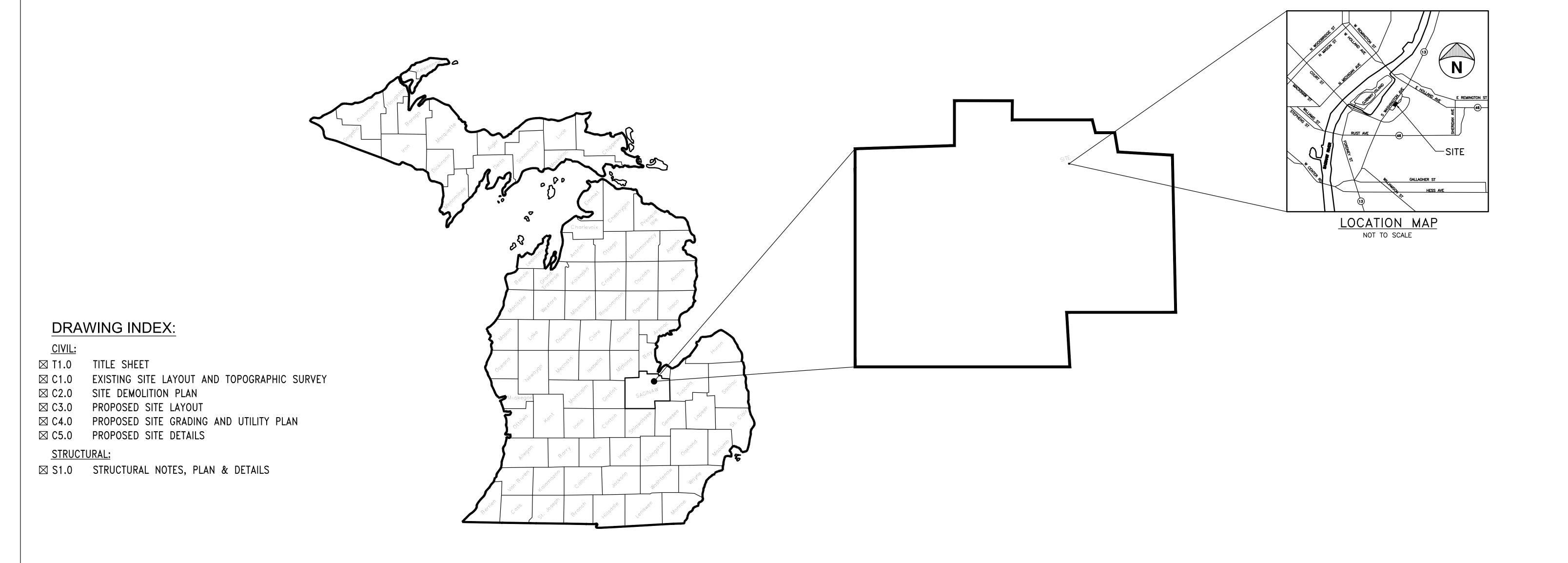
# SAGINAW COUNTY VETERANS MEMORIAL PLAZA VETERANS PLAZA EXPANSION SAGINAW, MICHIGAN





