



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

NOTE: EXISTING UTILITIES AND SERVICE LINES IDENTIFIED AS "PLANS" WERE OBTAINED FROM AVAILABLE AS-BUILT RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND STATUS OF ALL UTILITIES AND SERVICE LINES PRIOR TO NEW CONNECTIONS.

# SOUTHTOWN BY 4M

## CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

# SITE PLAN

### SITE SUMMARY NOTES

#### A. PETITION FOR SITE PLAN

REZONING IS REQUESTED FROM R4C TO C1A/R TO INCREASE THE DENSITY AND USE OF THE SITE. THE SOUTH AREA PLAN AS PART OF ANN ARBOR'S COMPREHENSIVE PLAN RECOMMENDS THE PARCELS ON STIMSON BE USED FOR RESIDENTIAL AND COMMERCIAL PURPOSES. BOTH R4C AND C1A/R INTEND TO BE CLOSE TO CAMPUS AND COMMERCIAL DISTRICTS. THE C1A AND C1A/R DISTRICTS HAVE THE LEAST DIMENSIONAL STANDARDS FOR MIXED USE ZONING IN THE UNIFIED DEVELOPMENT CODE. TO RESPOND TO THE CONTEXT OF THE SITE, ADDITIONAL CONDITIONS ARE PROPOSED INCLUDING A HEIGHT LIMIT OF 90', PARKING MAXIMUMS, AND REQUIRED ACTIVE OPEN SPACE.

#### B. DEVELOPMENT PROGRAM

**I. DESCRIPTION:**  
THE PROPOSED DEVELOPMENT WILL HAVE 216 RESIDENTIAL UNITS, REPLACING 38 EXISTING UNITS. THE UNITS WILL BE A MIX OF STUDIO, ONE, AND TWO BEDROOM. THE SITE HAS BEEN PLANNED TO UTILIZE THE ROOF OF THE GROUND FLOOR AS AN EXTENSION OF LANDSCAPING AND ACTIVE, OUTDOOR SPACE WITH EXTERIOR ACCESS THROUGH THE SOUTH, EAST, AND NORTH SIDEWALK CONNECTIONS OF THE SITE. TWO CURB CUTS ON WHITE STREET WILL PROVIDE LOADING, UNLOADING, AND DROP-OFF/PICK-UP AREAS FOR DELIVERIES, VISITORS, AND RESIDENTS AND AN ENTRY TO THE GROUND FLOOR PARKING. ONE CURB CUT ON HENRY WILL PROVIDE AN AREA FOR SOLID WASTE PICKUP. ALL PARKING IS COVERED AND WITHIN THE INTERIOR OF THE GROUND FLOOR.

#### II. PROPOSED PHASING & PROBABLY CONSTRUCTION COSTS:

THE SITE IS TO BE DEVELOPED IN ONE PHASE, SCHEDULED TO BEGIN ONCE APPROVALS ARE SECURED. CONSTRUCTION COSTS ARE CURRENTLY ESTIMATED TO BE BETWEEN \$60-70 MILLION.

#### C. COMMUNITY ANALYSIS

**I. IMPACT OF PROPOSED DEVELOPMENT ON AREA SCHOOLS:**  
THE PROPOSED SOUTHTOWN DEVELOPMENT WILL NOT IMPACT PUBLIC ELEMENTARY OR HIGH SCHOOLS.

**II. RELATIONSHIP OF INTENDED USE TO NEIGHBORING USES:**  
THE PROPERTY TO THE NORTH OF THE SITE IS PUD FOR AFFORDABLE MULTI-FAMILY HOUSING. THE PROPERTY TO THE EAST OF THE SITE IS R4C AND R3 FOR MARKET RATE AND AFFORDABLE MULTI-FAMILY HOUSING. THE PROPERTY TO THE SOUTH OF THE SITE IS C3 SINGLE STORY COMMERCIAL RETAIL. THE PROPERTY TO THE WEST OF THE SITE IS PL PUBLIC LAND FOR THE UNIVERSITY OF MICHIGAN GOLF COURSE. THE MAJORITY OF THE SURROUNDING PROPERTY IS RESIDENTIAL NEIGHBORHOOD AND LOW DENSITY COMMERCIAL INCLUDING O OFFICE ZONING TO THE NORTH AND C3 COMMERCIAL FOR MUCH OF THE SOUTH AREA.

THE PROJECT WILL BE MARKETED PRIMARILY TO STUDENTS AND YOUNG PROFESSIONALS INTERESTED IN A CONVENIENT LOCATION TO DOWNTOWN ANN ARBOR AND THE UNIVERSITY OF MICHIGAN CAMPUS WITH MULTI-MODAL TRANSPORTATION OPTIONS. THE PROPOSED DEVELOPMENT WILL NOT IMPACT PUBLIC SCHOOLS, AIR, OR WATER QUALITY, AND THERE ARE NO NATURAL FEATURES ON THE SITE. THERE ARE NO HISTORIC DISTRICTS, SITES, OR STRUCTURES NEAR OR ON THE SITE.

THE EXISTING BUILDINGS ARE PROPOSED TO BE REMOVED. THE PROPOSED DEVELOPMENT OF RESIDENTIAL AND COMMERCIAL WITH RETAIL AND OFFICE IS CONSISTENT WITH THE CURRENT USES IN THE NEIGHBORHOOD AND SURROUNDING AREA.

**III. IMPACT OF ADJACENT USES ON THE PROPOSED DEVELOPMENT:**  
IMPACTS ARE LIMITED AS PROPOSED USES (OFFICE, RETAIL, DAYCARE AND RESIDENTIAL) ARE LIKE USES FOUND IN THE EXISTING NEIGHBORHOOD.

**IV. IMPACT OF PROPOSED DEVELOPMENT ON AIR AND WATER QUALITY, AND ON THE EXISTING NATURAL FEATURES OF THE SITE AND NEIGHBORING SITES:**

a. THERE WILL BE NO NEGATIVE IMPACT TO AIR QUALITY.

b. THE AREA THAT MAKES UP THIS PROJECT IS CURRENTLY DEVELOPED AND HAVE NO STORM WATER DETENTION FACILITIES. THE PROPOSED STORM WATER DETENTION SYSTEM IS DESIGNED TO PRE-TREAT, DETAIN, AND RELEASE THE RUNOFF AT A CONTROLLED RATE. WATER QUALITY CONTROLS WILL BE IMPLEMENTED TO ENSURE THAT RUNOFF DURING CONSTRUCTION IS CONTROLLED AND MANAGED.

c. THE PROPOSED DEVELOPMENT REQUIRES THE REMOVAL OF LANDMARK TREES. ALTERNATIVE ANALYSIS WAS PERFORMED AND IS PROVIDED ON SHEET C-202.

d. THERE ARE NO ENDANGERED SPECIES HABITATS, FLOODPLAINS, WATER COURSES, WETLANDS, STEEP SLOPES, OR WOODLANDS WITHIN THE PROJECT AREA. NO MITIGATION IS REQUIRED.

**V. IMPACT OF THE PROPOSED USE ON HISTORIC SITES/STRUCTURES:**  
NO HISTORIC STRUCTURES EXIST ON-SITE. THE SITE ITSELF IS NOT HISTORIC.

**VI. TRAFFIC STATEMENT:**  
THE PROPOSED SOUTHTOWN DEVELOPMENT (MULTI-FAMILY HOUSING [MID-RISE] PER ITE CODE 221) WILL INCLUDE 216 RESIDENTIAL UNITS.

- THE ESTIMATED TRIP GENERATION (PER ITE MANUAL) IS 1,137 TRIPS (WEEKDAY AVERAGE DAILY TRIPS)
- THE TOTAL AM PEAK HOUR = 98 (VPH)
- THE TOTAL PM PEAK HOUR = 97 (VPH)

**VII. PUBLIC SIDEWALK MAINTENANCE STATEMENT**  
THE PROPOSED PUBLIC SIDEWALK ALONG S. STATE STREET, HENRY STREET, WHITE STREET AND STIMSON STREET SHALL BE KEPT & MAINTAINED IN GOOD REPAIR BY THE OWNER OF THE LAND ADJACENT TO & ABUTTING THE SAME SIDEWALK.

**VIII. NATURAL FEATURES GENERAL DESCRIPTION AND IMPACTS:**  
IN ACCORDANCE WITH THE CITY OF ANN ARBOR LAND DEVELOPMENT REGULATIONS REGARDING SITE PLAN REQUIREMENTS, THE NATURAL FEATURES IMPACTS ARE AS FOLLOWS:

LIMITS OF SOIL DISTURBANCE: SEE GRADING PLAN (SHEET C-300).  
BOUNDARY AND DESCRIPTION OF ENDANGERED SPECIES HABITAT: NOT APPLICABLE.  
BOUNDARY AND ELEVATION OF ANY 100-YEAR FLOODPLAIN: NOT APPLICABLE.  
LANDMARK TREES: SEE EXISTING CONDITIONS PLAN. THERE ARE PROPOSED IMPACTS TO LANDMARK TREES. SEE ALTERNATIVE ANALYSIS AND LANDSCAPE PLAN FOR MITIGATION (SHEET C-200 & C-204).  
STEEP SLOPES: NOT APPLICABLE.  
WATERCOURSES: THERE ARE NO EXISTING OR PROPOSED WATERCOURSES ON THIS SITE.  
WETLANDS: THERE ARE NO EXISTING WETLANDS ON THIS SITE.  
WOODLAND BASAL AREA: THERE ARE NO EXISTING WOODLAND AREAS ON THIS SITE.

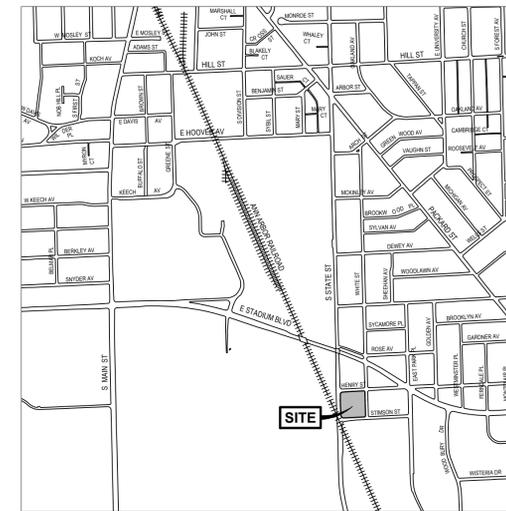


SITE PERSPECTIVE

### DEVELOPMENT SUMMARY & COMPARISON CHART

Zoning	Existing (R4C)	Required / Permitted (R4C)	Proposed (C1A/R)	Required / Permitted (C1A/R)
Gross Lot Area (min)	72,148 sq. ft.	8,500 sq. ft.	72,148 sq. ft.	none
Min Lot Width (ft)	40.3'	60'	none	none
Min Open Space (% of Lot Area)	82%	40%	none	none
Min Active Open Space (per dwelling - sq. ft.)	1,555	300	91	none (50 sq. ft. per dwelling unit)
Building Area (sq. ft.)	13,065	-	222,044 (1)(2)	216,444 (224,444 with premium)
FAR (% of Lot Area)	18.11%	-	307.28% (1)(2)	300% Max + premium
FAR (units / acre)	22.9	20 units / acre	130.9	-
Premiums (sq. ft.)	none	none	4,498 (2)	8,000
<b>Front Setbacks</b>				
State Street	24.2'	25'	5.1' min. 6.3' max.	10' min. (5' with 50% rule)
Stimson Street	N/A	25'	10.4' min. 48.5' max.	10' min. (5' with 50% rule)
White Street	18.4'	25'	9.5' min. 15.5' max.	10' min. (5' with 50% rule)
Henry Street	19.7'	25'	6.4' min. 53.9' max.	10' min. (5' with 50% rule)
Total Setback Area (square feet)	N/A	N/A	13,249 sq. ft.	10,135 sq. ft. min.
Building Height	30'	30'	85'	none (8 stories, 100')
<b>Vehicle Parking</b>				
Vehicle Parking (per dwelling unit)	-	none (was 1.5)	0.25	0.25 proposed max.
Vehicle Parking (per sq. ft. nonresidential)	-	none	1 per 600 sq. ft.	none
EV Parking	0	RESIDENTIAL: EV-C: 90% EV-I: 10%	RESIDENTIAL: EV-C: 45 EV-I: 8	RESIDENTIAL: EV-C: 90% EV-I: 10%
total	28	none	54 total (Including 8 EV & 3 Accessible Spaces)	none
<b>Required Bicycle Parking</b>				
Space	1 per 5 dwelling units Class A: 50% Class B: 0% Class C: 50%	1 per 5 dwelling units Class A: 50% Class B: 0% Class C: 50%	1 per 1.1 dwelling units: 216 Class A: 40% : 124 Class B: 22% : 48 Class C: 38% : 44	1 per 5 dwelling units: 50 Class A: 50%: 25 Class B: 0% Class C: 50%: 25
Office (O)	N/A	N/A	1 per 2,100 sq. ft.: 8	1 per 3,000 sq. ft.: 7
total	0	8	224 total	57

(1) VARIANCE REQUIRED. A VARIANCE APPLICATION WAS SUBMITTED TO THE ZBA ON FEBRUARY 22, 2023 & THE PROJECT HAS BEEN PLACED ON THE MAY 24TH ZBA AGENDA.  
(2) FLOOR AREA PREMIUM OPTION = PEDESTRIAN AMENITY PREMIUM OPTION - PLAZA



### LOCATION MAP

SCALE: 1"=100'-00" FT

### DESIGN TEAM CONTACTS

#### APPLICANT / OWNER

SOUTHTOWN BY 4M, LLC  
2082 S. STATE STREET  
ANN ARBOR, MI 48104  
P: 415.810.8124  
ATTN: MARGE POSCHER

#### CIVIL / LANDSCAPE ARCHITECT

NEDERVELD, INC.  
3037 MILLER RD.  
ANN ARBOR, MI 48103  
P: 734.929.6963  
ATTN: BRANDON CHANEY

#### ARCHITECT

SYNECDOCHE DESIGN STUDIO  
1342 N. MAIN STREET #11  
ANN ARBOR, MI 48104  
P: 734.926.5593  
ATTN: ADAM SMITH

#### STRUCTURAL

ASPECT STRUCTURAL ENGINEERS  
101-190 W. 3RD AVE  
VANCOUVER, BRITISH COLUMBIA V5Y1E9  
P: 604.762.7844  
ATTN: SHAWN KENNEDY

#### MECHANICAL / PLUMBING

GREENPATH DESIGN  
139 W. LIBERTY STREET  
PLYMOUTH, MI 48170  
P: 248.310.7286  
ATTN: KELLY SUGG

#### ELECTRICAL

ETS ENGINEERING  
418-1/2 S. WASHINGTON BOULEVARD  
ROYAL OAK, MI 48067  
P: 248.744.0360  
ATTN: SCOTT LEO

### SHEET INDEX

<b>CIVIL PLANS</b>	
COVER SHEET	C-100
EXISTING CONDITIONS PLAN - ALTA SURVEY	C-200
EXISTING CONDITIONS PLAN - ALTA SURVEY	C-201
NATURAL FEATURES PLAN	C-202
SOIL REPORTS	C-203
ALTERNATIVE ANALYSIS	C-204
DEMOLITION PLAN	C-205
SITE LAYOUT PLAN - LEVEL 1	C-206
SITE LAYOUT PLAN - LEVEL 2	C-207
FIRE PROTECTION PLAN	C-208
LANDSCAPE PLAN	L-100
S.E.S.C. & GRADING PLAN	C-300
UTILITY PLAN	C-400
STORM WATER MANAGEMENT CALCULATIONS	C-401
DETAILS & SPECIFICATIONS	C-500
<b>ARCHITECTURAL PLANS</b>	
COVER SHEET	G000
FAR CALCULATIONS	A006
FAR CALCULATIONS	A007
LEVEL 1 PLAN	A101
LEVEL 2 PLAN	A102
LEVEL 3 PLAN	A103
LEVEL 4 PLAN	A104
LEVEL 5 PLAN	A105
LEVEL 6 PLAN	A106
LEVEL 7 PLAN	A107
LEVEL 8 PLAN	A108
ROOF AREA DIAGRAM	A109
LEVEL 1 - EXTERIOR LIGHTING	A201
LEVEL 2 - EXTERIOR LIGHTING	A202
EXTERIOR ELEVATIONS	A300
EXTERIOR ELEVATIONS	A301
BUILDING SECTIONS	A400
BUILDING SECTIONS	A401
AXONOMETRIC - SUSTAINABILITY	A700
ENLARGED PLANS - BIKE ROOM	A701
STREET SECTIONS	A702



www.nederveld.com

800.222.1868

ANN ARBOR

3037 Miller Rd.  
Ann Arbor, MI 48103

Phone: 734.929.6963

CHICAGO

COLUMBUS

GRAND RAPIDS

HOLLAND

INDIANAPOLIS

### PREPARED FOR:

Southtown by 4M, LLC  
Marge Poscher

2082 S. State Street  
Ann Arbor, MI 48104

### REVISIONS:

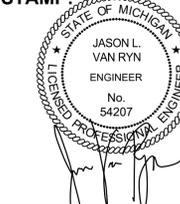
Title: Site Plan Submittal  
Drawn: WL/FG Checked: BC/JVR Date: 10/21/2022  
Title: Site Plan Resubmittal  
Drawn: WL/FG Checked: BC/JVR Date: 02/22/2023  
Title: Site Plan Resubmittal  
Drawn: WL/FG Checked: BC/JVR Date: 04/24/2023

SOUTHTOWN BY 4M

Cover Sheet

Block surrounded by S. State, Henry, White, and Stimson Streets  
PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R9E,  
CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

### STAMP:



PROJECT NO:  
21500282

SHEET NO:

C-100

**PREPARED FOR:**  
 Southtown by 4M, LLC  
 Marge Poscher

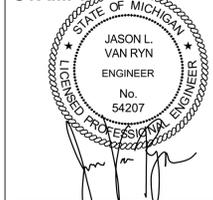
2082 S. State Street  
 Ann Arbor, MI 48104

**REVISIONS:**

Title: Site Plan Submittal  
 Drawn: WJTG Checked: BCJ/VR Date: 10.21.2022  
 Title: Site Plan Resubmittal  
 Drawn: WJTG Checked: BCJ/VR Date: 02.22.2023  
 Title: Site Plan Resubmittal  
 Drawn: WJTG Checked: BCJ/VR Date: 04.24.2023

**SOUTHTOWN BY 4M**  
**Existing Site Conditions Plan - ALTA Survey**  
 Block surrounded by S. State, Henry, White, and Stimson Streets  
 PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R2E,  
 CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

**STAMP:**



**PROJECT NO:**  
 21500282

**SHEET NO:**  
**C-200**



**LOCATION MAP**  
 NOT TO SCALE

**LEGEND**

	Benchmark / Control Point		Utility Pole
	Catch Basin - Square		Water Manhole
	Cleanout		Water Valve
	Deciduous Tree		Yard Drain
	Electric Manhole		Cable TV
	Electric Meter		Underground Electric
	Gas Meter		Gas
	Guy Anchor		Overhead Utility
	Hand Hole		Sanitary
	Hydrant		Storm
	Iron - Found		Underground Telephone
	Light Pole		Watermain
	Mailbox		Fence
	Miss Dig Flag - Cable		Railroad
	Miss Dig Flag - Gas		Zoning Setback
	Manhole		Asphalt
	Sign		Concrete
	Sanitary Sewer Manhole		Gravel
	Stormwater Manhole		Existing Building
	Telephone Manhole		Measured Dimension
	Transformer		Platted Dimension
	Traffic Light		

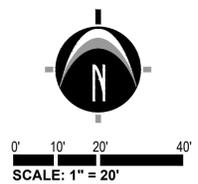
**BENCHMARKS**

- BENCHMARK #300 ELEV. = 839.56 (NAVD88)**  
 Steamer valve on South side of hydrant, located 6' +/- North of back of curb and 24' +/- West of catch basin at Northwest corner of Stimson Street and White Street.
- BENCHMARK #301 ELEV. = 840.14 (NAVD88)**  
 Steamer valve on East side of hydrant, located 25' +/- West of centerline of White Street and 15' +/- South of catch basin at Southwest corner of Henry Street and White Street.
- BENCHMARK #302 ELEV. = 844.30 (NAVD88)**  
 Steamer valve on North side of hydrant, located 36' +/- East of centerline of State Street and 12' +/- North of Stimson Street traffic light at Northeast corner of State Street and Stimson Street.
- BENCHMARK #303 ELEV. = 843.71 (NAVD88)**  
 Northeast bolt on light pole base, located 15' +/- South of control point 203 and 30' +/- West of centerline of State Street at end of Henry Street.

**SOIL DESCRIPTION**

GENERAL SOILS DESCRIPTION: USDA CUSTOM SOIL RESOURCE REPORT FOR WASHTENAW COUNTY, MICHIGAN.

