

PART OF THE SOUTHWEST 1/4 OF SECTION 8. T.3N., R.11E., CITY OF ROCHESTER HILLS. BEGINNING AT A POINT DISTANT NORTH 43 FEET AND N89°59'00"E 43 FEET FROM THE SOUTHWEST SECTION CORNER, THENCE NORTH 190 FEET, THENCE N89°59'00"E 190 FEET,

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES,

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

DANIEL LECLAIR NOT TO BE USED AS CONSTRUCTION DRAWINGS

DANIEL J.

ENGINEER





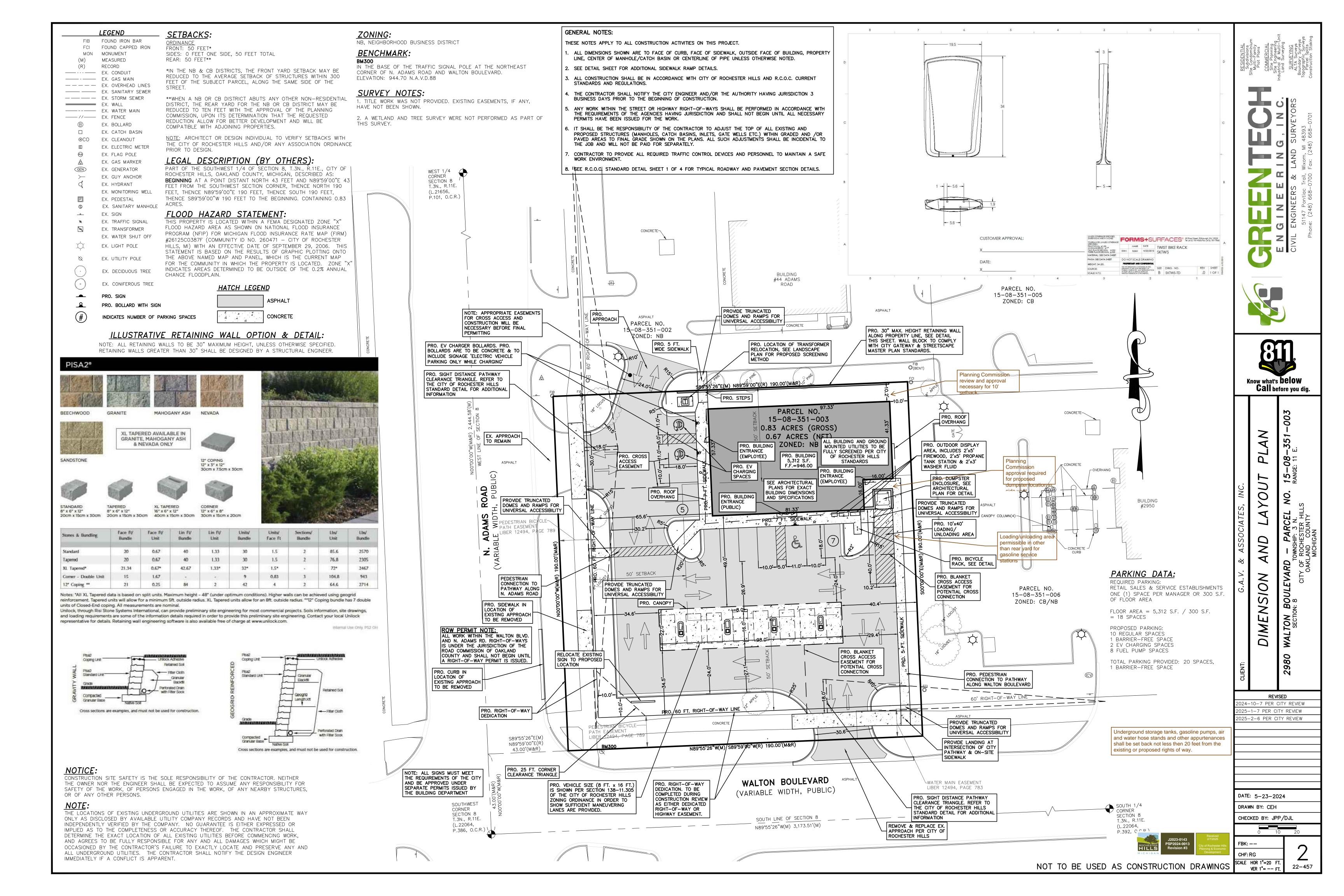
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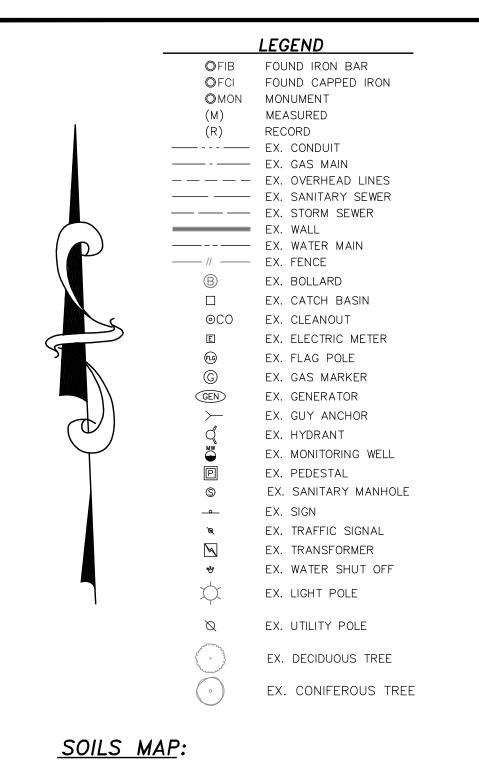
	REVISED
)24-	-10-7 PER CITY REVIEW
)25-	-1-7 PER CITY REVIEW
)25-	-2-6 PER CITY REVIEW

DATE: 5-23-2024 DRAWN BY: CEH CHECKED BY: JPP/DJL

CHF: RG

SCALE HOR 1"=20 FT







#### **SOILS LEGEND:**

EN VINNE IN E	and County, Nounty, Michi		550
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
59	Urban land	0.7	100.0%
Totals for Interest	Area of	0.7	100.0%

## **ZONING:**

NB, NEIGHBORHOOD BUSINESS DISTRICT

<u>ORDINANCE</u>

SIDES: O FEET ONE SIDE, 50 FEET TOTAL REAR: 50 FEET\*\*

\*IN THE NB & CB DISTRICTS, THE FRONT YARD SETBACK MAY BE REDUCED TO THE AVERAGE SETBACK OF STRUCTURES WITHIN 300 FEET OF THE SUBJECT PARCEL, ALONG THE SAME SIDE OF THE

\*\*WHEN A NB OR CB DISTRICT ABUTS ANY OTHER NON-RESIDENTIAL DISTRICT, THE REAR YARD FOR THE NB OR CB DISTRICT MAY BE REDUCED TO TEN FEET WITH THE APPROVAL OF THE PLANNING COMMISSION, UPON ITS DETERMINATION THAT THE REQUESTED REDUCTION ALLOW FOR BETTER DEVELOPMENT AND WILL BE COMPATIBLE WITH ADJOINING PROPERTIES.

NOTE: ARCHITECT OR DESIGN INDIVIDUAL TO VERIFY SETBACKS WITH THE CITY OF ROCHESTER HILLS AND/OR ANY ASSOCIATION ORDINANCE

### **BENCHMARK:**

PRIOR TO DESIGN.

IN THE BASE OF THE TRAFFIC SIGNAL POLE AT THE NORTHEAST CORNER OF N. ADAMS ROAD AND WALTON BOULEVARD. ELEVATION: 944.70 N.A.V.D.88

### **SURVEY NOTES:**

1. TITLE WORK WAS NOT PROVIDED. EXISTING EASEMENTS, IF ANY, HAVE NOT BEEN SHOWN.

2. A WETLAND AND TREE SURVEY WERE NOT PERFORMED AS PART OF THIS SURVEY.

## LEGAL DESCRIPTION (BY OTHERS):

PART OF THE SOUTHWEST 1/4 OF SECTION 8, T.3N., R.11E., CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, DESCRIBED AS: BEGINNING AT A POINT DISTANT NORTH 43 FEET AND N89°59'00"E 43 FEET FROM THE SOUTHWEST SECTION CORNER, THENCE NORTH 190 FEET, THENCE N89°59'00"E 190 FEET, THENCE SOUTH 190 FEET, THENCE S89°59'00"W 190 FEET TO THE BEGINNING. CONTAINING

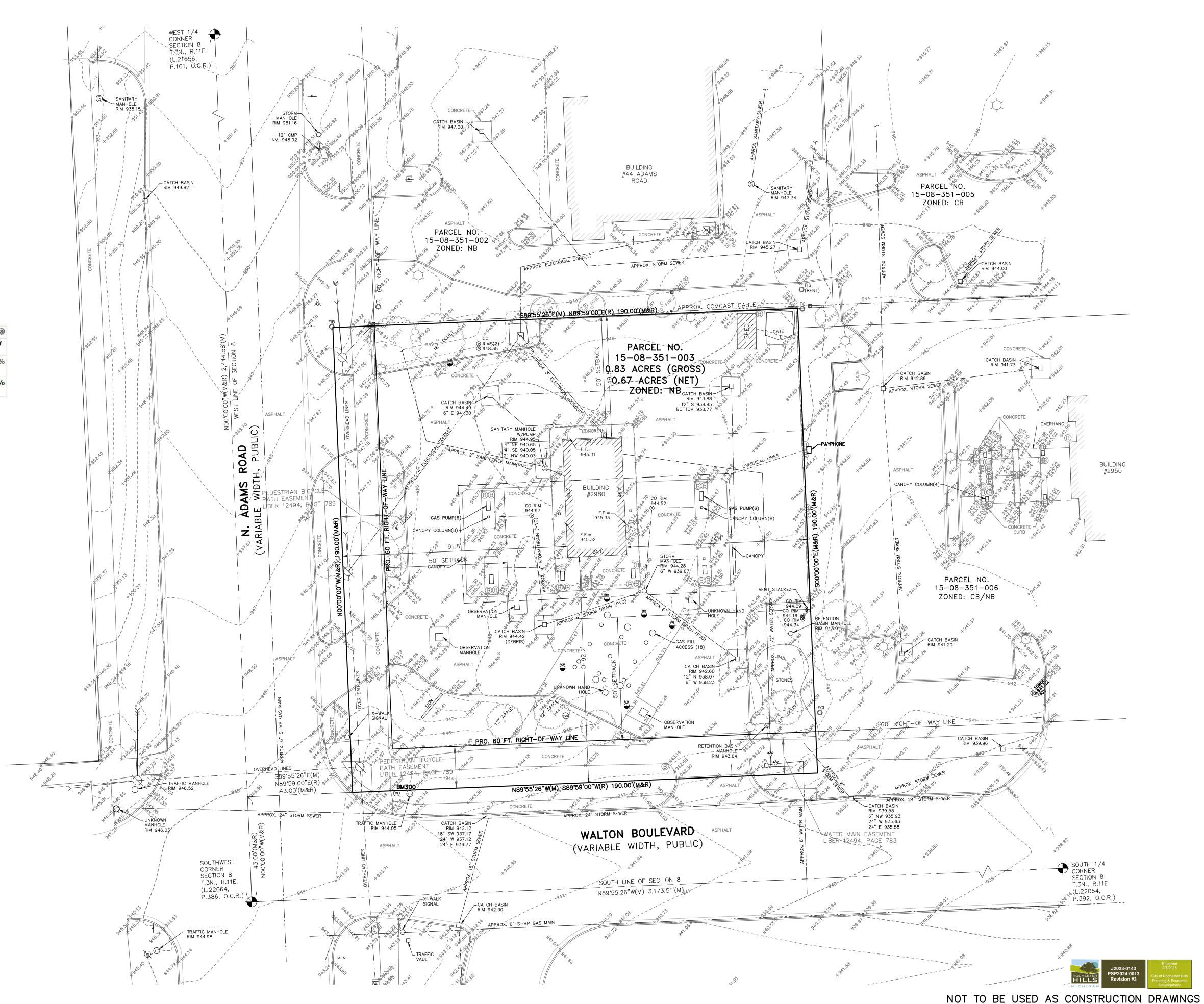
### **FLOOD HAZARD STATEMENT:**

IMMEDIATELY IF A CONFLICT IS APPARENT.

THIS PROPERTY IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" FLOOD HAZARD AREA AS SHOWN ON NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FOR MICHIGAN FLOOD INSURANCE RATE MAP (FIRM) #26125C0387F (COMMUNITY ID NO. 260471 - CITY OF ROCHESTER HILLS, MI) WITH AN EFFECTIVE DATE OF SEPTEMBER 29, 2006. THIS STATEMENT IS BASED ON THE RESULTS OF GRAPHIC PLOTTING ONTO THE ABOVE NAMED MAP AND PANEL, WHICH IS THE CURRENT MAP FOR THE COMMUNITY IN WHICH THE PROPERTY IS LOCATED. ZONE "X" INDICATES AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

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

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REVISED

024-10-7 PER CITY REVIEW

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025-2-6 PER CITY REVIEW

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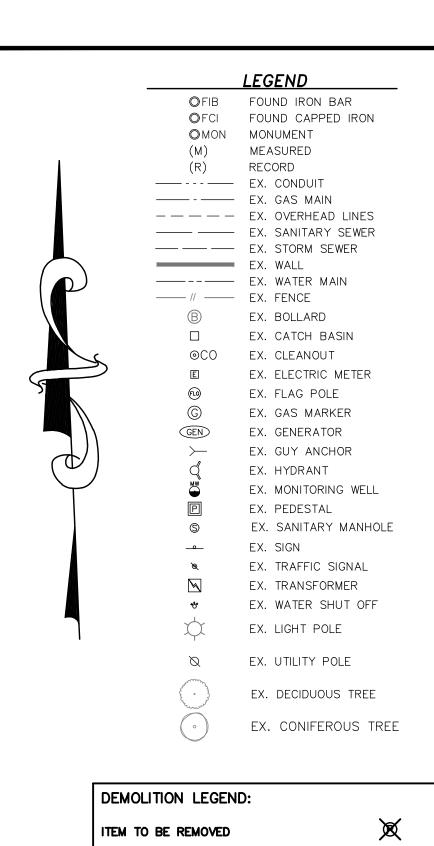
CHECKED BY: JPP/DJL

DRAWN BY: CEH

SCALE HOR 1"= 20 FT

VER 1"= -- FT.

0



## PAVEMENT TO BE REMOVED BUILDING/STRUCTURE REMOVAL <del>,// /// ///</del> UTILITY REMOVAL

CURB TO BE REMOVED

#### NB, NEIGHBORHOOD BUSINESS DISTRICT

<u>ORDINANCE</u>

SIDES: O FEET ONE SIDE, 50 FEET TOTAL

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#### **GENERAL DEMOLITION NOTES:**