SINAW COUNTY VETERANS PLAZ TERANS PLAZA EXPANSION

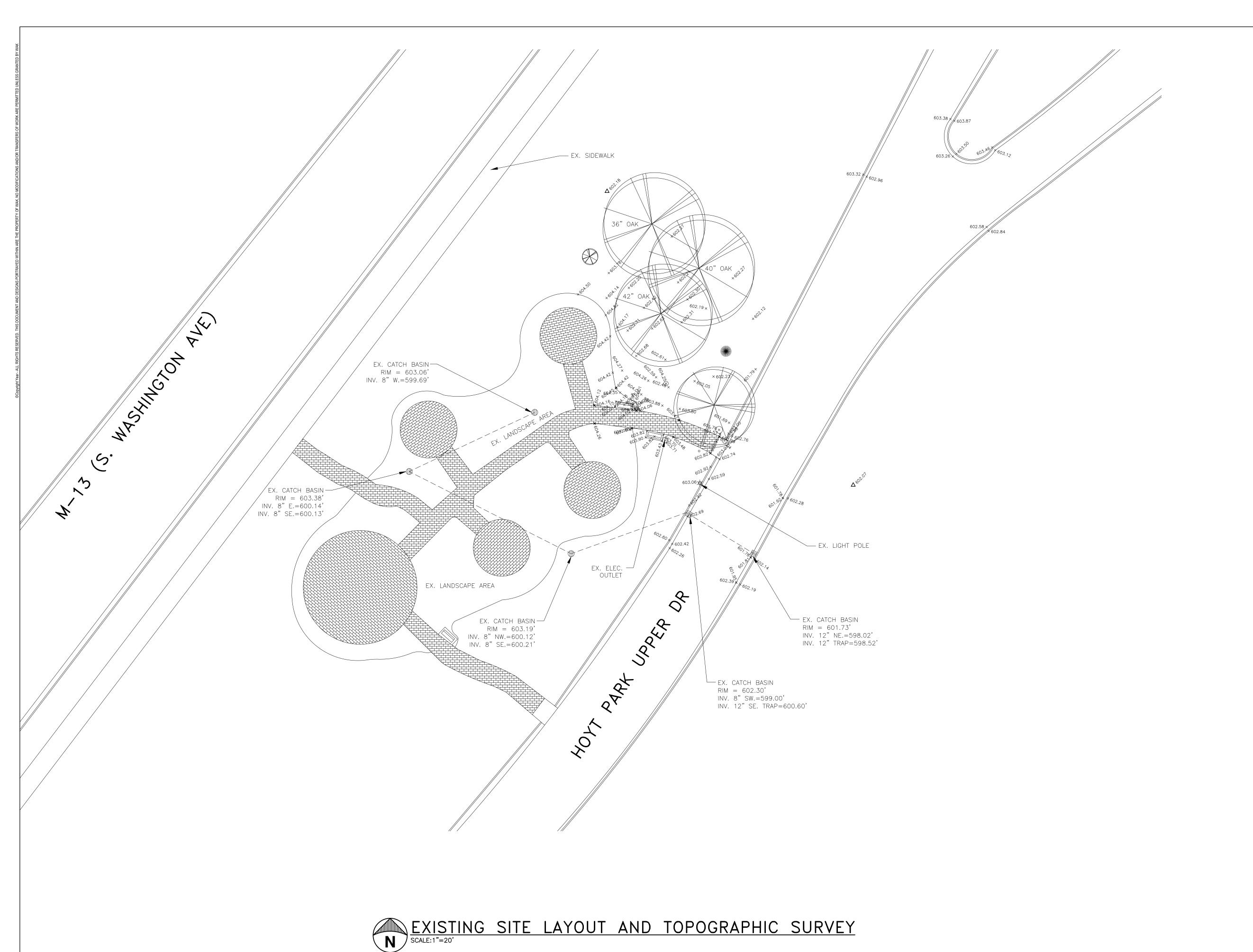
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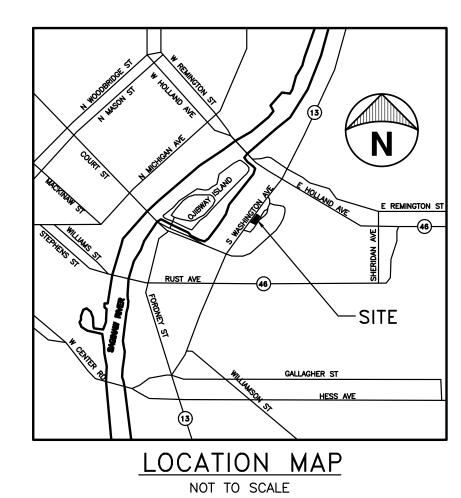
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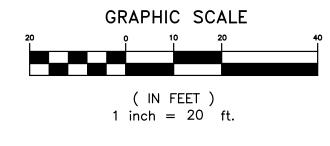
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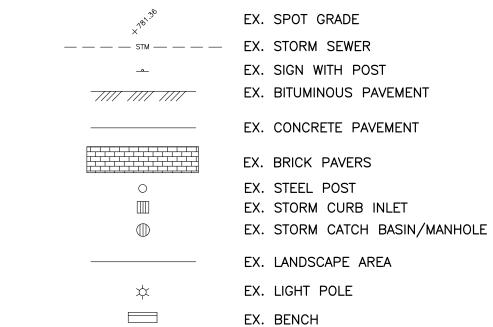
PRELIMINARY







# <u>LEGEND</u>



### **UTILITY CONTACTS**

TELEPHONE SERVICES AT&T ENGINEERING DEPT. ROOM 525 309 S. WASHINGTON AVENUE SAGINAW, MICHIGAN 48607

<u>PUBLIC UTILITIES</u> CITY OF SAGINAW ENGINEERING DEPT. 1435 S. WASHINGTON SAGINAW, MICHIGAN 48601 TEL. (989) 759-1410

(517) 791-5903 ZONING CITY OF SAGINAW

PLANNING DEPT. CITY HALL TEL. (989) 759-1303

GAS CONSUMERS ENERGY 2400 WEISS STREET

SAGINAW, MICHIGAN 48602

### **UTILITY NOTE**

THE UTILITY LOCATIONS AS HEREIN SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREIN SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" AT (811) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DESIGN AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.

# **BENCHMARK**

BM#300 - N.W. FLANGE BOLT ON HYDRANT E. SIDE OF M-13 S. ENTRANCE TO HOYT PARK ELEVATION = 604.58 (NAVD 88 DATUM)