**MdA** MATHERTON SANDY LOAM, 0 TO 4 PERCENT SLOPES  
 LANDFORM: DRAINAGEWAYS ON OUTWASH PLAINS, DRAINAGEWAYS ON TERRACES, DRAINAGEWAYS ON GLACIAL DRAINAGE CHANNELS  
 DRAINAGE CLASS: SOMEWHAT POORLY DRAINED  
 RUNOFF CLASS: LOW  
 HYDROLOGIC SOIL GROUP: B/D



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

NOTE: EXISTING UTILITIES AND SERVICE LINES IDENTIFIED AS "PLANNED" WERE OBTAINED FROM AVAILABLE AS-BUILT RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND STATUS OF ALL UTILITIES AND SERVICE LINES PRIOR TO NEW CONNECTIONS.

**ZONED PL**  
 Parcel #: 09-09-32-400-002  
 Address: 500 E Stadium Blvd  
 Owner: University of Michigan

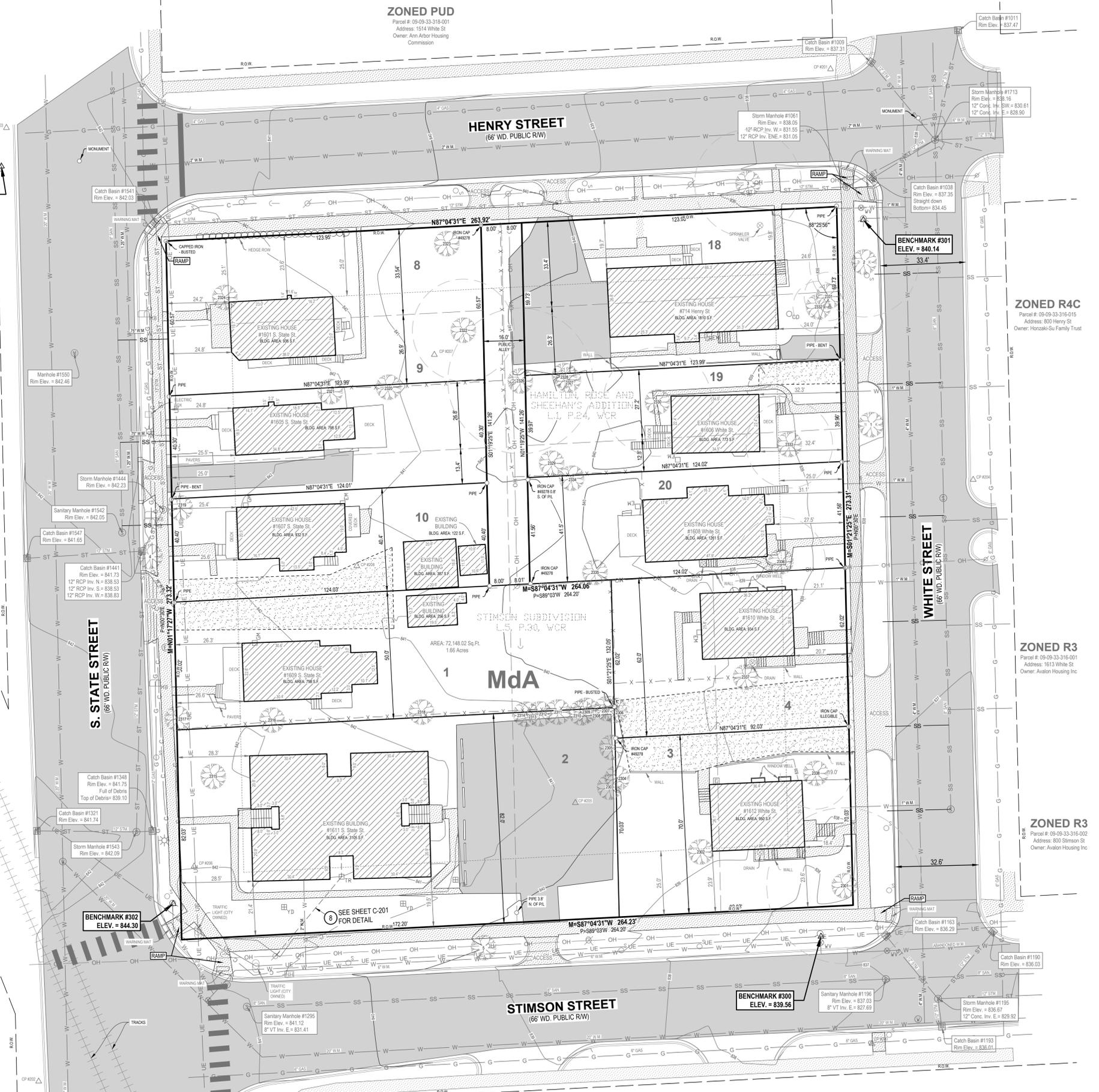
**ZONED PUD**  
 Parcel #: 09-09-33-318-001  
 Address: 1514 White St  
 Owner: Ann Arbor Housing Commission

**ZONED R4C**  
 Parcel #: 09-09-33-316-015  
 Address: 800 Henry St  
 Owner: Horzaki-Su Family Trust

**ZONED R3**  
 Parcel #: 09-09-33-316-001  
 Address: 1513 White St  
 Owner: Avalon Housing Inc

**ZONED R3**  
 Parcel #: 09-09-33-316-002  
 Address: 800 Stimson St  
 Owner: Avalon Housing Inc

**ZONED C3**  
 Parcel #: 09-09-33-314-007  
 Address: 725 Stimson St  
 Owner: The Salvation Army





**PREPARED FOR:**  
 Southtown by 4M, LLC  
 Marge Poscher

**REVISIONS:**  
 Title: Site Plan Submittal  
 Drawn: WL/G Checked: BCJ/VR Date: 10.21.2022  
 Title: Site Plan Resubmittal  
 Drawn: WL/G Checked: BCJ/VR Date: 02.22.2023  
 Title: Site Plan Resubmittal  
 Drawn: WL/G Checked: BCJ/VR Date: 04.24.2023

**SOUTHTOWN BY 4M**  
**Natural Features Plan**  
 Block surrounded by S. State, Henry, White, and Stimson Streets  
 PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R1E,  
 CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

**STAMP:**  
 STATE OF MICHIGAN  
 JASON L. VAN RYN  
 ENGINEER  
 No. 54207  
 LICENSED PROFESSIONAL ENGINEER

**PROJECT NO:**  
 21500282  
**SHEET NO:**  
**C-202**

**TREE SURVEY**

Tree ID	Scientific Name	Common Name	DBH	Landmark	Notes	Remove
2301	Acer saccharinum	Silver Maple	30.5"	Yes		x
2302	Thuja occidentalis	Arborvitae	10"	No		x
2303	Ulmus pumila	Siberian Elm	27.5"	No		x
2304	Acer platanoides	Norway Maple	8"	No		x
2305	Ulmus pumila	Siberian Elm	13.6"	No	multi-stem	x
2306	Acer platanoides	Norway Maple	11"	No		x
2307	Ulmus pumila	Siberian Elm	9"	No		x
2308	Ulmus pumila	Siberian Elm	14"	No		x
2309	Ulmus pumila	Siberian Elm	16"	No		x
2310	Ulmus pumila	Siberian Elm	7.5"	No		x
2311	Ulmus pumila	Siberian Elm	9"	No		x
2312	Ulmus pumila	Siberian Elm	8"	No		x
2313	Ulmus pumila	Siberian Elm	17"	No		x
2314	Ulmus pumila	Siberian Elm	21.7"	No	multi-stem	x
2315	Acer platanoides	Norway Maple	13.5"	No		x
2316	Ulmus americana	American Elm	8.5"	No		x
2317	Acer platanoides	Norway Maple	24.5"	No		x
2318	Acer platanoides	Norway Maple	26"	No		x
2319	Acer platanoides	Norway Maple	19"	No		x
2320	Morus alba	Mulberry	25"	No		x
2321	Juglans nigra	Black Walnut	7"	No		x
2322	Acer saccharum	Sugar Maple	20"	Yes		x
2323	Ulmus pumila	Siberian Elm	23.5"	No		x
2324	Morus alba	Mulberry	15.6"	No	multi-stem	x
2325	Juglans nigra	Black Walnut	6"	No		x
2326	Juglans nigra	Black Walnut	28.5"	Yes		x
2327	Morus alba	Mulberry	24"	No		x
2328	Ulmus americana	American Elm	8"	No		x
2329	Prinus serotina	Red Pine	21"	No		x
2330	Thuja occidentalis	Arborvitae	21.3"	Yes	multi-stem	x
2331	Juniperus virginiana	Eastern Red Cedar	9.5"	Yes		x
2332	Juniperus virginiana	Eastern Red Cedar	10"	Yes		x
2333	Thuja occidentalis	Arborvitae	17"	Yes	multi-stem	x
2334	Celtis occidentalis	Common Hackberry	7"	No		x
2335			14"	No	stump	x
2336	Thuja occidentalis	Arborvitae	17.5"	Yes	multi-stem	x
2337	Ulmus pumila	Siberian Elm	8"	No		x
2338	Thuja occidentalis	Arborvitae	14"	Yes	multi-stem	x
1	Acer nyctaboe	Miyabe Maple	8"	No	Street Tree	
2	Acer saccharum	Sugar Maple	21.5"	Yes	Street Tree	
3	Acer saccharum	Sugar Maple	21"	Yes	Street Tree	
4	Acer platanoides	Norway Maple	10"	No	Street Tree	x
5	Acer platanoides	Norway Maple	16.5"	No	Street Tree	x

Tree survey performed April 21, 2022 by Wade Lohmann, ISA Certified Arborist, D# MI-45584  
 \*Multi-stemmed trees DBH calculated using the formula:  $\sqrt{4 \times \sum d^2}$



**LEGEND**

**EXISTING LANDMARK TREE** (Tree symbol with 'L')

**EXISTING TREE** (Tree symbol)

**PROP. TREE PROTECTION FENCE** (Dashed line with 'P')

**EXISTING GRADE CONTOUR** (Solid line with elevation)

**EXISTING STEEP SLOPES** (Hatched area)

**SOIL TYPE LIMITS** (Dashed line)

**Benchmark / Control Point** (Circle with 'B')

**Catch Basin - Square** (Square with 'CB')

**Cleanout** (Circle with 'C')

**Deciduous Tree** (Tree symbol)

**Electric Manhole** (Circle with 'E')

**Electric Meter** (Circle with 'M')

**Gas Meter** (Circle with 'G')

**Guy Anchor** (Circle with 'A')

**Hand Hole** (Circle with 'H')

**Hydrant** (Circle with 'H')

**Iron - Found** (Circle with 'I')

**Light Pole** (Circle with 'L')

**Mailbox** (Circle with 'M')

**Max Dig Flag - Cable** (Circle with 'C')

**Max Dig Flag - Gas** (Circle with 'G')

**Manhole** (Circle with 'M')

**Sign** (Square with 'S')

**Sanitary Sewer Manhole** (Circle with 'S')

**Stormwater Manhole** (Circle with 'S')

**Telephone Manhole** (Circle with 'T')

**Transformer** (Circle with 'T')

**Traffic Light** (Circle with 'T')

**Utility Pole** (Circle with 'U')

**Water Manhole** (Circle with 'W')

**Water Valve** (Circle with 'V')

**Yard Drain** (Circle with 'Y')

**Cable TV** (Circle with 'C')

**Underground Electric** (Circle with 'E')

**Gas** (Circle with 'G')

**Overhead Utility** (Circle with 'O')

**Sanitary** (Circle with 'S')

**Storm** (Circle with 'S')

**Underground Telephone** (Circle with 'T')

**Waterman** (Circle with 'W')

**Fence** (Circle with 'F')

**Railroad** (Circle with 'R')

**Zoning Setback** (Circle with 'Z')

**Asphalt** (Hatched area)

**Concrete** (Hatched area)

**Gravel** (Hatched area)

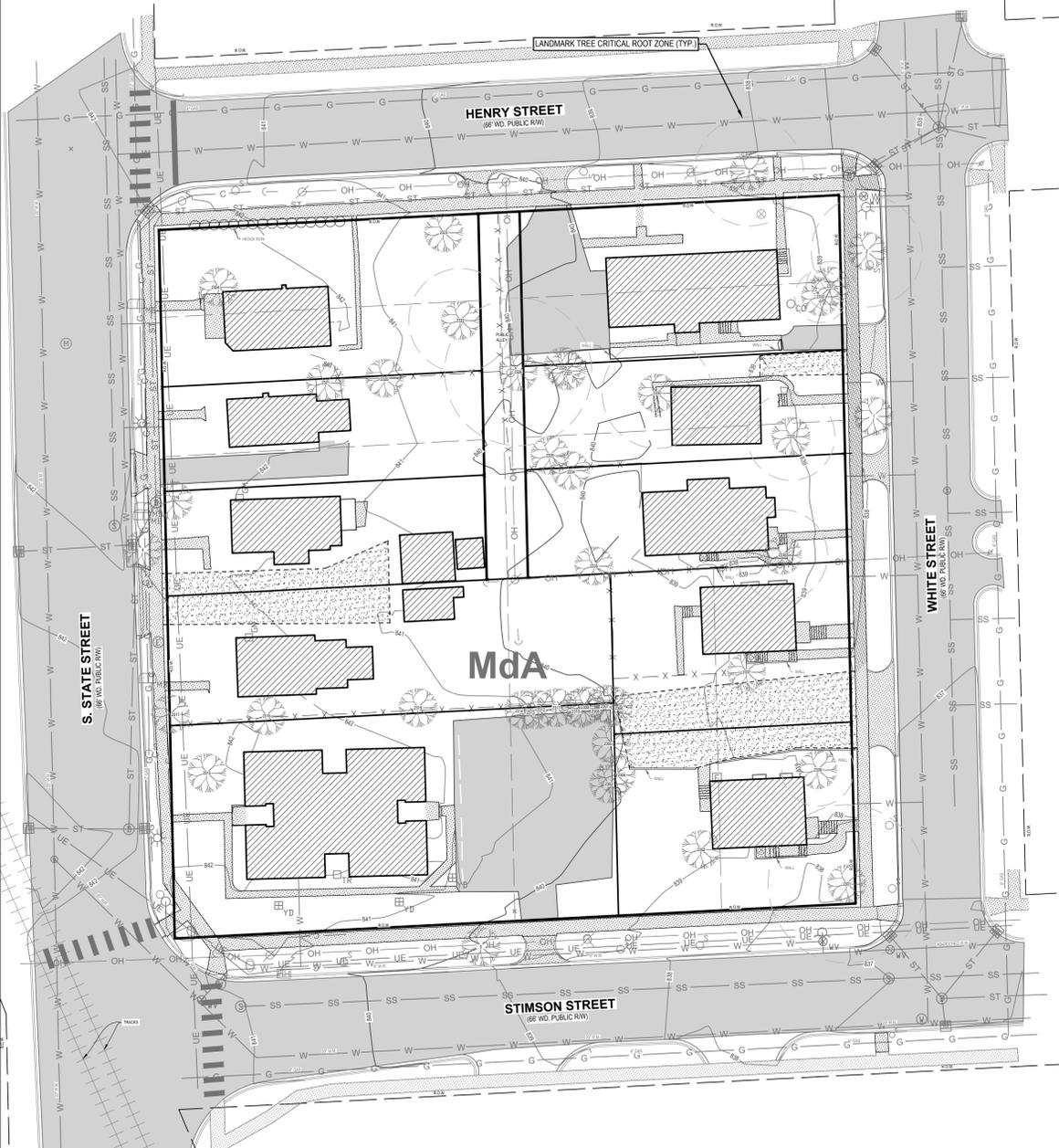
**Existing Building** (Hatched area)

