotch Pine
12" Twin- White Pine
7" White Pine

(TREES 524, 526, 703, 2413, 2415, 2416)

TOTAL REQUIRED REPLACEMENTS= 1335 INCHES

TOTAL LANDMARK TREES REMOVED BY DEVELOPER = 18 TOTAL LANDMARK INCHES REMOVED BY DEVELOPER = 402

TOTAL NON-LANDMARK TREES REMOVED = 307

TOTAL NON-LANDMARK REGULATED TREES REMOVED = 146 BY CITY (2701, 2702, 2703) = 3BY DEVELOPER = 143

TOTAL TREES REMOVED BY PREVIOUS DEVELOPER = 617

## TREE REPLACEMENT SUMMARY

TOTAL MITIGATION REQUIRED = 445 TREES (1335"/3")CURRENT PLAN

TOTAL MITIGATION REQUIRED = 309 TREES (1851"/3"x 50%) BY PREVIOUS DEVELOPER

TOTAL MITIGATION REQUIRED = 754 TREES (2261 INCHES)

## WOODLAND REMOVAL BY PREVIOUS DEVELOPER

REENTECH ENGINEERING IS IN RECEIPT OF PREVIOUS DEVELOPMENT ANS AS PREPARED BY MIDWESTERN CONSULTING INC. FOR BLUEHILL EVELOPMENT WITH A LAST REVISION DATED NOVEMBER 14, 2005. THE DODLAND MITIGATION SUMMARY FROM THE 2005 PLAN INDICATES A QUIRED WOODLAND MITIGATION OF 617 TREES (FOR 1851 INCHES DBH

LARGE NUMBER OF TREES FROM THE WOODED AREAS AS INDICATED IN 2005 PLAN WERE SUBSEQUENTLY HARVESTED.

TO THE DIFFICULTY IN READING THE 2005 PLANS, THE CURRENT PPLICANT AGREES TO INCLUDE THE ENTIRE 2005 WOODLAND MITIGATION OUNT (617 TREES) INTO THE CURRENT REPLACEMENT PLAN.

## NOTE X: (TREE PROTECTION)

CONTRACTOR TO REMOVE ONLY THE TREES WITHIN THE TREE CLEARING LIMITS. SOME TREES THAT ARE LOCATED OUTSIDE THE TREE CLEARING LIMITS ARE PURPOSES ONLY. THESE TREES ARE NOT TO BE REMOVED DURING CONSTRUCTION. EXCEPTION: TREES 437, 828, & 1226 ARE OUTSIDE THE CLEARING LIMITS BARRIER, (BUT WITHIN THE TEN FOOT PROTECTION ZONE), ARE LISTED "DEAD", AND WILL BE REMOVED BEFORE CONSTRUCTION.

Н	Divided by 2	Squared	Multiply by Pi		
10	5	25	78.5		
8	4	16	50.24		
10	5	25	78.5		
9	4.5	20.25	63.585		
9	4.5	20.25	63.585		
8	4	16	50.24		
10	5	25	78.5		
10	5	25	78.5		
10	5	25	78.5		
12	6	36	113.04		
12	6	36	113.04		Basal Area 1/2 acre
		Sum	846	8462	59
				Multiply by 10	Divide by 144
ea D					
н	Divided by 2	Squared	Multiply by Pi		
16	8	64	200.96		
16	8	64	200.96		
13	6.5	42.25	132.665		
14	7	49	153.86		
10	5	25	78.5		
10	5	25	78.5		
10	5	25	78.5		
9		20.25	63.585		Basal Area 1/2 acre
		Sum	988	9875	69





I-19-15 PER CITY

D-1-15 PER CITY REVIEW -24-15 PER CITY REVIEW -7-15 PER CITY REVIEW 4-28-15 PER CITY REVIEW -2-15 UPDATED PLAN -21-15 PER CITY REVIEW

DATE: 9-26-14 DRAWN BY: DL

CHECKED BY:

SCALE HOR 1"=100 FT. VER 1"= F"

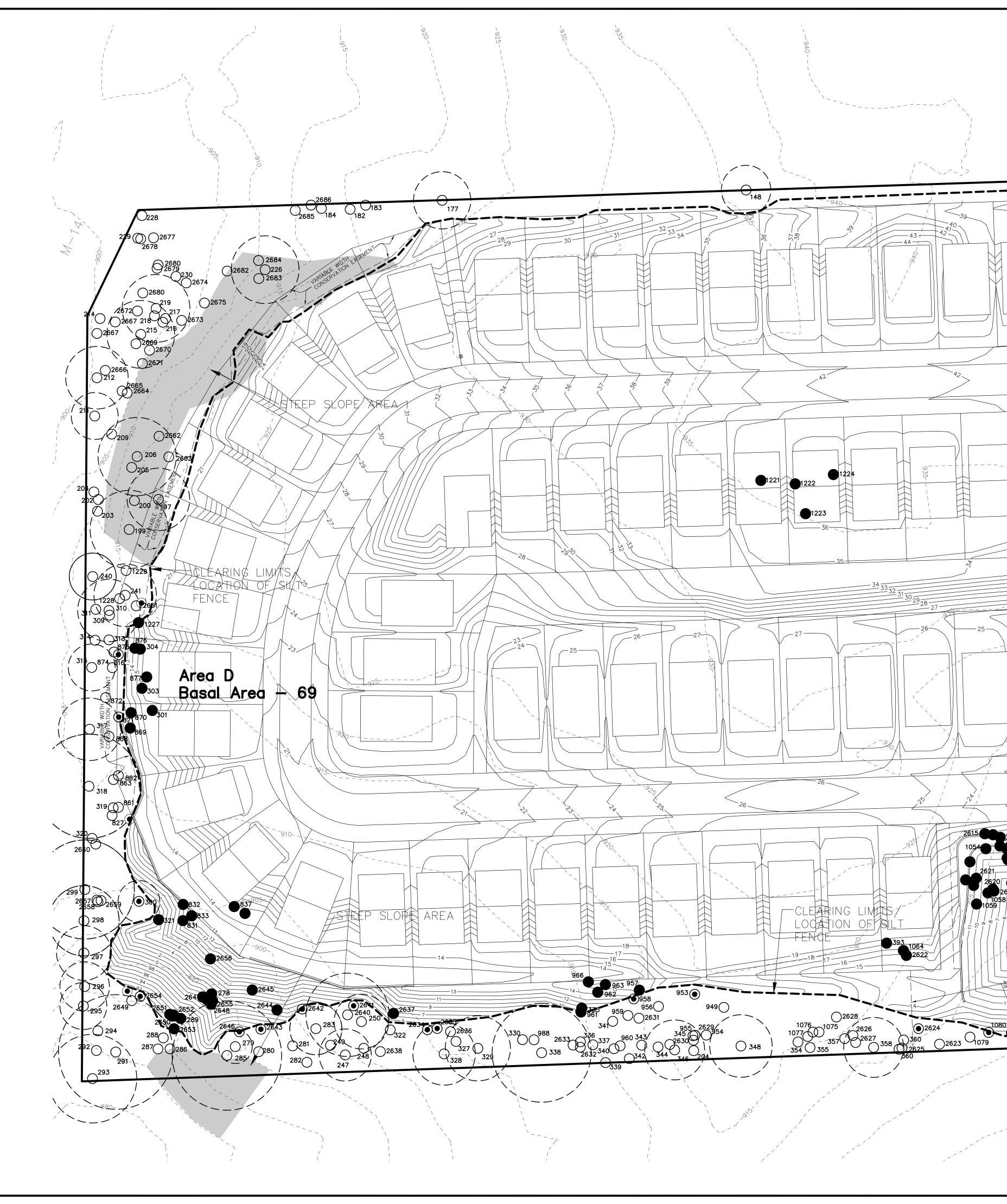


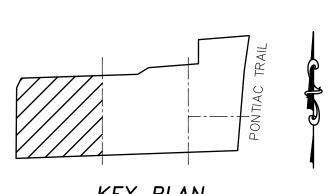
BENCHMARK NO. 1
R.R. SPIKE ON NORTH SIDE OF UTILITY POLE. EAST SIDE OF PONTIAC TRAIL AT SHOP #2710.

BENCHMARK NO. 2
EXISTING SPIKE ON EAST SIDE OF UTILITY POLE 33'
WEST OF PONTIAC TRAIL CENTERLINE AT NORTHEAST PROPERTY CORNER OF HOUSE NO 2735 ELEVATION=918.51

BENCHMARK NO. 3
EXISTING SPIKE ON NORTH SIDE OF UTILITY POLE
510'+/- WEST OF PONTIAC TRAIL 100' +/- WEST OF
SOUTHWEST PROPERTY CORNER OF HOUSE NO 2735

BENCHMARK NO. 4
TOP/STEAMER VALVE HYDRANT, WEST SIDE OF PONTIAC
TRAIL, NORTH SIDE OF PROPERTY TO HOUSE #2655
ELEVATION=905.90







0 20 40 SCALE: 1"=40'

TREE LEGEND:

TREE REMOVAL FOR REMOVAL AFTER CONSTRUCTION (AS NECESSARY)

UNDISTURBED TREES

TREE PROTECTION NOTE:

TREE PROTECTION FENCE IS TO BE PLACED AT THE EDGE OF THE CRITICAL ROOT ZONE EXCEPT AS INDICATED OTHERWISE ON THIS PLAN, AND CAN NOT BE MOVED WITH OUT CITY APPROVAL. IN NO CASE SHALL TREE PROTECTON FENCE BE PLACED CLOSER THAN 10 FEET FROM THE TRUNK OF TREES TO BE PROTECTED.