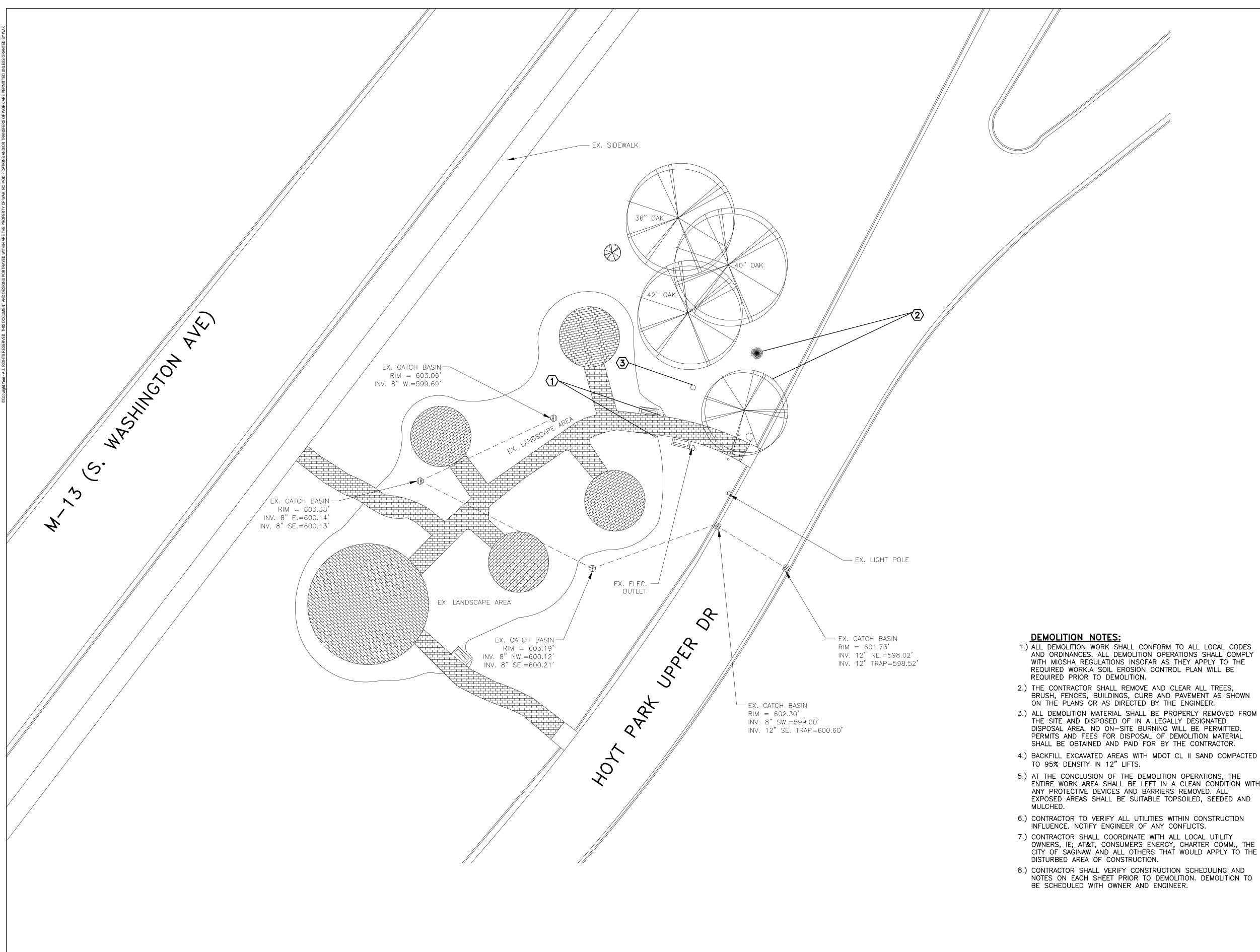


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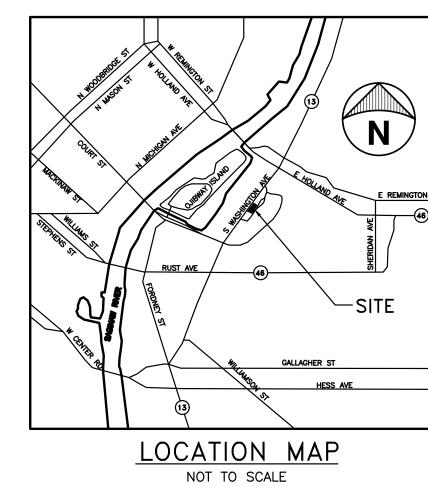
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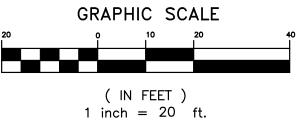
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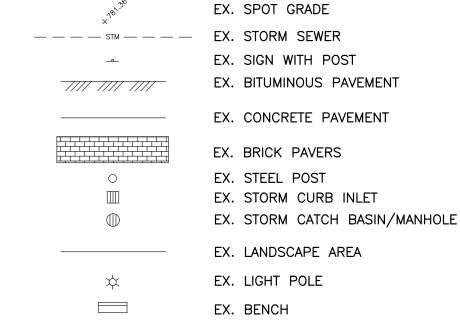








# **LEGEND**



EX. TRASH RECEPTACLE

**DEMOLITION NOTES:** 

REQUIRED PRIOR TO DEMOLITION.

TO 95% DENSITY IN 12" LIFTS.

DISTURBED AREA OF CONSTRUCTION.

BE SCHEDULED WITH OWNER AND ENGINEER.

AND ORDINANCES. ALL DEMOLITION OPERATIONS SHALL COMPLY

WITH MIOSHA REGULATIONS INSOFAR AS THEY APPLY TO THE

BRUSH, FENCES, BUILDINGS, CURB AND PAVEMENT AS SHOWN

REQUIRED WORK.A SOIL EROSION CONTROL PLAN WILL BE

ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE SITE AND DISPOSED OF IN A LEGALLY DESIGNATED

DISPOSAL AREA. NO ON-SITE BURNING WILL BE PERMITTED.

SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.

ANY PROTECTIVE DEVICES AND BARRIERS REMOVED. ALL

INFLUENCE. NOTIFY ENGINEER OF ANY CONFLICTS.

PERMITS AND FEES FOR DISPOSAL OF DEMOLITION MATERIAL

ENTIRE WORK AREA SHALL BE LEFT IN A CLEAN CONDITION WITH

EXPOSED AREAS SHALL BE SUITABLE TOPSOILED, SEEDED AND

OWNERS, IE; AT&T, CONSUMERS ENERGY, CHARTER COMM., THE

NOTES ON EACH SHEET PRIOR TO DEMOLITION. DEMOLITION TO

CITY OF SAGINAW AND ALL OTHERS THAT WOULD APPLY TO THE

BM#300 - N.W. FLANGE BOLT ON HYDRANT E. SIDE OF M-13 S. ENTRANCE TO HOYT PARK ELEVATION = 604.58 (NAVD 88 DATUM)