**Measured Dimension** (Dashed line)

**Platted Dimension** (Solid line)

**NATURAL FEATURES ANALYSIS NOTES:**

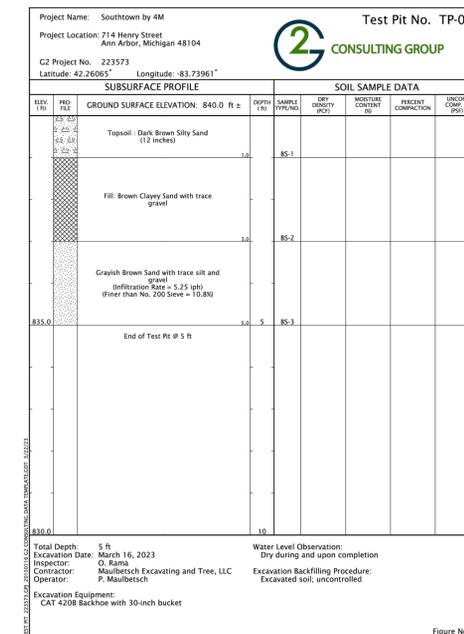
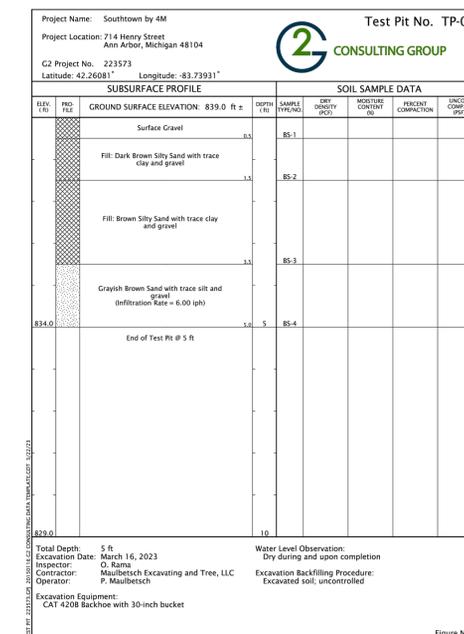
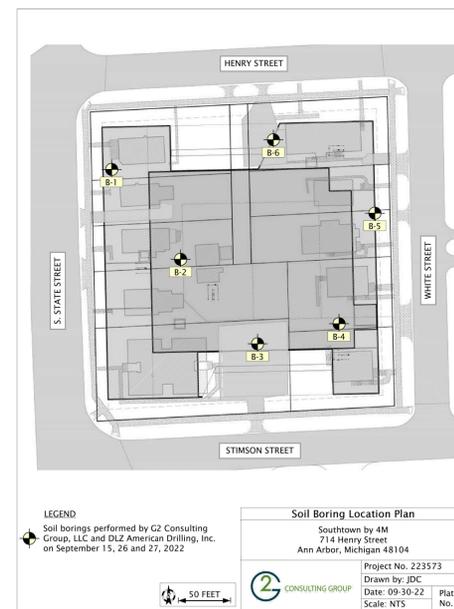
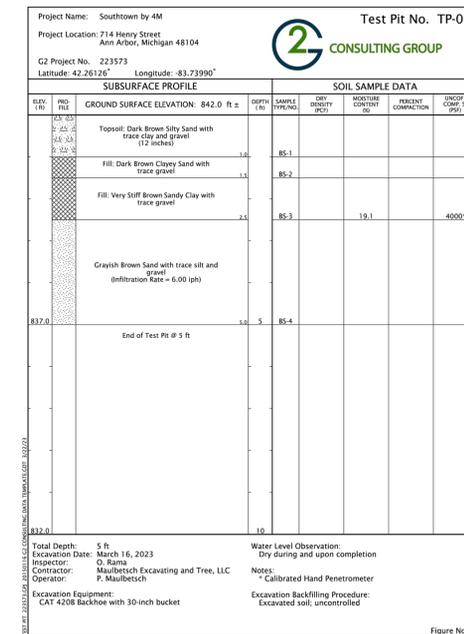
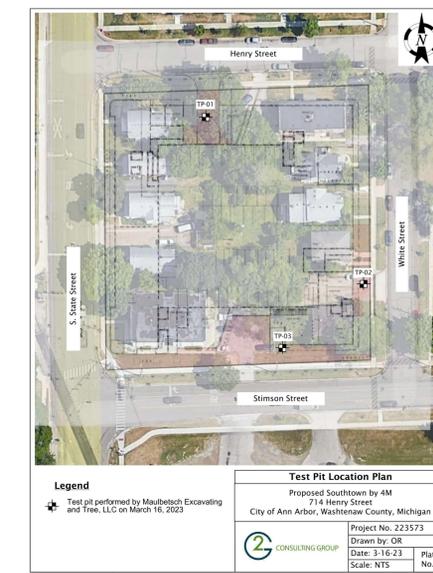
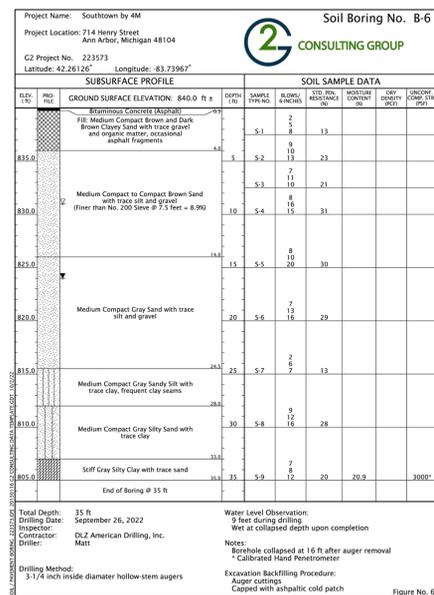
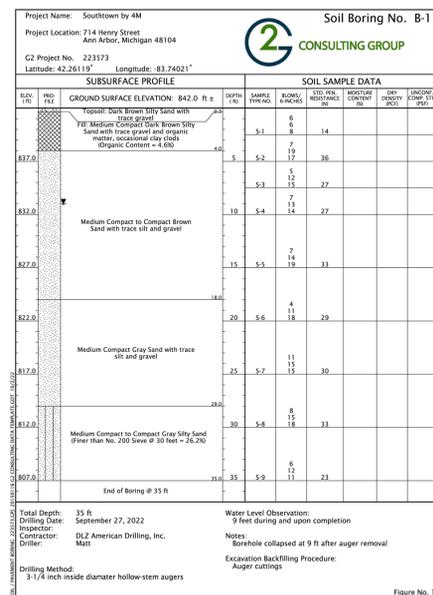
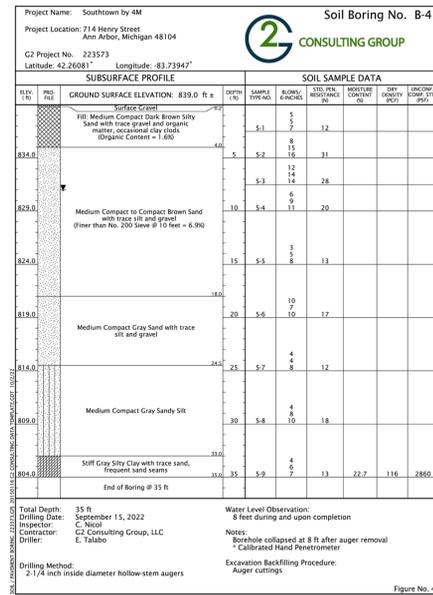
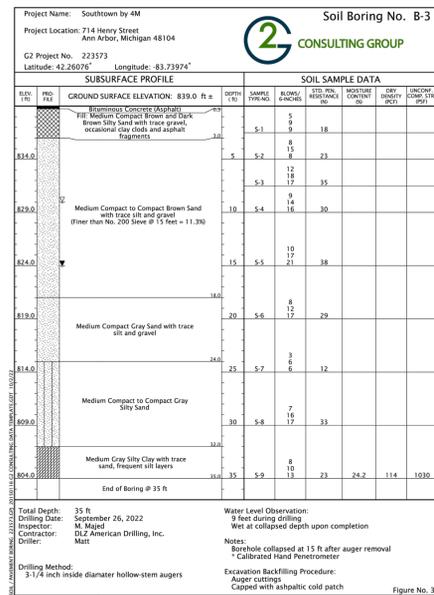
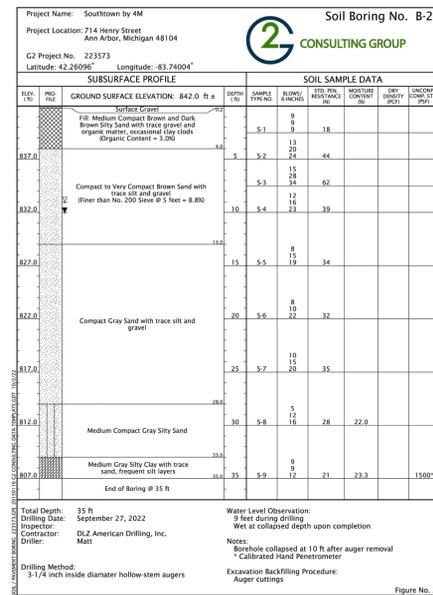
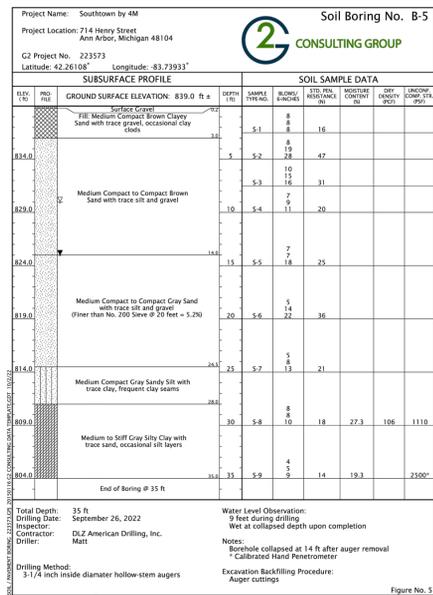
- 100-YEAR FLOODPLAIN: THERE IS NO FEMA MAPPED FLOOD PLAIN ON THE SITE.
- LANDMARK TREES: SEE NATURAL FEATURES PLAN (THIS SHEET) AND EXISTING TREE TABLE (SHEET C-203). THERE ARE TWO (2) LANDMARK TREES TO REMAIN WITHIN THE PROPOSED PROJECT SITE.
- STEEP SLOPES: THERE ARE NO STEEP SLOPES ON THE PROJECT SITE.
- EXISTING WATERCOURSE: THERE ARE NO WATERCOURSES ON THE SITE.
- BOUNDARY AND BASAL AREA ESTIMATE WOODLANDS: THERE ARE NO WOODLANDS ON THE SITE.
- BOUNDARY AND CHARACTER OF ALL WETLANDS: THERE ARE NO WETLANDS ON THE SITE.



**NATURAL FEATURES ANALYSIS**  
 SCALE: 1" = 30'



**NATURAL FEATURES OVERLAY**  
 SCALE: 1" = 30'





www.nederveld.com  
800.222.1868  
**ANN ARBOR**  
3037 Miller Rd.  
Ann Arbor, MI 48103  
Phone: 734.929.6963

CHICAGO  
COLUMBUS  
GRAND RAPIDS  
HOLLAND  
INDIANAPOLIS

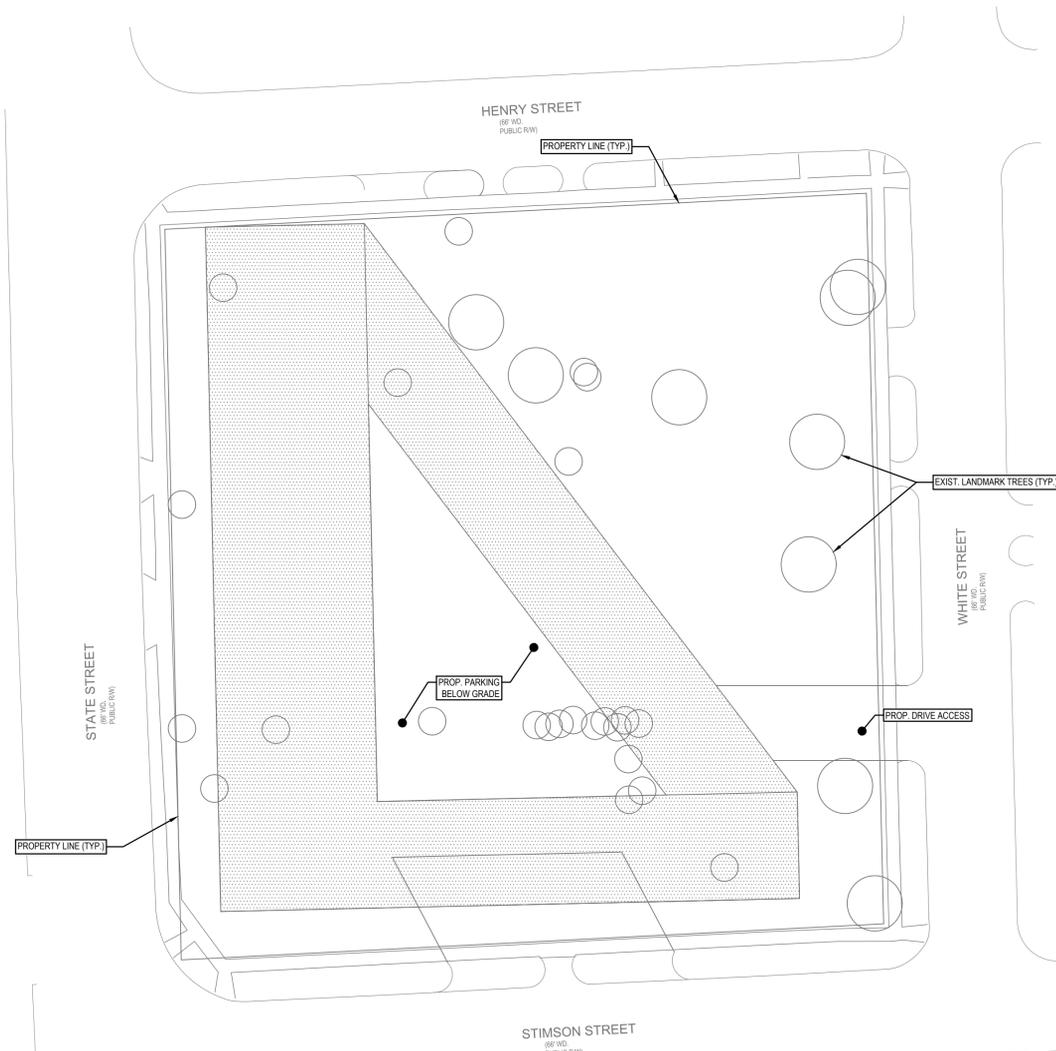
**PREPARED FOR:**

Southtown by 4M, LLC  
Marge Poscher

2082 S. State Street  
Ann Arbor, MI 48104

**REVISIONS:**

Title: Site Plan Submittal	Drawn: WJTG	Checked: BCJVR	Date: 10/21/2022
Title: Site Plan Resubmittal	Drawn: WJTG	Checked: BCJVR	Date: 02/22/2023
Title: Site Plan Resubmittal	Drawn: WJTG	Checked: BCJVR	Date: 04/24/2023



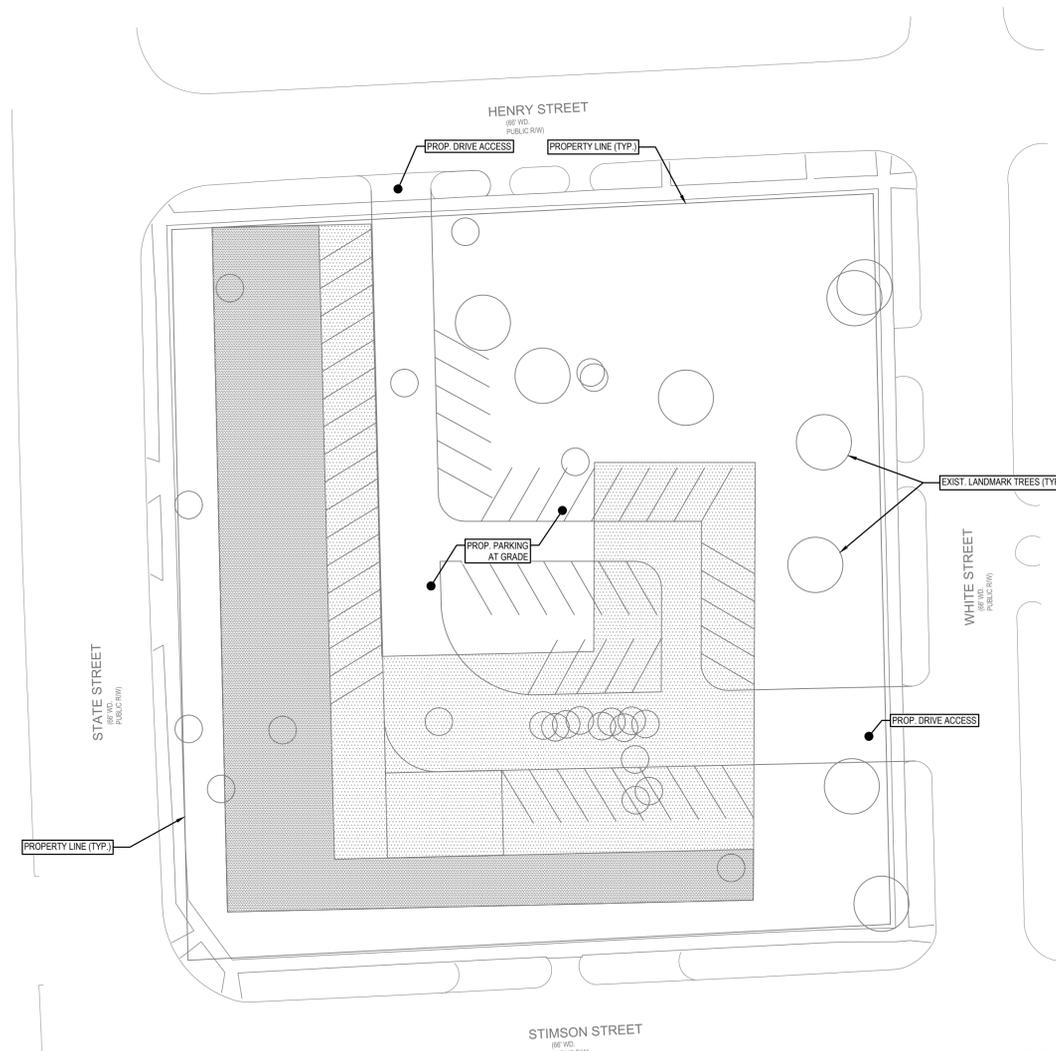
**ALTERNATIVE ANALYSIS #1**

8 STORIES (300 FAR)  
FLOOR 1: 18,000 SF  
FLOORS 2-8: 30,000 SF EACH  
PARKING BELOW GRADE

THIS PROPOSED CONCEPT WOULD GENERATE AN 8 STORY BUILDING FOR THE ENTIRE MASS WHICH WOULD CREATE LONG SHADOWS ACROSS THE NEIGHBORHOOD. MAKING OUT THE FAR CREATES A BUILDING THAT DOES NOT FIT IN THE CONTEXT OF THE NEIGHBORHOOD. THE PROPOSED BELOW GRADE PARKING WOULD BE HIGHLY COSTLY TO THE PROJECT SINCE THE GROUND WATER IN THIS AREA IS RELATIVELY HIGH. THE UNDERGROUND PARKING WOULD BE BELOW THE GROUND WATER LEVEL.

**LANDMARK TREE TABLE**

Alternative Analysis 1			
ID	Species	DBH	Landmark
2330	<i>Thuja occidentalis</i>	21.3	yes
2331	<i>Juniperus virginiana</i>	9.5	yes
2332	<i>Juniperus virginiana</i>	10	yes
2333	<i>Thuja occidentalis</i>	17	yes
2336	<i>Thuja occidentalis</i>	17.5	yes
		<b>75.3</b>	<b>total DBH saved</b>



**ALTERNATIVE ANALYSIS #2**

9 STORIES (300 FAR)  
FLOOR 1: 10,000 SF  
FLOORS 2-9: 28,000 SF EACH  
PARKING AT GRADE

CONCEPT # 2 UTILIZED PARKING AT GRADE WHICH WOULD ALSO BE UNDER PORTIONS OF THE BUILDING. PARKING AT GRADE REDUCES THE ABILITY FOR RESIDENTS TO USE OUTDOOR AREAS SINCE MOST OF IT WOULD BE SUBJECT TO VEHICULAR AREAS. THE BUILDING SHAPE BEING A SMALLER FOOTPRINT WOULD NEED TO BE 9 STORIES TALL IN ORDER TO MEET THE FAR. THIS GENERATES A STRUCTURE THAT IS OUT OF CHARACTER IN THE NEIGHBORHOOD AND CREATES LONG SHADOWS ONTO THE NEIGHBORS TO THE NORTH AND TO THE EAST.

**LANDMARK TREE TABLE**

Alternative Analysis 2			
ID	Species	DBH	Landmark
2301	<i>Acer saccharinum</i>	30.5	yes
2322	<i>Acer saccharum</i>	20	yes
2326	<i>Juglans nigra</i>	28.5	yes
2330	<i>Thuja occidentalis</i>	21.3	yes
2331	<i>Juniperus virginiana</i>	9.5	yes
2332	<i>Juniperus virginiana</i>	10	yes
2333	<i>Thuja occidentalis</i>	17	yes
2336	<i>Thuja occidentalis</i>	17.5	yes
2338	<i>Thuja occidentalis</i>	14	yes
		<b>168.3</b>	<b>total DBH saved</b>

**EARLY PROPOSED CONCEPT - SITE PLAN**

SCALE: 1"=100'



**EARLY PROPOSED CONCEPT (#2) - SITE PLAN**

SCALE: 1"=100'

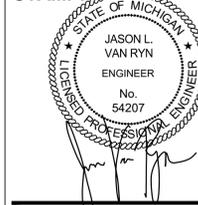


**SOUTHTOWN BY 4M**

**Alternative Analysis**

Block surrounded by S. State, Henry, White, and Stimson Streets  
PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R9E,  
CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

**STAMP:**



**PROJECT NO:**  
21500282

**SHEET NO:**  
**C-204**

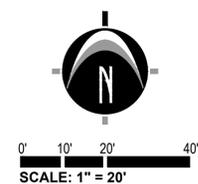
**PREPARED FOR:**  
 Southtown by 4M, LLC  
 Marge Poscher  
 2082 S. State Street  
 Ann Arbor, MI 48104

**REVISIONS:**  
 Title: Site Plan Submittal  
 Drawn: WL/JS Checked: BC/JVR Date: 10.21.2022  
 Title: Site Plan Resubmittal  
 Drawn: WL/JS Checked: BC/JVR Date: 02.22.2023  
 Title: Site Plan Resubmittal  
 Drawn: WL/JS Checked: BC/JVR Date: 04.24.2023

**SOUTHTOWN BY 4M**  
**Demolition Plan**  
 Block surrounded by S. State, Henry, White, and Stimson Streets  
 PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R2E,  
 CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

**STAMP:**  
 STATE OF MICHIGAN  
 JASON L. VAN RYEN  
 ENGINEER  
 No. 54207  
 LICENSED PROFESSIONAL ENGINEER

**PROJECT NO:**  
 21500282  
**SHEET NO:**  
**C-205**



- LEGEND**
- EXISTING GRADE CONTOUR
  - EXISTING BITUMINOUS REMOVAL
  - EXISTING CONCRETE REMOVAL
  - EXISTING UTILITY REMOVAL
  - EXISTING TREE REMOVAL
  - SAWCUT EXISTING PAVEMENT