CONTRACTOR TO REMOVE ONLY THE TREES WITHIN THE TREE CLEARING LIMITS. SOME TREES THAT ARE LOCATED OUTSIDE THE TREE CLEARING LIMITS ARE INDICATED TO BE REMOVED FOR REPLACEMENT PURPOSES ONLY. THESE ARE NOT TO BE REMOVED DURING CONSTRUCTION.

> SURVEY NOTE THE TOPOGRAPHIC SURVEY WAS PREVIOUSLY PREPARED BY OTHERS AND VERIFIED BY GREENTECH ENGINEERING, INC. IN JUNE 2014.

THE TREE SURVEY WAS PREVIOUSLY PREPARED BY OTHERS AND VERIFIED BY GREENTECH ENGINEERING, INC. IN JUNE

REVISED

-19-15 PER CITY )-1-15 PER CITY REVIEW -24-15 PER CITY REVIEW -4-15 PER CNTY REVIEW 7-15 PER CITY REVIEW -28-15 PER CITY REVIEW -2-15 UPDATED PLAN -21-15 PER CITY REVIEW

Know what's **below Call** before you dig.

V

<u>2</u>

DATE: 9-26-14 DRAWN BY: DL CHECKED BY:

SCALE HOR 1"=40 FT VER 1"= FT.

BEFORE YOU DIG CALL MISS DIG 1-800-482-7171 (TOLL FREE)

A CONFLICT IS APPARENT.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AS DISCLOSED BY AVAILABLE UTILITY COMPANY RECORDS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE COMPANY. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF



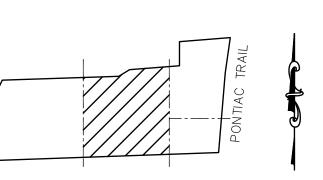
BENCHMARK NO. 1 R.R. SPIKE ON NORTH SIDE OF UTILITY POLE. EAST SIDE OF PONTIAC TRAIL AT SHOP #2710. ELEVATION=905.20

BENCHMARK NO. 2
EXISTING SPIKE ON EAST SIDE OF UTILITY POLE 33'
WEST OF PONTIAC TRAIL CENTERLINE AT NORTHEAST
PROPERTY CORNER OF HOUSE NO 2735
ELEVATION=918.51

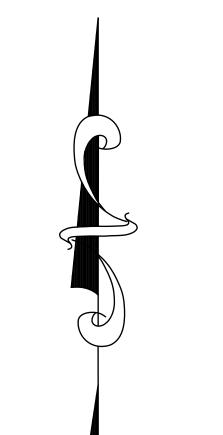
BENCHMARK NO. 3
EXISTING SPIKE ON NORTH SIDE OF UTILITY POLE
510'+/- WEST OF PONTIAC TRAIL 100' +/- WEST OF
SOUTHWEST PROPERTY CORNER OF HOUSE NO 2735
ELEVATION=932.95

BENCHMARK NO. 4
TOP/STEAMER VALVE HYDRANT, WEST SIDE OF PONTIAC
TRAIL, NORTH SIDE OF PROPERTY TO HOUSE #2655
ELEVATION=905.90





KEY PLAN



0 20 40 SCALE: 1"=40'

TREE LEGEND:

2796 TREE REMOVAL

FOR REMOVAL AFTER CONSTRUCTION (AS NECESSARY)

(AS NECESSARY)
UNDISTURBED TREES

INC. IN JUNE 2014.

THE TREE SURVEY WAS PREVIOUSLY PREPARED BY OTHERS AND VERIFIED BY GREENTECH ENGINEERING, INC. IN JUNE 2014.

THE TOPOGRAPHIC SURVEY WAS PREVIOUSLY PREPARED BY OTHERS AND

VERIFIED BY GREENTECH ENGINEERING,

## TREE PROTECTION NOTE:

TREE PROTECTION FENCE IS TO BE PLACED AT THE EDGE OF THE CRITICAL ROOT ZONE EXCEPT AS INDICATED OTHERWISE ON THIS PLAN, AND CAN NOT BE MOVED WITH OUT CITY APPROVAL. IN NO CASE SHALL TREE PROTECTON FENCE BE PLACED CLOSER THAN 10 FEET FROM THE TRUNK OF TREES TO BE PROTECTED.

CONTRACTOR TO REMOVE ONLY THE TREES WITHIN THE TREE CLEARING LIMITS. SOME TREES THAT ARE LOCATED OUTSIDE THE TREE CLEARING LIMITS ARE INDICATED TO BE REMOVED FOR REPLACEMENT PURPOSES ONLY. THESE TREES ARE NOT TO BE REMOVED DURING CONSTRUCTION.

2014

SURVEY NOTE

DATE: 9-26-14

DRAWN BY: DL

CHECKED BY:

REVISED

-19-15 PER CITY

-1-15 PER CITY REVIEW

-24-15 PER CITY REVIEV

7-15 PER CITY REVIEW

-28-15 PER CITY REVIEW

-2-15 UPDATED PLAN

-21-15 PER CITY REVIEW

Know what's **below Call** before you dig.

V

7

O 20

FBK:

CHF:

SCALE HOR 1"= 40 FT.

VER 1"= FT.

\_\_\_\_\_\_30 FT. FT. 13-174

3 WORKING DAYS | EFORE YOU DIG CALL MISS DIG 800–482–7171 | TOLL FREE)

NOTE

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**BENCHMARKS:** 

BENCHMARK NO. 1
R.R. SPIKE ON NORTH SIDE OF UTILITY POLE. EAST SIDE OF PONTIAC TRAIL AT SHOP #2710.
ELEVATION=905.20

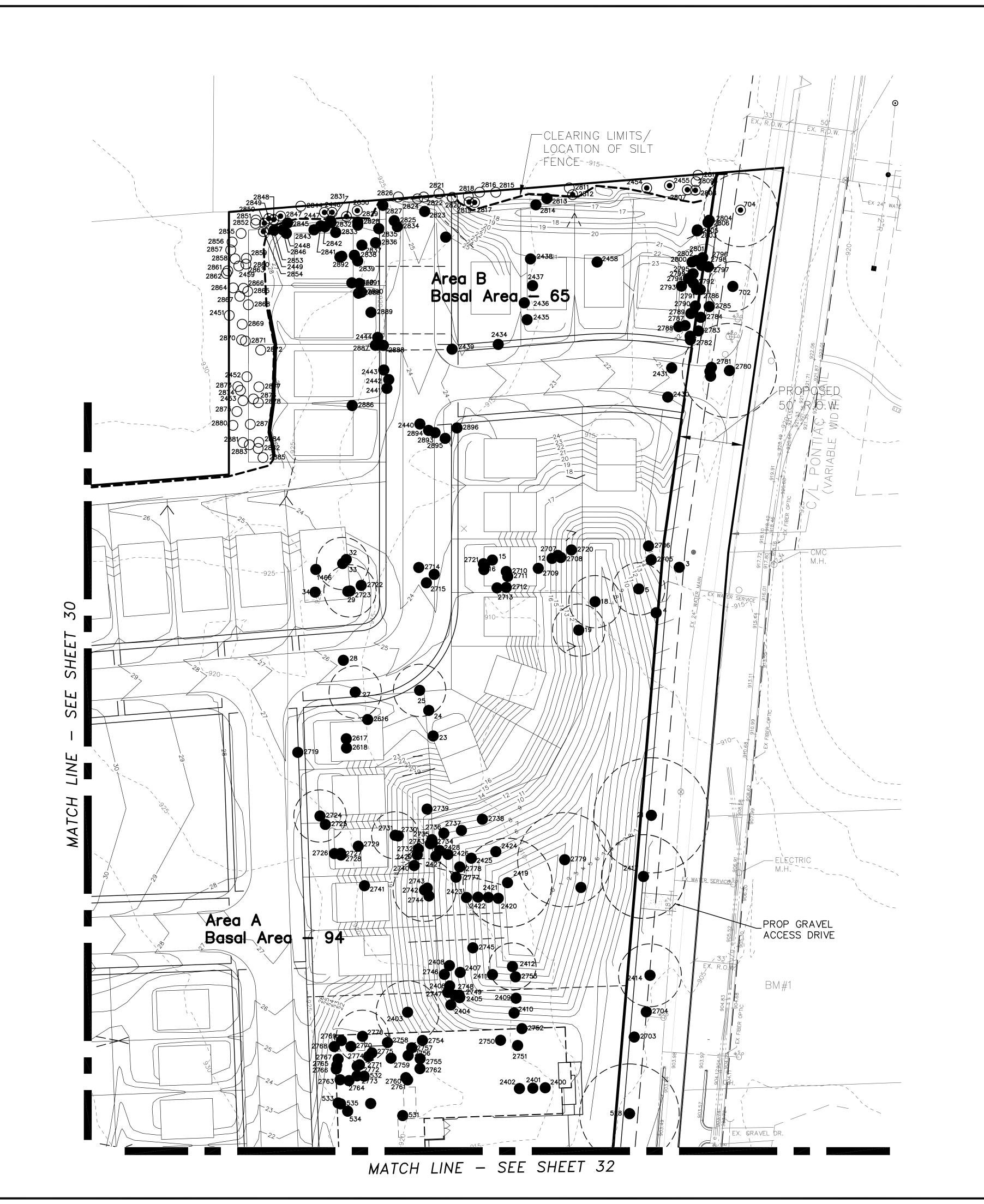
BENCHMARK NO. 2
EXISTING SPIKE ON EAST SIDE OF UTILITY POLE 33'
WEST OF PONTIAC TRAIL CENTERLINE AT NORTHEAST
PROPERTY CORNER OF HOUSE NO 2735
ELEVATION=918.51