### **DEMOLITION KEYED NOTES:**

- RELOCATE EXISTING BOLLARDS PER SHEET C2.0

ENGINEERING DEPT. ROOM 525 309 S. WASHINGTON AVENUE SAGINAW, MICHIGAN 48607

PUBLIC UTILITIES
CITY OF SAGINAW ENGINEERING DEPT. 1435 S. WASHINGTON SAGINAW, MICHIGAN 48601 TEL. (989) 759-1410

PLANNING DEPT. CITY HALL TEL. (989) 759-1303

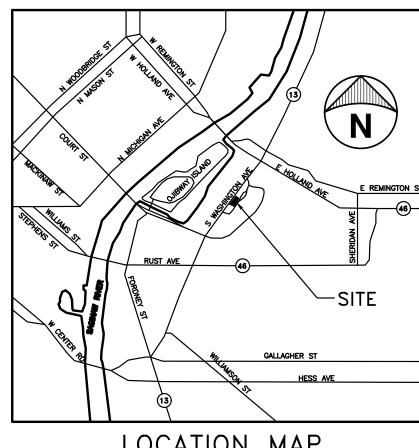
CONSUMERS ENERGY

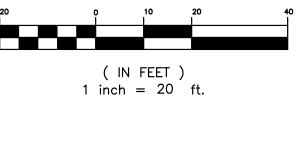
2400 WEISS STREET

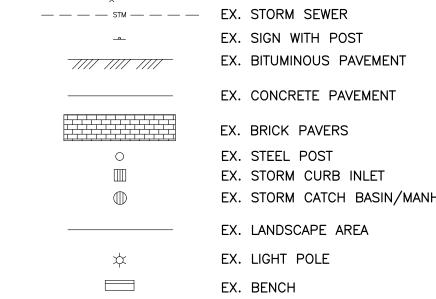
(517) 791-5903

SAGINAW, MICHIGAN 48602

### UTILITY NOTE







### **BENCHMARK**

- (2) REMOVE EXISTING TREE
- (3) REMOVE EXISTING STUMP

# <u>UTILITY CONTACTS</u>

TELEPHONE SERVICES AT&T

ZONING CITY OF SAGINAW

THE UTILITY LOCATIONS AS HEREIN SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREIN SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" AT (811) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NÓTIFY THE ENGINEER OF DESIGN AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.



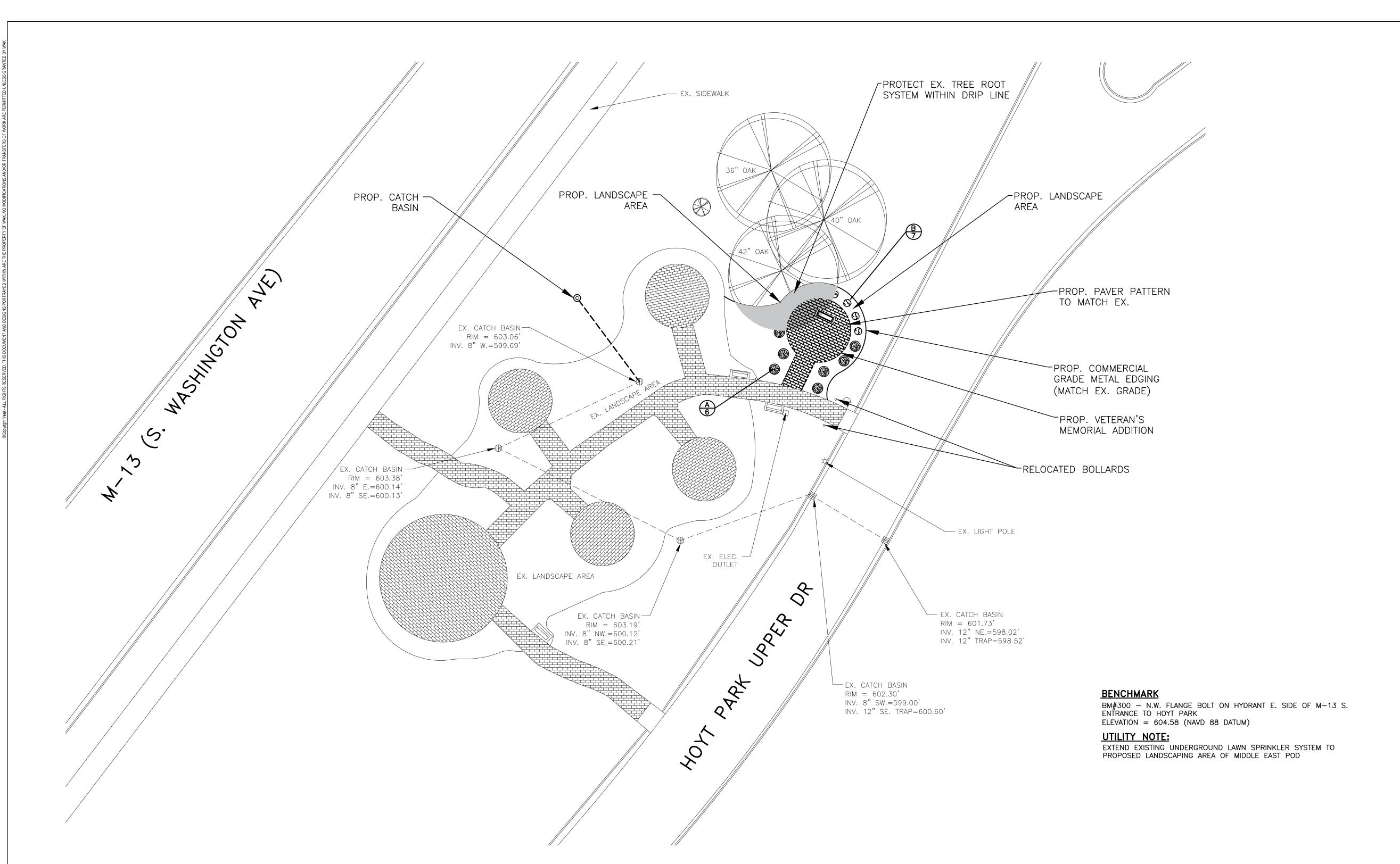
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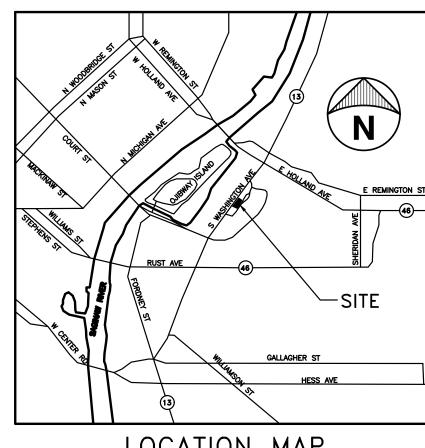