**REMOVAL / DEMOLITION NOTES**

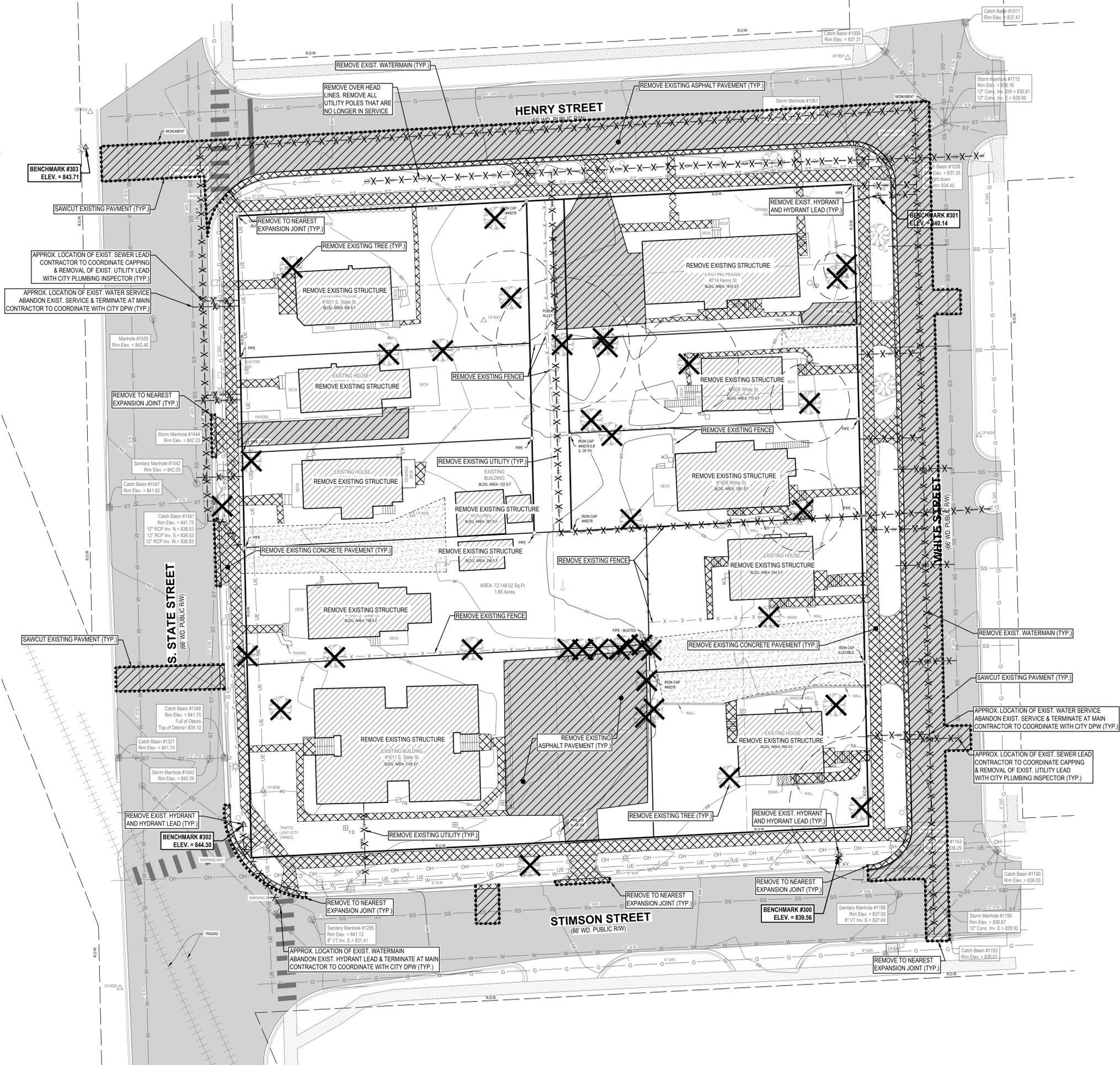
- 1) THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES AT LEAST THREE WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS. THERE ARE EXISTING UNDERGROUND UTILITIES WHICH CROSS THE PROPOSED REPLACEMENT WORK AREAS. ALTHOUGH THEIR EXACT LOCATION CANNOT BE DETERMINED, IT IS KNOWN THESE UTILITIES ARE LOCATED WHERE DIGGING IS REQUIRED. THE CONTRACTOR SHALL CONDUCT THE REQUIRED EXCAVATION IN THESE AREAS WITH EXTREME CAUTION.
- 2) ALL EXISTING UTILITY INFORMATION SHOWN IS TAKEN FROM EXISTING RECORDS, AND FIELD VERIFIED WHERE ACCESSIBLE ONLY. INFORMATION OBTAINED FROM EXISTING RECORDS MAY NOT BE COMPLETE OR ACCURATE. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY FOR ACCURACY, LOCATION AND CONDITION.
- 3) BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY AND BY THE OWNER, REPRESENTATIVES OF THE CITY, THE OWNER AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE EXISTING SEWERS WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING UTILITIES AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS AND EXISTING VIDEO TAPES. RECORDS OF THE INSPECTIONS SHALL BE KEPT IN WRITING BY THE CONTRACTOR.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION WORK.
- 5) ALL EXISTING UTILITIES, SEWERS AND WATER LINES ARE TO REMAIN UNDISTURBED UNLESS OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL APPLICABLE UTILITY COMPANIES, MUNICIPALITIES AND AGENCIES BEFORE COMMENCING ANY WORK.
- 6) THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES REGARDING REMOVAL OF EXISTING POLES, OVERHEAD WIRES, UNDERGROUND UTILITIES, GUY WIRES, GAS LINES, ETC. ALL ADJUSTMENT OR RECONSTRUCTION WORK, EXCEPT FOR THOSE STRUCTURES OTHERWISE NOTED ON THE PLANS, SHALL BE PERFORMED BY THE CONTRACTOR. EXISTING APPURTENANCES SUCH AS UTILITY POLES AND VALVES BOX SHALL NOT BE DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION.
- 7) THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICE TO ALL ADJOINING PROPERTIES.
- 8) ALL DEBRIS SHALL BE REMOVED FROM THE SITE, AND NO STOCKPILING ON SITE SHALL BE ALLOWED UNLESS APPROVED BY THE OWNER OR THEIR REPRESENTATIVES.
- 9) THE CONTRACTOR SHALL LIMIT SAWCUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE REQUIRED OR AS SHOWN. ALL PAVEMENTS TO BE REMOVED SHALL BE SAWCUT AND REMOVED TO FULL DEPTH AT ALL PAVEMENT LIMITS OR EXISTING JOINTS. IF ANY DAMAGE IS INCURRED TO ANY OF THE SURROUNDING PAVEMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR AT NO ADDITIONAL COST TO ANYONE ELSE, INCLUDING THE CITY OR OWNER.
- 10) ASPHALT AREAS SHOWN TO BE SAWCUT AND REMOVED FULL DEPTH ARE ACTUAL FACE OF PROPOSED CURBS. IT WILL BE NECESSARY TO MAKE OFF-SET SAWCUTS TO PROVIDE CLEARANCE FOR PROPOSED CURBS. THE CONTRACTOR SHALL DETERMINE THE AMOUNT OF OFF-SET NECESSARY TO CONSTRUCT THE PROPOSED CURBS AND SHALL BE APPROVED BY THE CITY OF ANN ARBOR ENGINEERS. ADDITIONAL CUTS MAY BE DESIRED TO FACILITATE THE REMOVAL OF THE EXISTING PAVEMENT, BUT THERE WILL BE NO EXTRA PAYMENT FOR ADDITIONAL CUTS. PAVEMENT SHALL BE REMOVED WITHOUT DAMAGING OR UNDERMINING THE REMAINING PAVEMENT. IF ADJACENT PAVEMENT IS DAMAGED, THE CONTRACTOR SHALL MAKE ADDITIONAL FULL DEPTH SAWCUTS AND REMOVE THE DAMAGE AREAS AS NECESSARY.
- 11) ALL PAVEMENT REMOVAL AREAS SHALL BE FULL PAVEMENT CROSS-SECTION REMOVAL DOWN TO NATIVE SOIL LAYER IN ACCORDANCE WITH THE GEOTECHNICAL REPORT DATED OCTOBER 4, 2022. ALL TREES WITHIN THE GRADING LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- 12) IF FOOTING DRAINS FOR THE EXISTING BUILDING ARE CONNECTED TO THE SANITARY SEWER SYSTEM, DISCONNECTION IS REQUIRED IN ACCORDANCE WITH CURRENT CITY SPECIFICATIONS. FOOTING DRAINS REMOVED FROM ANY EXISTING BUILDINGS MAY OFFSET ANY REQUIRED MITIGATION. VERIFICATION OF EXISTING FOOTING DRAINS SHALL BE PERFORMED BY ENGINEERING FOR ANY BUILDING CONSTRUCTED BETWEEN 1930 AND 1982. TO SCHEDULE INSPECTION, CONTACT ANY PONSOCK AT APONSOCK@A2GOV.ORG.
- 13) ANY SERVICE LEADS THAT WILL NOT BE REUSED SHALL BE DISCONNECTED AT THEIR RESPECTIVE MAINS.

- LEGEND**
- |                           |                      |
|---------------------------|----------------------|
| Benchmark / Control Point | Traffic Light        |
| Catch Basin - Square      | Utility Pole         |
| Cleanout                  | Water Manhole        |
| Deciduous Tree            | Water Valve          |
| Electric Manhole          | Yard Drain           |
| Electric Meter            | Cable TV             |
| Gas Meter                 | Underground Electric |
| Guy Anchor                | Gas                  |
| Hand Hole                 | Overhead Utility     |
| Hydrant                   | Sanitary             |
| Iron - Found              | Storm                |
| Light Pole                | Undergound Telephone |
| Mailbox                   | Watermain            |
| Miss Dig Flag - Cable     | Fence                |
| Miss Dig Flag - Gas       | Railroad             |
| Manhole                   | Zoning Setback       |
| Sign                      | Asphalt              |
| Sanitary Sewer Manhole    | Concrete             |
| Stormwater Manhole        | Gravel               |
| Telephone Manhole         | Existing Building    |
| Transformer               | Measured Dimension   |
|                           | Plotted Dimension    |



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

NOTE: EXISTING UTILITIES AND SERVICE LINES IDENTIFIED AS "PLANS" WERE OBTAINED FROM AVAILABLE AS-BUILT RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND STATUS OF ALL UTILITIES AND SERVICE LINES PRIOR TO NEW CONNECTIONS.







www.nederveld.com  
800.222.1868  
ANN ARBOR  
3037 Miller Rd.  
Ann Arbor, MI 48103  
Phone: 734.929.6963

CHICAGO  
COLUMBUS  
GRAND RAPIDS  
HOLLAND  
INDIANAPOLIS

**PREPARED FOR:**

Southtown by 4M, LLC  
Marge Poscher

2082 S. State Street  
Ann Arbor, MI 48104

**REVISIONS:**

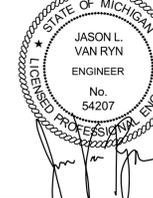
Title	Site Plan Submittal	Checked	BCJ/VR	Date	10/21/2022
Drawn	WJ/TG	Checked	BCJ/VR	Date	10/21/2022
Title	Site Plan Resubmittal	Checked	BCJ/VR	Date	02/22/2023
Drawn	WJ/TG	Checked	BCJ/VR	Date	02/22/2023
Title	Site Plan Resubmittal	Checked	BCJ/VR	Date	04/24/2023
Drawn	WJ/TG	Checked	BCJ/VR	Date	04/24/2023

**SOUTHTOWN BY 4M**

**Site Layout Plan - Level 2**

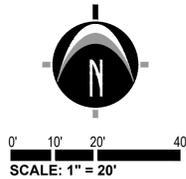
Block surrounded by S. State, Henry, White, and Stimson Streets  
PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R9E,  
CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

**STAMP:**



**PROJECT NO:**  
21500282

**SHEET NO:**  
**C-207**



**LEGEND**

	Benchmark / Control Point		Yard Drain
	Catch Basin - Square		Cable TV
	Cleanout		Underground Electric
	Deciduous Tree		Gas
	Electric Manhole		Overhead Utility
	Electric Meter		Sanitary
	Gas Meter		Storm
	Guy Anchor		Underground Telephone
	Hand Hole		Watermain
	Hydrant		Fence
	Iron - Found		Railroad
	Light Pole		Zoning Setback
	Mailbox		Asphalt
	Miss Dig Flag - Cable		Concrete
	Miss Dig Flag - Gas		Gravel
	Manhole		Existing Building
	Sign		Measured Dimension
	Sanitary Sewer Manhole		Platted Dimension
	Stormwater Manhole		PROPOSED PAVERS
	Telephone Manhole		PROPOSED BITUMINOUS (HEAVY DUTY)
	Transformer		PROPOSED CONCRETE (STANDARD DUTY)
	Traffic Light		PROPOSED CONCRETE (HEAVY DUTY)
	Utility Pole		PROPOSED GREENSPACE
	Water Manhole		PROPOSED DECKING
	Water Valve		PROPOSED SYNTHETIC TURF

**ZONED PL**  
Parcel #: 09-09-32-000-002  
Address: 500 E Stadium Blvd  
Owner: University of Michigan

**ZONED PUD**  
Parcel #: 09-09-33-318-001  
Address: 1514 White St  
Owner: Ann Arbor Housing Commission

**ZONED R4C**  
Parcel #: 09-09-33-316-015  
Address: 800 Henry St  
Owner: Horzaki-Su Family Trust

**ZONED R3**  
Parcel #: 09-09-33-316-001  
Address: 1613 White St  
Owner: Avalon Housing Inc

**ZONED R3**  
Parcel #: 09-09-33-316-002  
Address: 800 Stimson St  
Owner: Avalon Housing Inc

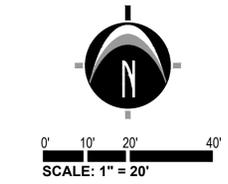
**ZONED C3**  
Parcel #: 09-09-33-314-007  
Address: 725 Stimson St  
Owner: The Salvation Army



**811 Know what's below. CALL before you dig.**

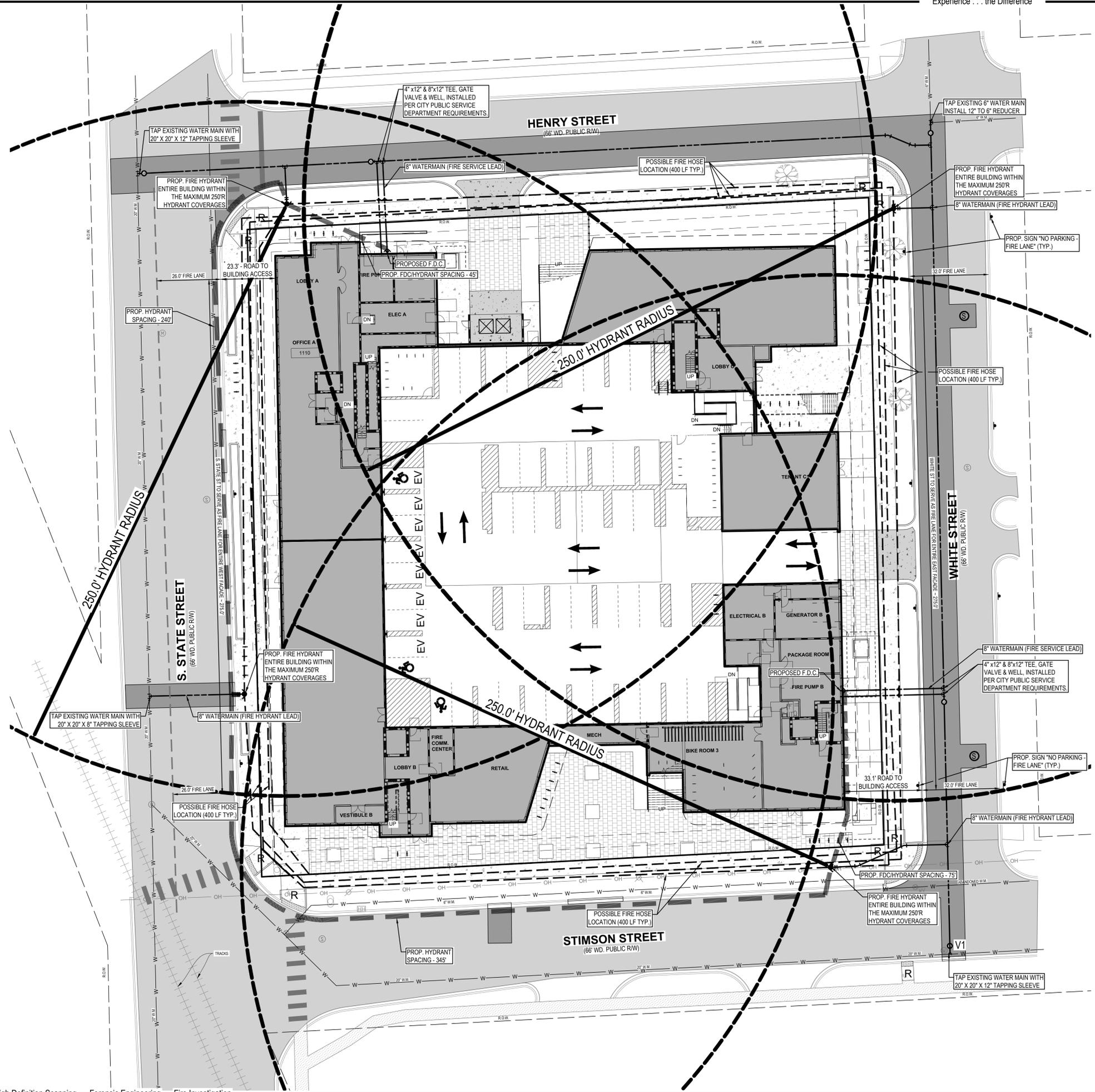
UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

NOTE: EXISTING UTILITIES AND SERVICE LINES IDENTIFIED AS "PLANNED" WERE OBTAINED FROM AVAILABLE AS-BUILT RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND STATUS OF ALL UTILITIES AND SERVICE LINES PRIOR TO NEW CONNECTIONS.



**LEGEND**

	Benchmark / Control Point		Yard Drain
	Catch Basin - Square		Cable TV
	Cleanout		Underground Electric
	Deciduous Tree		Gas
	Electric Manhole		Overhead Utility
	Electric Meter		Sanitary
	Gas Meter		Storm
	Guy Anchor		Underground Telephone
	Hand Hole		Watermain
	Hydrant		Fence
	Iron - Found		Railroad
	Light Pole		Zoning Setback
	Mailbox		Asphalt
	Miss Dig Flag - Cable		Concrete
	Miss Dig Flag - Gas		Gravel
	Manhole		Existing Building
	Sign		Measured Dimension
	Sanitary Sewer Manhole		Platted Dimension
	Stormwater Manhole		PROPOSED PAVERMENTS
	Telephone Manhole		PROPOSED BITUMINOUS (HEAVY DUTY)
	Transformer		PROPOSED CONCRETE (STANDARD DUTY)
	Traffic Light		PROPOSED CONCRETE (HEAVY DUTY)
	Utility Pole		PROPOSED GREENSPACE
	Water Manhole		PROPOSED DECKING
	Water Valve		PROPOSED SYNTHETIC TURF



**811** Know what's below.  
 CALL before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

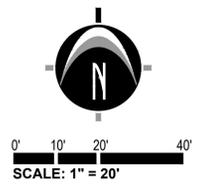
NOTE:  
 EXISTING UTILITIES AND SERVICE LINES IDENTIFIED AS "PLANNED" WERE OBTAINED FROM AVAILABLE AS-BUILT RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND STATUS OF ALL UTILITIES AND SERVICE LINES PRIOR TO NEW CONNECTIONS.

**PLANT SCHEDULE**

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CAL	SIZE	QTY
	Bn	Betula nigra	River Birch Multi-Trunk	B&B	3" min.	12' hgt. avg.	7
	Ca (M)	Carpinus caroliniana	American Hornbeam	B&B	3" min.		3
	Cf (M)	Cornus florida	Flowering Dogwood	B&B	3" min.		9
	Ma (S)	Maackia amurensis	Amur Maackia	B&B	2.5" min.		6
	Na (M)	Nyssa sylvatica	Tupelo	Existing	3" min.		6
	Pm (S)	Platanus x acerifolia 'Morton Circle'	Exclamation™ London Plane Tree	B&B	3" min.		14
	Qb (M)	Quercus bicolor	Swamp White Oak	B&B	3" min.		4

**PLANT LABEL LEGEND**

(M) MITIGATION PLANTINGS  
(S) STREET TREE PLANTINGS



**ZONED PL**  
Parcel #: 09-09-33-400-002  
Address: 500 E Stadium Bldg  
Owner: University of Michigan

**LANDSCAPE NOTES**

- PLANTING NOTES:**
- ALL PLANT MATERIAL SHALL BE LOCALLY NURSERY GROWN NO 1 GRADE AND INSTALLED ACCORDING TO ACCEPTED PLANTING PROCEDURES. ALL PLANT MATERIALS SHALL MEET CURRENT AMERICAN ASSOCIATION OR NURSERYMEN STANDARDS. DO NOT PLANT MATERIALS UNTIL DIRECTED BY OWNER, LANDSCAPE ARCHITECT, AND/OR CONSTRUCTION MANAGER. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL, FOR ANY REASON BEFORE OR AFTER IT IS INSTALLED.
  - SIZES SPECIFIED ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE INSTALLED.
  - ANY PLANT SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.
  - MAINTENANCE OF LANDSCAPING ITEMS, TREES, AND PLANTS SHALL BE PERFORMED BY THE PROPERTY OWNER OR A QUALIFIED PROFESSIONAL. ALL LANDSCAPING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH APPLICABLE MUNICIPAL STANDARDS AND IN ACCORDANCE WITH CURRENT INDUSTRY STANDARDS IN A NEAT, HEALTHY AND WEED FREE CONDITION. ANY DEAD, DISEASED OR DAMAGED PLANT MATERIALS ARE TO BE REPLACED IMMEDIATELY AFTER NOTIFIED TO DO SO.
  - PLANT TREES AND SHRUBS IN ACCORDANCE WITH PLANTING DETAILS. DIG TREE PITS PER DETAILS. PLANT TREES AND SHRUBS AT THE SAME GRADE LEVEL AT WHICH THEY WERE GROWN AT THE NURSERY. IF HEAVY CLAY SOILS ARE EVIDENT, PLANT TREES AND SHRUBS HIGHER, APPROX. 1/4 OF THE ROOT BALL ABOVE GRADE, AND BACKFILL TO TOP OF ROOT BALL.
  - REMOVE ALL TWINE, WIRE, NURSERY TREE GUARDS, TAGS AND INORGANIC MATERIAL FROM ROOT BALLS. REMOVE THE TOP 1/3 OF BURLAP FROM EARTH BALLS AND REMOVE BURLAP FROM AROUND TRUNK.
  - FINELY SHREDDED HARDWOOD BARK MULCH, NATURAL COLOR (NON-COLORED), IS REQUIRED FOR ALL PLANTINGS AND PLANTING BEDS. MULCH PER PLANTING DETAILS. MULCH IN PLANT BEDS SHALL BE 3" THICK AT TIME OF INSPECTION AND AFTER COMPACTED BY RAIN OR IRRIGATION. ALL PLANTING BEDS SHALL BE EDGED WITH 6" X 12 GAUGE STEEL LANDSCAPE EDGES.
  - LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES. IF A CONFLICT WITH UTILITIES EXIST, NOTIFY OWNER/CONSTRUCTION MANAGER PRIOR TO PLANTING.
  - PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR AFTER PLANTING AND ACCEPTANCE.
  - ALL SPECIES DEVIATION FROM THE APPROVED SITE PLAN MUST BE APPROVED PRIOR TO INSTALLATION BY THE CITY OF ANN ARBOR.
  - APPLICATIONS OF FERTILIZER BEYOND THE INITIAL TOPSOIL AND SEEDING SHALL BE A FERTILIZER WITH NO PHOSPHORUS.