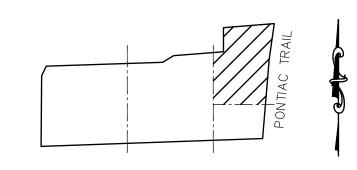
BENCHMARK NO. 3
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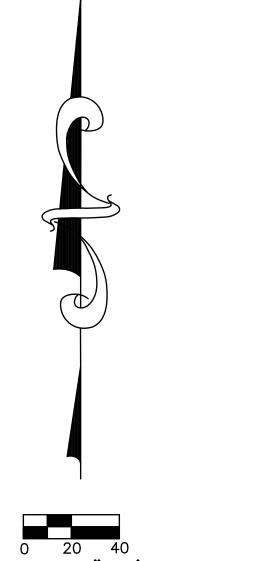
BENCHMARK NO. 4
TOP/STEAMER VALVE HYDRANT, WEST SIDE OF PONTIAC
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SCALE: 1"=40'

TREE LEGEND:

2796 TREE REMOVAL

FOR REMOVAL AFTER CONSTRUCTION (AS NECESSARY) UNDISTURBED TREES

TREE PROTECTION NOTE:

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SURVEY NOTE

THE TOPOGRAPHIC SURVEY WAS PREVIOUSLY PREPARED BY OTHERS AND VERIFIED BY GREENTECH ENGINEERING, INC. IN JUNE 2014.

THE TREE SURVEY WAS PREVIOUSLY PREPARED BY OTHERS AND VERIFIED BY GREENTECH ENGINEERING, INC. IN JUNE

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REVISED

A

-19-15 PER CITY )-1-15 PER CITY REVIEW

-7—15 PER CITY REVIEW -28-15 PER CITY REVIEW -2-15 UPDATED PLAN -21-15 PER CITY REVIEW

DATE: 9-26-14 DRAWN BY: DL CHECKED BY:

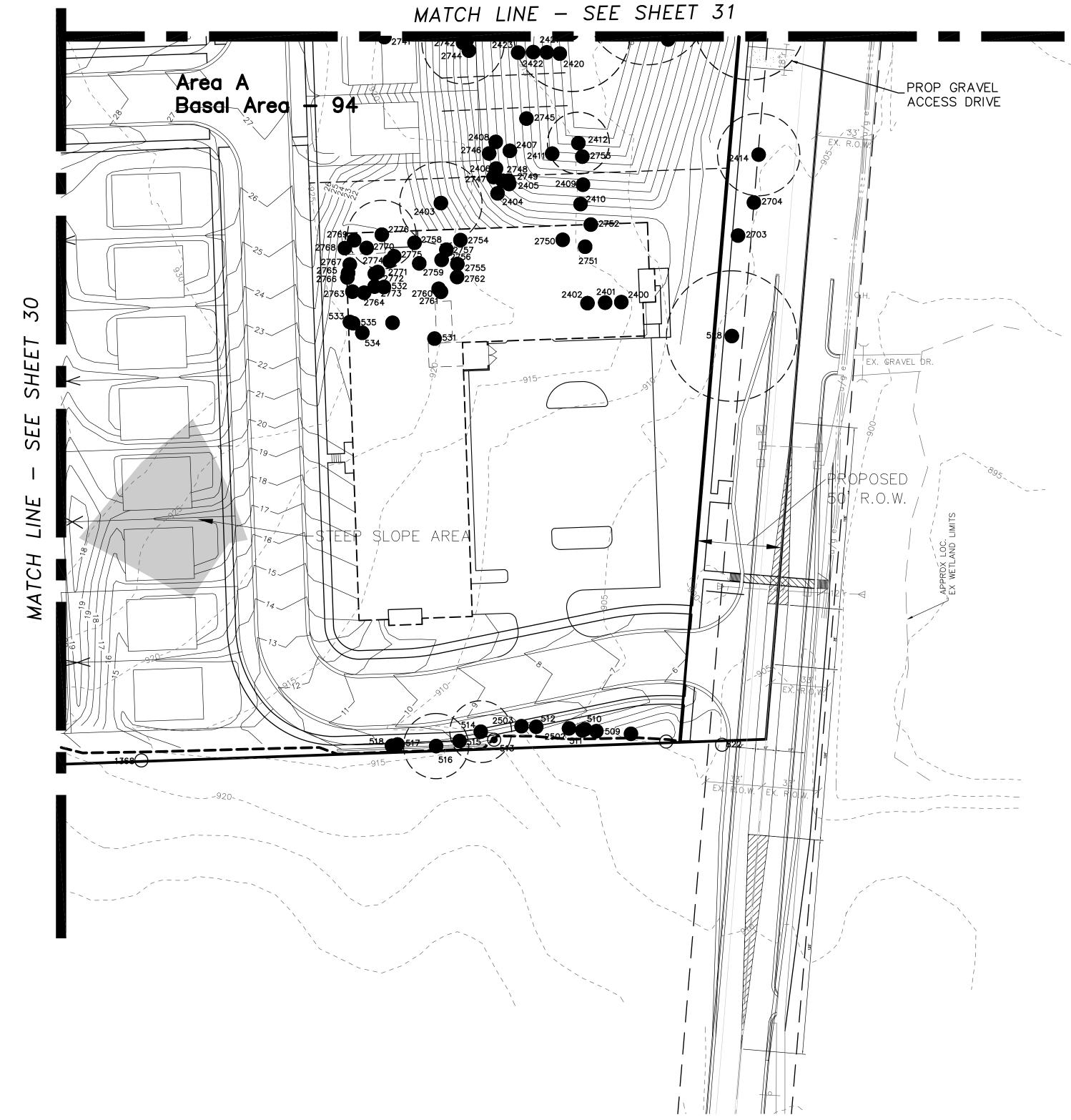
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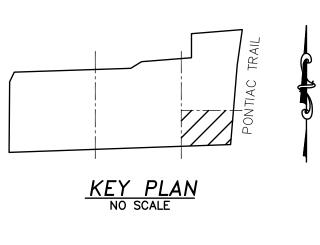
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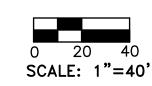
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VERIFIED BY GREENTECH ENGINEERING,



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72

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-4-15 PER CNTY REVIEW -7-15 PER CITY REVIEW -28-15 PER CITY REVIEW -2-15 UPDATED PLAN