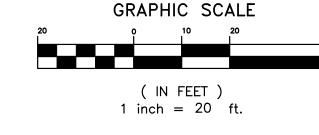
### **LANDSCAPING**

	GENERAL PLANTING SCHEDULE							
KEY	SYMBOL	NAME	QTY	MIN. PLANT SIZE				
A		BURNING BUSH (EUONYMUS ALATUS)	6	3 FOOT HIGH				
В		DENSE SPREADING YEW (TAXUS DENSIFORMIS)	7	4 FOOT DIA.				

NOTE: TREE SYMBOLS SHOWN ON PLAN VIEW ARE APPROX. DRIP EDGE SIZE OF MATURITY OF SPECIMEN.



LOCATION MAP NOT TO SCALE



### **LEGEND**

stm	EX. STORM SEWER
	EX. SIGN WITH POST
	EX. BITUMINOUS PAVEMENT
	EX. CONCRETE PAVEMENT
	EX. BRICK PAVERS
0	EX. STEEL POST
	EX. STORM CURB INLET
	EX. STORM CATCH BASIN/MANHOLE
	EX. LANDSCAPE AREA
*	EX. LIGHT POLE
	EX. BENCH
$\bigcirc$	EX. TRASH RECEPTACLE
	PROP. LANDSCAPED AREA
<del></del>	PROP. EXPANSION
	PROP. BRICK PAVERS

### **GENERAL NOTES:**

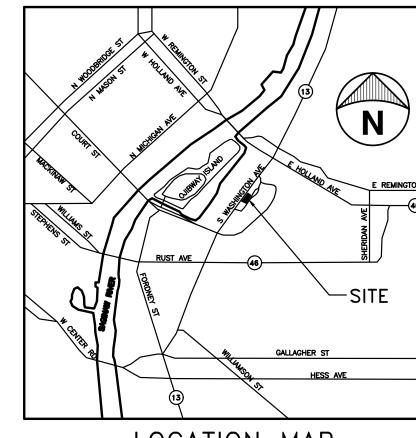
- 1. THE CONTRACTOR SHALL CALL "MISS DIG" (811) 3 WORKING DAYS BEFORE DIGGING ON THE PROJECT TO VERIFY EXISTING UNDERGROUND UTILITIES.
- 2. THE EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DRAWN IN ACCORDANCE TO THE INFORMATION PROVIDED. UTILITIES SHALL BE FIELD LOCATED BY THE CONTRACTOR PRIOR TO CROSSING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 3. DURING THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL CONFORM TO ACT No. 451, PUBLIC ACTS OF 1994, RELATIVE TO THE SOIL EROSION AND SEDIMENTATION CONTROL ACT.
- 4. CLEANUP SHALL INCLUDE DEBRIS REMOVAL, ROUGH GRADING, MINIMUM 4" TOPSOIL PLACEMENT, SEEDING, AND FERTILIZING OVER ANY AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS.
- 5. CONTRACTOR TO SUPPLY MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.
- 6. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. COSTS FOR LOCATING, REMOVING, REPLACING OR RELOCATING THESE UTILITIES SHALL BE INCIDENTAL TO CONSTRUCTION. UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH LIKE MATERIAL AT NO ADDITIONAL COST TO THE OWNER.
- 7. CONTRACTOR SHALL NOTIFY PROPER GOVERNMENTAL INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- 8. THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP CONSTRUCTION FOR EXTENDED PERIODS ONCE CONSTRUCTION HAS BEGUN.
- 9. THE CONTRACTOR SHALL MAINTAIN IN SERVICE, EXISTING SANITARY SEWER, WATER OR STORM SEWER SERVICE CONNECTIONS WHENEVER POSSIBLE. COORDINATE WITH LOCAL UTILITY COMPANY AND OWNER BEFORE UTILITIES SHALL BE OUT OF SERVICE FOR A PERIOD OF TIME.
- 10. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING AND/OR GRADING OPERATIONS.
- 11. SEE GRADING PLAN FOR PAVEMENT GRADES AND UTILITY NOTES. STORM DRAINAGE SHALL CONFORM TO THE LATEST STANDARDS OF THE CITY OF SAGINAW.