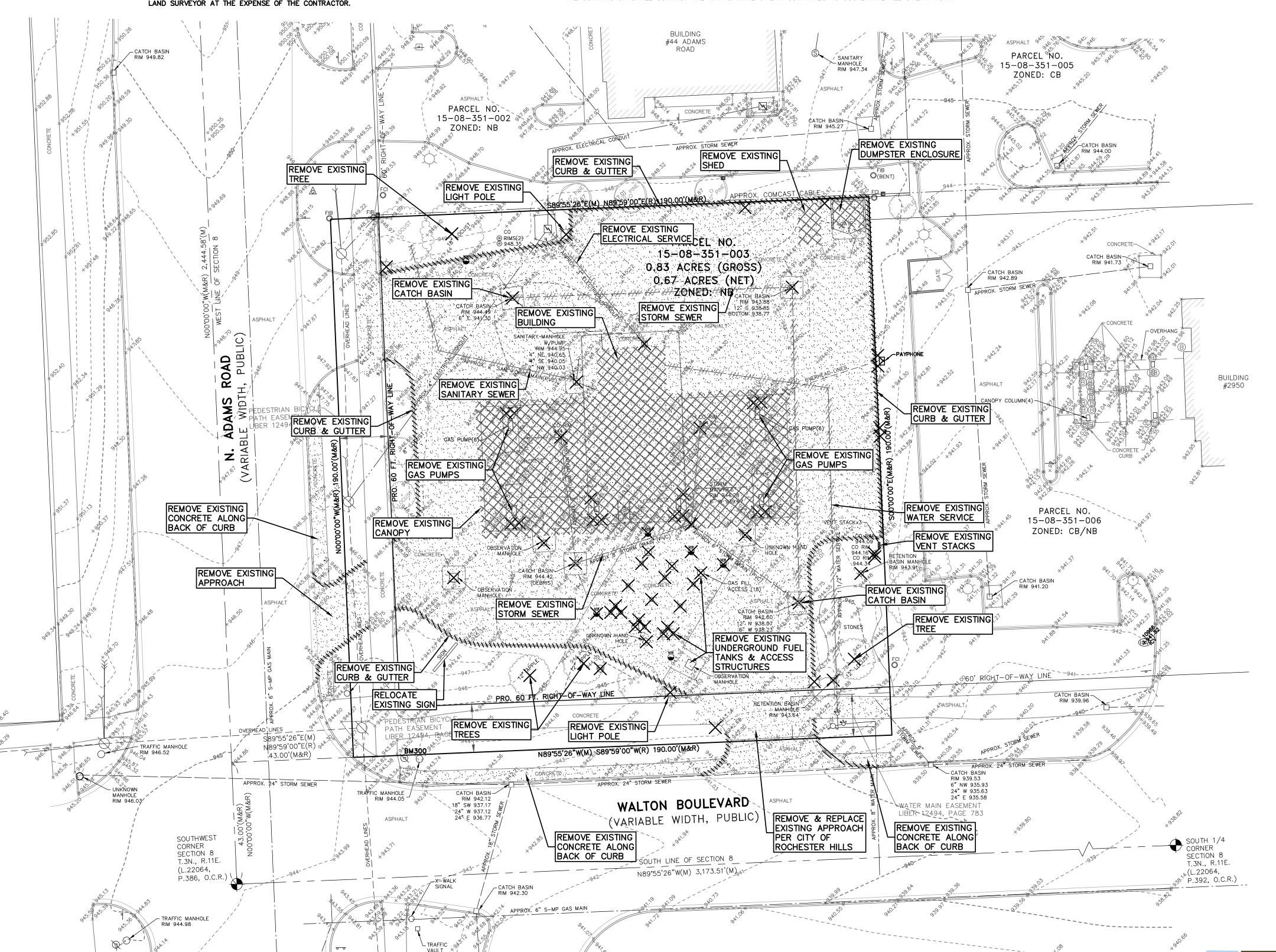
- 1. ALL WORK TO BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL CITY, COUNTY AND STATE REGULATIONS.
- 2. WITHIN THE SUBJECT PROPERTY, THE INTENT IS TO HAVE A CLEAN, CLEAR SITE, FREE OF ALL EXISTING ITEMS NOTED TO BE REMOVED IN ORDER TO PERMIT THE CONSTRUCTION OF THE NEW PROJECT.
- 3. ALL ITEMS NOTED TO BE REMOVED SHALL BE DONE SO AS PART OF THE CONTRACT FOR GENERAL CONSTRUCTION.
- 4. REMOVE AND DISPOSE OF ANY PAVEMENT, SIDEWALK, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED OFF SITE LANDFILL.
- 5. THE CONTRACTOR SHALL SECURE ALL PERMITS FOR HIS DEMOLITION AND DISPOSAL OF HIS DEMOLITION MATERIAL TO BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL POST BONDS AND PAY PERMIT FEES
- 6. THE DETAILED PLANS MAY NOT REFLECT ALL UTILITIES ON THE SITE OR SURROUNDING STREETS AND PROPERTIES. THE CONTRACTOR SHALL VERIFY LOCATIONS AND EXISTENCE OF UTILITY SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL MISS DIG, A MINIMUM 72 HOURS PRIOR TO CONSTRUCTION.
- 7. THE CONTRACTOR TO REMOVE ALL UTILITIES TO EXISTING STRUCTURES WHETHER SHOWN OR NOT OR ARRANGE FOR THE APPROPRIATE UTILITY COMPANY TO CUT AND CAP SERVICE PIPING AT THE PROPERTY LINE OR MAIN (AS REQUIRED). ALL SERVICES MAY NOT BE SHOWN ON THIS PLAN.
- 8. FOR ALL ITEMS NOTED TO BE REMOVED REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, BUT ALL UNDERGROUND ELEMENTS AS WELL INCLUDING BUT NOT NECESSARILY LIMITED TO: FOUNDATIONS, GRAVEL FILLS, TREE ROOTS, OLD PIPES, ETC.
- 9. BACK FILL ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK TO MEET THE REQUIREMENTS FOR FILL OUTLINED IN THE GEOTECHNICAL REPORT.
- 10. THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING CONSTRUCTION. ANY CONTRACTOR DISTURBED PINS, MONUMENTS, ETC. SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

#### **GENERAL DEMOLITION NOTES (CONTINUED):**

- 11. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPES, PAVEMENT, CURBS, SIDEWALKS OR LANDSCAPED AREAS DISTURBED DURING DEMOLITION TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION
- 12. ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
- 13. STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 14. SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
- 15. REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, UNDERGROUND UTILITIES, CONCRETE, CURB, TREES, ETC.
- 16. THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15' OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
- 18. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER CITY OF ANN ARBOR REQUIREMENTS AND IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) LATEST EDITION.
- 19. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO COORDINATE ALL UTILITY WORK.

HERE IS A RESTRICTIVE COVENANT FROM 2006 ON THIS PROPERT' RECORDED AS LIBER 37796 PAGE 033 AS A RESULT OF A UST LEAK. SIX (6) MONITORING WELLS WERE INSTALLED PER THE PLAN TO MONITOR THE CONTAMINATION. UNLESS DOCUMENTATION CAN BE PROVIDED THAT NDICATES A FULL REMEDIATION OF THE SITE HAS OCCURED IN ACCORDANCE WITH AN APPROVED CORRECTIVE ACTION PLAN, AND EGLE HAS ALLOWED FOR THE MONITORING WELLS TO BE REMOVED, THE LAND JSE AND RESOURCE LIMITATIONS OUTLINED IN THE RESTRICTIVE COVENANT WILL APPLY AND SHALL BE ADHERED TO DURING CONSTRUCTION. A DUE CARE PLAN MAY BE REQUIRED AT TIME OF CONSTRUCTION PLAN REVIEW.

COMMISSION FOR **OAKLAND COUNTY** 





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

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PARCEL

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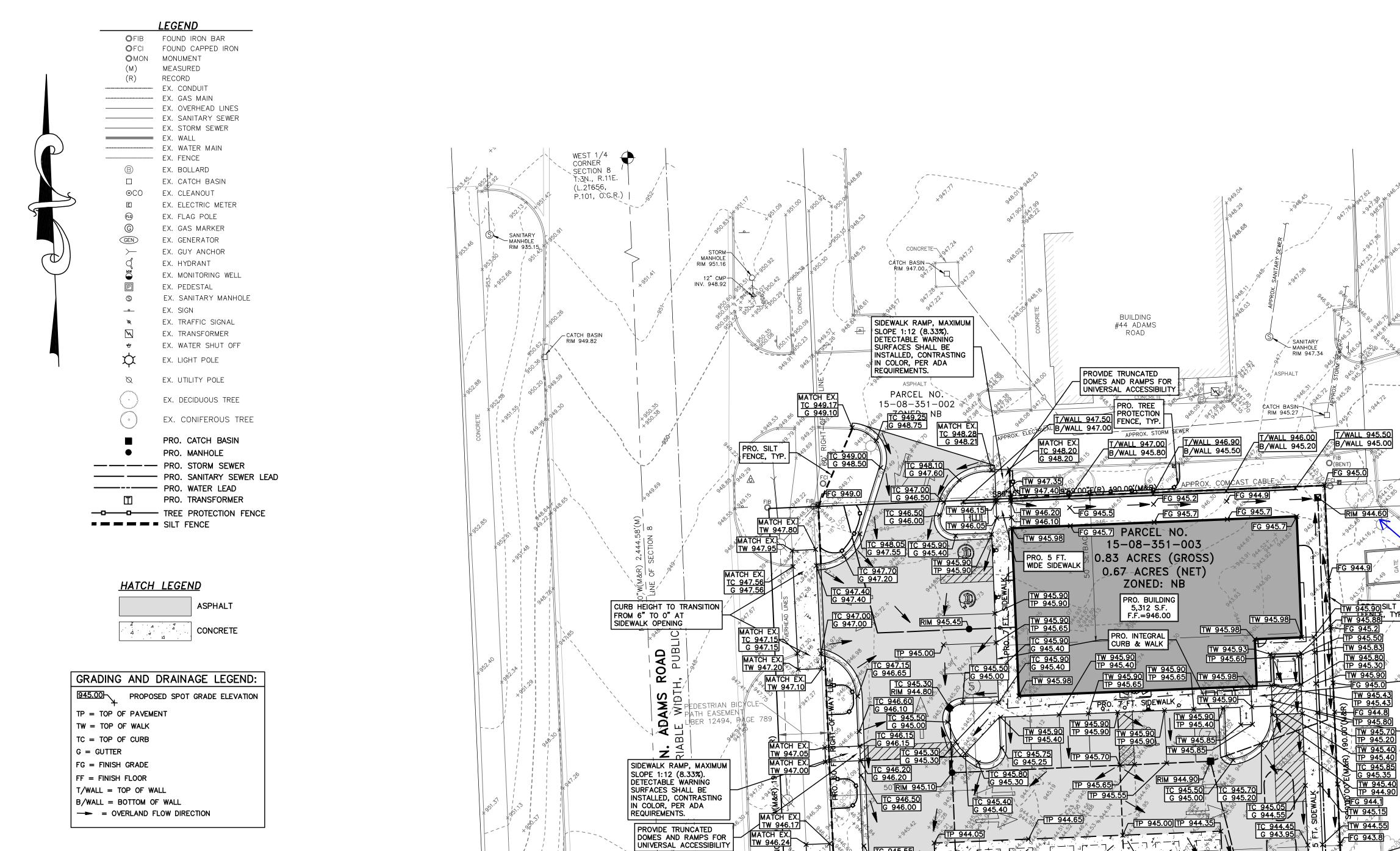
REVISED 024-10-7 PER CITY REVIEW 25-1-7 PER CITY REVIEW 25-2-6 PER CITY REVIEW

DATE: 5-23-2024

DRAWN BY: CEH CHECKED BY: JPP/DJL

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### **RESTORATION NOTE:**

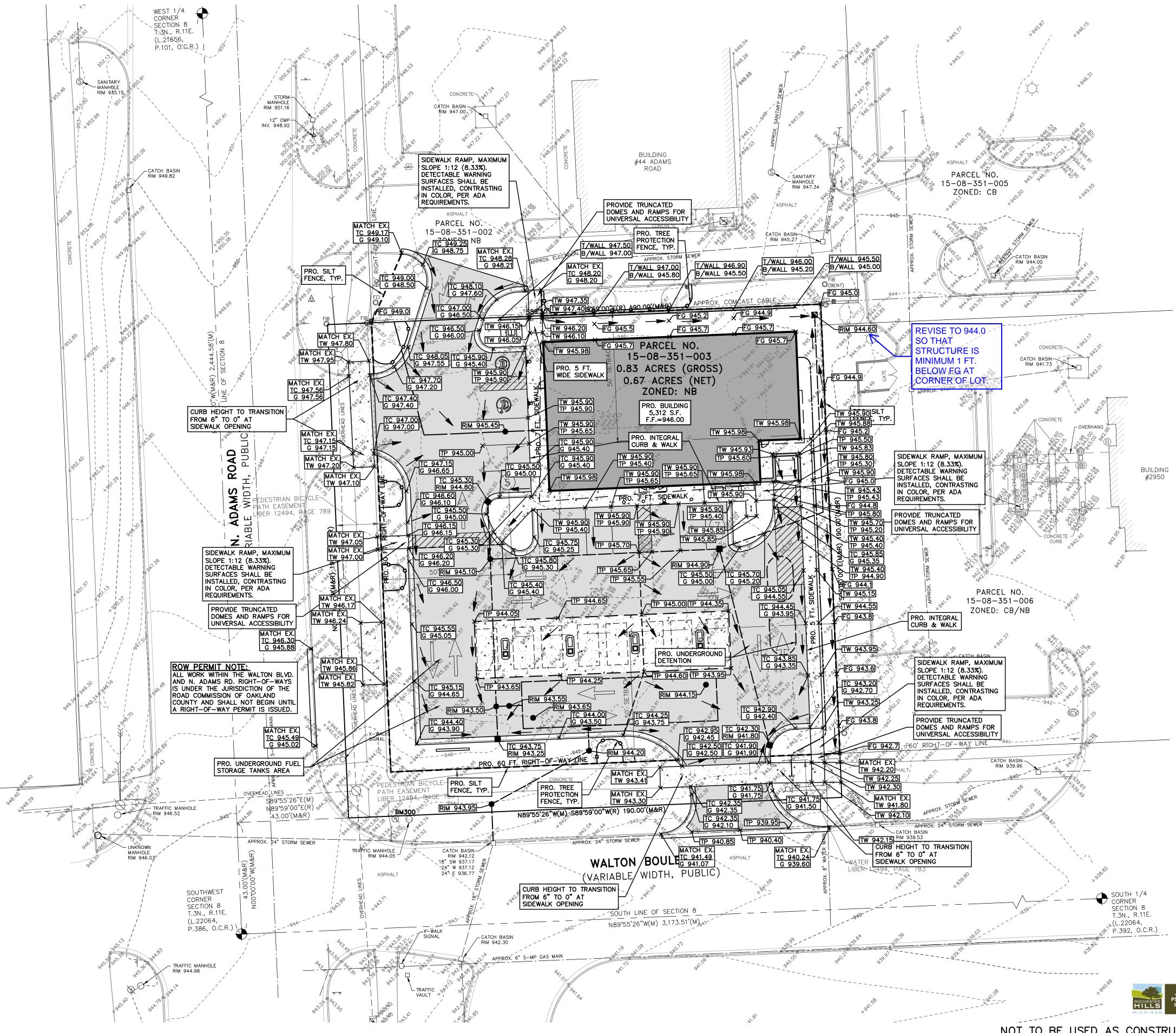
THE CONTRACTOR SHALL RESTORE AREAS DISTURBED FROM HIS CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER. LANDSCAPE AREAS REQUIRING RESTORATION SHALL INCLUDE MIN. 3" TOPSOIL AND SOD. PAVEMENT AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, WITH THE APPLICABLE CROSS-SECTION TO MATCH EXISTING.