-21-15 PFR CITY REVIEW

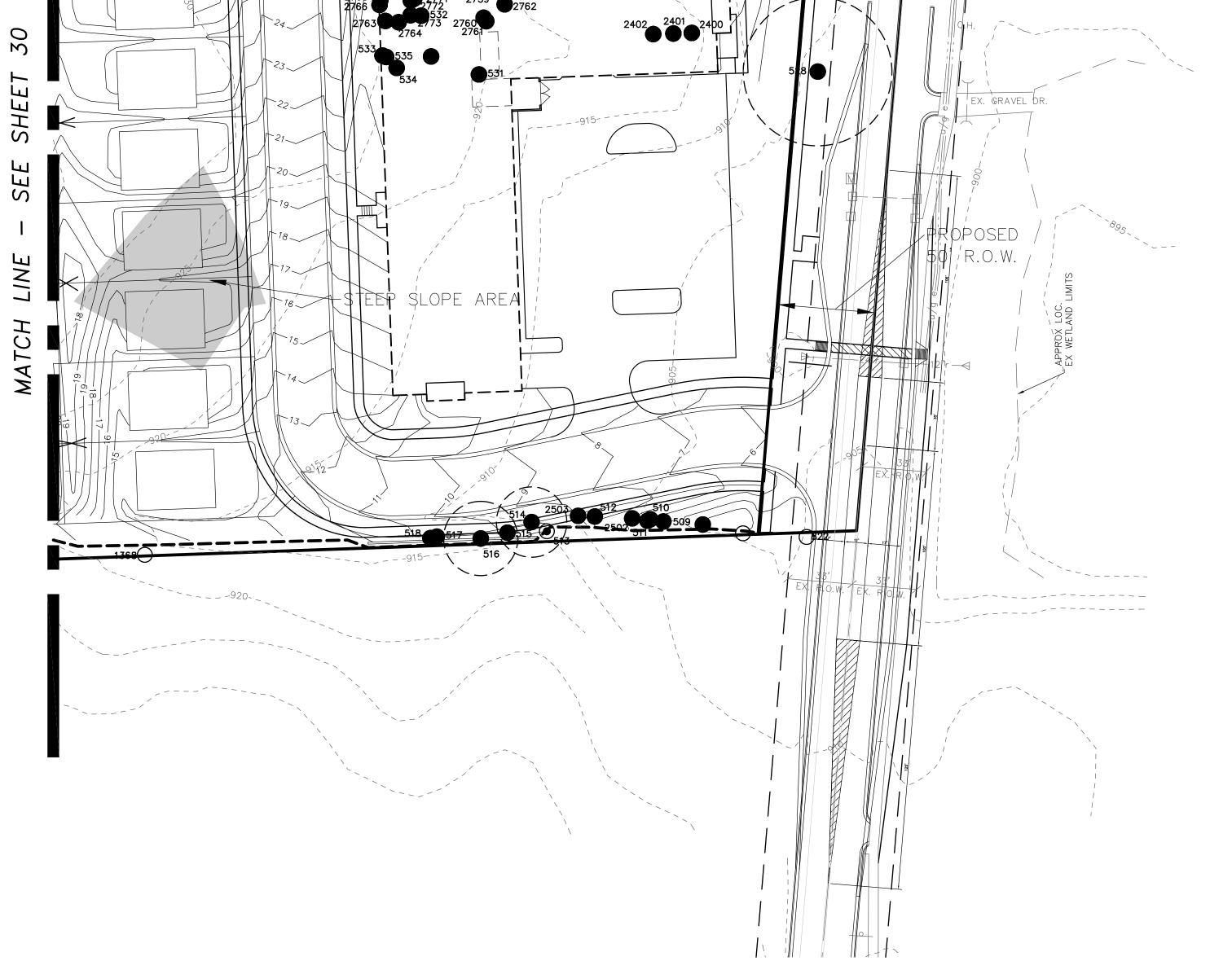
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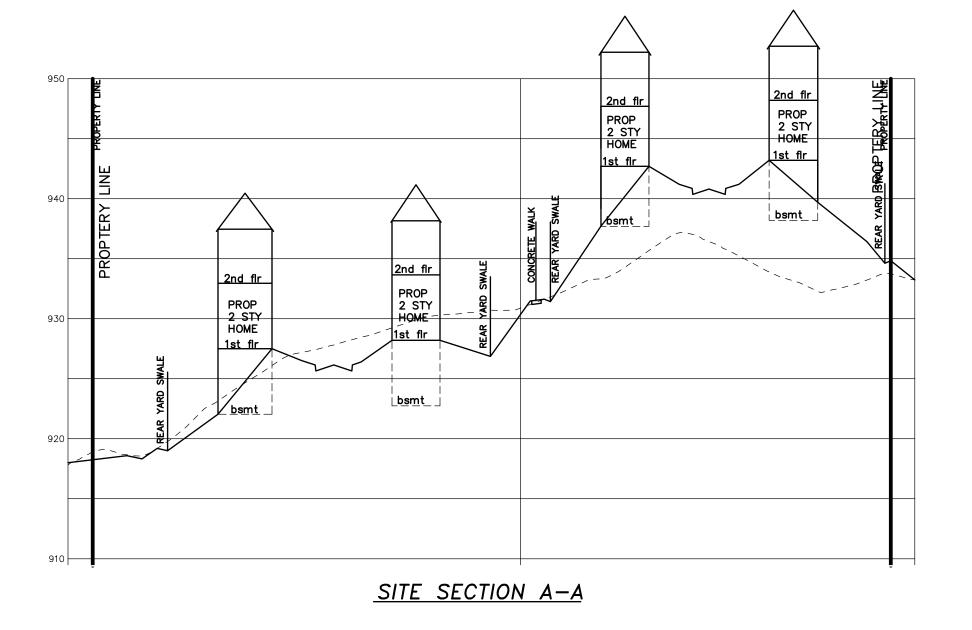
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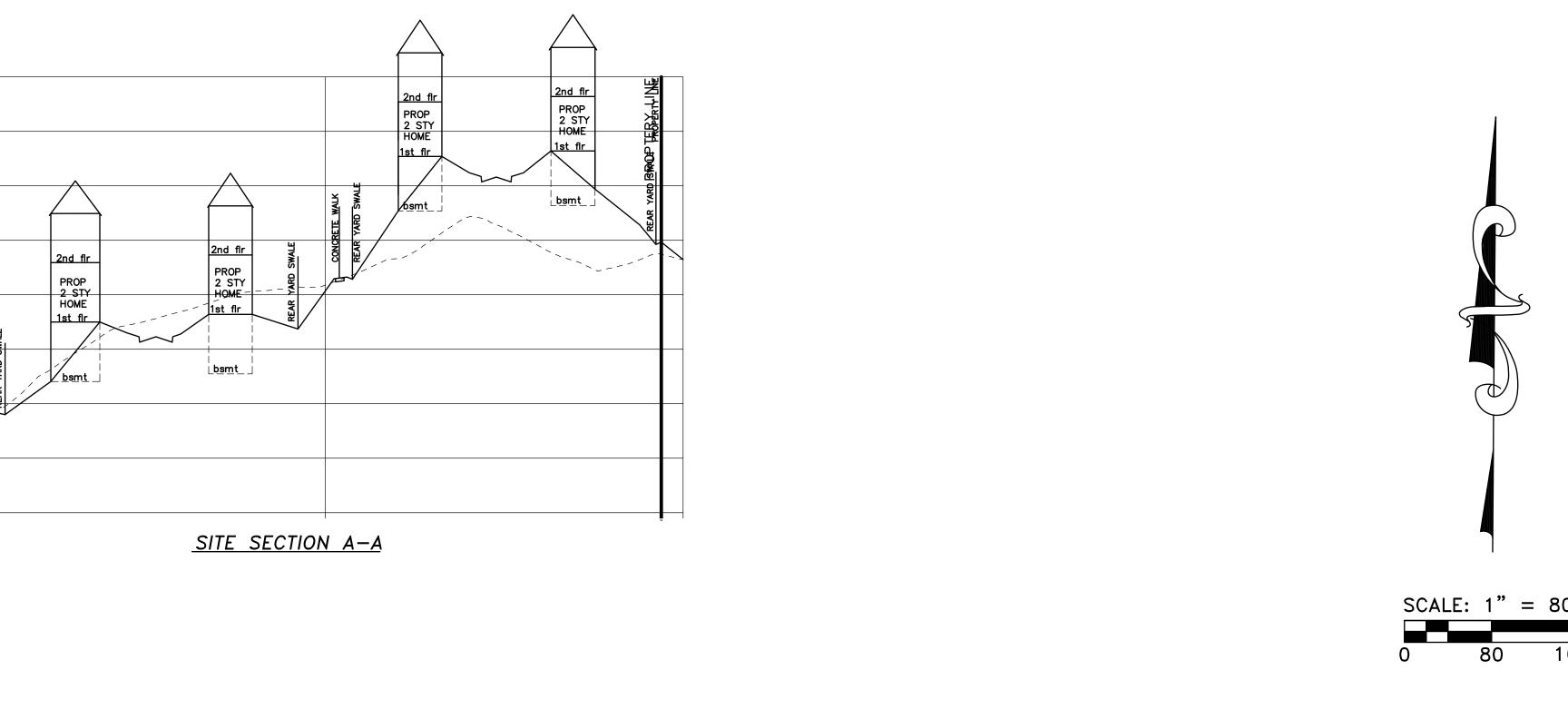
BEFORE YOU DIG CALL MISS DIG

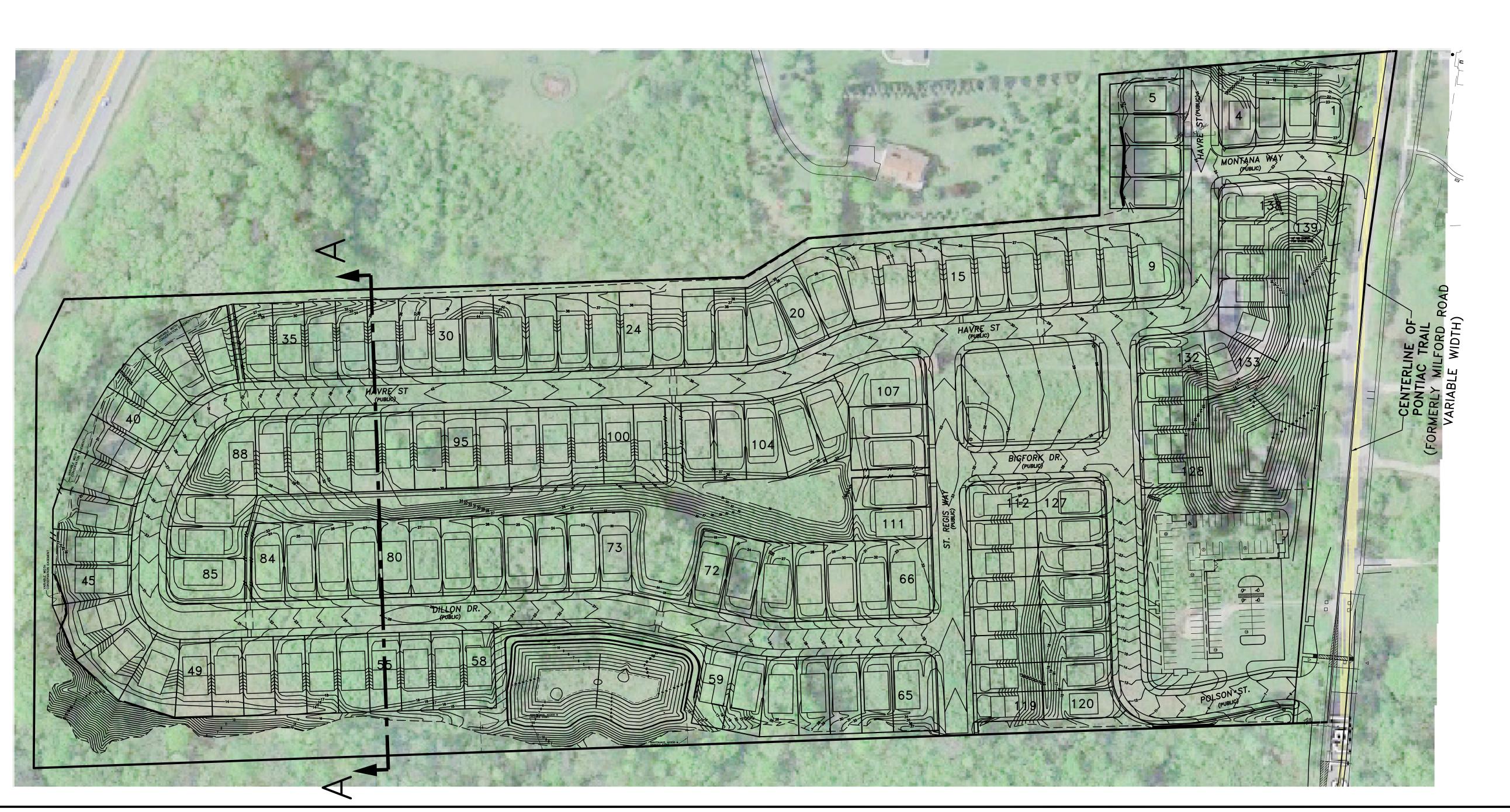
1-800-482-7171 (TOLL FREE)