**TOPSOIL AND TURF NOTES:**

- WHEREVER GROUND IN ITS NATURAL STATE HAS BEEN DISTURBED, APPROVED LANDSCAPING OR GRASS SHALL BE FULLY INSTALLED, AND ESTABLISHED WITHIN A REASONABLE PERIOD OF TIME, BUT NO LONGER THAN ONE GROWING SEASON (UNLESS OTHERWISE NOTED AND APPROVED).
- DURING EXCAVATION, GRADING, AND INSTALLATION OF REQUIRED LANDSCAPING, ALL SOIL EROSION AND SEDIMENTATION CONTROL REGULATIONS SHALL BE STRICTLY FOLLOWED AND COMPLIED WITH.

**LANDSCAPE CALCULATIONS**

**5.20.10 (B) STREET TREES REQUIRED:**

1) ONE STREET TREE OF THE MINIMUM SIZE AND SPECIES MEETING CITY STANDARDS SHALL BE PROVIDED FOR EVERY 45 LINEAL FEET OF PUBLIC STREET RIGHT-OF-WAY ABUTTING A SITE PLAN SITE. EXISTING TREES MEETING CITY STANDARDS MAY BE USED TO SATISFY ALL OR PART OF THIS REQUIREMENT.

REQUIRED: 264 FT (HENRY) - 24 FT (CURB CUTS) = 240 / 45 = 5.33 = 6 TREES  
 273 FT (WHITE ST) - 71 FT (CURB CUTS) = 202 / 45 = 4.48 = 5 TREES  
 264 FT (STIMSON) / 45 = 5.867 = 6 TREES  
 273 FT (STATE) / 45 = 6.067 = 6 TREES

PROPOSED: HENRY = 6 TREES (1 EXISTING AND 5 PROPOSED)  
 WHITE ST = 5 TREES (2 EXISTING AND 3 PROPOSED)  
 STIMSON = 6 TREES (6 PROPOSED)  
 STATE = 6 TREES (6 PROPOSED)

**5.23.6 (E) LANDMARK TREE MITIGATION:**

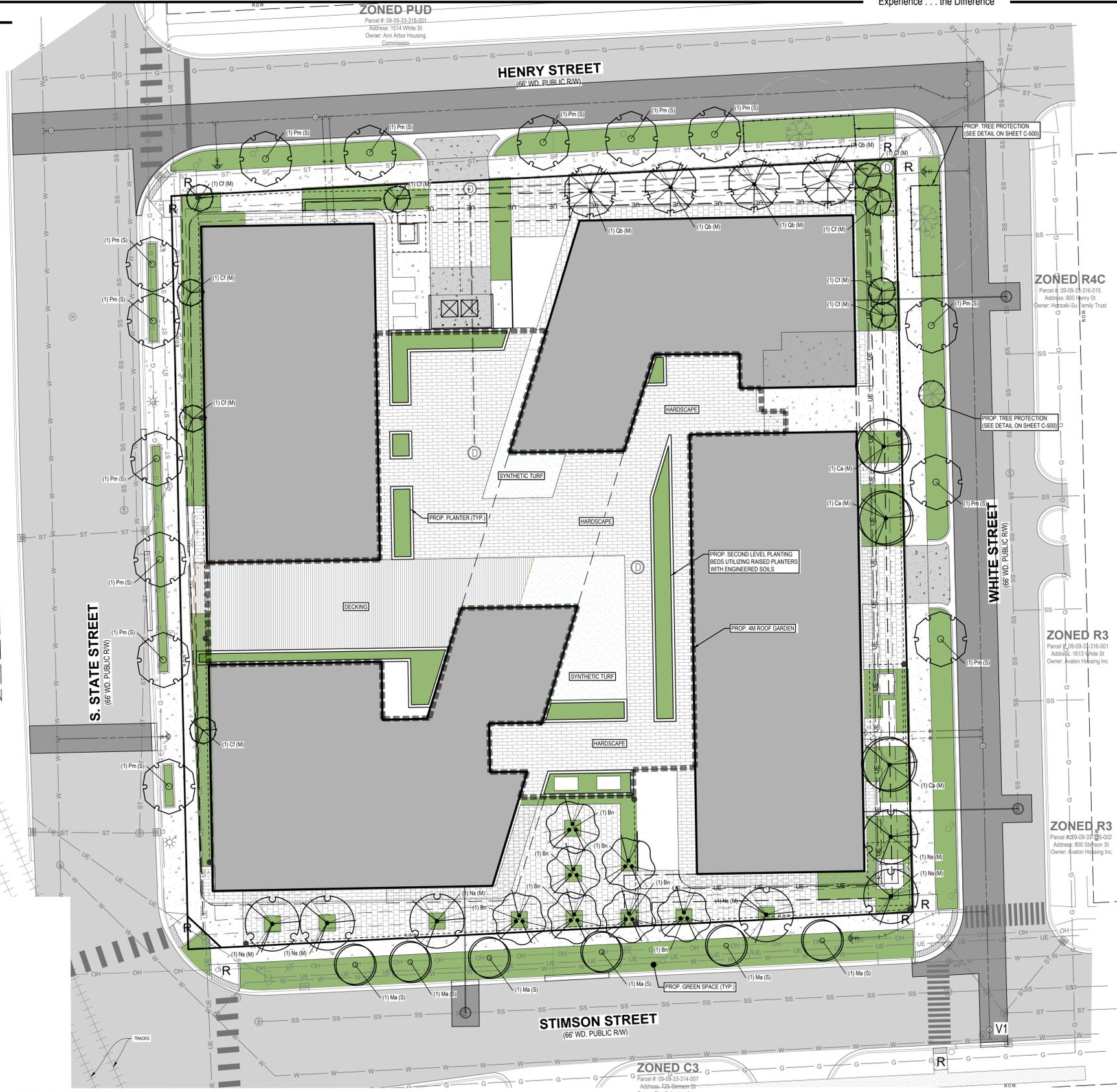
1) A REPLACEMENT TREE OR COMBINATION OF TREES OF A SPECIES NATIVE TO MICHIGAN SHALL BE PROVIDED TO EQUAL A MINIMUM OF 50% OF THE ORIGINAL DBH FOR EACH LANDMARK TREE THAT IS REMOVED.

REQUIRED: 84.15" DBH FOR PROPOSED REMOVAL OF 168.3" DBH OF EXISTING LANDMARK TREES  
 PROPOSED: 87" DBH REPLACEMENT

**LANDSCAPE MAINTENANCE SCHEDULE**

Maintenance Task	January	February	March	April	May	June	July	August	September	October	November	December
Prune shade trees & summer flowering shrubs												
Remove mulch from around crown of perennials; remove winter mulch												
Fertilize Trees and Shrubs, planting beds												
Clean flower beds, remove winter weeds and dead plant material left for winter interest												
Apply double shredded bark mulch to tree/shrub beds and ground leaf compost to flower beds												
Pressurize irrigation system and perform spring audit												
Divide and replant summer and fall blooming perennials (when growth is 3-4in high), cut back if needed												
Replace dead/poor health perennials and grasses												
Prune spring blooming shrubs immediately after flowering												
Prune wither damaged branches or plants that have not begun to grow after last frost												
Replace mulch as necessary												
Prune/pinch back perennials and grasses for height control and shaping												
Inspect plants for pests and treat as necessary												
Clean up planting beds - remove yellowing foliage not left for winter interest, remove stakes/hoops												
Turn off irrigation system and flush out												
Winter mulch tender plants once ground is frozen												

**NOTE:**  
1. ALL DISEASED, DAMAGED OR DEAD MATERIAL BE REPLACED IN ACCORDANCE WITH CITY CODE BY THE END OF THE FOLLOWING PLANTING SEASON, AS A CONTINUING OBLIGATION FOR THE DURATION OF THE SITE PLAN.



**LEGEND**

	Benchmark / Control Point		Hand Hole		Sign		Water Valve		UT	Underground Telephone		PROPOSED PAVERES
	Catch Basin - Square		Hydrant		Sanitary Sewer Manhole		Yard Drain		W	Watermain		PROPOSED BITUMINOUS (HEAVY DUTY)
	Cleanout		Iron - Found		Stormwater Manhole		Cable TV		X	Fence		PROPOSED CONCRETE (STANDARD DUTY)
	Deciduous Tree		Light Pole		Telephone Manhole		UE	Underground Electric				PROPOSED CONCRETE (HEAVY DUTY)
	Electric Manhole		Mailbox		Transformer		G	Gas				PROPOSED GREENSPACE
	Electric Meter		Miss Dig Flag - Cable		Traffic Light		OH	Overhead Utility				PROPOSED DECKING
	Gas Meter		Miss Dig Flag - Gas		Utility Pole		SS	Sanitary				PROPOSED SYNTHETIC TURF
	Guy Anchor		Manhole		Water Manhole		ST	Storm				



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

**NOTE:**  
EXISTING UTILITIES AND SERVICE LINES IDENTIFIED AS 'UNKNOWN' WERE OBTAINED FROM AVAILABLE AS-BUILT RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND STATUS OF ALL UTILITIES AND SERVICE LINES PRIOR TO ANY CONNECTIONS.

**NEDERVELD**  
www.nederveld.com  
800.222.1868  
**ANN ARBOR**  
3037 Miles Rd  
Ann Arbor, MI 48103  
Phone: 734.929.6963

CHICAGO  
COLUMBUS  
GRAND RAPIDS  
HOLLAND  
INDIANAPOLIS

**PREPARED FOR:**  
Southtown by 4M, LLC  
Marge Poscher

2082 S. State Street  
Ann Arbor, MI 48104

**REVISIONS:**

Title: Site Plan Submittal	Drawn: WJTG	Checked: BCUJVR	Date: 10.21.2022
Title: Site Plan Resubmittal	Drawn: WJTG	Checked: BCUJVR	Date: 02.22.2023
Title: Site Plan Resubmittal	Drawn: WJTG	Checked: BCUJVR	Date: 04.24.2023

**SOUTHTOWN BY 4M**

**Landscape Plan**

Block surrounded by S. State, Henry, White, and Stimson Streets  
PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R1E,  
CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

**STAMP:**

**PROJECT NO:**  
21500282

**SHEET NO:**  
**L-100**

SITE CONSTRUCTION SEQUENCE & TIMING	2024											
	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC		
INSTALL SOIL EROSION CONTROL MEASURES												
DEMOLITION & REMOVALS												
ROUGH GRADE SITE												
CONSTRUCT STORM WATER MANAGEMENT SYSTEM												
CONSTRUCT UTILITY LINES TO BUILDING												
CURBING AND FIRST COURSE OF ASPHALT PAVING												
CONSTRUCT BUILDING FOUNDATION AND BUILDING												
CONSTRUCT IMPROVEMENTS AROUND BUILDING												
FINISH GRADE SITE												
PAVE SITE												
RESPREAD TOPSOIL/COMPACTION												
SEED DISTURBED AREAS												
SITE RESTORATION/CLEAN UP												

**SOIL EROSION AND SEDIMENTATION CONTROL NOTES**

- CONTRACTOR SHALL POSSESS THE SOIL EROSION AND SEDIMENTATION CONTROL PLAN PRIOR TO START OF ANY EARTHWORK.
- CONTRACTOR SHALL MODIFY THIS SOIL EROSION AND SEDIMENTATION CONTROL PLAN TO SHOW THE ADDITIONAL CONTROL MEASURES INTENDED TO BE USED DURING CONSTRUCTION. SUBMIT MODIFICATIONS TO THE CONTROLLING AGENCY, THE OWNER, AND THE ENGINEER.
- EROSION PROTECTION SHALL BE PROVIDED AT ALL STORM SEWER INLETS AND OUTLETS. ALL BARE EARTH SHALL BE STABILIZED WITH SEEDING.
- REFER TO THE M.D.O.T. "SOIL EROSION AND SEDIMENTATION CONTROL MANUAL" (APRIL 2006) FOR ADDITIONAL INFORMATION.
- THE ENTIRE STORM SEWER SYSTEM SHALL BE CLEANED AND FLUSHED FOLLOWING CONSTRUCTION AND PAID RECEIPT THEREOF PROVIDED TO THE ENGINEER AND COUNTY SESC AGENT PRIOR TO FINAL PAYMENT TO THE CONTRACTOR OR FINAL ACCEPTANCE OF THE CONSTRUCTION BY THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO INSPECT, TAKE CORRECTIVE ACTION AND MAINTAIN ALL TEMPORARY SESC MEASURES DAILY AND AFTER EACH RAIN EVENT UNTIL FINAL COMPLETION AND ACCEPTANCE OF THE PROJECT.



**GRADING NOTES:**

- ALL PROPOSED PAVING AND GRADING IMPROVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ANN ARBOR ENGINEERING DESIGN STANDARDS.
  - CONTRACTOR SHALL REFERENCE AND ABIDE BY THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL EVALUATION PREPARED BY G2 CONSULTING, PROJECT NO. 223573, DATED OCTOBER 4, 2022.
  - ESTABLISH PERMANENT BENCH MARK ON-SITE PRIOR TO GRADING.
  - PROPOSED SPOT GRADES ARE TO BOTTOM OF CURB UNLESS OTHERWISE NOTED.
  - EXISTING AND PROPOSED GRADE CONTOURS SHOWN AT 1 FOOT INTERVALS.
  - THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
  - CONTRACTOR IS RESPONSIBLE FOR UNDERCUTTING EXISTING POOR SOIL AND REPLACING WITH APPROVED FILL. IF POOR SOIL IS ENCOUNTERED THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER.
- PRIOR TO MAKING ANY SOIL CORRECTIONS & SHALL PROVIDE UNIT COSTS IN THEIR BID FOR SUCH WORK.
- BEST MANAGEMENT PRACTICES WILL BE UTILIZED DURING AND AFTER CONSTRUCTION OF THE PROJECT. MEASURES WILL INCLUDE THE USE OF SEEDING AND MULCHING, SEDIMENT INLET FILTERS, COMPACTION AND PAVING. THE OWNER OF THE SUBJECT PARCEL SHALL HAVE THE RESPONSIBILITY TO MAINTAIN THE PERMANENT SOIL EROSION PROTECTION MEASURES.
  - UTILITIES SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.
  - CONTRACTOR TO FIELD VERIFY ALL INVERTS PRIOR TO START OF CONSTRUCTION.
  - CURBING AND FIRST COARSE OF ASPHALT NEEDS TO BE COMPLETED PRIOR TO VERTICAL CONSTRUCTION.
  - VERTICAL CONSTRUCTION CANNOT BEGIN UNTIL THE STORM WATER MANAGEMENT SYSTEM IS COMPLETED.

**MAINTENANCE TASKS & SCHEDULE**

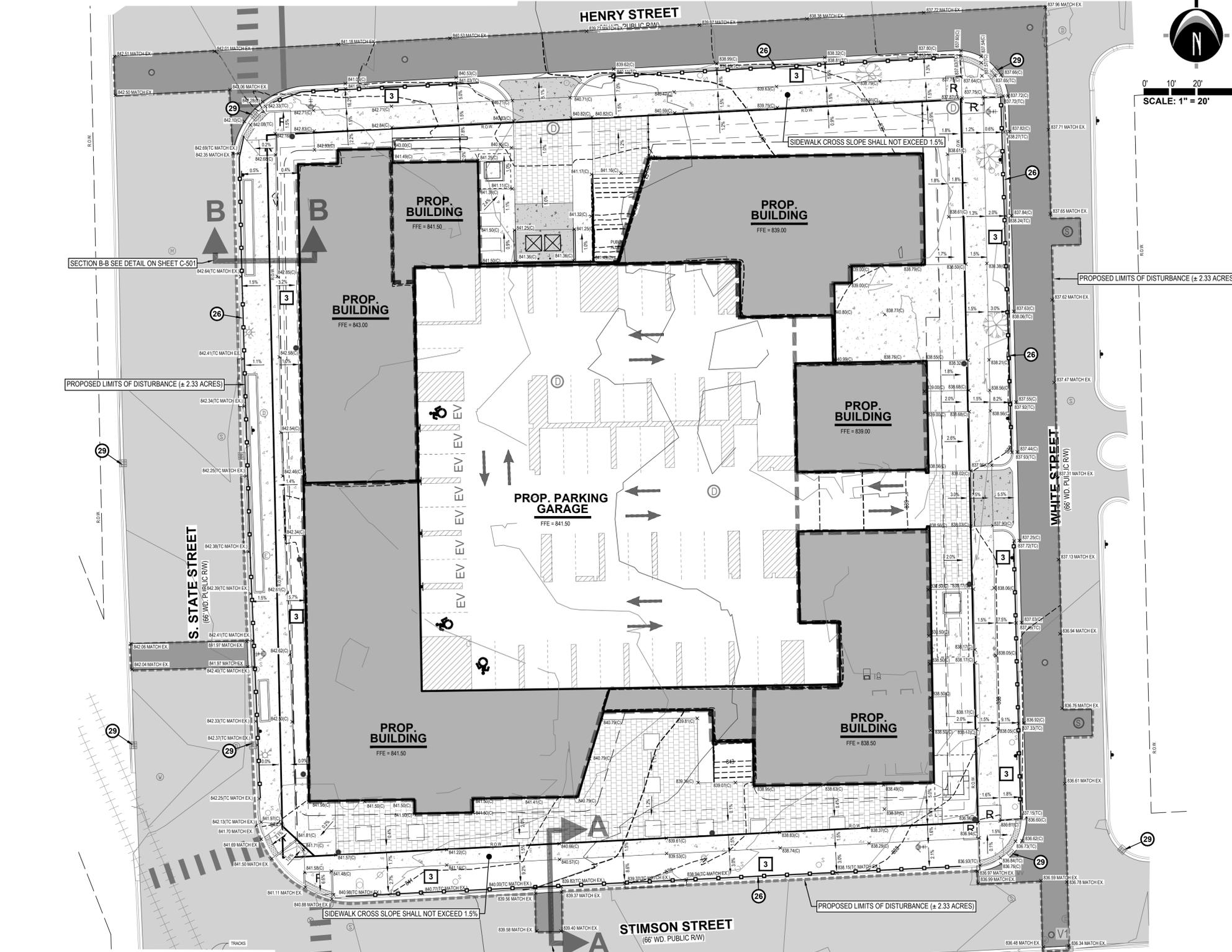
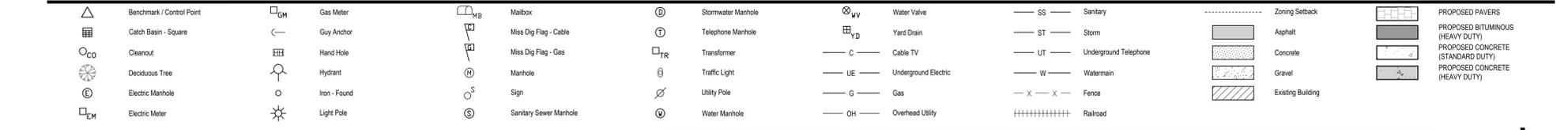
TASKS	SYSTEM COMPONENTS							SCHEDULE
	PAVED AREAS	PERVIOUS AREAS	STORM DRAINAGE SYSTEM	CATCH BASIN INLET CASINGS	RESTRICTOR STRUCTURE	SEDIMENT SEPARATOR	UNDERGROUND DETENTION AREA	
INSPECT FOR SEDIMENT ACCUMULATION	X	X	X	X	X	X	X	WEEKLY
REMOVAL OF SEDIMENT ACCUMULATION	X	X	X	X	X	X	X	AS NEEDED* AND PRIOR TO TURNOVER
INSPECT FOR FLOATABLES AND DEBRIS	X	X	X	X	X	X	X	QUARTERLY
CLEANING FOR FLOATABLES AND DEBRIS	X	X	X	X	X	X	X	QUARTERLY AND AT TURNOVER
INSPECTION FOR EROSION	X	X						WEEKLY
REESTABLISH PERMANENT VEGETATION ON ERODED SLOPES	X							AS NEEDED* AND PRIOR TO TURNOVER
CLEAN DRIVES AND PARKING LOTS	X							WEEKLY OR AS DETERMINED BY PERMITTING AGENCY
WATER DISTURBED AREAS TO PROVIDE DUST CONTROL	ALL DISTURBED AREAS OF SITE							AS NEEDED
INSPECT STRUCTURAL ELEMENTS DURING WET WEATHER AND COMPARE TO AS-BUILT PLANS (BY A PROFESSIONAL ENGINEER REPORTING TO THE OWNER)	X	X	X	X	X	X	X	ANNUALLY AND AT TURNOVER
MAKE ADJUSTMENTS OR REPLACEMENTS AS DETERMINED	X	X	X	X	X	X	X	AS NEEDED