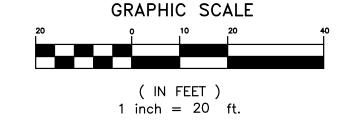
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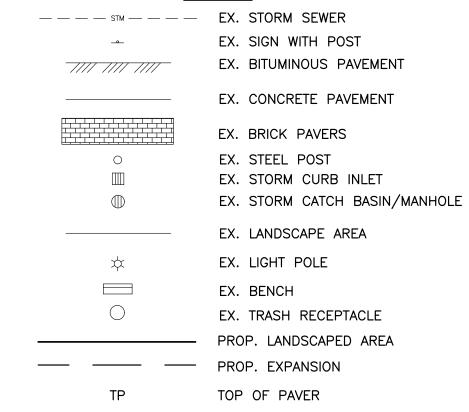




LOCATION MAP NOT TO SCALE



# **LEGEND**



PROP. SPOT ELEVATION

### **GENERAL GRADING NOTES:**

- 1.) THE CONTRACTOR SHALL CALL "MISS DIG" (811) 3 WORKING DAYS BEFORE DIGGING ON THE PROJECT TO VERIFY EXISTING
- IN ACCORDANCE TO THE INFORMATION PROVIDED. ALL UTILITIES SHALL BE FIELD LOCATED BY THE CONTRACTOR PRIOR TO CROSSING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE
- CONFORM TO ACT No. 451, PUBLIC ACTS OF 1994, RELATIVE TO THE SOIL EROSION AND SEDIMENTATION CONTROL ACT.
- 4.) MATCH EXISTING BIT. PAVEMENT ALONG NEW WALKS AND PROPOSED NEW BIT. PAVEMENT AREAS WHERE APPLICABLE.
- ROLLING TO PRODUCE A SURFACE SATISFACTORY FOR THE INSTALLATION OF BASE COURSE AND PAVING. 6.) THE SITE EXCAVATION CONTRACTOR SHALL VERIFY THE EXISTING
- 7.) REMOVE EXISTING TOP SOIL FROM AREAS TO BE PAVED AND
- 8.) BACKFILL ALL TRENCHES UNDER SLABS, WALKS AND PAVED AREAS WITH COMPACTED SAND BACKFILL MDOT CL.II. COMPACTION SHALL BE
- 9.) ALL ON SITE UTILITY SERVICES SHALL MEET THE REQUIREMENTS OF STANDARD DETAILS OF THE CITY OF SAGINAW
- 10.) THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL REGULATIONS FOR WORK AT THE SITE. THIS SHALL INCLUDE MIOSHA REGULATIONS.
- BUILDING PERMITS, LOCAL PERMITS AND PAY ALL CHARGES FOR ANY INSPECTION AND TESTING.
- 12.) THE CONTRACTOR SHALL CONTROL NOISE, CARRY OUT A PROGRAM OF DUST CONTROL AND SHALL ALLOW NO ON-SITE BURNING.
- PREMISES AND UPON COMPLETION OF THE PROJECT LEAVE THE SITE IN AN ACCEPTABLE CONDITION AS DETERMINED BY THE ENGINEER OR THE OWNER.
- THE CITY OF SAGINAW, IF APPLICABLE.

784

- UNDERGROUND UTILITIES.
- 2.) THE EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DRAWN ENGINEER.
- 3.) DURING THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL

5.) ALL ENGINEERED FILL SHALL BE ADEQUATELY COMPACTED BY

- SANITARY AND STORM SEWER CONNECTION DEPTH PRIOR TO ANY
- REPLACE WITH SUITABLE COMPACTED FILL. FILL MATERIAL SHALL BE COMPACTED SAND BACKFILL CLASS II GRANULAR.
- 95% MAXIMUM UNIT WEIGHT AS DETERMINED BY MODIFIED PROCTOR.
- 11.) THE CONTRACTOR/DEVELOPER SHALL PAY FOR AND OBTAIN ALL
- 13.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE
- 14.) ALL WATER SERVICES MATERIALS SPECIFIED SHALL BE APPROVED BY