# **EARTHWORK BALANCING NOTE:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

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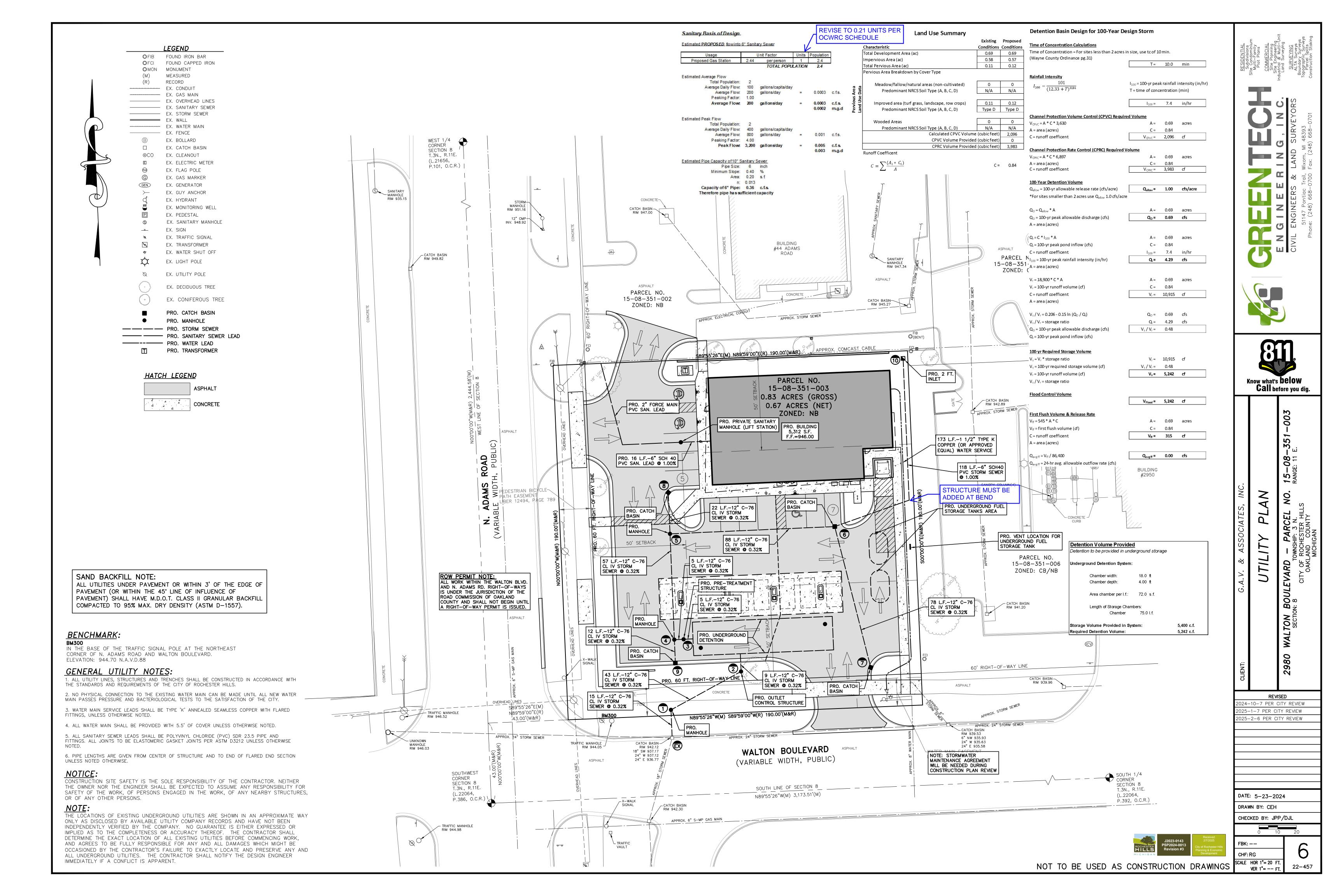
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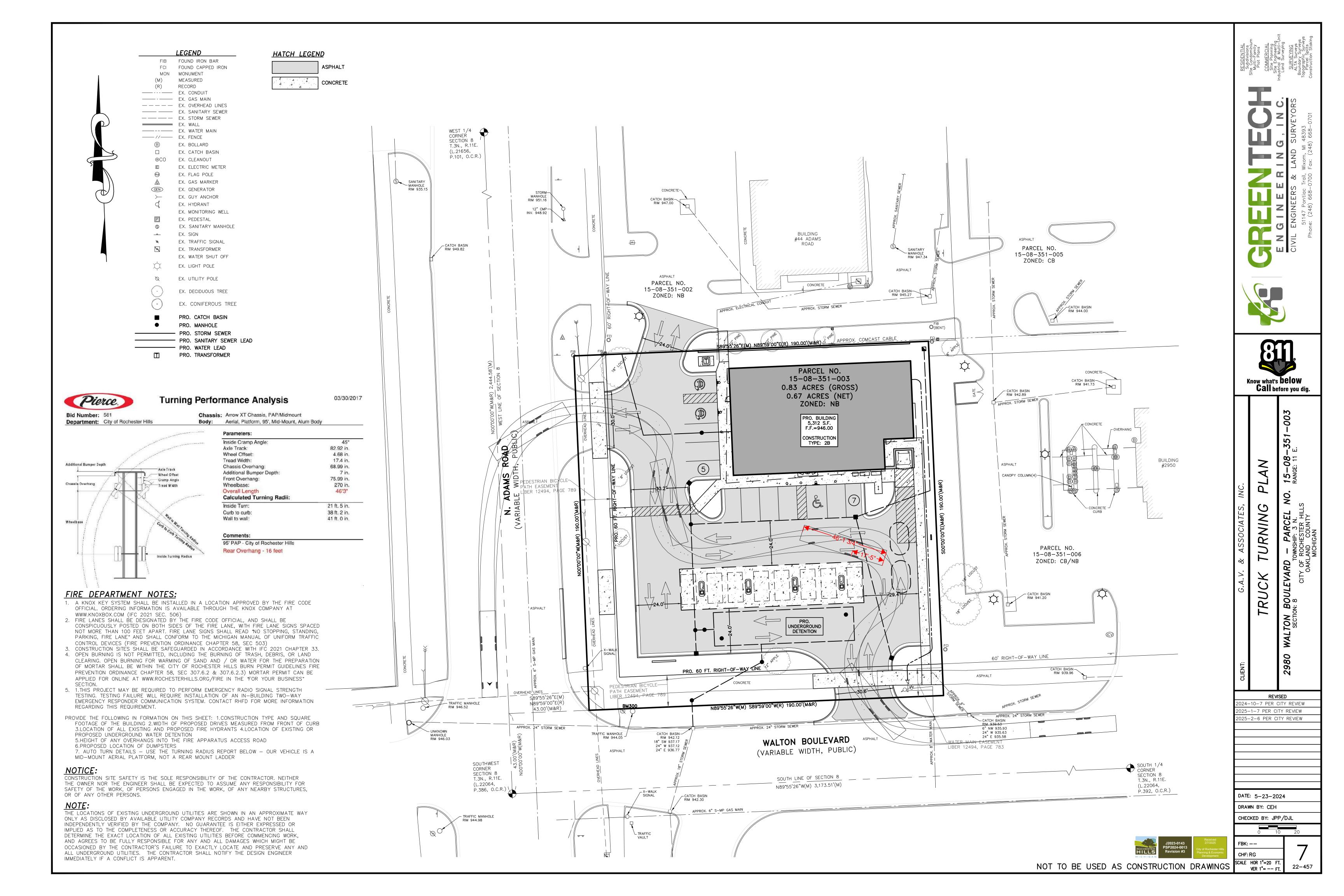
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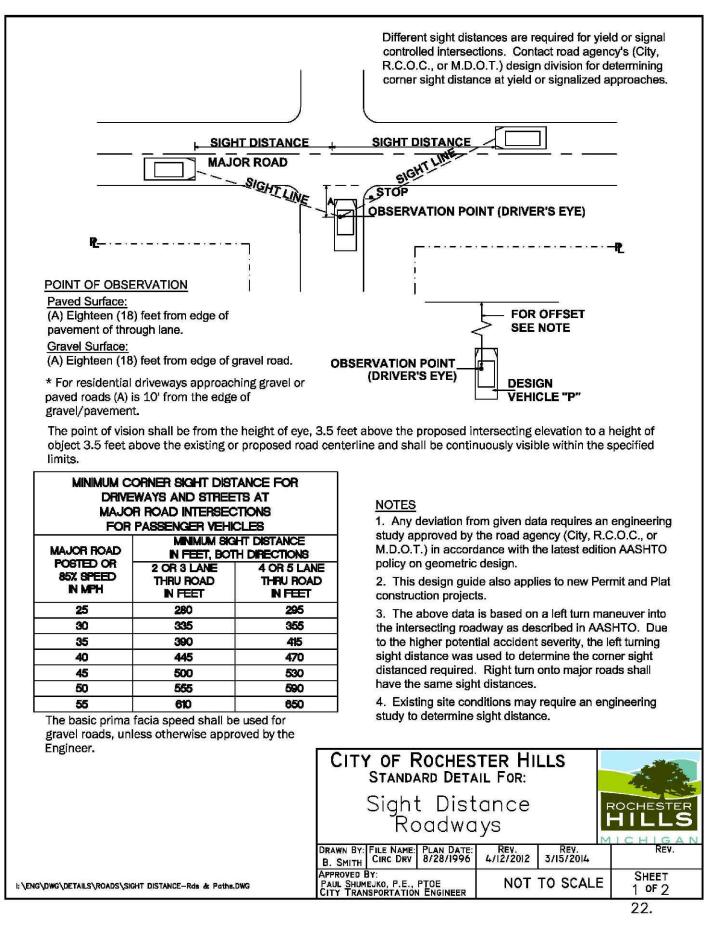
CHECKED BY: JPP/DJL

CHF: RG SCALE HOR 1"= 20 FT VER 1"= -- FT.

NOT TO BE USED AS CONSTRUCTION DRAWINGS







THE "R" DIMENSION IS SPECIFIED IN THE PUBLICATION "ADMINISTRATIVE RULES REGULATING DRIVEWAYS, BANNERS AND PARADES ON OR OVER HIGHWAYS".

-- CONTRACTION OR PLANE OF WEAKNESS JOINT

EXPANSION JOINT

- FLOW LINE

1'-6" + CURB & GUTTER

TEINFORCEMENT AS IN ADJACENT CURB & GUTTER

BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

DRIVEWAY OPENINGS

7-1-2014 R-29-I

& APPROACHES,

0.4 R 0.6 R

CONTRACTION OR PLANE OF WEAKNESS JOINT

NOTE:
FOR ROADWAYS WITH CONCRETE PAVEMENTS, LONGITUDINAL LANE TIES WILL
BE CONTINUOUS THROUGH THE DRIVEWAY DPENING AND THE SPACING OF THE
#5 BARS IN CONCRETE DRIVEWAYS SHALL BE ADJUSTED TO AVOID CONFLICT
WITH THE LONGITUDINAL LANE TIES.

CONTRACTION OR PLANE OF WEAKNESS JOINT

\*\*\* USE "N" JOINT IF THE DRIVEWAY AND CURB ARE POURED MODEL THICALLY OR SYMBOL "B" JOINT IF THEY ARE POURED IN STAGES.