\*AS NEEDED\* MEANS WHEN SEDIMENT HAS ACCUMULATED TO A MAXIMUM OF ONE FOOT DEPTH

MAINTENANCE ACTIVITIES	SYSTEM COMPONENTS							SCHEDULE	BUDGET
	PAVED AREAS	PERVIOUS AREAS	STORM DRAINAGE SYSTEM	CATCH BASIN INLET CASINGS	RESTRICTOR STRUCTURE	SEDIMENT SEPARATOR	UNDERGROUND DETENTION AREA		
INSPECT FOR SEDIMENT ACCUMULATION	X	X	X	X	X	X	X	SEMI-ANNUALLY AS NEEDED*	\$250.00
REMOVAL OF SEDIMENT ACCUMULATION	X	X	X	X	X	X	X	ANNUALLY AS NEEDED*	\$750.00
INSPECT FOR FLOATABLES AND DEBRIS	X	X	X	X	X	X	X	ANNUALLY	\$150.00
CLEANING FOR FLOATABLES AND DEBRIS	X	X	X	X	X	X	X	ANNUALLY	\$300.00
INSPECTION FOR EROSION	X	X						SEMI-ANNUALLY	\$100.00
CLEAN DRIVES AND PARKING LOTS	X							ANNUALLY	\$250.00
INSPECT STRUCTURAL ELEMENTS DURING WET WEATHER AND COMPARE TO AS-BUILT PLANS (BY A PROFESSIONAL ENGINEER REPORTING TO THE OWNER)	X	X	X	X	X	X	X	ANNUALLY	\$500.00
INSPECT INFILTRATION AREA FOLLOWING RAIN EVENTS OF 1 INCH OR MORE							X	AS NEEDED	\$500.00
MAKE ADJUSTMENTS OR REPLACEMENTS AS DETERMINED BY ANNUAL WET WEATHER INSPECTION	X	X	X	X	X	X	X	AS NEEDED	\$500.00
KEEP RECORDS OF ALL INSPECTIONS AND MAINTENANCE ACTIVITIES AND REPORT TO PROPERTY OWNER								ANNUALLY	
KEEP RECORDS OF ALL COSTS FOR INSPECTIONS, MAINTENANCE AND REPAIRS. REPORT TO PROPERTY OWNER								ANNUALLY	
PROPERTY OWNER REVIEWS COST EFFECTIVENESS OF THE PREVENTATIVE MAINTENANCE PROGRAM AND MAKES NECESSARY ADJUSTMENTS								ANNUALLY	
OWNER TO HAVE A PROFESSIONAL ENGINEER CARRY OUT EMERGENCY INSPECTIONS UPON IDENTIFICATION OF SEVERE PROBLEMS							X	AS NEEDED	\$500.00

\*AS NEEDED\* MEANS INSPECTION AFTER EVERY STORM THAT TOTALS 1 INCH OF RAINFALL OR MORE, AND REMOVAL OF SEDIMENT WHEN SEDIMENT HAS ACCUMULATED TO A MAXIMUM OF ONE FOOT DEPTH.

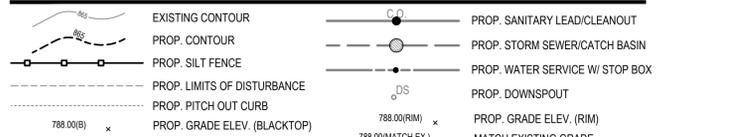
**LEGEND**



**SOIL EROSION CONTROL ESTIMATED COST**

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL COST
Silt fence	1,000	LF	\$2.50	\$2,500
Mud Mat	60	TN	\$15.00	\$900
Excavation & Fill	3,200	CY	\$4.00	\$12,800
Inlet/CB filter	15	EA	\$100.00	\$1,500
Dust Control	1	LS	\$2,000.00	\$2,000
Permanent seed & mulch	10,000	SF	\$0.70	\$7,000
<b>TOTAL COST =</b>				<b>\$26,700.00</b>

**LEGEND**



**BENCHMARKS**

- BENCHMARK #300** ELEV. = 839.56 (NAVD88)  
Steamer valve on South side of hydrant, located 6' +/- North of back of curb and 24' +/- West of catch basin at Northwest corner of Stimson Street and White Street.
- BENCHMARK #302** ELEV. = 844.30 (NAVD88)  
Steamer valve on North side of hydrant, located 36' +/- East of centerline of State Street and 12' +/- North of Stimson Street traffic light at Northeast corner of State Street and Stimson Street.
- BENCHMARK #301** ELEV. = 840.14 (NAVD88)  
Steamer valve on East side of hydrant, located 25' +/- West of centerline of White Street and 15' +/- South of catch basin at Southwest corner of Henry Street and White Street.
- BENCHMARK #303** ELEV. = 843.71 (NAVD88)  
Northest bolt on light pole base, located 15' +/- South of control point 203 and 30' +/- West of centerline of Slate Street at end of Henry Street.

**NEDERVELD**  
www.nederveld.com  
800.222.1868  
ANN ARBOR  
3037 Miles Rd.  
Ann Arbor, MI 48103  
Phone: 734.929.6963  
CHICAGO  
COLUMBUS  
GRAND RAPIDS  
HOLLAND  
INDIANAPOLIS

**PREPARED FOR:**  
Southtown by 4M, LLC  
Marge Poscher  
2082 S. State Street  
Ann Arbor, MI 48104

**REVISIONS:**  
Title: Site Plan Submittal  
Drawn: WJTG Checked: BCJ/VJR Date: 10/21/2022  
Title: Site Plan Resubmittal  
Drawn: WJTG Checked: BCJ/VJR Date: 02/22/2023  
Title: Site Plan Resubmittal  
Drawn: WJTG Checked: BCJ/VJR Date: 04/24/2023

**SOUTHTOWN BY 4M**  
**S.E.S.C. & Grading Plan**  
Block surrounded by S. State, Henry, White, and Stimson Streets  
PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R2E,  
CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

**STAMP:**  
STATE OF MICHIGAN  
JASON L. VAN RYEN  
ENGINEER  
No. 54207

**PROJECT NO:**  
21500282  
**SHEET NO:**  
C-300

**SANITARY SEWER EXISTING AND PROPOSED FLOWS**

Use the City of Ann Arbor "Table A" and "Michigan Criteria for Subsurface Sewage Disposal" Michigan Department of Public Health April 1994 & the "Ten States Standards"

Existing Site (Table A Designation)	Quantity of Base Unit	Unit	Flow Rate For Given Use (gpd/unit)	Avg. Flow	
				(gpd)	(gpm)
1601 S. State St (Apartment ≤ 600 sq. ft.)	3	Apartment	175	525	0.36
1605 S. State St (Apartment ≤ 600 sq. ft.)	3	Apartment	175	525	0.36
1607 S. State St (Apartment ≤ 600 sq. ft.)	3	Apartment	175	525	0.36
1609 S. State St (Apartment ≤ 600 sq. ft.)	3	Apartment	175	525	0.36
1611 S. State St (Apartment ≤ 600 sq. ft.)	10	Apartment	175	1,750	1.22
714 Henry St (Apartment ≤ 600 sq. ft.)	6	Apartment	175	1,050	0.73
1606 White St (Apartment ≤ 600 sq. ft.)	3	Apartment	175	525	0.36
1608 White St (Apartment ≤ 600 sq. ft.)	3	Apartment	175	525	0.36
1610 White St (Apartment ≤ 600 sq. ft.)	2	Apartment	175	350	0.24
1612 White St (Apartment ≤ 600 sq. ft.)	2	Apartment	175	350	0.24
<b>Total Existing Flow</b>				<b>6,650</b>	<b>4.62</b>

Sanitary Sewer Connection #1 (Building A)	Quantity of Base Unit	Unit	Flow Rate For Given Use (gpd/unit)	Avg. Flow	
				(gpd)	(gpm)
Apartment ≤ 600 sq. ft.	16	Apartment	175	2,800	1.94
Apartment > 600 sq. ft., < 1200 sq. ft.	16	Apartment	250	4,000	2.78
Apartment ≥ 1200 sq. ft.	12	Apartment	300	3,600	2.50
Non-Medical Office Space	6,760	sf	0.05	405	0.29
<b>Total Proposed Flow (Area A)</b>				<b>10,806</b>	<b>7.50</b>

Sanitary Sewer Connection #2 (Building BCD)	Quantity of Base Unit	Unit	Flow Rate For Given Use (gpd/unit)	Avg. Flow	
				(gpd)	(gpm)
Apartment ≤ 600 sq. ft.	47	Apartment	175	8,225	5.71
Apartment > 600 sq. ft., < 1200 sq. ft.	123	Apartment	250	30,750	21.35
Apartment ≥ 1200 sq. ft.	2	Apartment	300	600	0.42
<b>Total Proposed Flow (Area B)</b>				<b>39,575</b>	<b>27.48</b>

Sanitary Sewer Connection #3 (Area Podium)	Quantity of Base Unit	Unit	Flow Rate For Given Use (gpd/unit)	Avg. Flow	
				(gpd)	(gpm)
Non-Medical Office Space	10,680	sf	0.06	641	0.45
Daycare (nursery & elementary)	30	Student	10	300	0.21
Retail Store (no process water discharge)	1,587	Gross Floor	0.03	48	0.03
<b>Total Proposed Flow (Area C)</b>				<b>988</b>	<b>0.69</b>

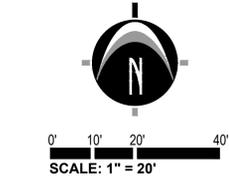
Sanitary Sewer Connection Area (A + BCD + Podium)	Avg. Flow	
	(gpd)	(gpm)
Proposed Site (Table A Designation)	10,806	7.50
Uses: <b>Total Proposed Flow (Building A)</b>	10,806	7.50
<b>Total Proposed Flow (Building BCD)</b>	39,575	27.48
<b>Total Proposed Flow (Building Podium)</b>	988	0.69
<b>Total Proposed Flow Area</b>	<b>51,369</b>	<b>35.67</b>

**SANITARY SEWER BASIS OF DESIGN**

Sanitary Flow Offset Mitigation Summary	
Proposed - Existing Flows	
Proposed Site Average Flow (51369) - Existing Site Average Flow (6650) =	44,719 gpd
44719 gpd x 4 (Peaking Factor) x 1.1 (System Recovery Factor) =	196,763 gpd
196763 gpd x 1 day / 24 hrs x 1 hr / 60 min =	136 gpm
<b>136 gpm Peak Flow to be mitigated</b>	

**UTILITY NOTES**

- GENERAL**
- CONSTRUCTION MUST CONFORM TO THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS AND STANDARD DETAILS.
  - EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
  - CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION.
  - UTILITY TRENCHES WITHIN A 1 ON 1 INFLUENCE OF CITY OF ANN ARBOR R.O.W. SHALL BE BACKFILLED IN ACCORDANCE WITH THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS.
  - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR DATA CUT SHEETS FOR PIPE MATERIALS, VALVES, CASTINGS, STEPS, AND MANHOLE STRUCTURES FOR REVIEW.
  - MAINTAIN A MINIMUM OF 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN WATER AND SEWERS, AND A MINIMUM OF 5' HORIZONTAL AND 12" VERTICAL SEPARATION BETWEEN WATER AND OTHER UTILITIES.
  - SUMP PUMPS PROPOSED IN ELEVATOR PITS ONLY. SEE ARCHITECTURAL PLANS FOR DETAIL.
- WATER SERVICE**
- HYDRANTS SHALL BE IN SERVICE DURING CONSTRUCTION.
  - THE PROPOSED BUILDING WILL BE SERVICED BY A NEW 4" DUCTILE IRON WATER LINE AND 8" DUCTILE IRON FIRE SUPPRESSION SERVICE LINE.
  - WATER SERVICE LINE IMPROVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ANN ARBOR ENGINEERING DESIGN STANDARDS.
  - THE 4-INCH DOMESTIC WATER SERVICE SHALL BE CONSTRUCTED OF DUCTILE IRON AND INSTALLED BY THE CONTRACTOR UNDER CITY OF ANN ARBOR INSPECTION.
  - ALL WATER SERVICE PIPES MUST BE LAID WITH A MINIMUM OF FIVE AND ONE-HALF (5.5) FEET, OF FINAL EARTH GRADE COVER, TYPICAL.
  - WATER SERVICE METERING SHALL OCCUR AT THE POINT THE SERVICE LEAD ENTERS THE BUILDING.
  - A BOOSTER PUMP SHALL BE USED FOR BUILDINGS WATER SERVICE LEADS.
- SANITARY SERVICE**
- SANITARY SEWER IMPROVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ANN ARBOR ENGINEERING DESIGN STANDARDS.
  - THE PROPOSED SANITARY SEWER LEAD SHALL BE PVC SDR-23.5 OR PVC SCH 40 UNLESS OTHERWISE NOTED.
  - NO CONNECTION TO RECEIVING STORM WATER, SURFACE WATER OR GROUNDWATER SHALL BE MADE TO SANITARY SEWER REQUIREMENTS.
  - NO FOOTING DRAINS SHALL BE CONNECTED TO THE BUILDING SANITARY SEWER.
  - THE INSTALLATION OF SANITARY LEAD AND TAP SHALL BE INSPECTED BY CITY STAFF.
- STORM WATER MANAGEMENT**
- STORM SEWER IMPROVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ANN ARBOR ENGINEERING DESIGN STANDARDS.
  - AN AGREEMENT FOR OPERATION AND MAINTENANCE OF ALL DETENTION SYSTEMS MUST BE COMPLETED BY THE OWNER AND SUBMITTED TO THE CITY PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE CITY.
  - STORM WATER RUNOFF GENERATED BY THE PROPOSED SITE IMPROVEMENTS WILL BE DETAINED ON-SITE, PER THE CITY OF ANN ARBOR REQUIREMENTS.
  - 12" STORM SEWER PIPE SHALL BE REINFORCED CONCRETE MEETING THE REQUIREMENTS OF ASTM C-76-III, UNLESS OTHERWISE NOTED. JOINTS SHALL BE TONGUE AND GROOVE PREMIUM JOINTS WITH RUBBER GASKETS.
  - 6" UNDERDRAIN SHALL BE PERFORATED PIPE WITH SOCK, MEETING THE REQUIREMENTS OF AASHTO M-252 AND THE GEOTEXTILE SHALL MEET AASHTO M-88 REQUIREMENTS.
  - ALL CATCH BASINS AND MANHOLES SHALL BE CONCRETE, CONFORMING TO ASTM C-478 WITH BUTYL RUBBER GASKETED JOINTS AND BOOT TYPE PIPE CONNECTORS, CONFORMING TO ASTM C-923.
  - NO PART OF THE PRIVATE STORM SEWER STRUCTURES SHALL ENCRoACH INTO THE PUBLIC RIGHT-OF-WAY.
  - VERTICAL CONSTRUCTION CANNOT BEGIN UNTIL UNTIL THE STORM WATER MANAGEMENT SYSTEM IS COMPLETED.
  - NO PRIVATE STORM SEWER SHALL BE LOCATED WITHIN THE RIGHT OF WAY.



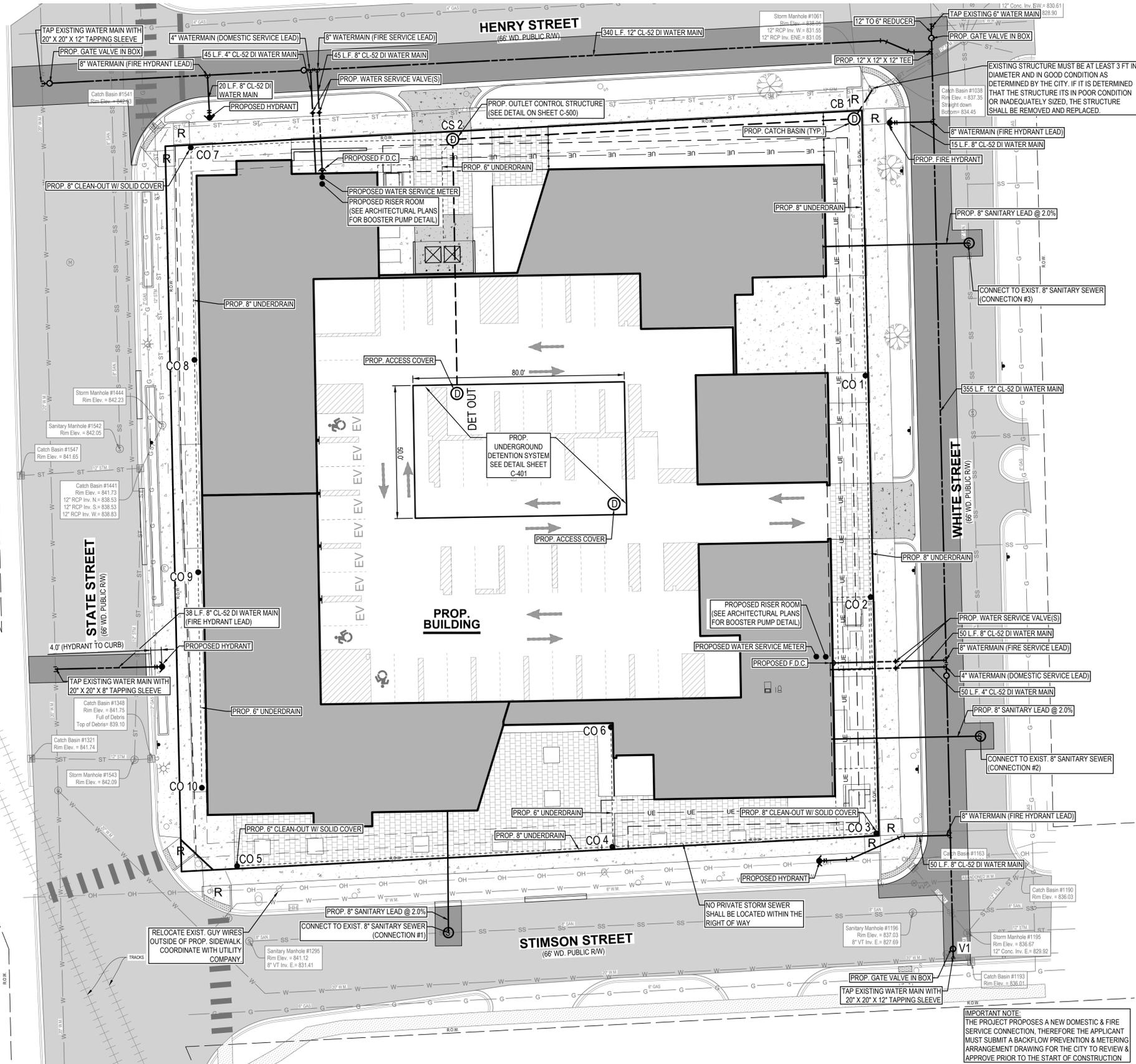
**811 Know what's below. CALL before you dig.**

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

NOTE: EXISTING UTILITIES AND SERVICE LINES IDENTIFIED AS "PLANS" WERE OBTAINED FROM AVAILABLE AS-BUILT RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND STATUS OF ALL UTILITIES AND SERVICE LINES PRIOR TO NEW CONNECTIONS.