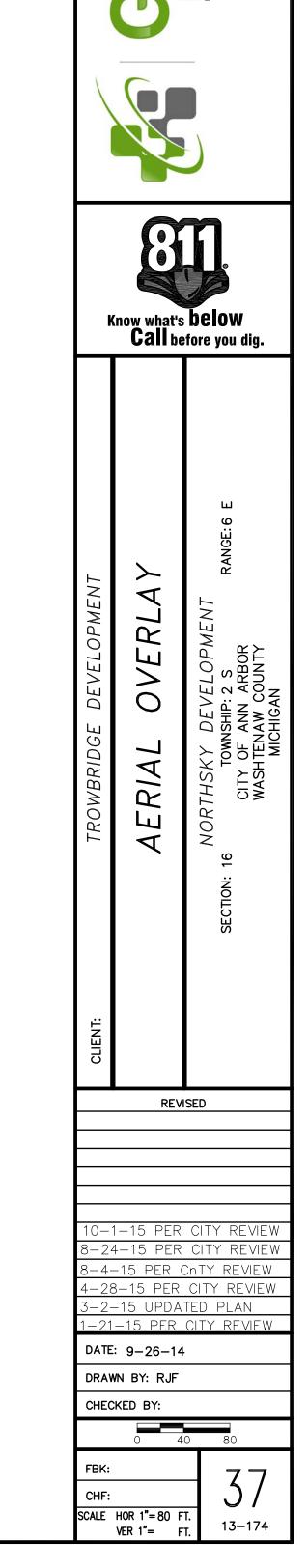
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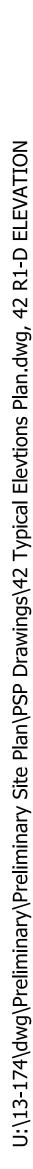














TYPICAL RESIDENTIAL ELEVATIONS

NOTES:

- MINIMUM AND MAXIMUM BUILDING SIZES TO COMPLY WITH ZONING REQUIREMENTS
- NO TWO OF THE SAME PLAN/ELEVATION COMBINATIONS AND/OR SAME COLOR PACKAGE CAN BE THE SAME NEXT TO ONE ANOTHER OR DIRECTLY ACROSS THE STREET.

Know what's **below Call** before you dig.

REVISED

1-19-15 PER CITY 0-1-15 PER CITY REVIEW -24-15 PER CITY REVIEW

-2-15 UPDATED PLAN -21-15 PER CITY REVIEW

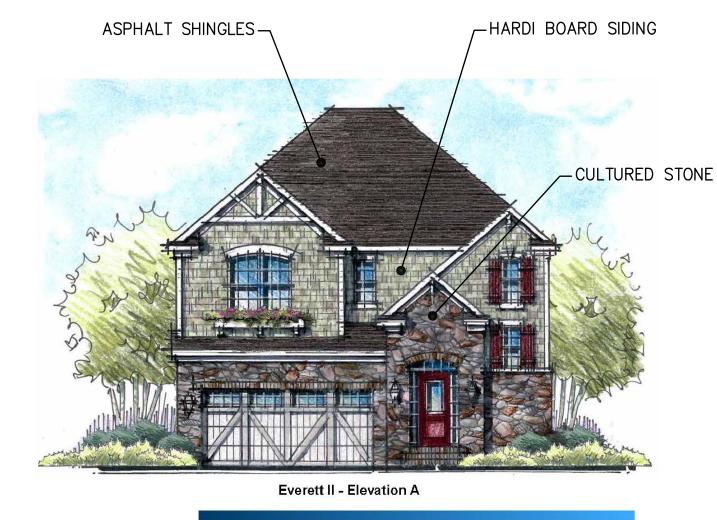
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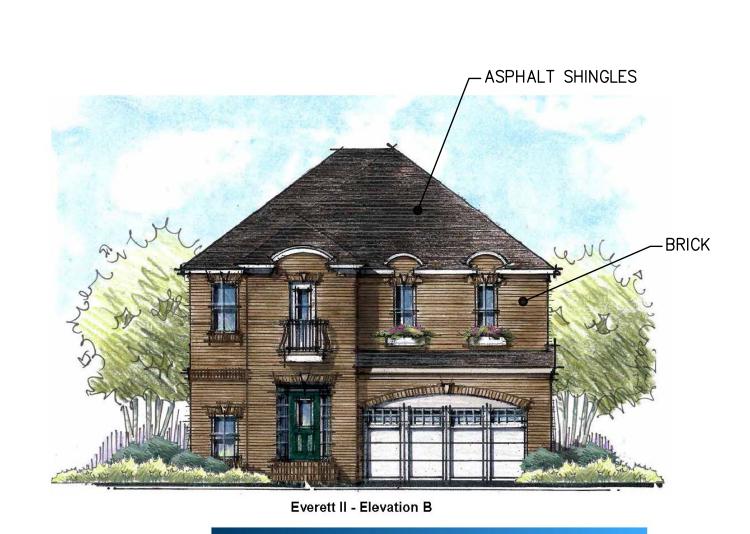
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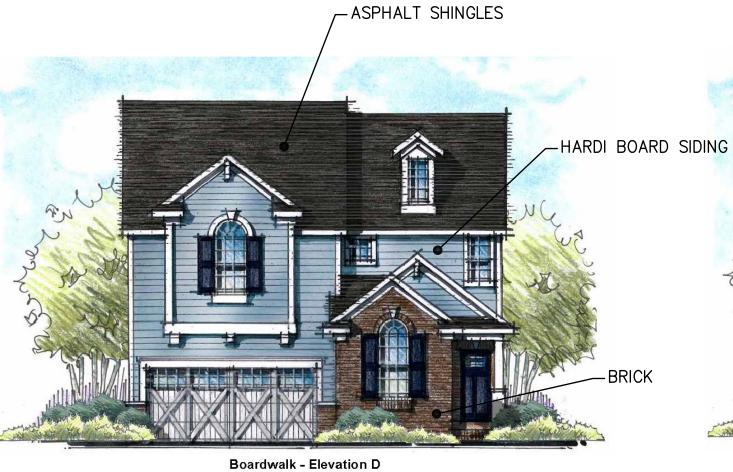
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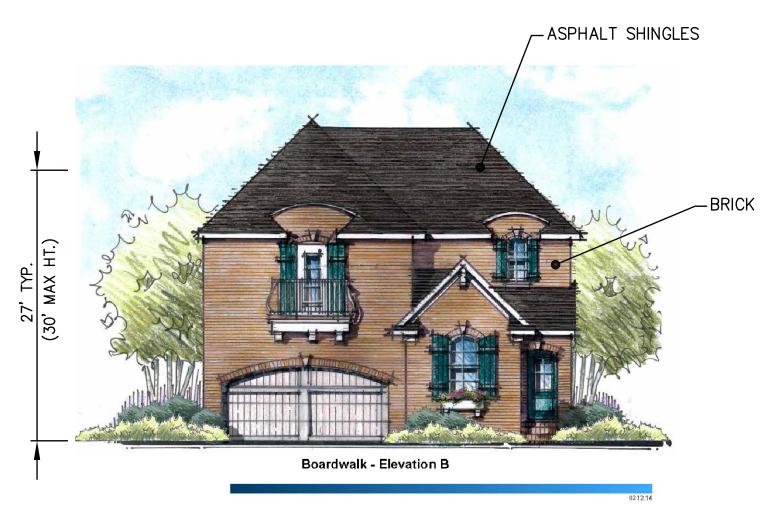


















TYPICAL RESIDENTIAL ELEVATIONS

## NOTES:

MINIMUM AND MAXIMUM BUILDING SIZES TO COMPLY WITH ZONING REQUIREMENTS

NO TWO OF THE SAME PLAN/ELEVATION COMBONINATIONS AND/OR SAME COLOR PACKAGE CAN BE THE SAME NEXT TO ONE ANOTHER OR DIRECTLY ACROSS THE STREET.