CONCRETE DRIVEWAY OPENING LAYOUT

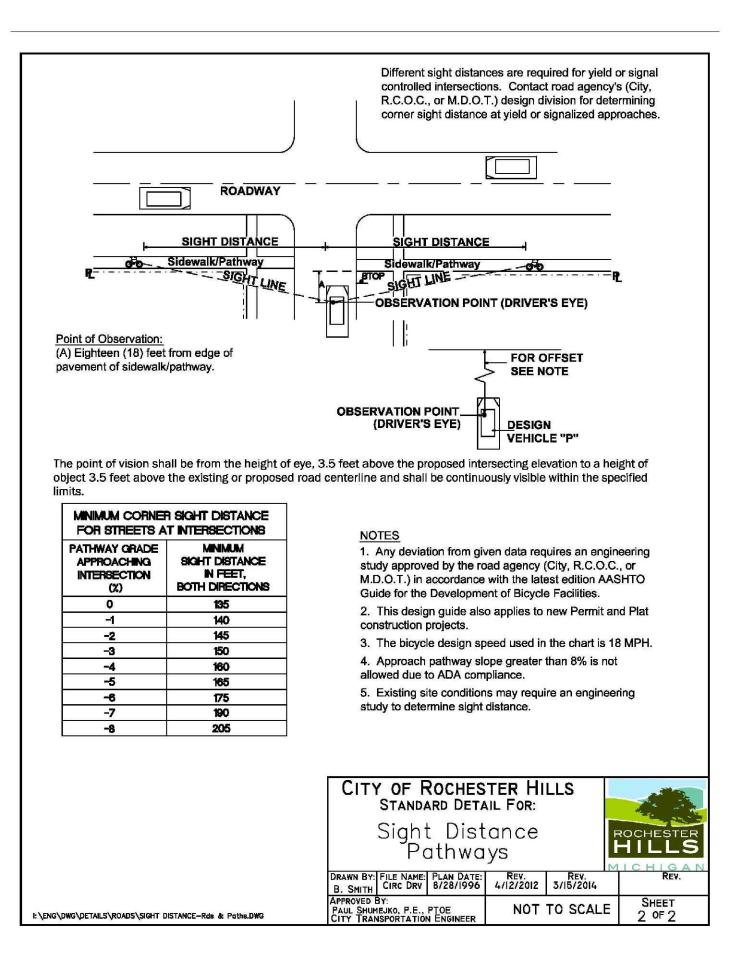
ALIGN DRIVEWAY RETURN TO FIT OPENING IN CURB & GUTTER

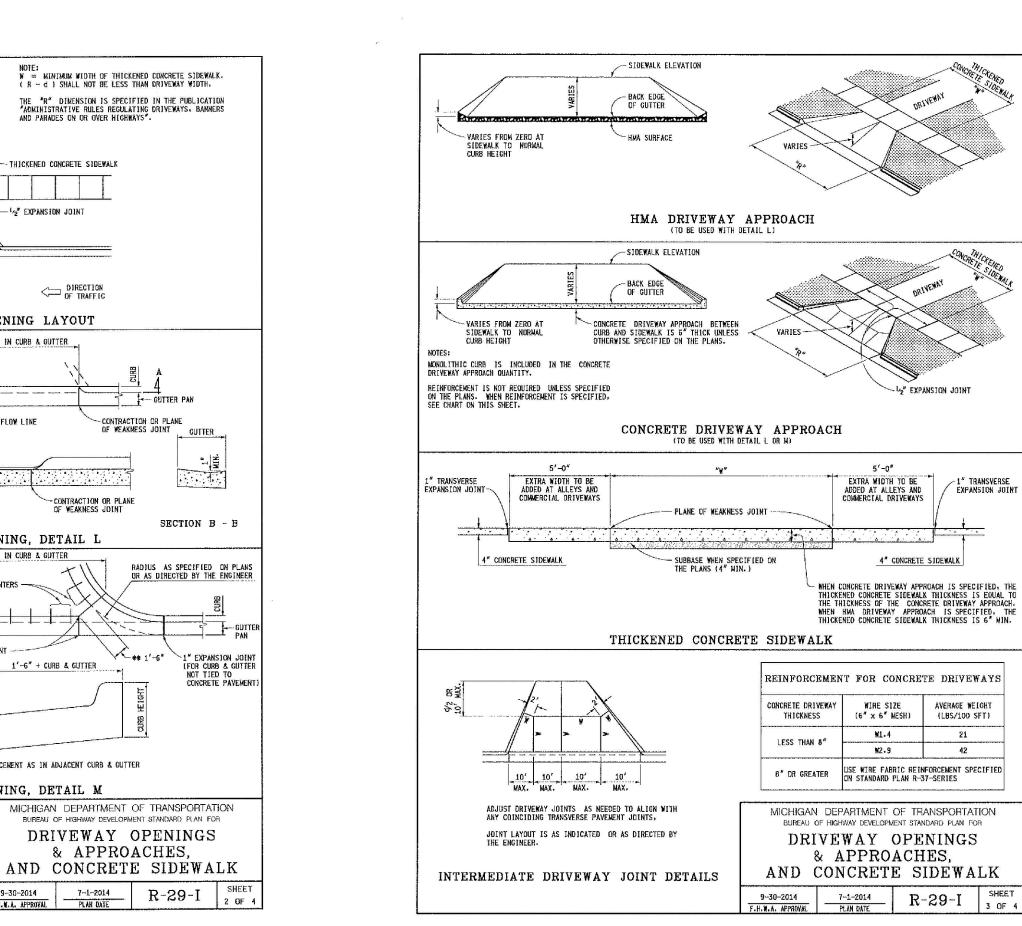
- FLOW LINE

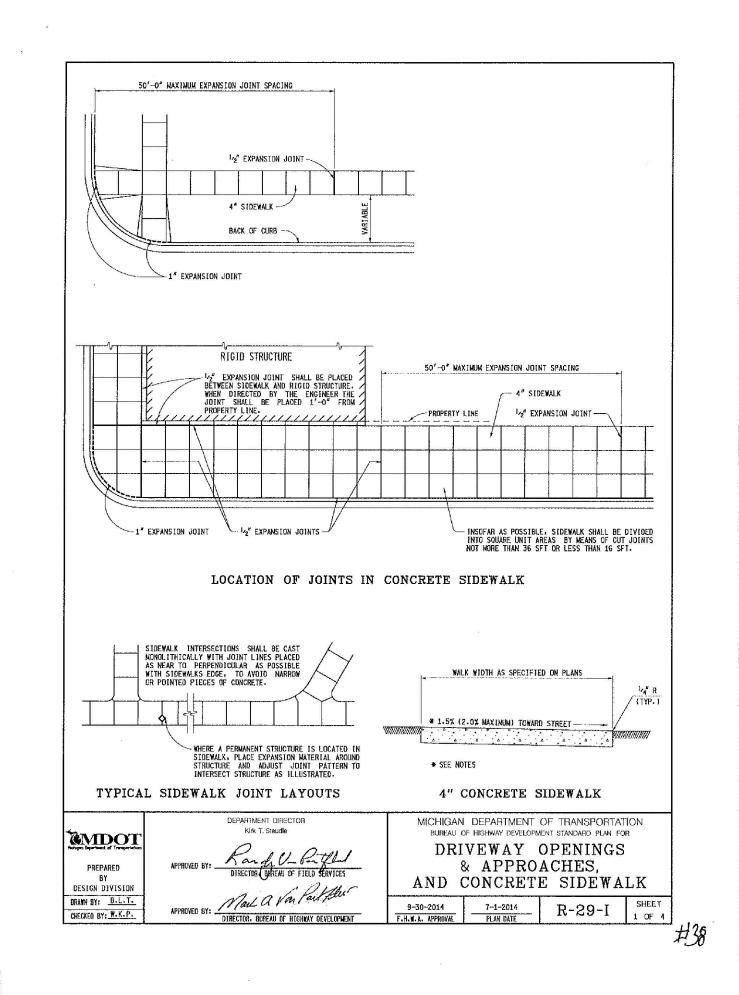
CONCRETE DRIVEWAY OPENING, DETAIL L

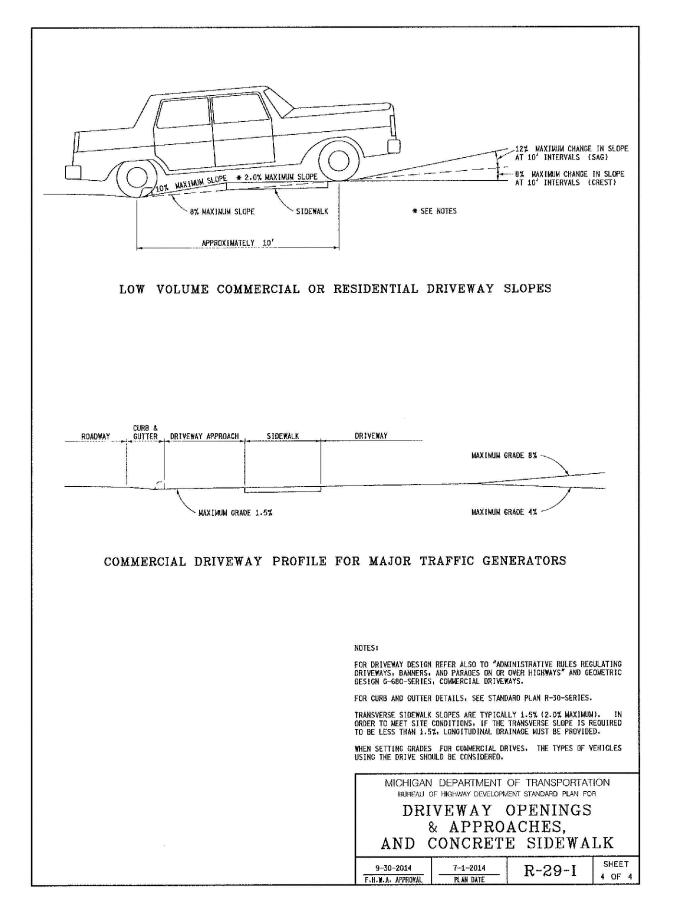
SECTION A - A CONCRETE DRIVEWAY OPENING, DETAIL M

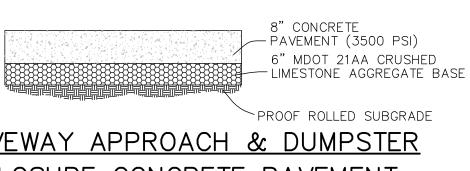
SECTION A - A





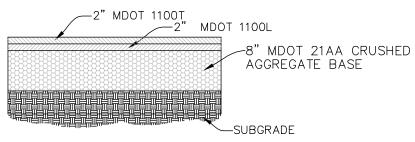




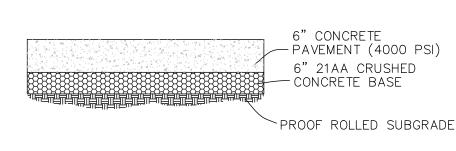


DRIVEWAY APPROACH & DUMPSTER ENCLOSURE CONCRETE PAVEMENT

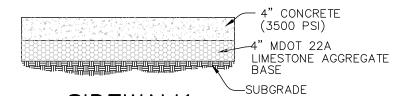
FOR USE IN THE PUBLIC RIGHT-OF-WAY & ON PRIVATE PROPERTY



ASPHALT PAVEMENT FOR USE ON PRIVATE PROPERTY

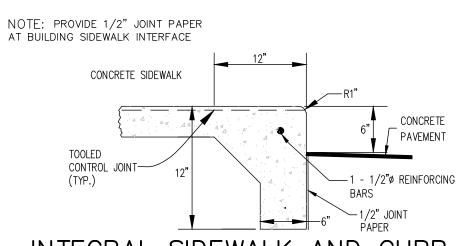


CONCRETE PAVEMENT FOR USE ON PRIVATE PROPERTY



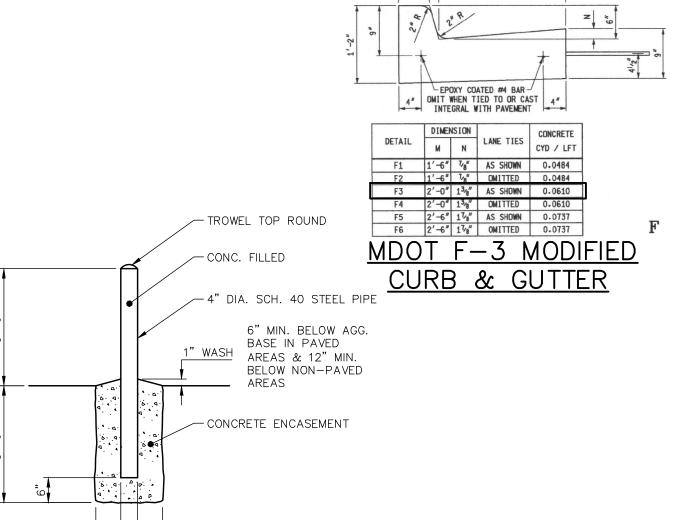
**SIDEWALK** FOR USE IN THE PUBLIC RIGHT-OF-WAY & ON PRIVATE PROPERTY NOTE: 8" THICK CROSS SECTION TO BE USED WHERE SIDEWALK CROSSES DRIVE APPROACHES

NOTE: CONTRACTOR SHALL COORDINATE PAVEMENT SECTIONS WITH OWNER AND GEOTECHNICAL ENGINEER'S RECOMMENDATIONS PRIOR TO CONSTRUCTION



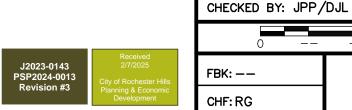
INTEGRAL SIDEWALK AND CURB FOR USE ON PRIVATE PROPERTY

ALONG THE FRONT OF PROPOSED BUILDING





NOT TO BE USED AS CONSTRUCTION DRAWINGS



Know what's **below** Call before you dig. 35 Ų<sub>Š</sub> **~** ≈ 7 0 BOULEVARD

S

WALTON SECTION

REVISED

024-10-7 PER CITY REVIEW

25-1-7 PER CITY REVIEW

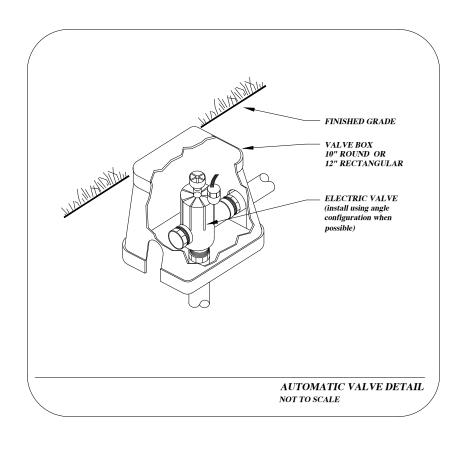
25-2-6 PER CITY REVIEW

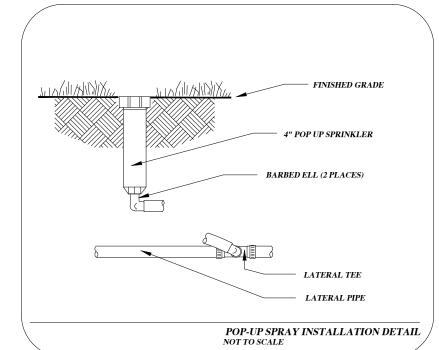
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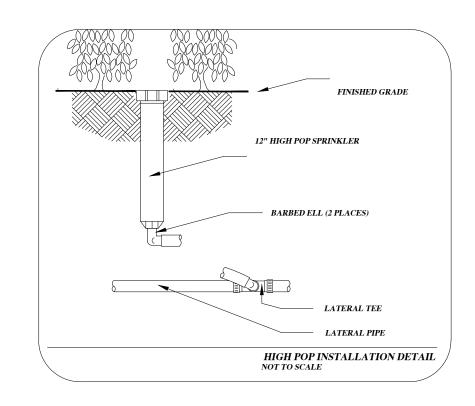
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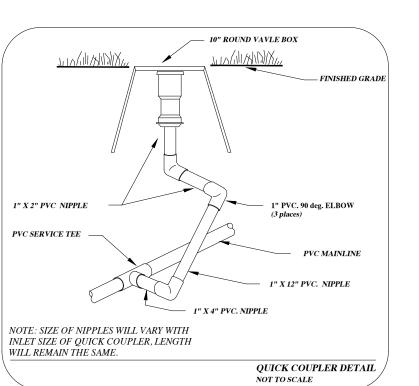
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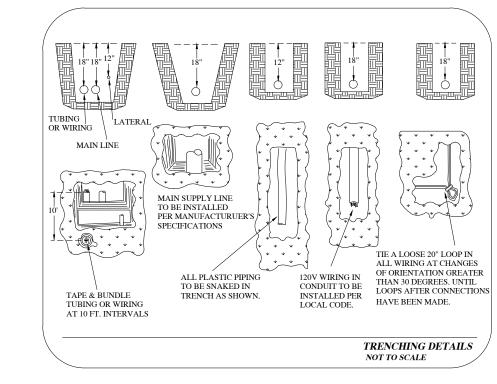








SHRUB BED IRRIGATION DETAIL



(1) SHRUBS - SEE PLANTING PLAN

2 IRRIGATION HEAD - EVERY TWO

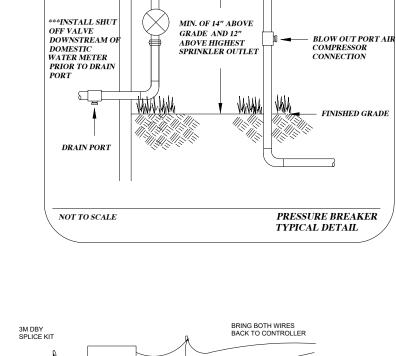
SHRUBS - SEE IRRIGATION PLANS

2" PVC

2" PVC

SLV

Road



APPROX. ELECTRICA

INSTALL AND CONNECT TO CW SUPPLY

OFF VALVE AND DRAIN VALVE INSIDE BUILDING. EXTEND 1" CW SUPPLY LINE

THROUGH WALL TO OUTSIDE. INSTALL BACKFLOW DEVICE. COORDINATE CORE

COORDINATE WITH OWNER'S

DRILL THROUGH BUILDING WALL AND SEAL

REPRESENTATIVE PRIOR TO INSTALLING.

INSTALLATION LOCATION WITH OWNERS REPRESENTATIVE PRIOR TO INSTALLING.

HARDWIRE CONTROLLER DIRECTLY TO

NEAREST CIRCUIT PANEL. INSTALL

BUILDING TO PROPOSED IRRIGATION

4" PVC SLV

\*\*\*INSTALL PER CODE

COMMUNICATION CABLE FROM

SYSTEM. PLACE ALL WIRES IN CONDUIT AND SECURELY FASTEN.

INSTALL 1" NORMALLY CLOSED

WIRELESS FLOW METER

Walton Boulevard

PRESSURE VACUUM BREAKER

2" PVC

EXTERIOR WALL

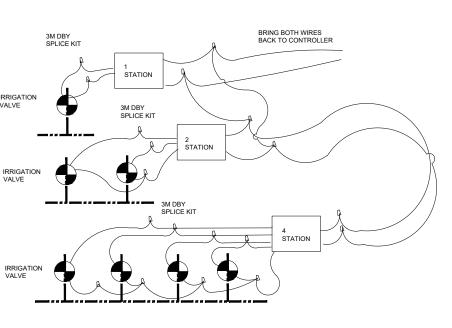
SAMPLE DECODER WIRING DIAGRAM

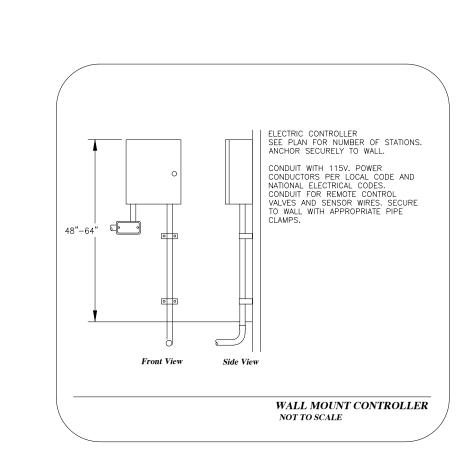
MASTER VALVE AND HUNTER HC-100

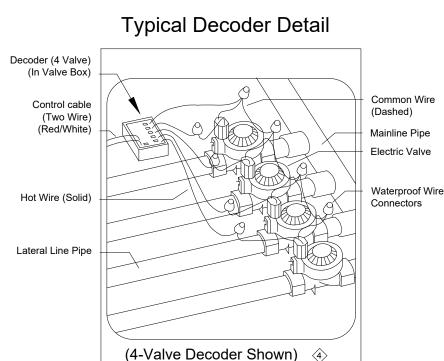
LINE IMMEDIATELY AFTER WATER METER INSIDE BUILDING. INSTALL WINTER SHUT

4" PVC SLV

4" PVC SLV







- 1. Refer to the specifications for installation details and descriptions, as well as, construction methods which will be accepted.
- 2. All work shall be in compliance with all local, state, and federal codes and ordinances. 3. All electrical connections shall be made using 3m DBYR-6 splice kits.
- 4. All control wiring downstream of the controller shall be HUNTER ID WIRE dual strand copper ID Wire ID1 Red UL approved for direct bury.
- 5. All lateral PVC fitting clamps shall be stainless steel worm gear type clamps. Pipes 1-1/2" or larger shall be double clamped.
- 6. Pipe routing is schematic. All heads are to be field adjusted to within 2' to take into consideration any obstruction. Final head placements are subject to the landscape architects
- 7. All sprinkler heads shall be mounted on 2 elbow pvc marlex swing joints as specified. 8. Contractor to verify existing controller location with owner's authorized representative prior to
- 10. Irrigation contractor's point of connection to water source shall be as noted on this sheet. 11. Irrigation contractor shall be responsible for determining and maintaining the irrigation schedule during the project construction and throughout the length of the warranty period.
- 12. The irrigation schedule shall deliver 1" of precipitation per week  $\pm/-$  natural rainfall quantities for turf grass.
- 13. Landscape material shall receive adjusted amounts of precipitation to maintain proper plant
- 14. Landscape and turf grass shall be irrigated separately.

9. All pipe not sized downstream of control valve is 1"...

- 15. Rotors and spray zones may not be combined to operate at the same time.
- 16. When specified, follow manufacturer's product recommendations concerning proper installation of water flow sensors. Allow proper straight pipe distances before and after flow sensors. 17. Follow manufacturers requirements to program irrigation controller for flow monitoring and

IRRIGATION LEGEND:

Hydrowise enabled systems. .

FIXED SPRAY POP-UP (12") w/ 2' or 4' radius nozzle PROS-12-PRS30 CV ▲ 2' or ▲ 4' Radius Nozzle

FIXED SPRAY POP-UP (4") w/ MPR nozzle PROS-04 PRS40-CV 

MASTER VALVE W/ EZDS decoder ICV-Series

ELECTRIC VALVE w/ EZDS decoders ICV-AS-ADJ Series

( QUICK COUPLER VALVE HQ44-RC

ELECTRIC CONTROLLER HCC EZ DECODER WALL MOUNT HPC-PCDM-EZDS A PRESSURE VACUUM BREAKER FEBCO 765P100 WR CLIK RAIN SENSOR DEVICE (wireless)

POINT OF CONNECTION TO IRRIGATION WATER SOURCE

PVC MAINLINE, SDR 26, BE,

——— POLYETHYLENE LATERALS, 100 PSI NSF APPROVED, Size as shown Controller and 

Station Number WATER REQUIREMENTS: 14 GPM @ 55 PSI.

(CONTRACTOR TO VERIFY PSI PUMP AVAILABILITY ON SITE PRIOR TO SYSTEM INSTALLATION)

PIPE SIZE CHART 0-12 GPM = 1" DIAMETER POLYETHYLENE PIPE 12-24 GPM =  $1\frac{1}{4}$ " DIAMETER POLYETHYLENE PIPE

 $24-30 \text{ GPM} = 1 \frac{1}{2}$ " DIAMETER POLYETHYLENE PIPE 30-60 GPM = 2" DIAMETER POLYETHYLENE PIPE

IRRIGATION NOTE: ALL LANDSCAPE AREAS, INCLUDING THOSE WITHIN THE R.O.W. SHALL BE IRRIGATED WITH AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. THE SYSTEM SHALL OPERATE IN COMPLIANCE WITH LOCAL STANDARDS AND SEASONAL RESTRICTIONS. SEPARATE ZONES SHALL BE PROVIDED FOR LAWN AREAS AND PLANTING BEDS. IRRIGATION SHALL BE DESIGNED IN THE MOST EFFICIENT MANNER NECESSARY TO **IRRIGATION DESIGN &** FULLY IRRIGATE ALL PLANTING AREAS.

\*\*\*COMMUNICATION CABLE TO BE 14 AWG HUNTER IDWIRE. DO NOT LOOP WIRE RUNS BACK TO IRRIGATION CONTROLLER OR IN FIELD. DO NOT EXCEED A MAXIMUM RUN LENGTH OF 1500 FEET.



4843 Kittery NW Comstock Park, Michigan 49321 Tel. (248) 789-0330 email: abarnes@lqdassets.org www.lqdassets.org

Know what's **below**.

Call before you dig.