**PRELIMINARY** 

Y VETERANS I EXPANSION

COUNTY PLAZA I

SAGINAW CO VETERANS F SAGINAW, MICHIGAN

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GRADING

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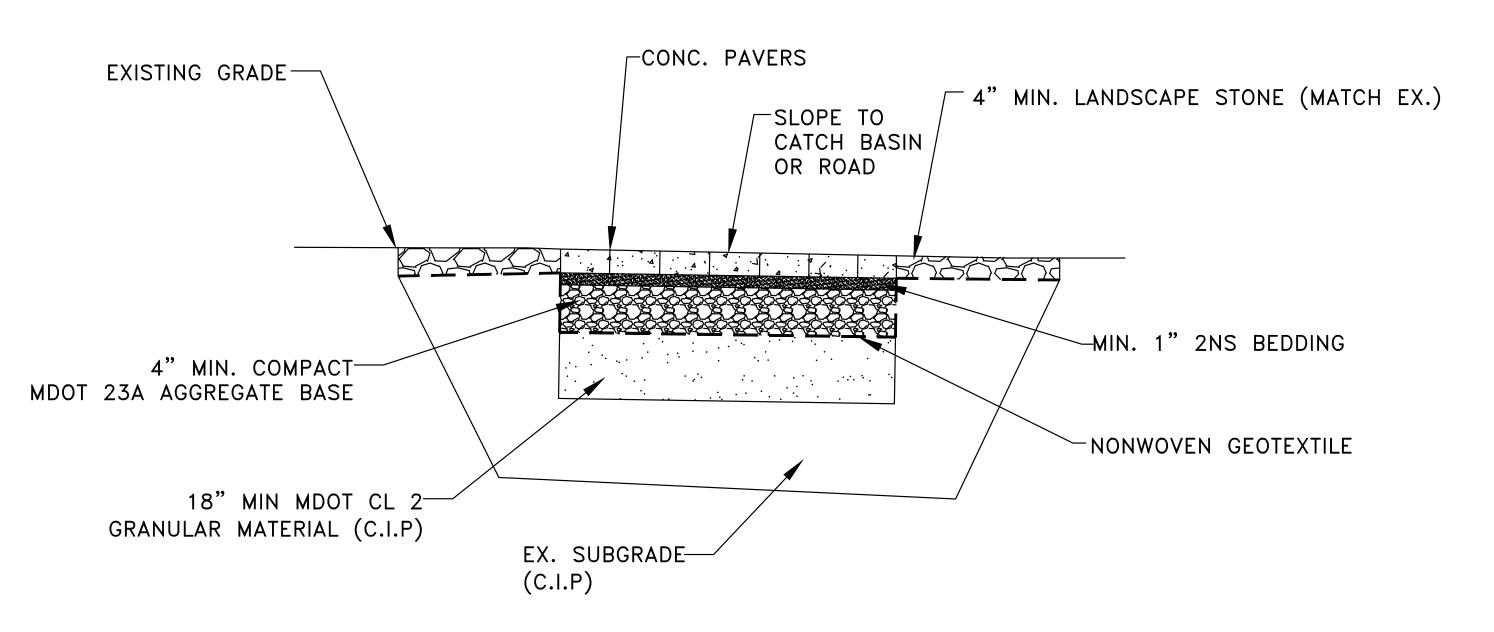
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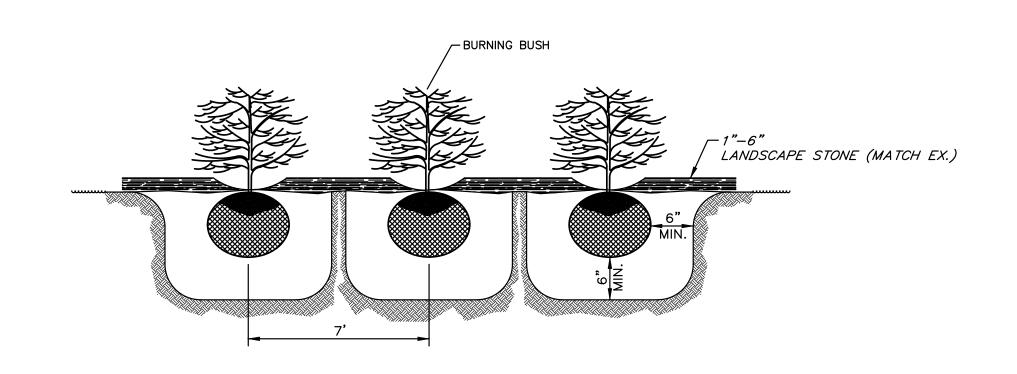
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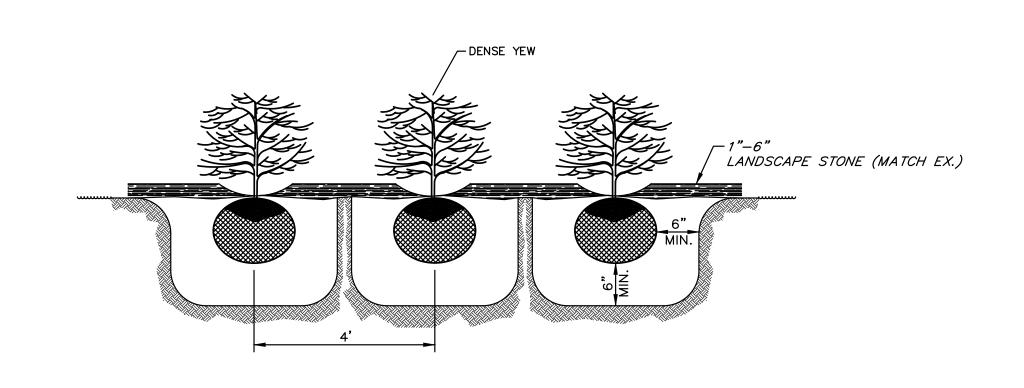
# CONCRETE PAVER CROSS SECTION

NOT TO SCALE



# SHRUB INSTALLATION (GROUPED)

NOT TO SCALE



# SHRUB INSTALLATION (GROUPED)

NOT TO SCALE

### STRUCTURAL GENERAL NOTES

- 1. THIS STRUCTURE HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, 2015 EDITION.
- 2. THE OWNER WILL EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE MICHIGAN BUILDING CODE, EXCEPT AS NOTED BELOW. SPECIAL INSPECTIONS WILL BE PERFORMED FOR THE

### A. SOILS. B. CONCRETE.

- 3. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS, THE OWNERS REQUIREMENTS FOR ACCESS TO THE SITE AND CONTINUED OPERATIONS DURING CONSTRUCTION.
- 4. THE PLAN, DETAIL DIMENSIONS & ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM AVAILABLE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH DIMENSIONS, ELEVATIONS & DETAILS AS NECESSARY AND MAKE APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL.
- 5. THE CONTRACTOR SHALL SUBMIT CONCRETE REINFORCING SHOP DRAWINGS PRIOR TO FABRICATION. THE CONTRACTOR SHALL ALSO SUBMIT MATERIAL REQUIREMENTS AND CONCRETE MIX DESIGNS. ALLOW (2) WEEKS FOR ENGINEER REVIEW.
- 6. THE STRUCTURE SHALL BE CONSIDERED TO BE IN AN UNSTABLE CONDITION UNTIL COMPLETED. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR STABILITY AND TO RESIST LATERAL LOADS DURING ERECTION.