**LEGEND**

- |                             |                        |                       |                  |                    |                  |             |              |             |           |                |              |           |                         |                       |           |        |                          |                      |                     |               |                 |                |                 |               |              |       |                    |            |         |                         |             |         |            |                  |           |            |          |                     |                 |                                  |                                   |                                |                     |                  |                         |
|-----------------------------|------------------------|-----------------------|------------------|--------------------|------------------|-------------|--------------|-------------|-----------|----------------|--------------|-----------|-------------------------|-----------------------|-----------|--------|--------------------------|----------------------|---------------------|---------------|-----------------|----------------|-----------------|---------------|--------------|-------|--------------------|------------|---------|-------------------------|-------------|---------|------------|------------------|-----------|------------|----------|---------------------|-----------------|----------------------------------|-----------------------------------|--------------------------------|---------------------|------------------|-------------------------|
| △ Benchmark / Control Point | ○ Catch Basin - Square | ○ Catch Basin - Round | ○ Deciduous Tree | ○ Electric Manhole | ○ Electric Meter | ○ Gas Meter | ○ Guy Anchor | ○ Hand Hole | ○ Hydrant | ○ Iron - Found | ○ Light Pole | ○ Mailbox | ○ Miss Dig Flag - Cable | ○ Miss Dig Flag - Gas | ○ Manhole | ○ Sign | ○ Sanitary Sewer Manhole | ○ Stormwater Manhole | ○ Telephone Manhole | ○ Transformer | ○ Traffic Light | ○ Utility Pole | ○ Water Manhole | ○ Water Valve | ○ Yard Drain | ○ Gas | ○ Overhead Utility | ○ Sanitary | ○ Storm | ○ Underground Telephone | ○ Watermain | ○ Fence | ○ Railroad | ○ Zoning Setback | ○ Asphalt | ○ Concrete | ○ Gravel | ○ Existing Building | PROPOSED PAVERS | PROPOSED BITUMINOUS (HEAVY DUTY) | PROPOSED CONCRETE (STANDARD DUTY) | PROPOSED CONCRETE (HEAVY DUTY) | PROPOSED GREENSPACE | PROPOSED DECKING | PROPOSED SYNTHETIC TURF |
|-----------------------------|------------------------|-----------------------|------------------|--------------------|------------------|-------------|--------------|-------------|-----------|----------------|--------------|-----------|-------------------------|-----------------------|-----------|--------|--------------------------|----------------------|---------------------|---------------|-----------------|----------------|-----------------|---------------|--------------|-------|--------------------|------------|---------|-------------------------|-------------|---------|------------|------------------|-----------|------------|----------|---------------------|-----------------|----------------------------------|-----------------------------------|--------------------------------|---------------------|------------------|-------------------------|



**NEDERVELD**

www.nederveld.com  
800.222.1868

**ANN ARBOR**  
3037 Miller Rd.  
Ann Arbor, MI 48103  
Phone: 734.929.6963

CHICAGO  
COLUMBUS  
GRAND RAPIDS  
HOLLAND  
INDIANAPOLIS

**PREPARED FOR:**  
Southtown by 4M, LLC  
Marge Poscher

2082 S. State Street  
Ann Arbor, MI 48104

**REVISIONS:**

Title: Site Plan Submittal  
Drawn: WL/TG Checked: BCU/JR Date: 10/21/2022  
Title: Site Plan Resubmittal  
Drawn: WL/TG Checked: BCU/JR Date: 02/22/2023  
Title: Site Plan Resubmittal  
Drawn: WL/TG Checked: BCU/JR Date: 04/24/2023

**SOUTHTOWN BY 4M**

**Utility Plan**

Block surrounded by S. State, Henry, White, and Stimson Streets  
PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R2E,  
CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

**STAMP:**

STATE OF MICHIGAN  
JASON L. VAN RYN  
ENGINEER  
No. 54207  
LICENSED PROFESSIONAL ENGINEER

**PROJECT NO:**  
21500282

**SHEET NO:**  
**C-400**

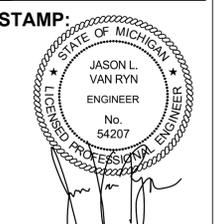
IMPORTANT NOTE:  
THE PROJECT PROPOSES A NEW DOMESTIC & FIRE SERVICE CONNECTION, THEREFORE THE APPLICANT MUST SUBMIT A BACKFLOW PREVENTION & METERING ARRANGEMENT DRAWING FOR THE CITY TO REVIEW & APPROVE PRIOR TO THE START OF CONSTRUCTION



PREPARED FOR: Southtown by 4M, LLC Marge Poscher 2082 S. State Street Ann Arbor, MI 48104

REVISIONS: Title: Site Plan Submittal Drawn: WJTG Checked: BCJ/VR Date: 10/21/2022 Title: Site Plan Resubmitted Drawn: WJTG Checked: BCJ/VR Date: 02/22/2023 Title: Site Plan Resubmitted Drawn: WJTG Checked: BCJ/VR Date: 04/24/2023

SOUTH TOWN BY 4M Storm Water Management Calculations Block surrounded by S. State, Henry, White, and Stimson Streets PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R2E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN



PROJECT NO: 21500282 SHEET NO: C-401

STORM WATER MANAGEMENT CALCULATIONS (SITE)

Design Basis: Use the Washtenaw County Water Resources Commission Rules and Guidelines, Revised: October 17, 2016

Table with columns: Determining Post-Development Cover Types, Areas, Curve Numbers, and Runoff Coefficients. Includes sub-tables for Rational Method Variables and NRCS Variables (Permeous).

Table with columns: First Flush Runoff Calculations (Vf), Pre-Development Bankfull Runoff Calculations (Vp), and Post-Development Bankfull Runoff Calculations (Vp,post).

Table with columns: 100-year 24-hour storm event (P), Curve Number (CN), and Infiltration Rate (IR).

Table with columns: Determine Time of Concentration for Applicable Flow Types (Tc), Runoff Summary and Onsite Infiltration Requirement, and Detention/Retention Requirement.

Table with columns: Determine Applicable BMP and Associated Volume Credits, Proposed BMP, and Natural Features Inventory.

Table with columns: Undergound Detention Storage Volume, Storage Elevations, and Outlet Control Structure.

STORM WATER MANAGEMENT CALCULATIONS (BUILDING)

Design Basis: Use the Washtenaw County Water Resources Commission Rules and Guidelines, Revised: October 17, 2016

Table with columns: Determining Post-Development Cover Types, Areas, Curve Numbers, and Runoff Coefficients. Includes sub-tables for Rational Method Variables and NRCS Variables (Permeous).

Table with columns: First Flush Runoff Calculations (Vf), Pre-Development Bankfull Runoff Calculations (Vp), and Post-Development Bankfull Runoff Calculations (Vp,post).

Table with columns: 100-year 24-hour storm event (P), Curve Number (CN), and Infiltration Rate (IR).

Table with columns: Determine Time of Concentration for Applicable Flow Types (Tc), Runoff Summary and Onsite Infiltration Requirement, and Detention/Retention Requirement.

Table with columns: Undergound Detention Storage Volume, Storage Elevations, and Outlet Control Structure.

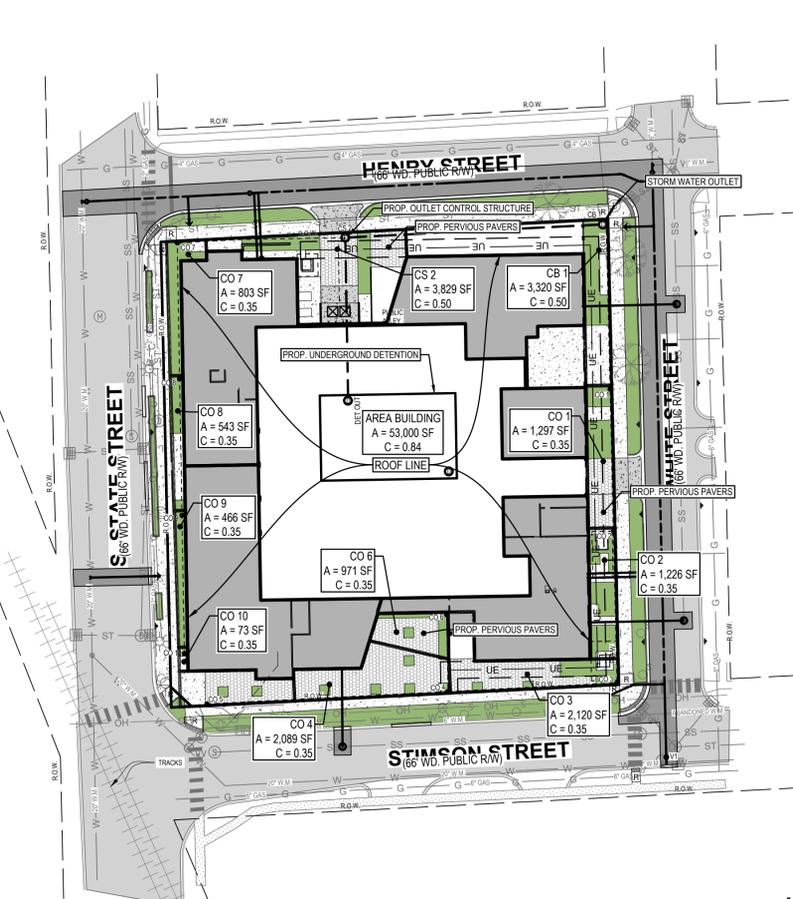
Table with columns: Undergound Detention Storage Volume, Storage Elevations, and Outlet Control Structure.

STORM SEWER STRUCTURE SCHEDULE

Table with columns: STR NUMBER, RIM, SIZE, DIRECTION & INVERT ELEVATION, STR DIA., CASTING/GRATE (OR APPROVED EQUAL).

STORM SEWER PIPE SCHEDULE

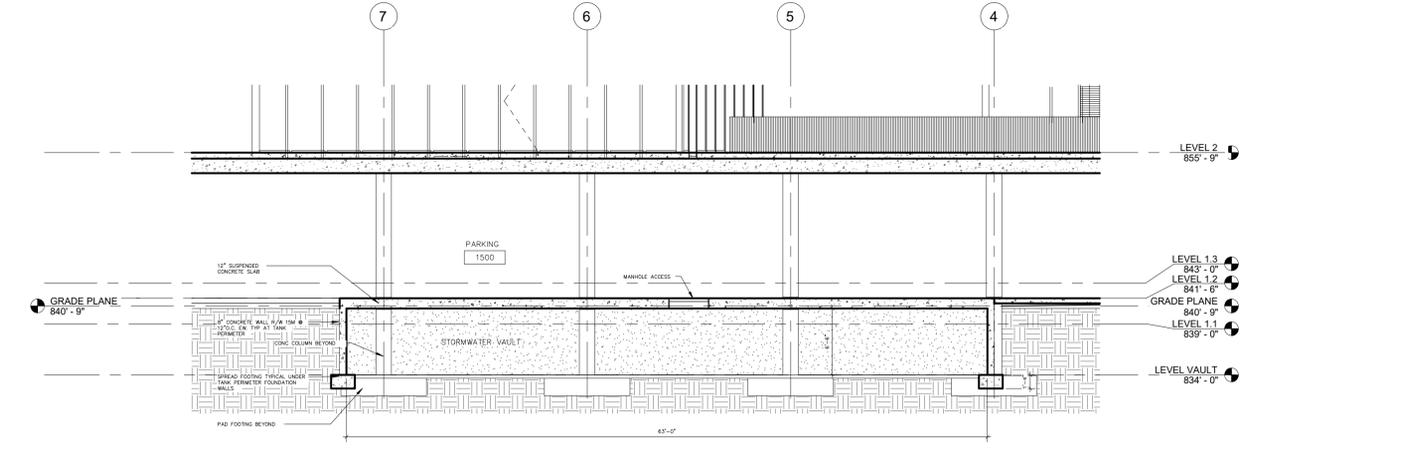
Table with columns: PIPE RUN, LENGTH OF LINE (FT), DIAM. OF PIPE (IN), SLOPE OF PIPE (%), PIPE MATERIAL.



DRAINAGE AREA MAP

STORM SEWER PIPE SCHEDULE

Large table with columns: FROM STR, TO STR, INCREMENT AREA (SF), INCREMENT AREA (ACRES), HYDROLOGY, HYDRAULICS, H.G. ELEVATION, F.G. ELEVATION, INVERT ELEV.



UNDERGROUND DETENTION CROSS SECTION

STORM WATER MANAGEMENT PLAN NARRATIVE

THE EXISTING DEVELOPED SITE CONTAINS TEN (10) SEPARATE PARCELS THAT DRAIN FROM WEST TO EAST TOWARD THE EXISTING CITY OF ANN ARBOR STORM SEWER SYSTEM LOCATED WITHIN THE HENRY STREET RIGHT-OF-WAY AT THE NORTHEAST CORNER OF THE SITE. THIS CITY OWNED CATCH BASIN AND THE SUBSEQUENT DOWNSTREAM STORM SEWER SYSTEM DRAIN TO THE EAST AND CONNECT TO THE PITTSFORD #3 DRAIN BEFORE HEADING SOUTHEAST TOWARD MALLETS CREEK. THIS EXISTING DRAINAGE PATTERN WILL BE MAINTAINED, AND THE EXISTING CATCH BASIN WILL BE USED AS AN OUTLET TO THE PROPOSED UNDERGROUND DETENTION SYSTEM FOR THE PROPOSED PROJECT.

811 Know what's below. CALL before you dig. UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

NOTE: EXISTING UTILITIES AND SERVICE LINES IDENTIFIED AS "PLAN" WERE OBTAINED FROM AVAILABLE AS-BUILT RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND STATUS OF ALL UTILITIES AND SERVICE LINES PRIOR TO NEW CONNECTIONS.

**NEDERVELD**

www.nederveld.com  
800.222.1868

**ANN ARBOR**  
3037 Miller Rd  
Ann Arbor, MI 48103  
Phone: 734.929.6963

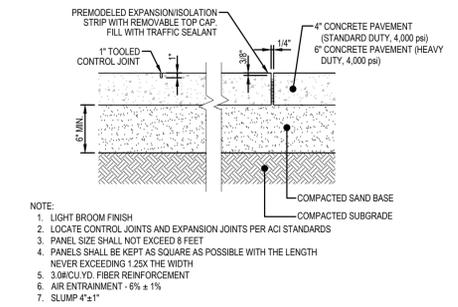
CHICAGO  
COLUMBUS  
GRAND RAPIDS  
HOLLAND  
INDIANAPOLIS

**PREPARED FOR:**  
Southtown by 4M, LLC  
Marge Poscher

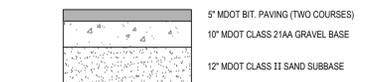
2082 S. State Street  
Ann Arbor, MI 48104

**REVISIONS:**

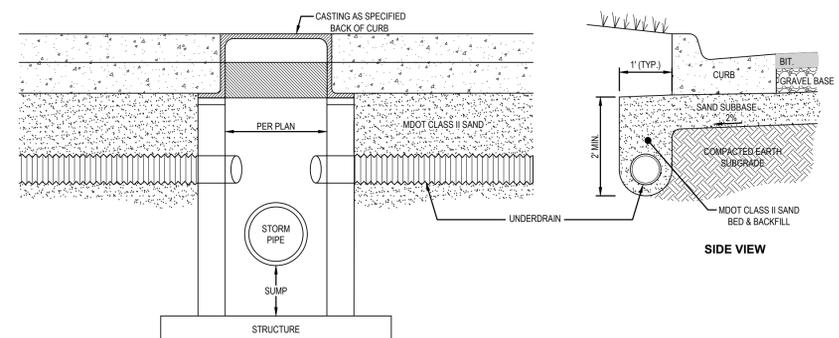
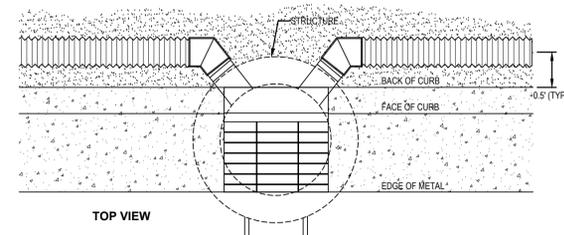
Title: Site Plan Submittal  
Drawn: WJTG Checked: BCJ/VR Date: 10.21.2022  
Title: Site Plan Resubmittal  
Drawn: WJTG Checked: BCJ/VR Date: 02.22.2023  
Title: Site Plan Resubmittal  
Drawn: WJTG Checked: BCJ/VR Date: 04.24.2023



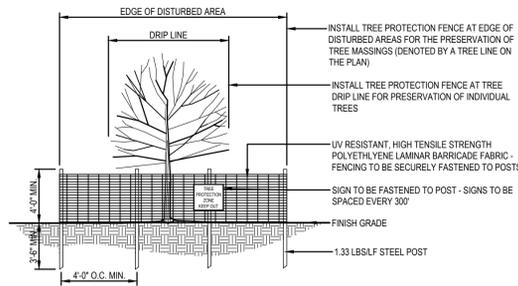
**CONCRETE PAVEMENT DETAIL**  
N.T.S.



**HEAVY DUTY BITUMINOUS PAVEMENT CROSS SECTION DETAIL**  
N.T.S.

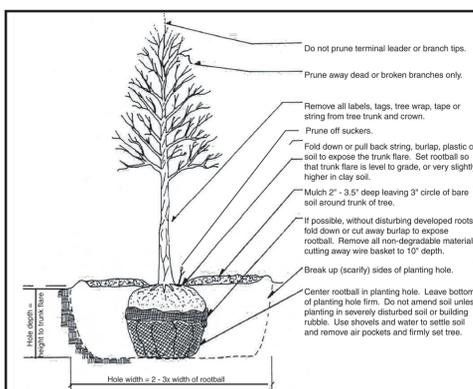


**UNDER DRAIN AT CURB DETAIL**  
N.T.S.



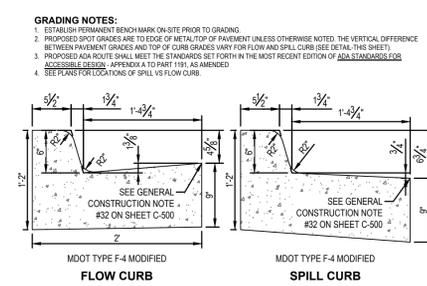
- ALL PLANTS DESIGNATED TO BE SAVED SHALL BE PROTECTED BY FENCING AS ILLUSTRATED.
- THERE SHALL BE NO STORAGE OF MATERIAL OR EQUIPMENT WITHIN THE BOUNDARIES OF THE TREE PROTECTION FENCING.
- TREE PROTECTION FENCINGS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
- ALL TREE PROTECTION SHALL BE INSTALLED BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO COMMENCEMENT OF DEMOLITION AND NEW CONSTRUCTION.

**TREE PROTECTION FENCING DETAIL**  
N.T.S.

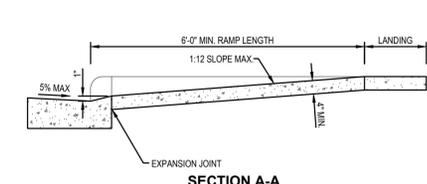
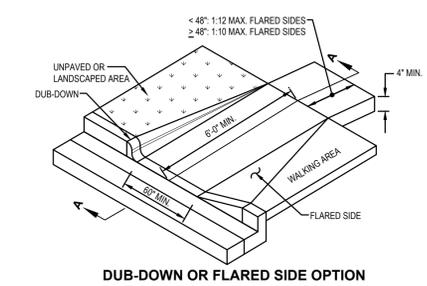


- Do not stake unless in heavy clay soil, windy conditions, 3" or greater diameter tree trunk or large crown. If staking is needed due to these conditions:
- Stake with 2 x 2 hardwood stakes, or approved equal, driven 6" - 8" outside of rootball.
  - Loosely stake tree trunk to allow for trunk flexing.
  - Stake trees just below first branch with 2" - 4" wide heat-shrink nylon or plastic straps (2 per tree on opposite sides of tree, connect from tree to stake horizontally. Do not use rope or wire through a hose.)
  - Remove all staking materials after 1 year.

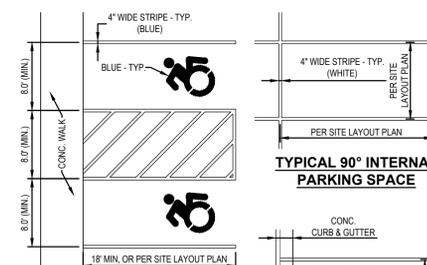
**TREE PLANTING DETAIL**  
SCALE: NO SCALE  
Original: Dr. Bonnie Appleton, Virginia Polytechnic Institute and State University, modified by the Michigan Department of Natural Resources, Forest Management Division, and the City of Ann Arbor.



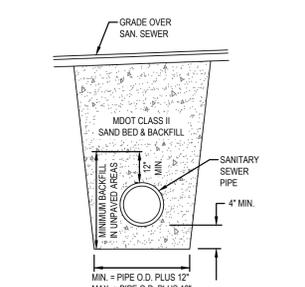
**24" CONCRETE CURB AND GUTTER DETAIL**  
N.T.S.



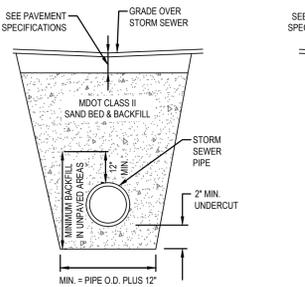
**SIDEWALK CURB RAMP DETAIL**  
N.T.S.



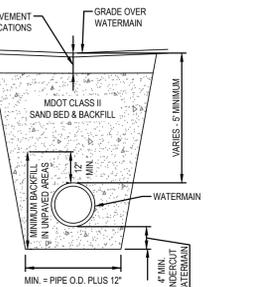
**PARKING SPACE MARKING DETAILS**  
N.T.S.