WATER MANAGEMENT

Job Number:

24-028

Drawn By: Checked By:

LAND PLANNING / LANDSCAPE ARCHITECTUR

Seal:

Irrigation Plan

2980 Walton Blvd.

Rochester Hills, Michigan

Issued:

May 24, 2024 October 1, 2024

December 20, 2024

Project:

Prepared for:

Greentech Engineering

51147 W. Pontiac Trail

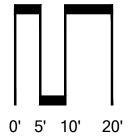
Revision:

Revised

Wixom, Michigan 48393

Northville, Michigan 48167 e. jca@wideopenwest.com

t. 248.467.4668





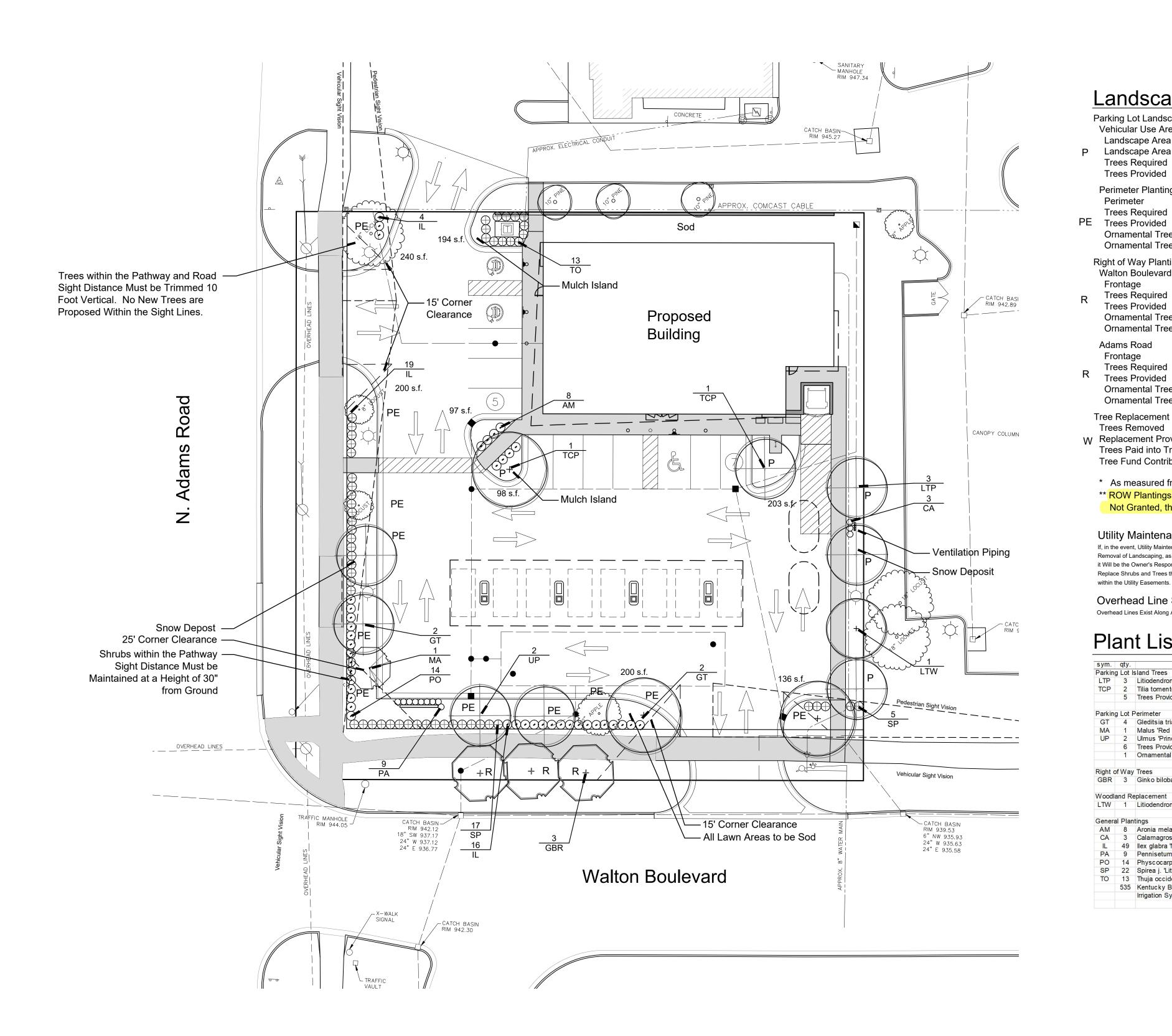
Sheet No.











# **Landscape Summary**

Parking Lot Landscaping Vehicular Use Area Vehicular Use Area 14,903 s.f.
Landscape Area Required 745 s.f. (14,903 x 5%) P Landscape Area Provided 1,368 s.f.\* 4.9 Trees (745 / 150) Trees Required Trees Provided 5 Trees (1 Existing) Perimeter Plantings

Perimeter 245 l.f. (Both Frontages) 9.8 Trees (245 / 25) Trees Required PE Trees Provided 9 Trees (3 Existing) Ornamental Trees Required 7 Trees (245 / 35)
Ornamental Trees Provided 2 Trees (1 Existing)

Right of Way Plantings \*\* Walton Boulevard

Adams Road Frontage

Trees Required

190 l.f. 5.4 Trees (190 / 35) 3 Trees - Clear Vision Conflicts Frontage Trees Required Trees Provided Ornamental Trees Required 3 Trees (190 / 60) Ornamental Trees Provided 0 Trees - Clear Vision Conflicts

5.4 Trees (190 / 35) 0 Trees - Overhead Lines Ornamental Trees Required 3 Trees (190 / 60)

Ornamental Trees Provided 0 Trees - Overhead Lines Tree Replacement 5 Trees Trees Removed 1 Tree W Replacement Provided

Trees Paid into Tree Fund 4 Trees \$1,336 (\$334 x 4) Tree Fund Contribution

\* As measured from the back of curb and Excluding Sidewalks. \*\* ROW Plantings will Require a RCOC Permit. If the Permit is Not Granted, the Value of Required Trees Shall be Placed in the City Tree Fund.

**Utility Maintenance Statement:** 

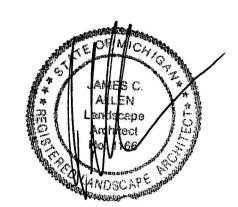
If, in the event, Utility Maintenance Results in the Removal of Landscaping, as Shown on this Plan, it Will be the Owner's Responsibility to Repair and Replace Shrubs and Trees that are Located within the Utility Easements.

Overhead Line Statement: Overhead Lines Exist Along Adams

Dlant List

sym.	qty.	botanical name	common name	caliper	spacing	root	height	price	total
Parking	g Lot I	sland Trees							
LTP	3	Litiodendron tulipifera	Tulip Tree	3.0"	as shown	B&B		\$ 425.00	\$ 1,275.00
TCP	2	Tilia tomentosa	Silver Linden	3.0"	as shown	B&B		\$ 425.00	\$ 850.00
	5	Trees Provided							
Parkin	g Lot F	Perimeter							
GT	4	Gleditsia triacanthos var. inermis	Honey Locust	3.0"	as shown	B&B		\$ 425.00	\$ 1,700.00
MA	1	Malus 'Red Barron'	Red Barron Crabapple	2.0"	as shown	B&B		\$ 200.00	\$ 200.00
UP	2	Ulmus 'Princeton'	Princeton Elm	3.0"	as shown	B&B		\$ 425.00	\$ 850.00
	6	Trees Provided							
	1	Ornamental Tree Provided							
Right c	of Way	Trees							
GBR	3	Ginko biloba	Ginko	3.0"	as shown	B&B		\$ 425.00	\$ 1,275.00
Woodla	and Re	eplacement							
LTW	1	Litiodendron tulipifera	Tulip Tree	3.0"	as shown	B&B		\$ 425.00	\$ 425.00
Genera	al Plan	tings							
AM	8	Aronia melanocarpa 'Ground Hog'	Gound Hog Black Chokeberr	у	as shown	cont.	24"	\$ 50.00	\$ 400.00
CA	3	Calamagrostis x acutiflora 'Karl Forester'	Karl Forester's Feather Reed	Grass	Full, we	ell roote	d 1 gal.	\$ 15.00	\$ 45.00
IL	49	llex glabra 'Nordic'	Nordic Inkberry		as shown	B&B	30"	\$ 50.00	\$ 2,450.00
PA	9	Pennisetum a 'Hameln'	Dwarf Fountain Grass		as shown	cont	#2	\$ 15.00	\$ 135.00
PO	14	Physcocarpus 'Little Devil'	Little Devil Ninebark		as shown	B&B	30"	\$ 50.00	\$ 700.00
SP	22	Spirea j. 'Little Princess'	Little Princess Spirea		as shown	cont.	30"-36"	\$ 50.00	\$ 1,100.00
TO	13	Thuja occidentalis 'Techny'	Techny Arborvitae		as shown	B&B	6'	\$ 50.00	\$ 650.00
	535	Kentucky Blue Grass, (S.Y.)						\$ 4.00	\$ 2,140.00
		Irrigation System							\$ 15,000.00
							Total		\$ 29,195.00

Seal:



# Title: Landscape Plan

Project:

2980 Walton Blvd. Rochester Hills, Michigan

Prepared for:

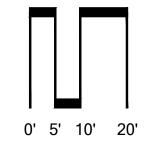
Greentech Engineering 51147 W. Pontiac Trail Wixom, Michigan 48393

Revision:	Issued:
Submission	May 24, 2024
Revised	October 1, 2024
Revised	December 20, 2024

Job Number:

24-028

Checked By: Drawn By:





Sheet No.

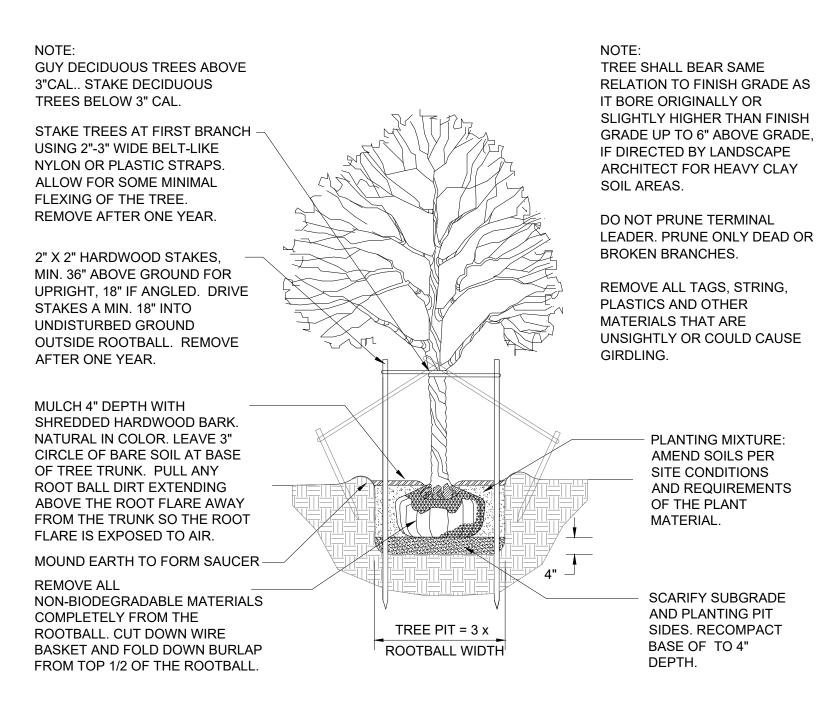




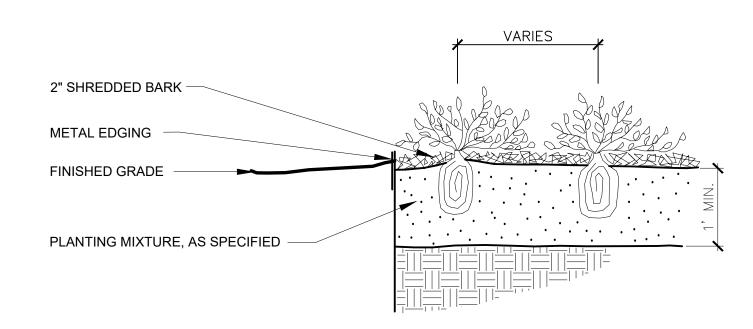
Total modification request of

19 trees. 8 Shade Trees 11

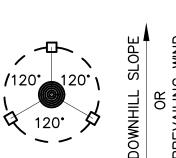
Ornamental Trees



# DECIDUOUS TREE PLANTING DETAIL



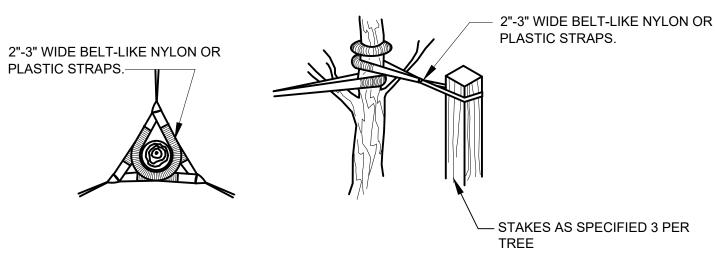
# PERENNIAL PLANTING DETAIL



ORIENT STAKING/GUYING TO PREVAILING WINDS, EXCEPT ON SLOPES GREATER THAN 3:1 ORIENT TO SLOPE.

USE SAME STAKING/GUYING ORIENTATION FOR ALL PLANTS WITHIN EACH GROUPING OR AREA

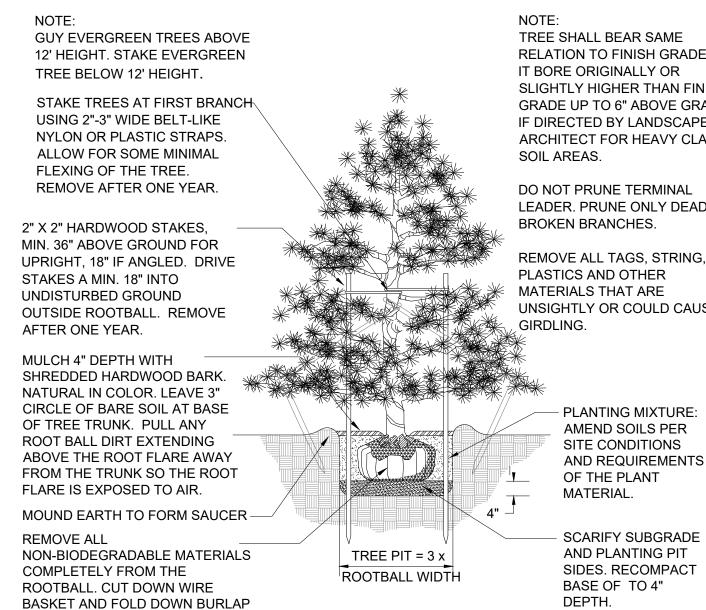
STAKING/GUYING LOCATION



**GUYING DETAIL** 

STAKING DETAIL

# TREE STAKING DETAIL



# EVERGREEN TREE PLANTING DETAIL

FROM TOP 1/2 OF THE ROOTBALL

RELATION TO FINISH GRADE AS SLIGHTLY HIGHER THAN FINISH GRADE UP TO 6" ABOVE GRADE, IF DIRECTED BY LANDSCAPE ARCHITECT FOR HEAVY CLAY LEADER. PRUNE ONLY DEAD OR REMOVE ALL TAGS, STRING, UNSIGHTLY OR COULD CAUSE AND REQUIREMENTS

PRUNE ONLY DEAD OR BROKEN MULCH 3" DEPTH WITH BRANCHES. SHREDDED HARDWOOD BARK. NATURAL IN COLOR. PULL BACK REMOVE ALL TAGS, STRING. 3" FROM TRUNK. PLASTICS AND OTHER MATERIALS THAT ARE PLANTING MIXTURE: UNSIGHTLY OR COULD CAUSE AMEND SOILS PER GIRDLING. SITE CONDITIONS AND REQUIREMENTS OF THE PLANT MATERIAL. MOUND EARTH TO FORM SAUCER REMOVE COLLAR OF ALL FIBER -POTS. POTS SHALL BE CUT TO PROVIDE FOR ROOT GROWTH. REMOVE ALL NONORGANIC CONTAINERS COMPLETELY **SCARIFY SUBGRADE** REMOVE ALL AND PLANTING PIT NON-BIODEGRADABLE MATERIALS SIDES. RECOMPACT COMPLETELY FROM THE BASE OF TO 4"

NOTE:

SOIL AREAS.

TREE SHALL BEAR SAME

IT BORE ORIGINALLY OR

RELATION TO FINISH GRADE AS

SLIGHTLY HIGHER THAN FINISH

GRADE UP TO 4" ABOVE GRADE,

IF DIRECTED BY LANDSCAPE

DEPTH.

ARCHITECT FOR HEAVY CLAY

## SHRUB PLANTING DETAIL

NOT TO SCALE

# LANDSCAPE NOTES

ROOTBALL. FOLD DOWN BURLAP

FROM TOP  $\frac{1}{3}$  OF THE ROOTBALL

- 1. All plants shall be north Midwest American region grown, No. 1 grade plant materials,
- and shall be true to name, free from physical damage and wind burn. 2. Plants shall be full, well-branched, and in healthy vigorous growing
- 3. Plants shall be watered before and after planting is complete. 4. All trees must be staked, fertilized and mulched and shall be guaranteed
- to exhibit a normal growth cycle for at least two (2) full years following Township approval.
- 5. All material shall conform to the guidelines established in the most recent edition of the American Standard for Nursery Stock.
- Provide clean backfill soil, using material stockpiled on site. Soil shall be
- screened and free of any debris, foreign material, and stone. 7. "Agriform" tabs or similar slow-release fertilizer shall be added to the
- planting pits before being backfilled. 8. Amended planting mix shall consist of 1/3 screened topsoil, 1/3 sand and
- 1/3 peat, mixed well and spread to the depth as indicated in planting details.
- 9. All plantings shall be mulched per planting details located on this sheet. 10. The Landscape Contractor shall be responsible for all work shown on the
- landscape drawings and specifications.
- 11. No substitutions or changes of location, or plant types shall be made without the approval of the Landscape Architect.
- 12. The Landscape Architect shall be notified of any discrepancies between the plans and field conditions prior to installation.
- 13. The Landscape Contractor shall be responsible for maintaining all plant material in a vertical condition throughout the guaranteed period.
- 14. The Landscape Architect shall have the right, at any stage of the installation, to reject any work or material that does not meet the requirements of the plans and specifications, if requested by owner.
- 15. Contractor shall be responsible for checking plant quantities to ensure quantities on drawings and plant list are the same. In the event of a
- discrepancy, the quantities on the plans shall prevail.
- 16. The Landscape Contractor shall seed and mulch or sod (as indicated on plans) all areas disturbed during construction, throughout the contract limits.
- 17. A pre-emergent weed control agent, "Preen" or equal, shall be applied uniformly on top of all mulching in all planting beds.
- All landscape areas shall be provided with an underground automatic
- 19. Sod shall be two year old "Baron/Cheriadelphi" Kentucky Blue Grass grown in a sod nursery on loam soil.