710NS (R1-D) ENTRANGE 6 F

ORTHSKY DEVELOPMENT
TOWNSHIP: 2 S
CITY OF ANN ARBOR

NORTHSKY SECTION: 16 CITY OF

REVISED

1-19-15 PER CITY
0-1-15 PER CITY REVIEW
3-24-15 PER CITY REVIEW
4-28-15 PER CITY REVIEW
3-2-15 UPDATED PLAN

-21-15 PER CITY REVIEW

DATE: 9-24-14

DRAWN BY: RJF
CHECKED BY:

FBK:

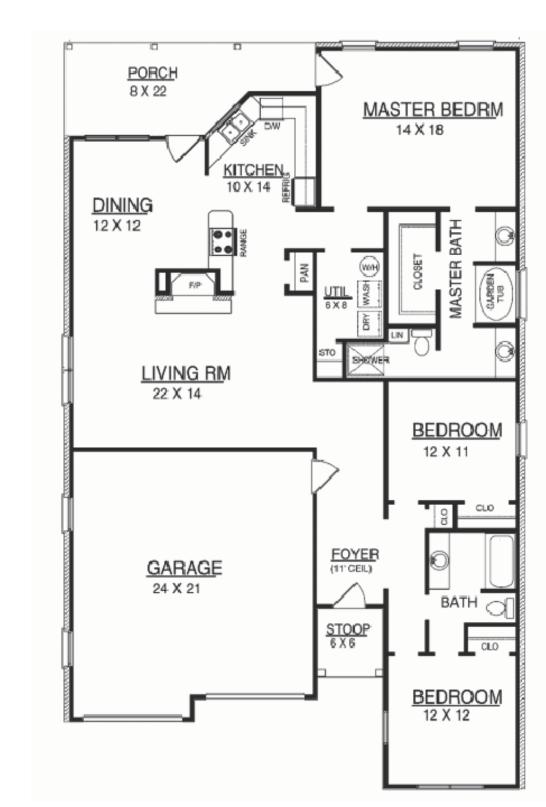
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SCALE HOR 1"= FT.

VER 1"= FT.

FT. 13-174

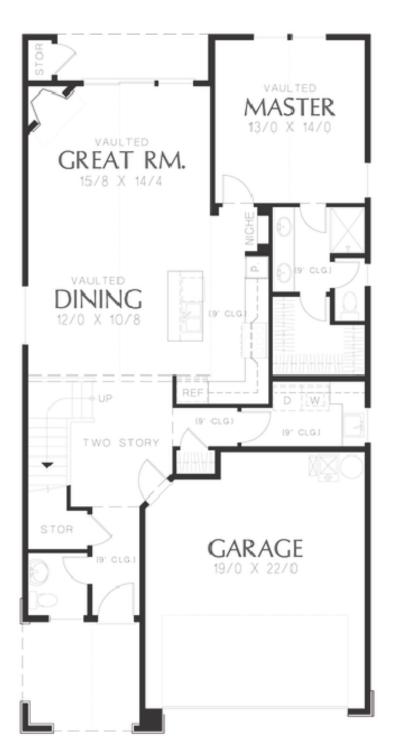




FIRST FLOOR



ELEVATIONS (TYP)



FIRST FLOOR



FLOOR PLANS (TYP)

## NOTES:

- MINIMUM AND MAXIMUM BUILDING SIZES TO COMPLY WITH ZONING REQUIREMENTS
- NO TWO OF THE SAME PLAN/ELEVATION COMBONINATIONS AND/OR SAME COLOR PACKAGE CAN BE THE SAME NEXT TO ONE ANOTHER OR DIRECTLY ACROSS THE STREET.



REVISED

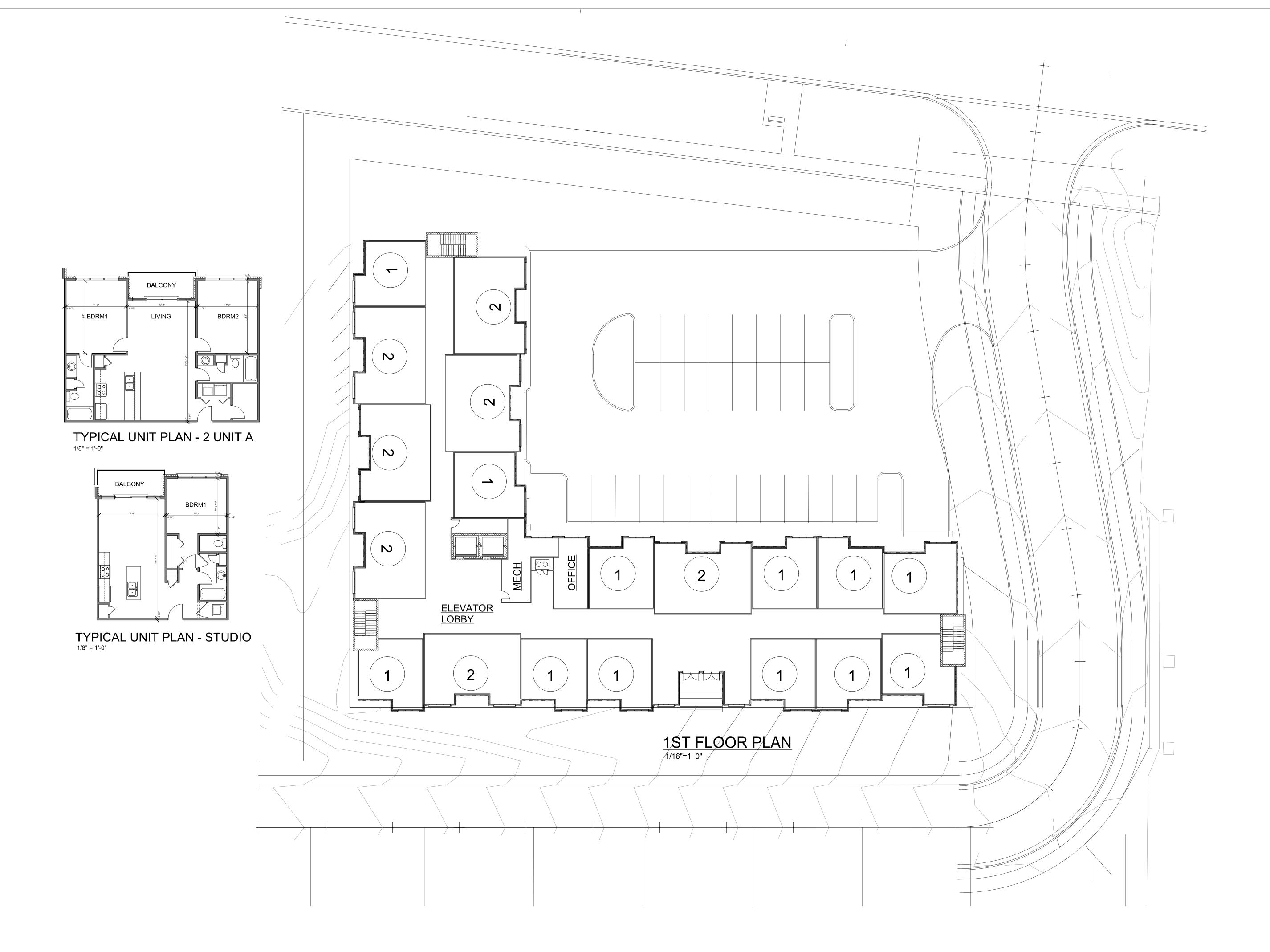
1-19-15 PER CITY 10-1-15 PER CITY REVIEW
3-24-15 PER CITY REVIEW

-2-15 UPDATED PLAN -21-15 PER CITY REVIEW

DATE: 9-24-14 DRAWN BY: RJF

CHECKED BY:

SCALE HOR 1"= FT. VER 1"= FT.



D'Anna Associates
Architecture | Engineering

1055 SOUTH BLVD. E, SUITE 200
ROCHESTER HILLS, MI 48307
P 248-852-7702 F 248-852-7707

dannaassoc.com

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■ SCHEMATIC
□ BIDDING

☐ MUNI SUBMITTAL
☐ CONSTRUCTION
☐ OTHER:

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 NO.
 DESC.
 DATE

 1
 SITE
 3-6-15

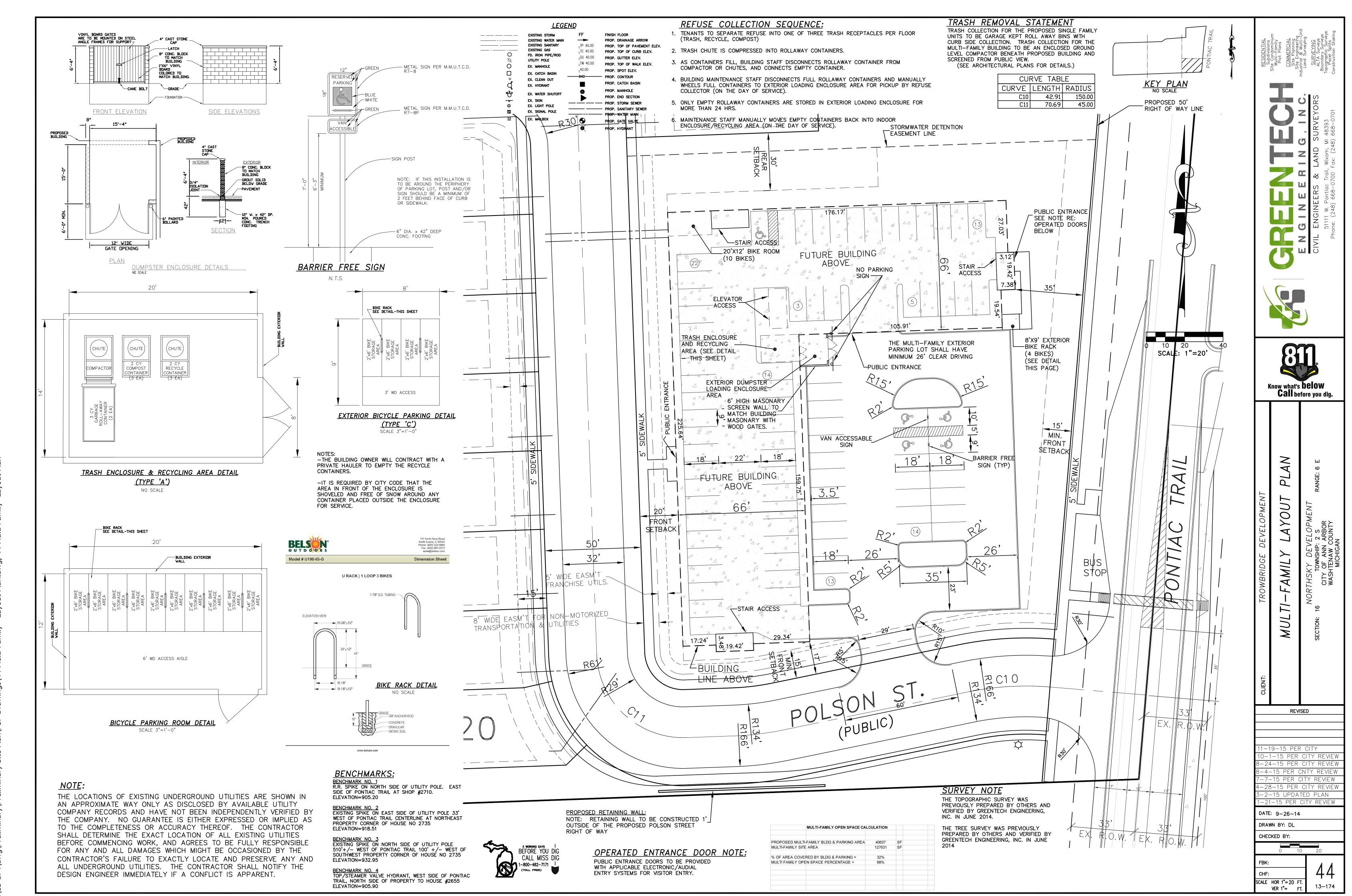
 2
 SITE
 4-22-15

 3
 SITE
 9-23-15

 4
 MUNI
 11-19-15

DB L.
CB P
SHEET

PROJECT NO. 14010



J:\13-174\dwa\Preliminarv\Preliminarv Site Plan\PSP Drawings\44 Multi-Family - Lavout Plan.dwg, 44 Multi Family- Lavout Plan







D'Anna Associates
Architecture | Engineering
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 1
 SITE
 3-6-15

 2
 SITE
 9-23-15

 3
 MUNI
 11-19-15

 4
 MUNI
 12-9-15

| ISSUE DATE | 01-01-15 | | DB | L.M. | CB | P.D. |

42F
PROJECT NO. 14010



## WEST ELEVATION 1/16"=1'-0"



SOUTH ELEVATION

Architecture | Engineering
1055 SOUTH BLVD. E, SUITE 200
ROCHESTER HILLS, MI 48307
P 248-852-7702 F 248-852-7707

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CONSTRUCTION

OTHER:

DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNLESS INDICATED

 NO.
 DESC.
 DATE

 1
 SITE
 3-6-15

 2
 SITE
 9-23-15

 3
 MUNI
 11-19-15

 4
 MUNI
 12-9-15

| SHEET | O1-01-15 | O

42G
PROJECT NO. 14010







Seal:

FF=917.00

25' Clear Vision (Typ.)

Plant List

sym. qty. botani-

QR 23 Quercus rubra TC 17 Tilia americana

UH 39 Ulmus princeton

COI 20 Celtis occidentalis

PG 35 Picea glauca PM 37 Picea mariana

PS 42 Pinus strobus

QRI 14 Quercus rubra TCI 26 Tilia americana

UHI 18 Ulmus princeton

Right of Way Screening

Trees Required

Trees Provided

Vehicular Use Area

Trees Required

Trees Required

Trees Required Trees Provided

Street Tree Escrow

Right of Way Length

Street Trees Required

Street Trees Provided

**Woodland Mitigation** 

Mitigation Required

Total Mitigation

Street Tree Escrow Required

Mitigation Required by Previous

3.0" Trees and 6' Evergreens

Total Trees to be Paid into Fund

**Total Mitigation Provided** 

Amount to be Paid into Fund

Replacement Provided:

Conflicting Use Buffer Buffer Length

Trees Provided

Trees Provided

Street Trees Street Frontage

Use Area

Visible Vehicular Use Length

Landscape Area Required

Landscape Area Provided

LTI 20 Liriodendron tulipifera

QMI 19 Quercus macrocarpa

LT 38 Liriodendron tulipifera

GT 26 Gletitsia triacanthos var. Inermis

174 Street Trees Shown Sheet L-1

231 Mitigation Trees Shown on Sheet L-1

Landscape Summary



caliper spacing root height
2.5" as shown B&B
2.5" as shown B&B
2.5" as shown B&B

2.5" as shown B&B

2.5" as shown B&B

2.5" as shown B&B

3.0" as shown B&B 3.0" as shown B&B

3.0" as shown B&B 3.0" as shown B&B 3.0" as shown B&B 3.0" as shown B&B

as shown B&B

as shown B&B

Thornless Honeylocust

American Linden

Red Oak

Hackberry Tulip Tree

Burr Oak

Red Oak American Linden

White Spruce

Black Spruce

Princeton Elm

5.1 Trees (154' / 30')

593 s.f. (11,874 / 20)

2.3 Trees (593 / 250)

247 Trees (9,878 / 40)

14 Trees (210 / 15)

\$1,248.00 (960 x \$1.30)

445 Trees (1,335" / 3")

754 Trees (2,261")

449 Trees (1,347")

305 - 3.0" Trees (959") \$76,250 (305 x \$250)

309 Trees (1,851" x 50%) / 3"

1,347" (60% on Site Mitigation)

21 Trees (960 / 45)

6 Trees

601 s.f.

3 Trees

9,878 l.f.

247 Trees

14 Trees

960 l.f.

21 Trees

11,874 s.f.

## Landscape Plan

Project:

North Sky Ann Arbor, Michigan

Prepared for:

Trowbridge Homes 2617 Beacon Hill Dr. Auburn Hills, MI 48326

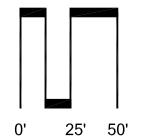
Revision:	Issued:
Review	September 17, 2014
Submission	September 26, 2014
Revised	January 19, 2015
Revised	March 3, 2015
Revised	April 22, 2015
Revised	July 10, 2015
Revised	August 5, 2015
Revised	August 25, 2015
Revised	October 5, 2015
Revised	November 20, 2015

Job Number:

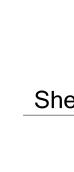
14-033

Checked By: Drawn By:

L-1

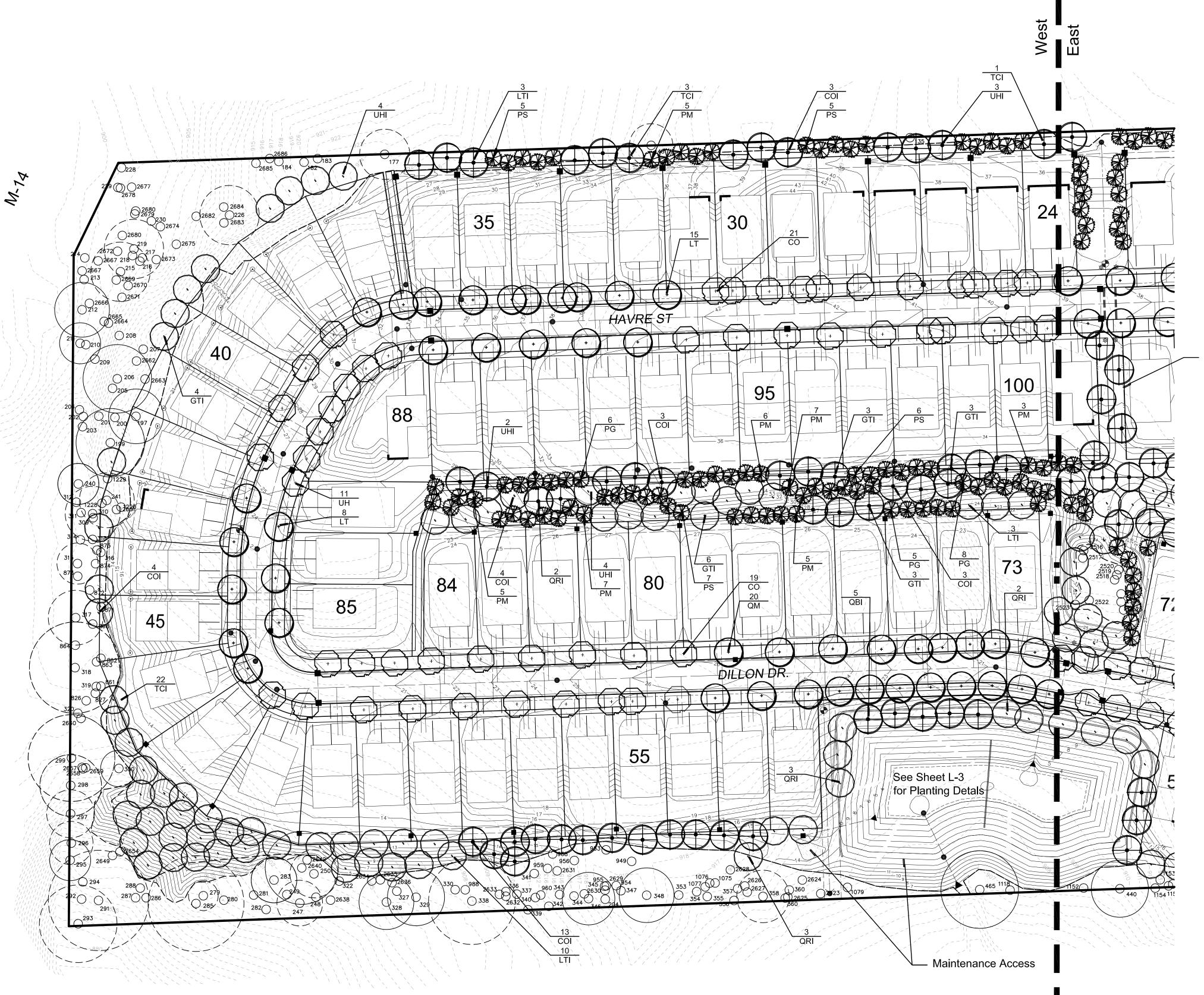






Sheet No.

Know what's **below. Call** before you dig.



- Split Rail Fence

## Plant List

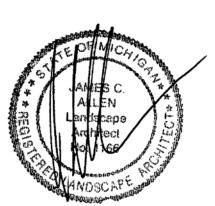
sym.	qty.	botanical name	common name	caliper	spacing	root	height
CO	40	Celtis occidentalis	Hackberry	2.5"	as shown	B&B	
LT	23	Liriodendron tulipifera	Tulip Tree	2.5"	as shown	B&B	
QM	20	Quercus macrocarpa	Burr Oak	2.5"	as shown	B&B	
UH	11	Ulmus princeton	Princeton Elm	2.5"	as shown	B&B	
	94	Street Trees Shown Sheet L-2					
Woodl	and M	itigation					
COI	30	Celtis occidentalis	Hackberry	3.0"	as shown	B&B	
GTI	19	Gletitsia triacanthos var. Inermis	Thornless Honeylocust	3.0"	as shown	B&B	
LTI	16	Liriodendron tulipifera	Tulip Tree	3.0"	as shown	B&B	
PG	19	Picea glauca	White Spruce		as shown	B&B	6'
PM	41	Picea mariana	Black Spruce		as shown	B&B	6'
PS	23	Pinus strobus	White Pine		as shown	B&B	6'
QBI	5	Quercus bicolor	Swamp White Oak	3.0"	as shown	B&B	
QRI	12	Quercus rubra	Red Oak	3.0"	as shown	B&B	
TCI	26	Tilia americana	American Linden	3.0"	as shown	B&B	
UHI	13	Ulmus princeton	Princeton Elm	3.0"	as shown	B&B	
	204	Mitigation Trees Shown on Sheet L-2					

- UTILITY BOXES ARE UNKNOWN AT THIS TIME. ONCE THE BOX LOCATIONS ARE KNOWN THEY WILL BE SCREENING ON 3 SIDES.
- ALL DISTURBED AREAS TO BE SOD OR SEED.
- ALL LANDSCAPE AREAS SHALL BE IRRIGATED.
- SNOW SHALL BE STORED IN BUILDING ISLANDS AND ALONG STREETS.
   STORAGE SHALL NOT INCLUDE DETENTION AREAS OR LANDSCAPED AREAS.
- THE STREET TREE ESCROW MUST BE PAID PRIOR TO ISSUING
  BUILDING PERMITS. CHECKS ARE TO MADE PAYABLE TO: CITY OF ANN
  ARBOR AND MAILED TO SYSTEMS PLANNING UNIT, 301 E. HURON ST.,
  PO BOX 8647, ANN ARBOR, MI 48107-8647 -- ATTN: KERRY GRAY.
  PLEASE INCLUDE THE PROJECT NAME AND PROJECT NUMBER ON THE
- TREES SHALL BE PLANTED 5'-8' FROM UTILITY LEADS.





Seal:



Title

## Landscape Plan

Project:

North Sky Ann Arbor, Michigan

Prepared for:

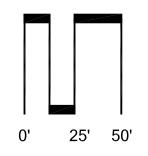
Trowbridge Homes 2617 Beacon Hill Dr. Auburn Hills, MI 48326

Revision:	Issued:
Review	September 17, 2014
Submission	September 26, 2014
Revised	January 19, 2015
Revised	March 3, 2015
Revised	April 22, 2015
Revised	July 10, 2015
Revised	August 5, 2015
Revised	August 25, 2015
Revised	October 5, 2015
Revised	November 20, 2015

Job Number:

14-033

Drawn By: Checked By:

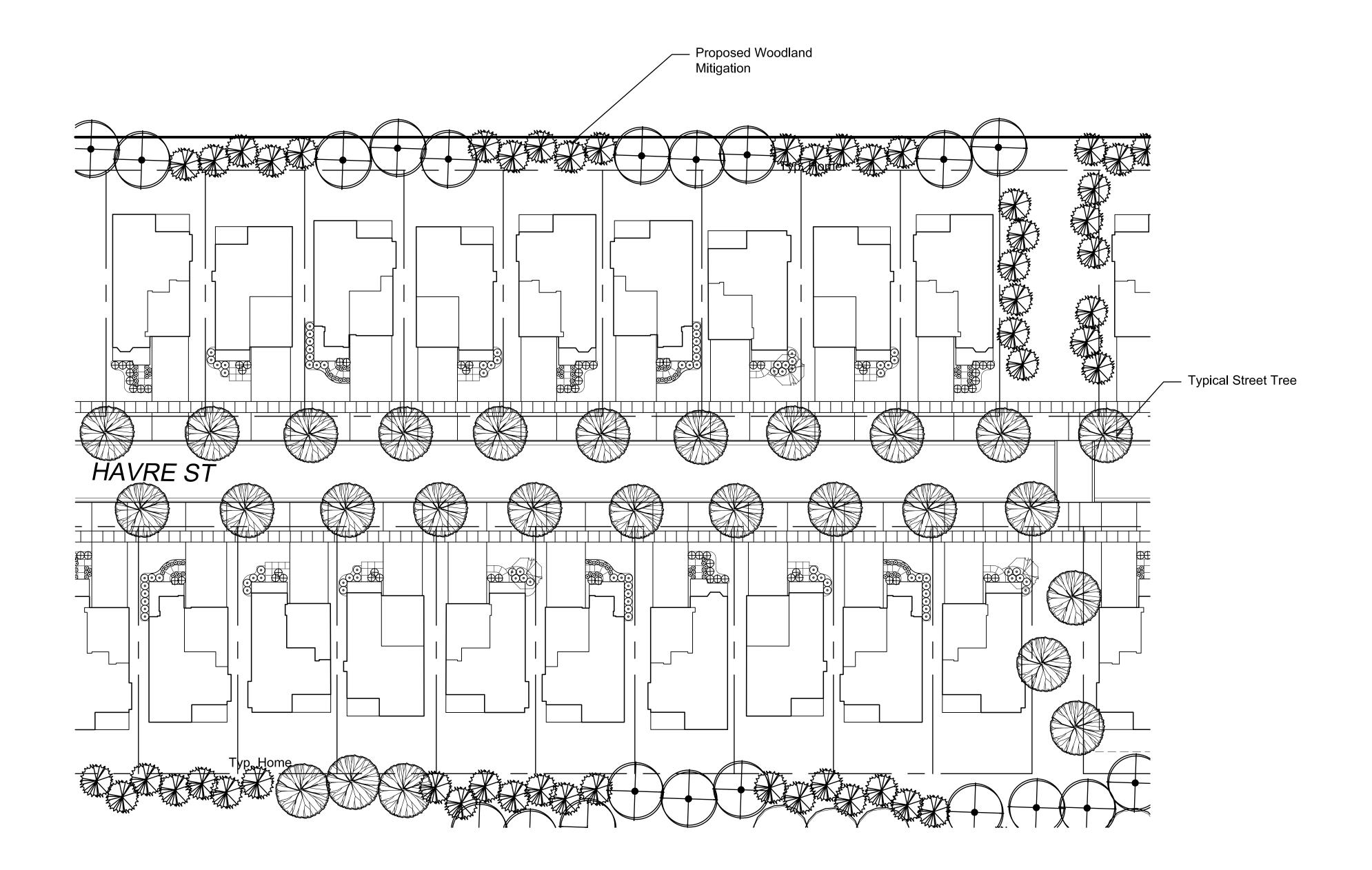




Know what's below.
Call before you dig.

Sheet No.

.-2

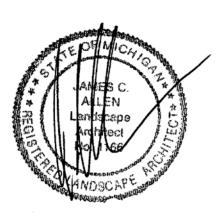








Seal:



## Typical Streetscape

Project:

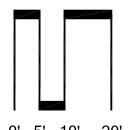
North Sky Ann Arbor, Michigan

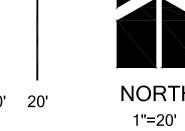
Prepared for:

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Sheet No.