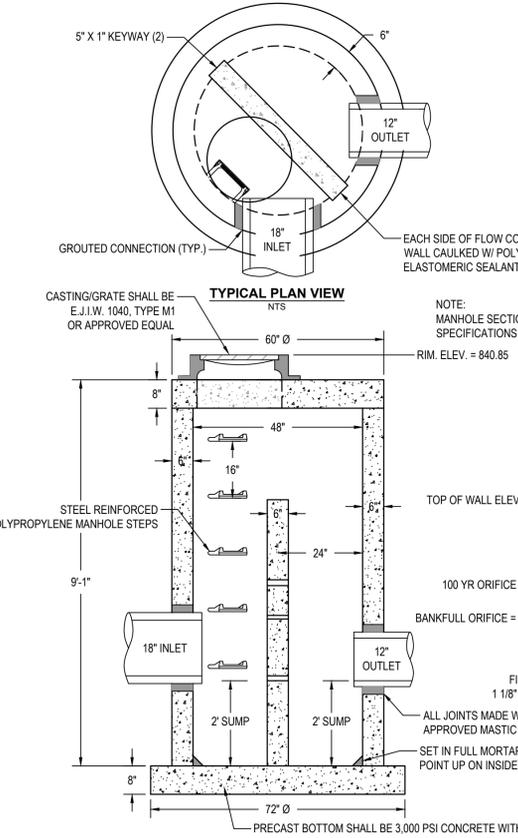
**SANITARY SEWER TRENCH AND BACKFILL DETAIL**  
N.T.S.



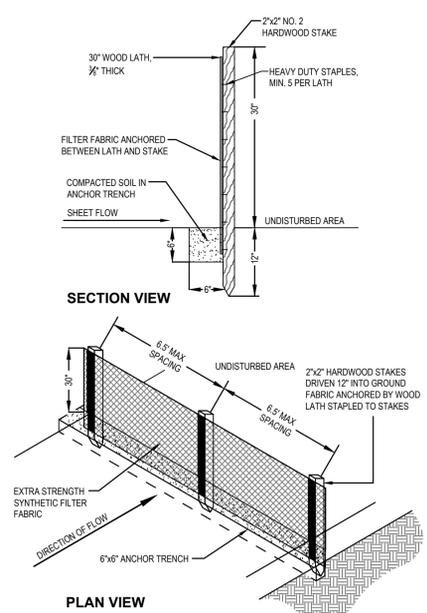
**STORM SEWER TRENCH AND BACKFILL DETAIL**  
N.T.S.



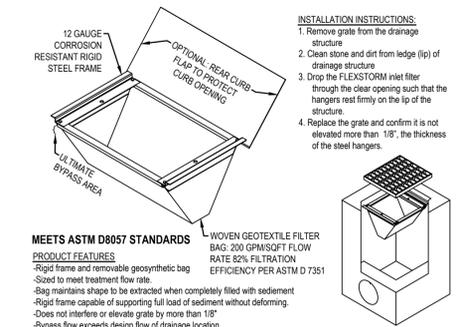
**WATER MAIN TRENCH AND BACKFILL DETAIL**  
N.T.S.



**48"Ø PRECAST OUTLET CONTROL STRUCTURE (CS 2)**  
N.T.S.



**SILT FENCE DETAIL**  
N.T.S.

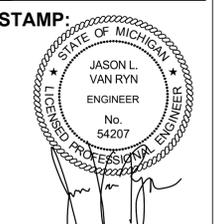


**FLEXSTORM INLET FILTER LITE DETAIL**  
N.T.S.

**SOUTHTOWN BY 4M**

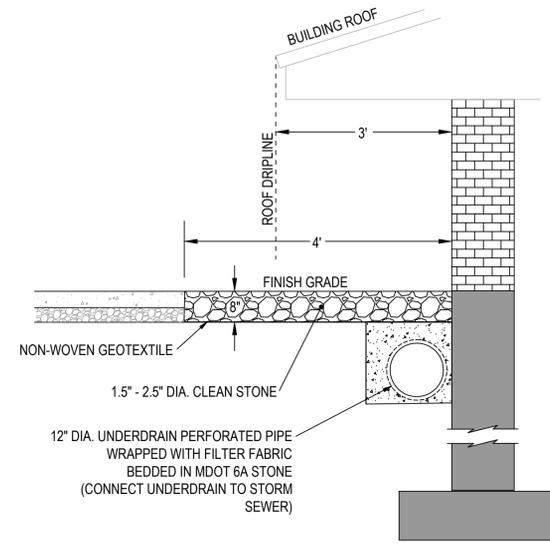
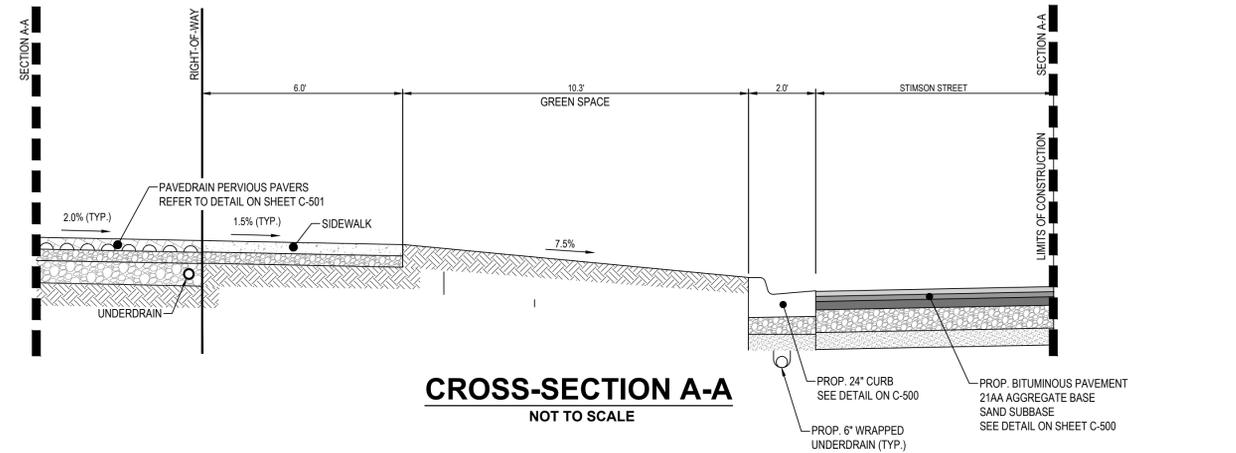
**Details & Specifications**

Block surrounded by S. State, Henry, White, and Stinson Streets  
PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R9E,  
CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

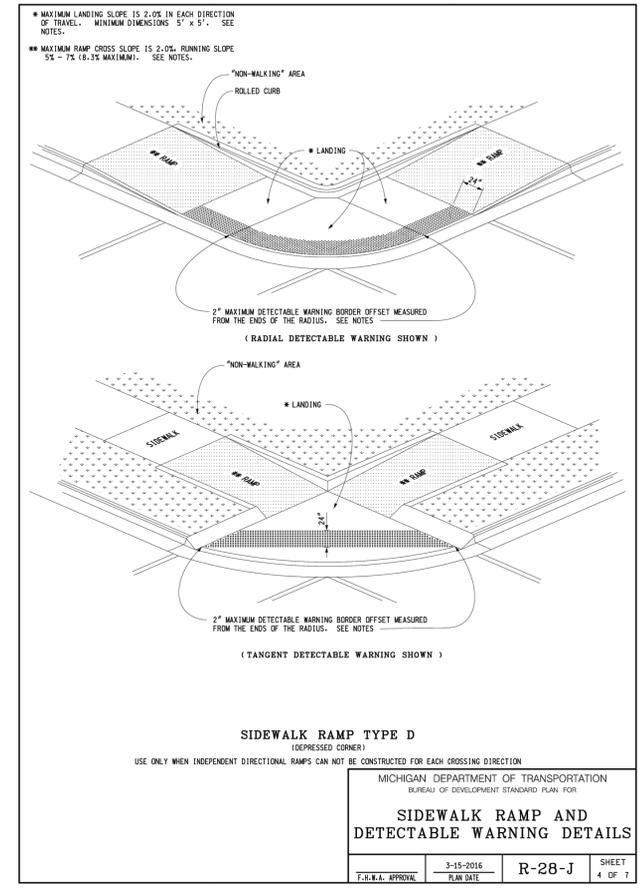


**PROJECT NO:**  
21500282

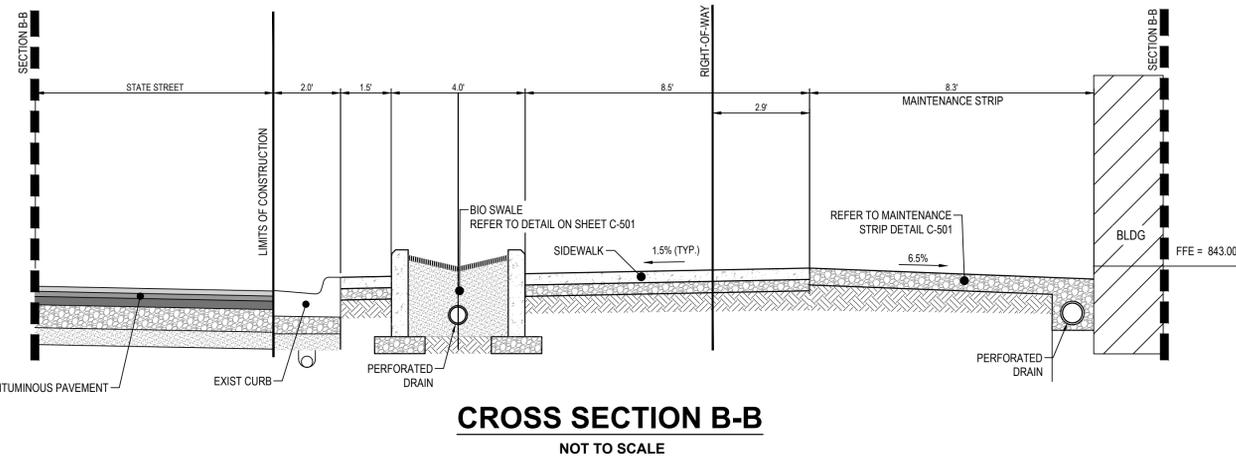
**SHEET NO:**  
**C-500**



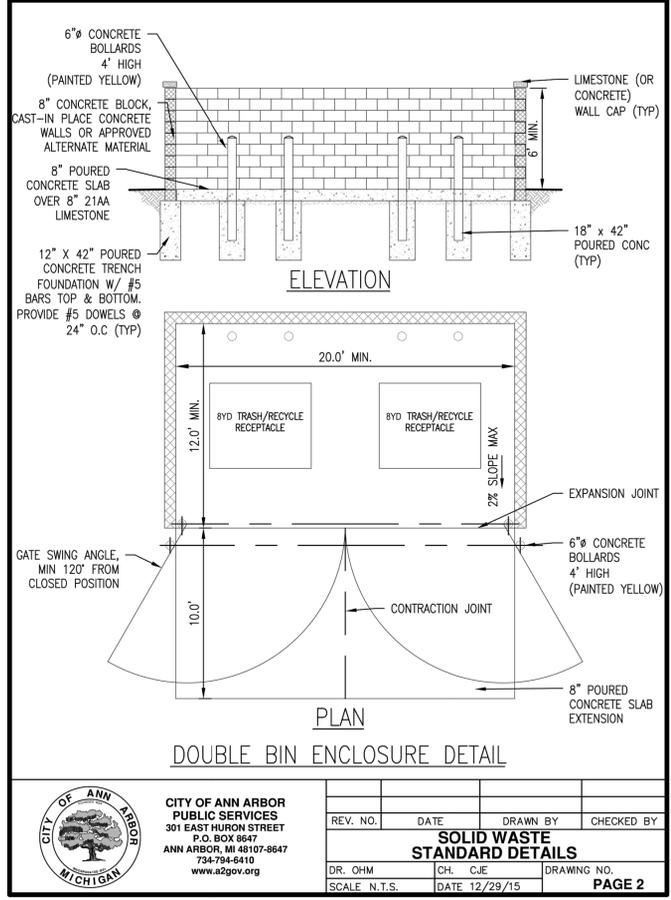
**BUILDING MAINTENANCE STRIP / ROOF RUNOFF INFILTRATION BED**  
N.T.S.



**SIDEWALK RAMP AND DETECTABLE WARNING DETAILS**  
MICHIGAN DEPARTMENT OF TRANSPORTATION  
BUREAU OF DEVELOPMENT STANDARD PLAN FOR  
R-28-J  
3-15-2016  
PLAN DATE  
SHEET 4 OF 7

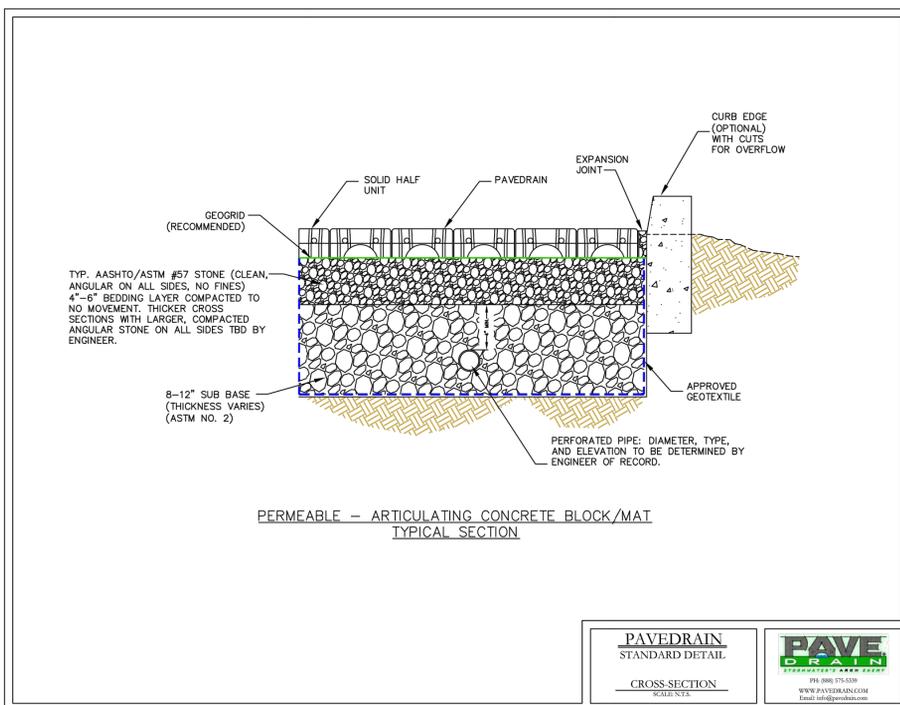


**CROSS SECTION B-B**  
NOT TO SCALE



**DOUBLE BIN ENCLOSURE DETAIL**  
CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET  
P.O. BOX 9647  
ANN ARBOR, MI 48107-9647  
734-794-6410  
www.a2gov.org

REV. NO.	DATE	DRAWN BY	CHECKED BY
DR. OHM	CH. CJE	DRAWING NO.	
SCALE N.T.S.	DATE 12/29/15	PAGE 2	



**PAVEDRAIN STANDARD DETAIL**  
CROSS-SECTION SCALE: N.T.S.  
**PAVE DRAIN**  
PERVIOUS PAVEMENT SYSTEM  
316.086.575.5339  
WWW.PAVEDRAIN.COM  
EMAIL: INFO@PAVEDRAIN.COM

**NEDERVELD**  
www.nederveld.com  
800.222.1868  
ANN ARBOR  
3037 Miller Rd.  
Ann Arbor, MI 48103  
Phone: 734.929.6963  
CHICAGO  
COLUMBUS  
GRAND RAPIDS  
HOLLAND  
INDIANAPOLIS

**PREPARED FOR:**  
Southtown by 4M, LLC  
Marge Poscher  
2082 S. State Street  
Ann Arbor, MI 48104

**REVISIONS:**

Title: Site Plan Submittal	Drawn: WJTG	Checked: BCJ/VR	Date: 10/21/2022
Title: Site Plan Resubmittal	Drawn: WJTG	Checked: BCJ/VR	Date: 02/22/2023
Title: Site Plan Resubmittal	Drawn: WJTG	Checked: BCJ/VR	Date: 04/24/2023

**SOUTHTOWN BY 4M**  
**Details & Specifications II**  
Block surrounded by S. State, Henry, White, and Stimson Streets  
PART OF THE SOUTHWEST 1/4 OF SECTION 33, T2S, R2E,  
CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

**STAMP:**

**PROJECT NO:**  
21500282  
**SHEET NO:**  
**C-501**



































SYNECDOCHE

1342 N MAIN ST, #11  
ANN ARBOR, MI 48104  
HELLO@SYNECDOCHE.DESIGN

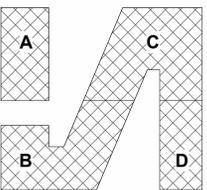
NOT FOR CONSTRUCTION  
FOR REVIEW ONLY

NEDERVELD  
3037 MILLER RD  
ANN ARBOR, MI 48103  
734.929.6963

ASPECT STRUCTURAL ENGINEERS  
101-190 W 3RD AVE  
VANCOUVER, BC V5Y 1E9  
HELLO@ASPECTENGINEERS.COM  
604.762.7844

GREENPATH DESIGN  
139 W LIBERTY STREET  
PLYMOUTH, MI 48170  
INFO@GREENPATH.DESIGN  
734.926.5593

ETS ENGINEERING, INC.  
P.O. BOX 11116  
ROYAL OAK, MI 48068  
248.744.0360



No.	Description	Date
	SCHEMATIC DESIGN	01/03/23
	SITE PLAN RESUB.	04/24/23

1610 WHITE STREET  
ANN ARBOR, MI 48104

### SOUTHTOWN BUILDING SECTIONS

PROJECT NUMBER 202121  
DATE 04/24/2023

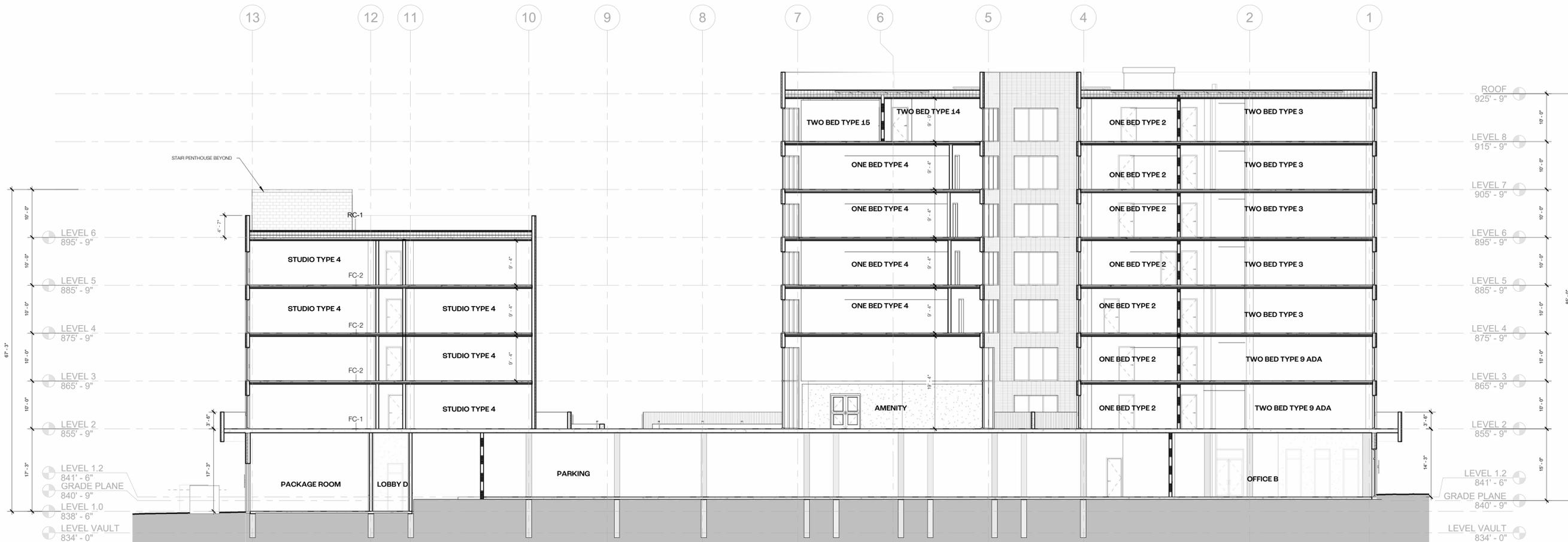
# A400

SCALE 3/32" = 1'-0"

4/24/2023 1:46:38 PM



2 E/W SECTION 2 - LOOKING SOUTH  
3/32" = 1'-0"



1 E/W SECTION 1 - LOOKING SOUTH  
3/32" = 1'-0"