## **ADDITIONAL NOTES**

- 1. All Landscaped Areas Shall be Irrigated with an Automatic, Underground System.
- 2. Islands Shall be Sod. 3. Owner Shall be Responsible for Replacing Damaged
- Plant Material Due to Utility Maintenance.
- 4. Prior to the release of the Performance Bond, the City of Rochester Hills Forestry Division needs to inspect all trees, existing or planted, to identify any that pose a hazard to the safe use of the public right-of-way. Forestry may require the developer to remove and possibly replace, any such trees.
- 5. These requirements are incorparated into the plan.
- 6. Prior approval is required to plant any tree or shrub on the public right-of-way. All trees and shrubs must be planted 10' from the edge of the public road. (Trees must be planted at least 15' away from the curb or road edge where the speed limit is more than 35 mph). Shade trees and shrubs must be planted at least 5' from the edge of the public walkway. Evergreen and ornamental trees must be planted at least 10' from the edge of the public walkway. No trees or shrubs may be planted within the triangular area formed at the intersection of any street right-of-way at a distance along each line of 25' from their point intersection. No trees or shrubs may be planted within the triangular area formed at the intersection of any driveway with a public walkway at a distance along each line of 15' from their point of intersection. All trees and shrubs must be planted at least 10' from any fire hydrant. Shade and evergreen trees must be at least 15' away from the nearest overhead wire. Trees must be planted a minimum of 5' from an underground utility, unless
- 7. No substitutions or changes of location or plant types shall be made without the approval of the developer and the City of Rochester Hills Planning and Economic Development Department and has Final Right of Approval for the
- the Release of the Performance and Maintenance Bonds. 8. The developer and/or the City of Rochester Hills Landscape Architect shall have the right, at any stage of the installation, to reject any work or material that does not meet the requirements of the plans or specifications.
- 9. Replacement trees may not be planted within the drip line of existing trees. 10. Trees may not be planted within 4' of any property line.

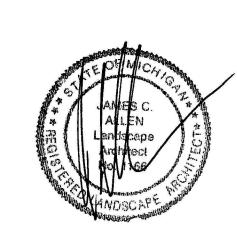
the City's Landscape Architect requires a greater distance.

- 11. Irrigation Shall Only Occur Between the Hours of 12am and 5 am in Accordance with the City's Watering Ordinances.





Seal:



# Landscape Plan

Project:

2980 Walton Blvd. Rochester Hills, Michigan

Prepared for:

**Greentech Engineering** 51147 W. Pontiac Trail Wixom, Michigan 48393

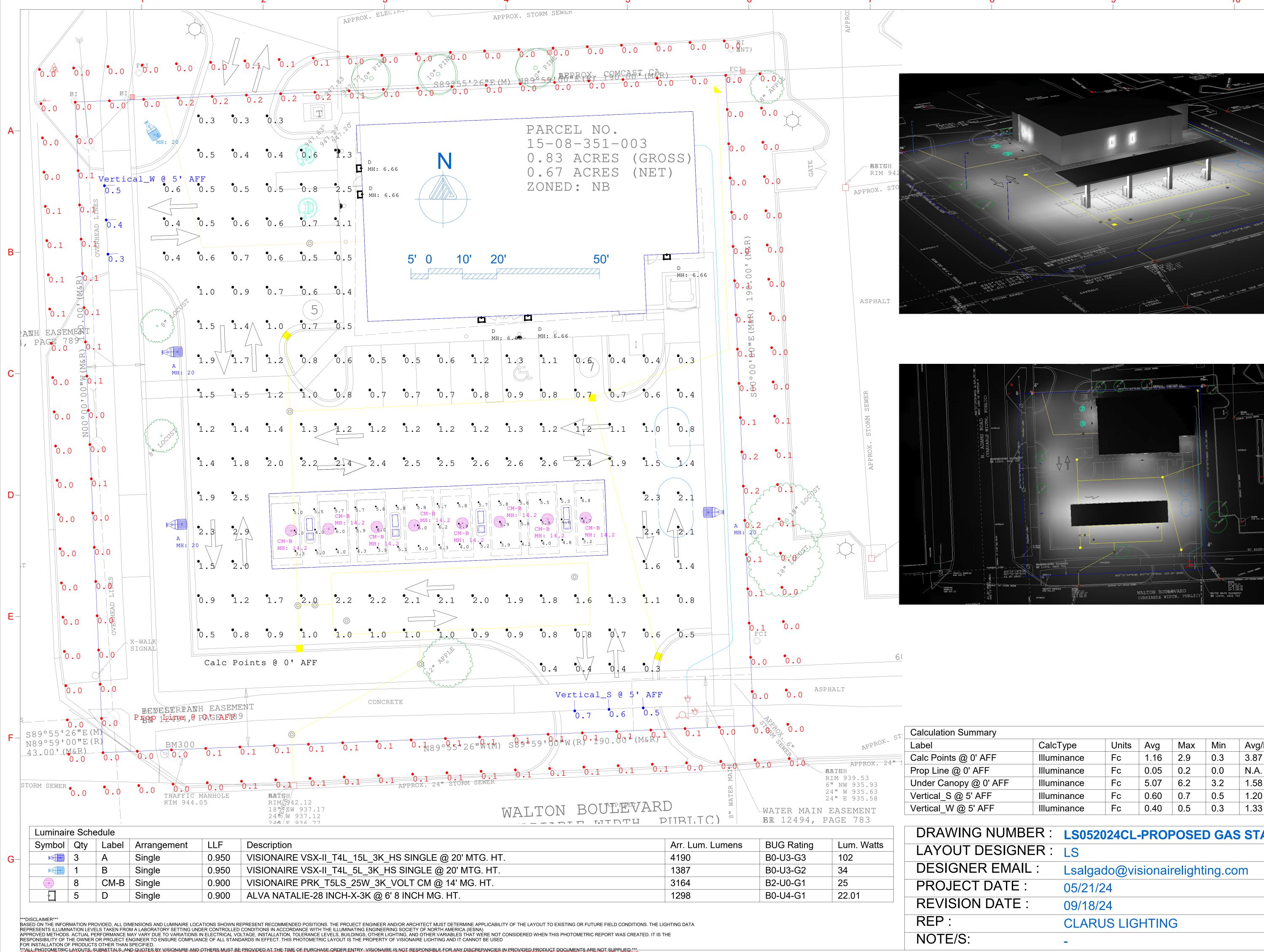
Revision: Issued: Submission May 14, 2024 Revised October 1, 2024 December 20, 2024

Job Number:

24-028

Drawn By: Checked By:

Sheet No.



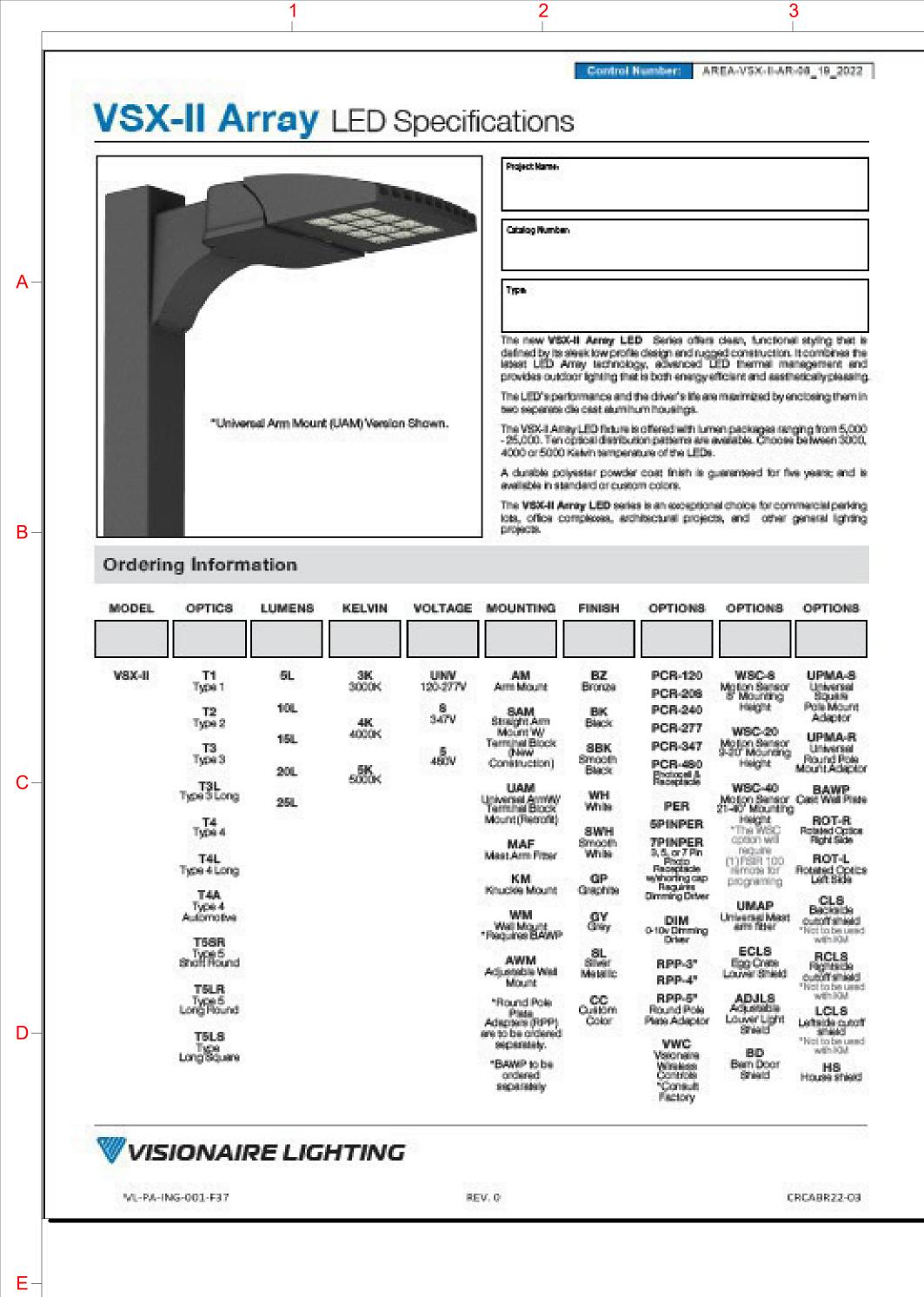
1.20 1.40 1.33 1.67 DRAWING NUMBER: LS052024CL-PROPOSED GAS STATION-04

Max/Min

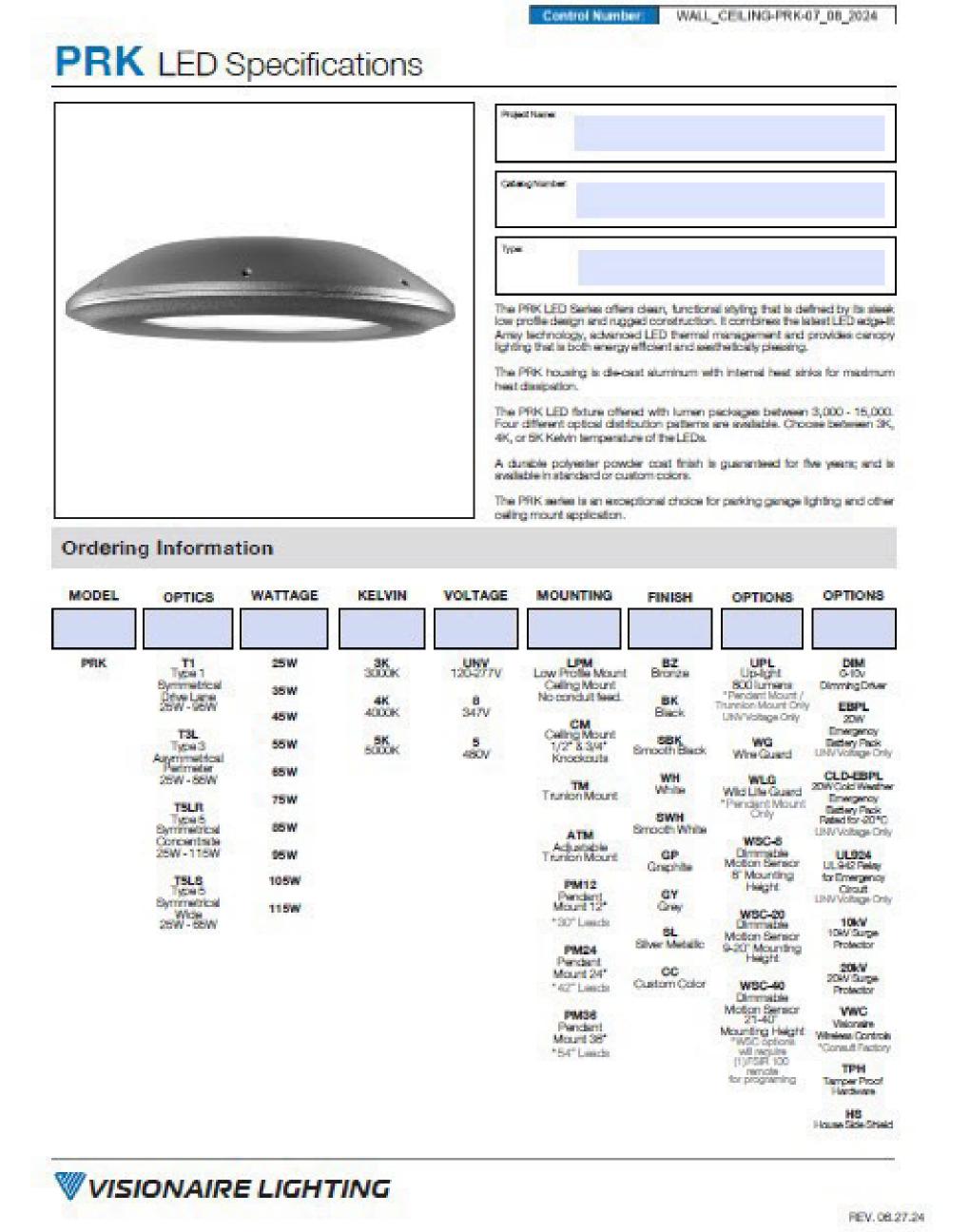
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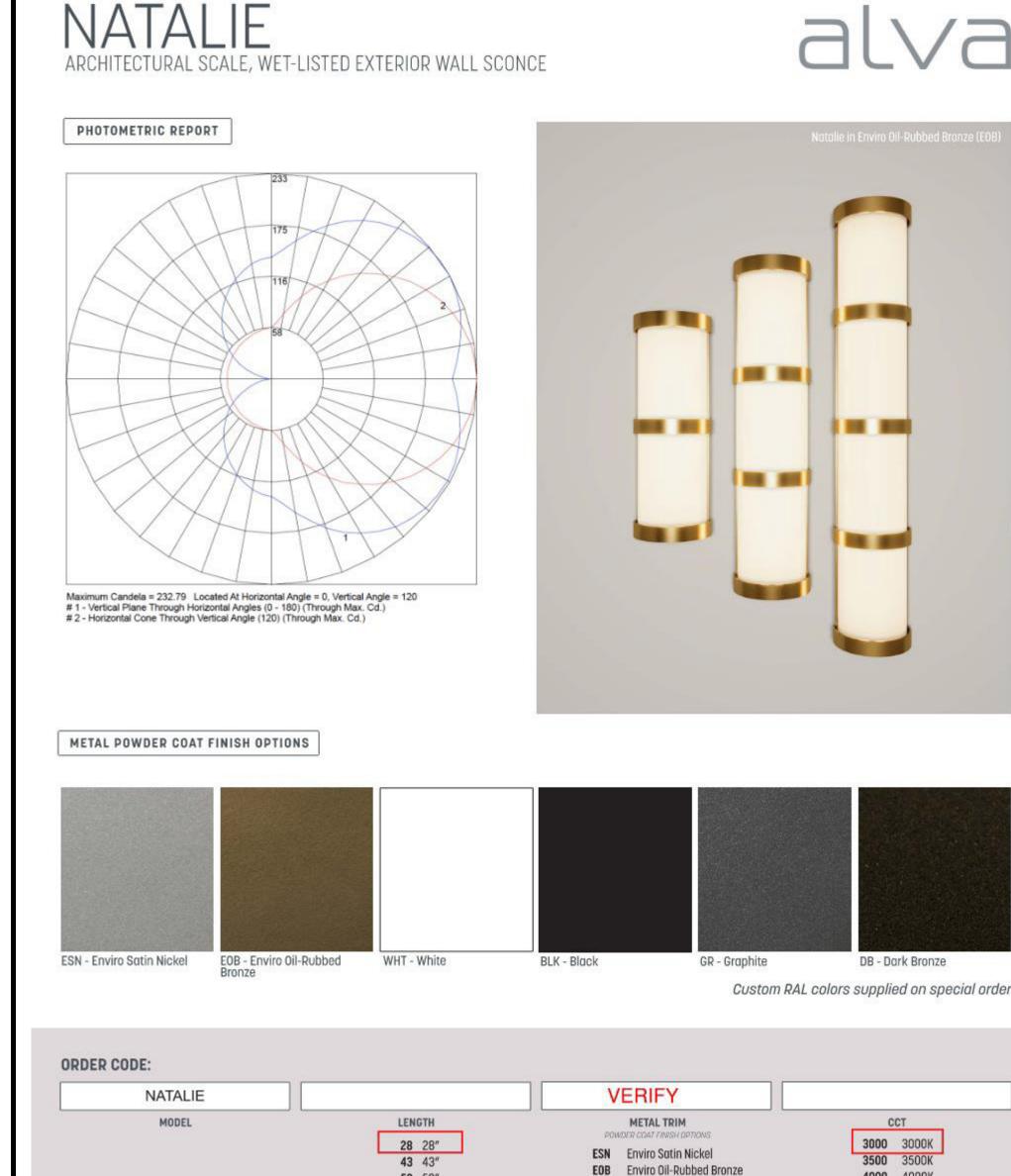
N.A.