### **DIVISION 3 - CONCRETE**

- 1. THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING, FABRICATION AND CONSTRUCTION OF ALL REINFORCED CONCRETE:
- A. AMERICAN CONCRETE INSTITUTE (ACI) ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- B. ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE.
- C. ACI 315, DETAILS & DETAILING OF CONCRETE REINFORCEMENT.
- 2. REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING ASTM MATERIAL SPECIFICATIONS.
- A. DEFORMED BAR REINFORCING: ASTM A615 GRADE 60.
- 3. ALL CONCRETE (INCLUDING FOUNDATION WALLS & FOOTINGS) SHALL BE AS FOLLOWS:
- A. MINIMUM 28-DAY COMPRESSIVE STRENGTH (fc) = 4500 PSI.
- B. SLUMP = 3" TO 5".
- C. WATER/CEMENTITIOUS RATIO = 0.45. D. AIR ENTRAINMENT =  $6\% \pm 1\%$ . (PER ACI 301 BASED ON AGGREGATE SIZE AND
- EXPOSURE CATEGORY) E. EXPOSURE CLASSES = F2, S0, W0, & C1.
- 4. CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY. A SET OF (3) CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED FOR COMPRESSION STRENGTH AT 7 AND 28 DAYS OR EVERY 50 CUBIC YARDS OF CONCRETE CAST (MINIMUM OF (1) SET PER DAY OF CASTING). ALSO SLUMP AND UNIT WEIGHT TESTS SHALL BE PERFORMED EVERY OTHER TRUCK LOAD. CONTRACTOR MADE CONCRETE TEST CYLINDERS ARE NOT ACCEPTABLE.

### **DIVISION 31 - FOUNDATIONS/BACKFILL**

- 1. CONTRACTOR SHALL REVIEW A COPY OF THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
- 2. FOUNDATIONS ARE DESIGNED FOR A MAXIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. FOUNDATIONS SHALL BEAR ON NATURAL UNDISTURBED SOILS OR ON
- 3. THE OWNER WILL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO MONITOR THE FOUNDATION WORK AND DETERMINE THE QUALITY OF THE SOIL AT ALL FOOTING LOCATIONS. IF UNSUITABLE MATERIALS ARE ENCOUNTERED AT THE FOOTING LOCATIONS, THE UNSUITABLE SHALL BE REMOVED AND REPLACED OR THE FOOTINGS LOWERED AT THE DIRECTION OF THE ENGINEER.
- 4. THE CONTRACTOR SHALL BE AWARE OF AND VERIFY LOCATION OF ALL UNDERGROUND UTILITIES, TANKS, ETC. DUE CARE SHALL BE EXERCISED DURING EXCAVATION SUCH THAT EXISTING UTILITIES ARE NOT DAMAGED.
- 5. ALL EXCAVATED MATERIAL SHALL BE TRANSPORTED TO A DISPOSAL AREA DESIGNATED BY THE OWNER ALL EXCAVATIONS SHALL CONFORM TO MI-OSHA REQUIREMENTS. ANY PERCHED GROUNDWATER ENTERING THE EXCAVATION SHALL BE PUMPED PRIOR TO PLACING CONCRETE.
- 6. ALL BACKFILL MATERIALS SHALL CONFORM TO MDOT CLASS II MATERIAL. ALL BACKFILL SHALL BE PLACED IN 9" LOOSE LIFTS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR). FIELD DENSITY TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D-2922 OR D-1556 WITH A MINIMUM OF 1 TEST PER 1500 SQ FEET OF AREA PER 9" LIFT (MINIMUM OF (3) TEST PER LIFT).

### **DESIGN CRITERIA**

MICHIGAN BUILDING CODE 2015 (ASCE 7-10) RISK CATEGORY II.

### WIND LOADS

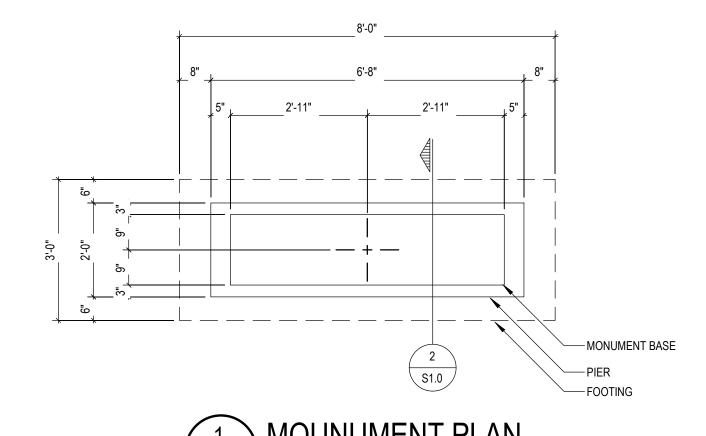
115 MPH (3 SEC GUST) BASIC WIND SPEED EXPOSURE CATEGORY

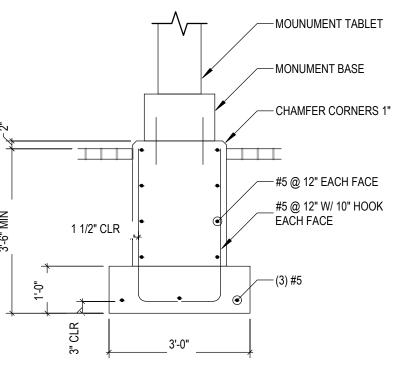
### SEISMIC DESIGN DATA

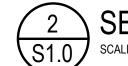
SEISMIC DESIGN CATEGORY

 SITE CLASS RESPONSE COEFFICIENTS

 $SD_{S} = 0.07$  $SD_1 = 0.063$ 







VETERANS OUNTY PLAZA I SAGINAW CO VETERANS F

R. HODGES DES'D BY: R. HODGES DRAWN BY: PROJ #: 19-2738-0282

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