1.94



\*\*\*ALL PHOTOMETRIC LAYOUTS SUBMITTALS AND QUOTES BY VISIONALI





VISIONATIC STUDY

VISIONATIC STUDY

-6486 CA. 90

(310)

Luminair	e Sche	edule						
Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Lum. Lumens	BUG Rating	Lum. Watts
	3	Α	Single	0.950	VISIONAIRE VSX-II_T4L_15L_3K_HS SINGLE @ 20' MTG. HT.	4190	B0-U3-G3	102
	1	В	Single	0.950	VISIONAIRE VSX-II_T4L_5L_3K_HS SINGLE @ 20' MTG. HT.	1387	B0-U3-G2	34
	8	СМ-В	Single	0.900	VISIONAIRE PRK_T5LS_25W_3K_VOLT CM @ 14' MG. HT.	3164	B2-U0-G1	25
1	5	D	Single	0.900	ALVA NATALIE-28 INCH-X-3K @ 6' 8 INCH MG. HT.	1298	B0-U4-G1	22.01

\*\*\*DISCLAIMER\*\*\*
BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE PROJECT ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS. THE LIGHTING DATA REPRESENTS ILLUMINATION LEVELS TAKEN FROM A LABORATORY SETTING UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA)
APPROVED METHODS. ACTUAL PERFORMANCE MAY VARY DUE TO VARIATIONS IN ELECTRICAL VOLTAGE, INSTALLATION, TOLERANCE LEVELS, BUILDINGS, OTHER LIGHTING, AND OTHER VARIABLES THAT WERE NOT CONSIDERED WHEN THIS PHOTOMETRIC REPORT WAS CREATED. IT IS THE RESPONSIBILITY OF THE OWNER OR PROJECT ENGINEER TO ENSURE COMPLIANCE OF ALL STANDARDS IN EFFECT. THIS PHOTOMETRIC LAYOUT IS THE PROPERTY OF VISIONAIRE LIGHTING AND IT CANNOT BE USED FOR INSTALLATION OF PRODUCTS OTHER THAN SPECIFIED.

DRAWING NUMBER :	LS052024CL-PROPOSED GAS STATION-04
LAYOUT DESIGNER:	LS
DESIGNER EMAIL:	Lsalgado@visionairelighting.com
PROJECT DATE:	05/21/24
REVISION DATE:	09/18/24
REP:	CLARUS LIGHTING  J2023-0143 PSP2024-0013 PSP2024-0013
NOTE/S:	ROCHESTER HILLS HILLS Revision #3  MICHIGAN  City of Rochester Hills Planning & Economic Development

GR Graphite

DB Dark Bronze







Use of non masonry products should be limited on all facades.
Use of masonry products should be aligned with surrounding buildings and abutting RH Village

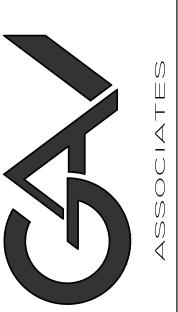


ISSUED FOR 10/08/24 SPA REVISIONS 11/04/24

ARCHITECTURAL DESIGN

RESIDENTIAL COMMERCIAL INDUSTRIAL

G.A.V. ASSOCIATES, INC 24001 ORCHARD LAKE RD., STE. 180A FARMINGTON, MICHIGAN 48336 PH: (248) 985-9101 WEB: WWW.GAVASSOCIATES.COM



4

DRAWN: DESIGNED: CHECKED: AD

GA

SCALE : NOTED

FILE NAME :

JOB #: 23058

SHEET TITLE

#### GENERAL NOTES & CODE REVIEW:

GENERAL CONTR. TO COMPLY W/ ALL FEDERAL, STATE, CITY AND

- LOCAL CODES WHERE APPLICABLE \* MICHIGAN BUILDING CODE 2015
- \* ICC/ANSI AII7.I. 2009 \$ MICHIGAN BARRIER
- FREE DESIGN LAW OF PUBLIC ACT | OF 1966 AS AMENDED.
- \* MICHIGAN MECHANICAL CODE 2021 (M.M.C.)
- \* MICHIGAN PLUMBING CODE 2021 (M.P.C.) \* INTERNATIONAL FUEL GAS CODE 2015 (I.F.G.C)
- \* FIRE CODE: IFC 2015 (INTERNATIONAL FIRE CODE 2015), AS REFERENCED IN THE 2015 MICHIGAN BUILDING CODE
- \* FIRE SUPPRESSION: NFPA 13 (2013) \* FIRE ALARM: NFPA 72 (2013)
- \* ENERGY CODE: MBC 2015 (MICHIGAN BUILDING CODE 2015) CHAPTER 13 \$ MEC 2015 (MICHIGAN ENERGY CODE 2015) - CHAPTER 4 \$
- MICHIGAN ENERGY CODE PART IOa. RULES (ANSI/ ASHRAE 90.1-2013) \* MICHIGAN ELECTRICAL CODE BASED ON 2023 N.E.C. W/ PART 8
- **AMENDMENTS**
- \* PROJECT SHALL COMPLY W/ MBC 2015 CHP. 35 REFERENCE STANDARDS

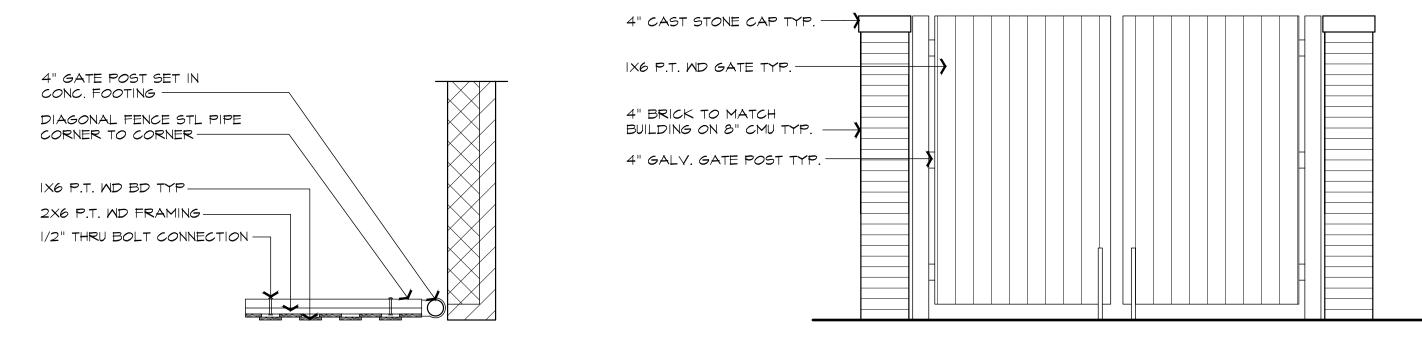
#### PROJECT DATA:

USE GROUP: M - MERCANTILE & B - BUSINESS

CONSTRUCTION TYPE: 2B

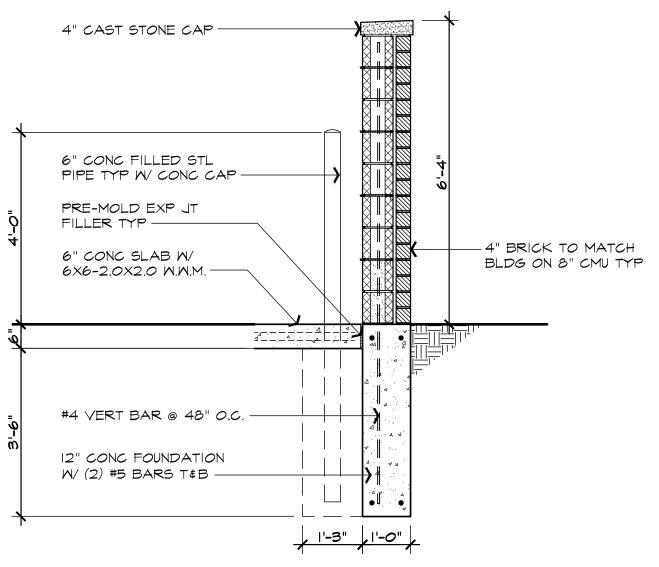
#### PROJECT DESCRIPTION

PROPOSED I STORY COMMERCIAL BUILDING, THE INTERIOR TO BE BUILD OUT INTO GAS STATION (CONVENIENCE/ RETAIL STORE) & TENANT.

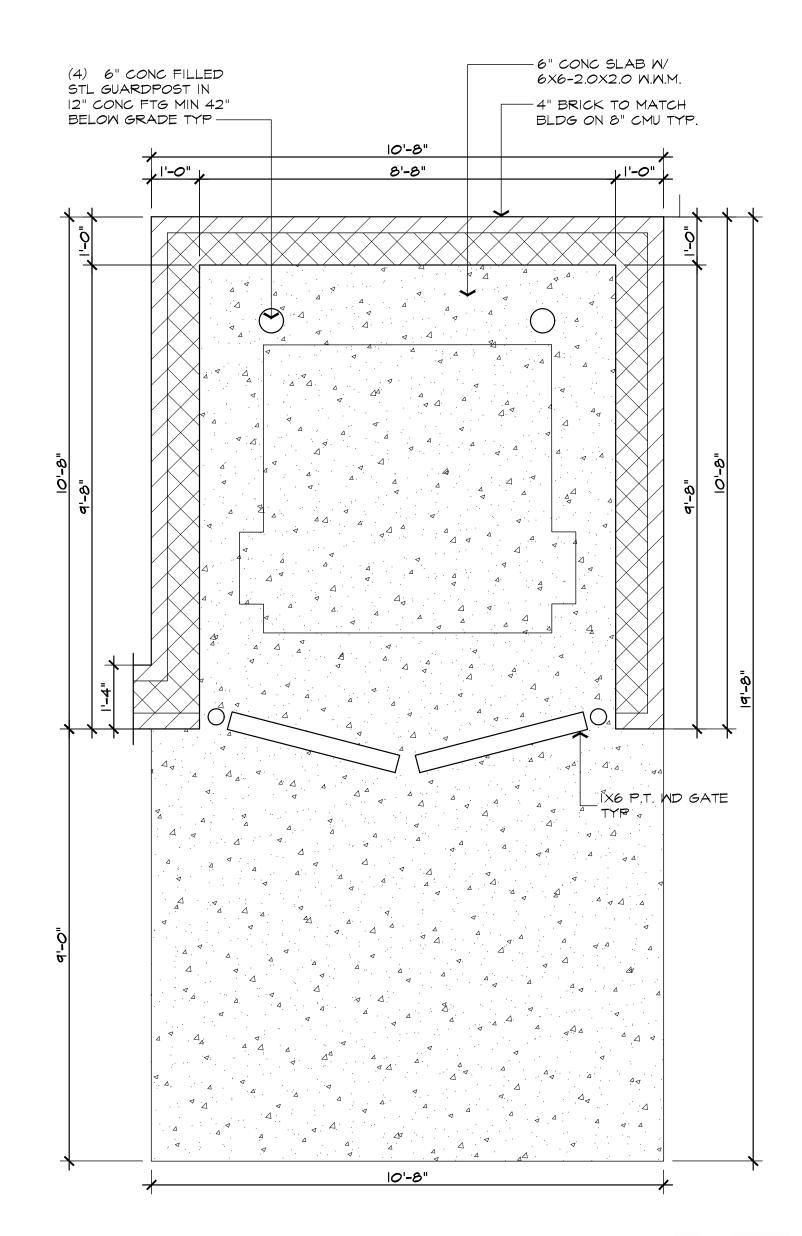


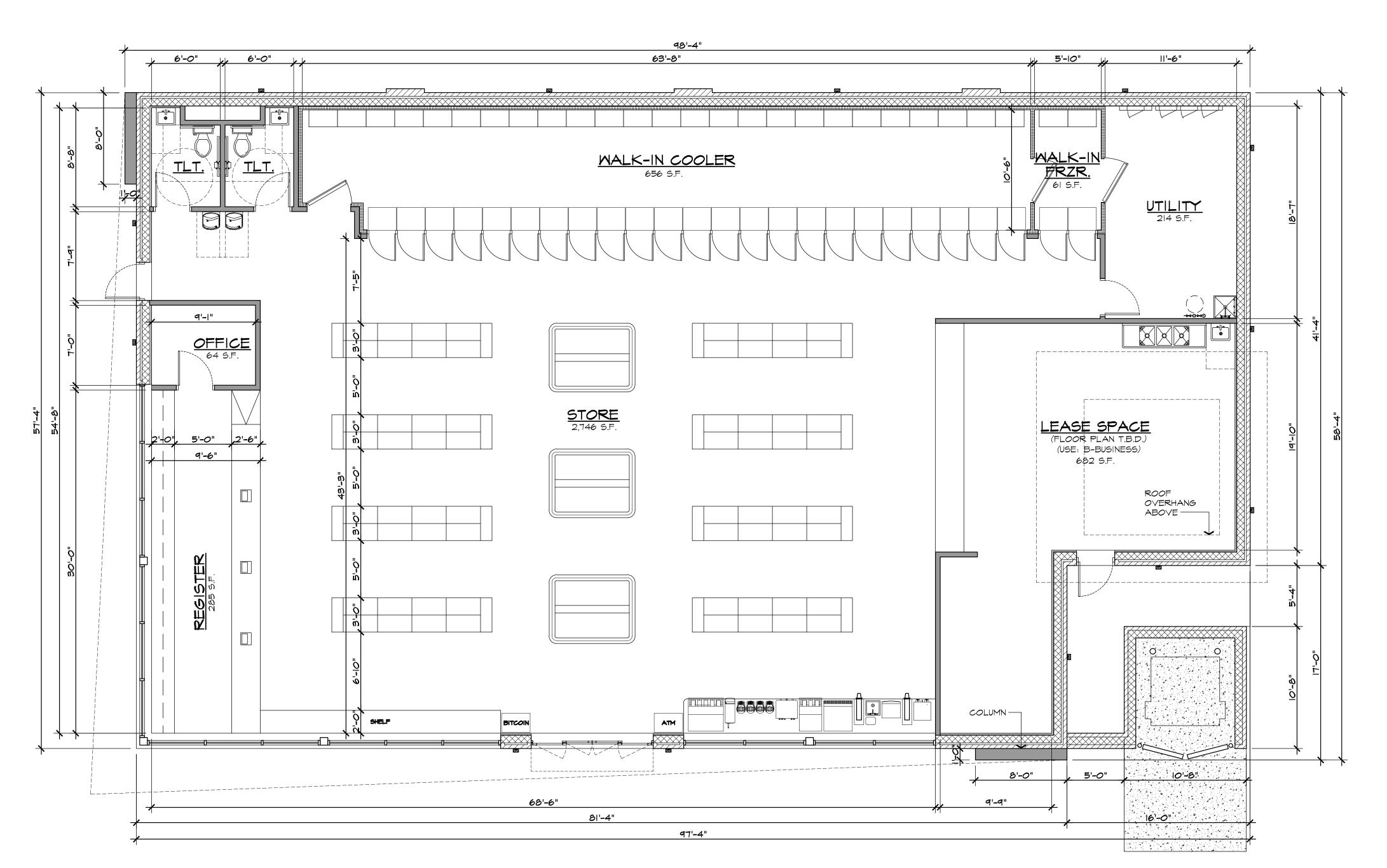
DUMPSTER ENCLOSURE GATE DETAIL & ELEVATION

SCALE: 1/2" = 1'-0"



## DUMPSTER ENCLOSURE WALL SECTION SCALE: 1/2" = 1'-0"







DUMPSTER ENCLOSURE PLAN









5,678 GROSS S.F.

ISSUED FOR

**ARCHITECTURAL** 

RESIDENTIAL

COMMERCIAL

INDUSTRIAL

G.A.V. ASSOCIATES, INC

24001 ORCHARD LAKE RD., STE. 180A

FARMINGTON, MICHIGAN 48336 PH: (248) 985-9181 WEB: WWW.GAVASSOCIATES.COM

 $\frac{4}{6}$ 

DESIGNED: CHECKED:

GA

SCALE : NOTED

FILE NAME:

JOB #: 23058

SHEET TITLE

**DESIGN** 

SPA REVISIONS

DATE 10/08/24

11/04/24

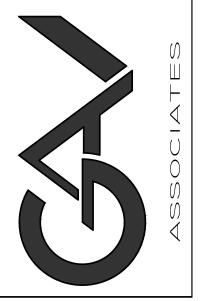


ISSUED FOR DATE 10/08/24 SPA REVISIONS 11/04/24

> **ARCHITECTURAL DESIGN**

> > RESIDENTIAL COMMERCIAL INDUSTRIAL

G.A.V. ASSOCIATES, INC 24001 ORCHARD LAKE RD., STE. 180A FARMINGTON, MICHIGAN 48336 PH: (248) 985-9101 WEB: WWW.GAVASSOCIATES.COM



STATION 4 60 9 O GASOLINE TRUCTION DR PROPOSED ( NEW CONSTR 2980 MALTC

GA

DESIGNED: CHECKED:

SCALE : 3/16" = 1'-0"

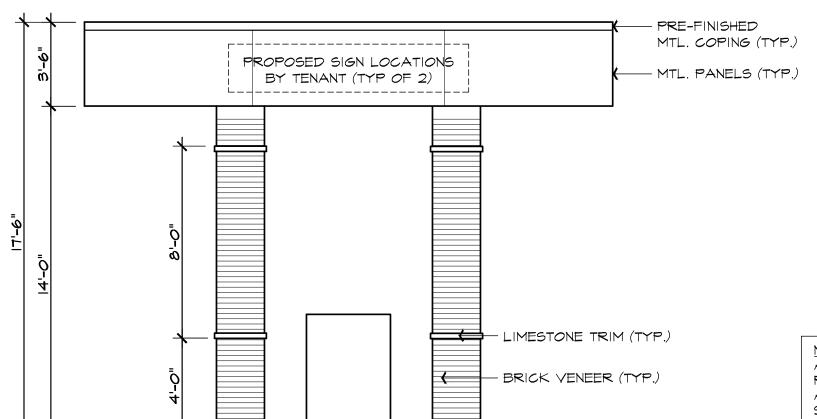
FILE NAME:

DRAWN:

JOB #: 23058 SHEET TITLE

ELEVATIONS

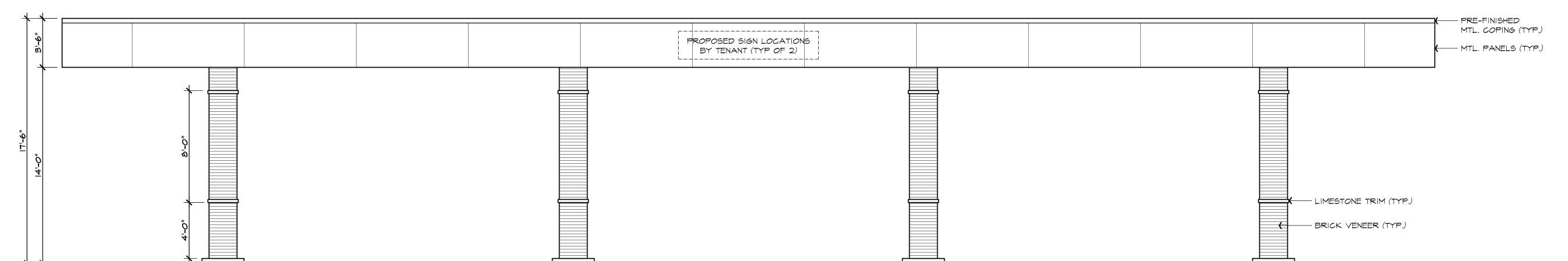
SHEET #



NOTE:
ALL SIGNS MUST MEET THE
REQUIREMENTS OF THE CITY
AND BE APPROVED UNDER
SEPARATE PERMITS ISSUED
BY THE BUILDING DEPARTMENT

CANOPY (SIDE) ELEVATION

SCALE: 1/4" = 1'-0"



SAMIR M KARIM ) ARCHITECT





**ARCHITECTURAL DESIGN** RESIDENTIAL COMMERCIAL

DATE 10/08/24

11/04/24

G.A.V. ASSOCIATES, INC 24001 ORCHARD LAKE RD., STE. 180A FARMINGTON, MICHIGAN 48336 PH: (248) 965-9101 WEB: WWW.GAVASSOCIATES.COM

INDUSTRIAL

ISSUED FOR

SPA REVISIONS

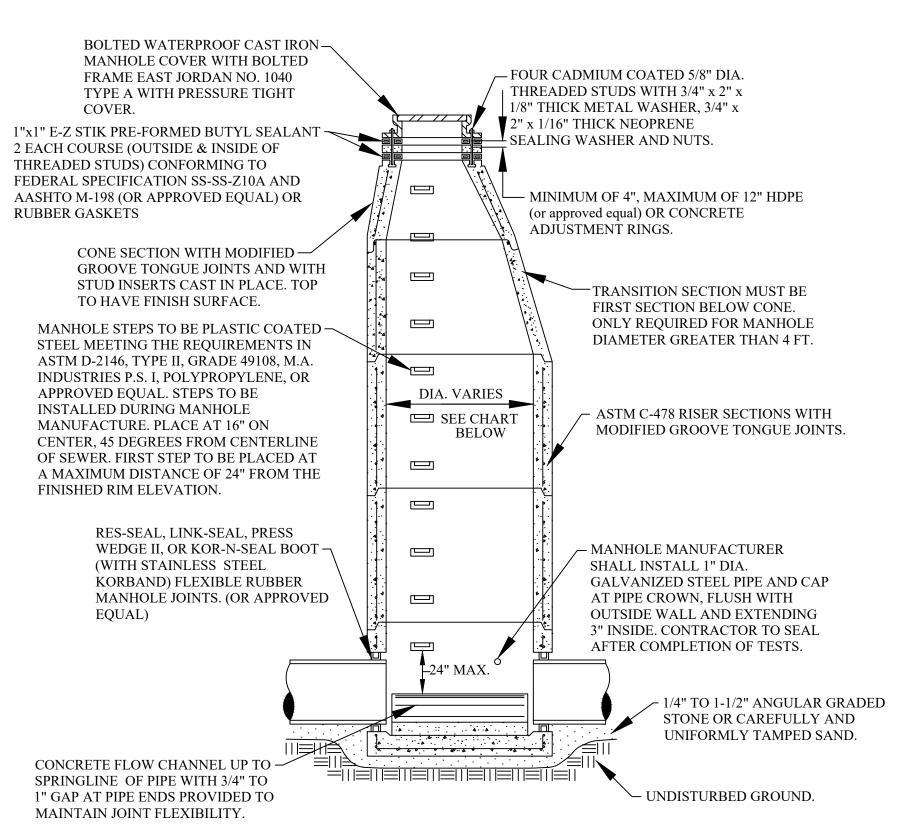
STATION 4

GA SCALE : 1/4" = 1'-0"

DRAWN: DESIGNED: CHECKED:

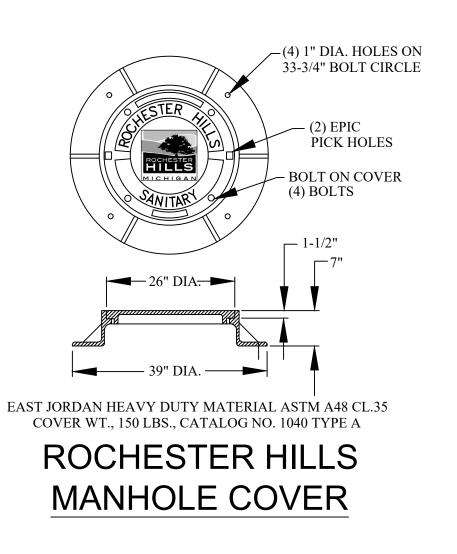
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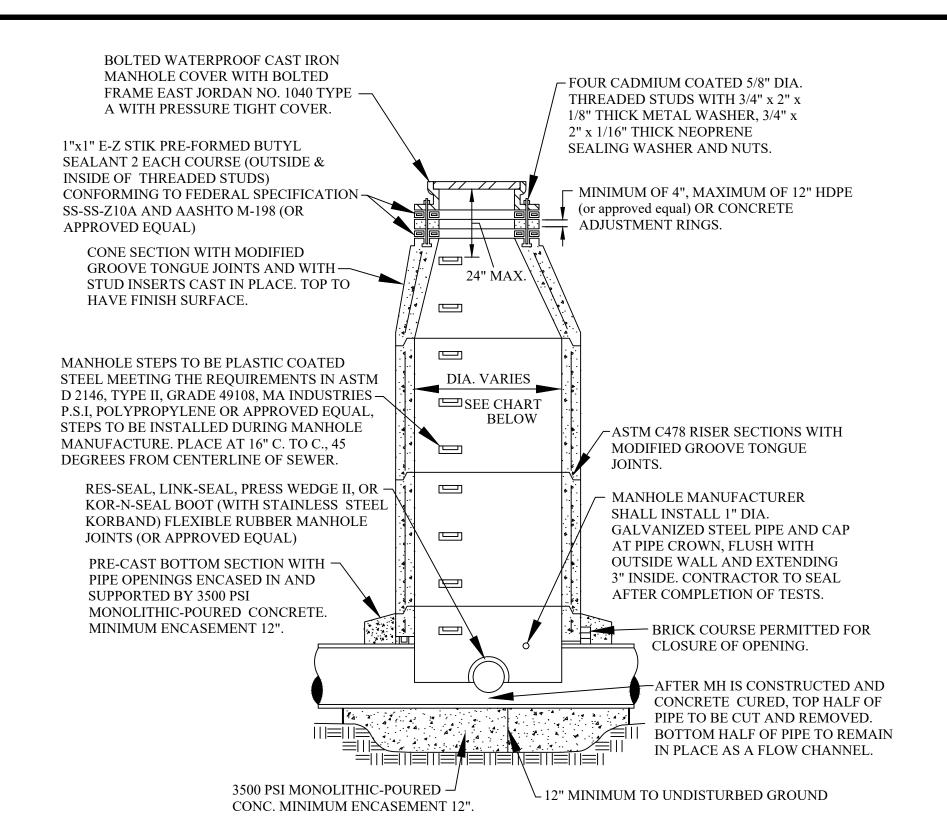
SHEET TITLE CANOPY ELEVATIONS



# STANDARD MANHOLE

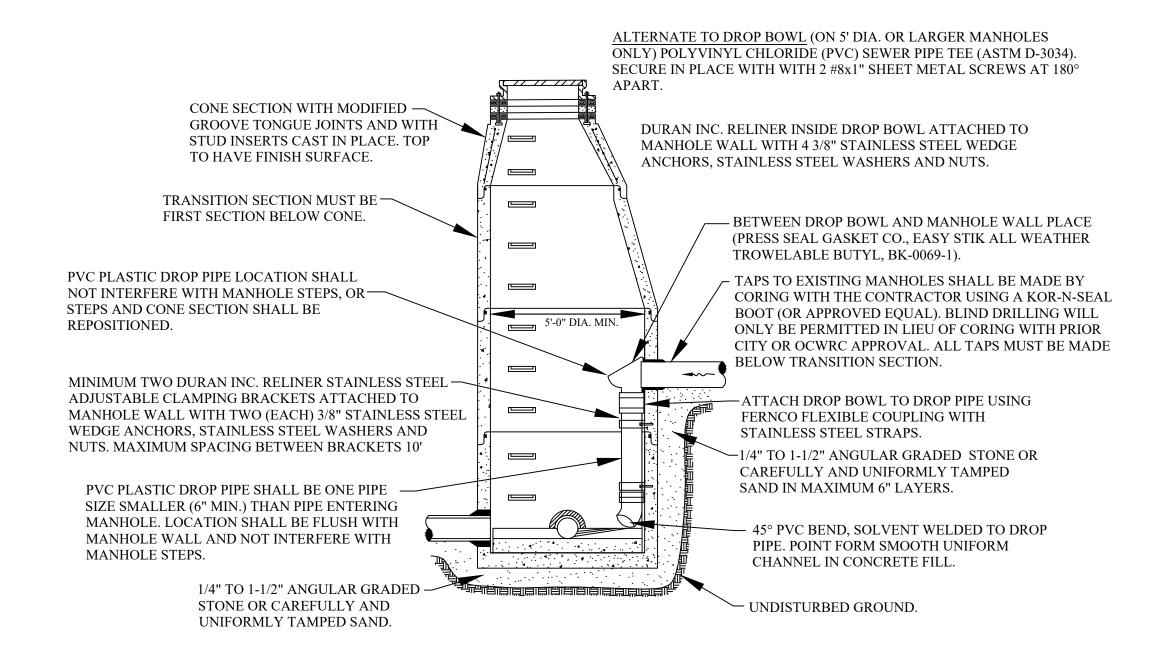
MANHOLE SIZING CHART					
MANHOLE DIAMETER	MAX. PIPE SIZE FOR STRAIGHT THRU INST.				
4'	24"	18"			
5'	36"	24"			
6'	42"	36"			
7'	60"	42"			





# MANHOLE CONSTRUCTED OVER EXISTING SEWER

MANHOLE SIZING CHART					
MANHOLE DIAMETER	MAX. PIPE SIZE FOR STRAIGHT THRU INST.				
4'	24"				
5'	36"				
6'	42"				
7'	60"				
·					



## INTERIOR DROP CONNECTION

NOTE: INTERIOR DROP CONNECTION PERMITTED ONLY WHEN APPROVED BY CITY ENGINEER.

# SANITARY SEWER CONSTRUCTION NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS AND THE OAKLAND COUNTY WATER RESOURCES COMMISSIONER (OCWRC). ALL SANITARY SEWER CONSTRUCTION SHALL HAVE FULL-TIME INSPECTION SUPERVISED BY THE CITY OF ROCHESTER HILLS INSPECTION SERVICES.
- 2. NO SEWER INSTALLATION SHALL HAVE AN INFILTRATION EXCEEDING 100 GALLONS PER INCH DIAMETER PER MILE OF PIPE IN A 24 HOUR PERIOD, AND NO SINGLE RUN OF SEWER BETWEEN MANHOLES SHALL EXCEED 100 GALLONS PER INCH DIAMETER PER MILE. AIR TESTS IN LIEU OF INFILTRATION TESTS SHALL BE AS SPECIFIED IN THE OAKLAND COUNTY WATER RESOURCES COMMISSIONER STANDARDS. PRELIMINARY-AIR TESTS ARE WITNESSED BY THE CITY AND FINAL AIR TESTS ARE WITNESSED BY BOTH THE CITY AND THE OCWRC. ONLY PIPE AND PIPE JOINTS APPROVED BY THE CITY MAY BE USED FOR SANITARY SEWER CONSTRUCTION.
- 3. LOCATED IN THE FIRST MANHOLE UPSTREAM FROM THE POINT OF ALL CONNECTIONS TO AN EXISTING SEWER, OR EXTENSION, A TEMPORARY 12-INCH DEEP SUMP SHALL BE PROVIDED IN THE FIRST MANHOLE ABOVE THE CONNECTION WHICH WILL BE FILLED IN AFTER SUCCESSFUL COMPLETION OF ANY ACCEPTANCE TEST UP TO THE STANDARD FILLET PROVIDED FOR THE FLOW CHANNEL. A WATERTIGHT BULKHEAD SHALL BE PROVIDED ON THE DOWNSTREAM SIDE OF THE SUMP MANHOLE.
- 4. AT ALL TIMES WHEN LAYING OF NEW PIPE IS NOT ACTUALLY IN PROGRESS, THE UPSTREAM OPEN END OF THE PIPE SHALL BE CLOSED BY TEMPORARY WATERTIGHT PLUGS OR BY OTHER APPROVED MEANS. IF WATER IS IN THE TRENCH WHEN WORK IS RESUMED, THE PLUG SHALL NOT BE REMOVED UNTIL THE DANGER OF WATER ENTERING THE PIPE HAS PASSED. ALL MAIN LINE PIPE SHALL BE LAID WITH A PIPE LASER BEAM FOR LINE AND GRADE. A TARGET MUST BE INSTALLED AT THE END OF THE PIPE BEING
- 5. SELF-LEVELING ACCESS ASSEMBLY STRUCTURES SHALL BE USED FOR ADJUSTING STRUCTURES WITHIN ASPHALT AND CONCRETE PAVEMENT.
- 6. ALL SEWER PIPE SHALL BE INSTALLED IN CLASS "B" BEDDING OR BETTER.
- 7. ALL NEW MANHOLES SHALL HAVE CITY APPROVED FLEXIBLE, WATERTIGHT SEALS WHERE PIPES PASS THROUGH WALLS. MANHOLES SHALL BE OF PRE CAST SECTIONS WITH MODIFIED GROOVE TONGUE AND BUTYL TYPE JOINTS. PRE CAST MANHOLE CONE SECTIONS SHALL BE CITY APPROVED MODIFIED ECCENTRIC CONE TYPE. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS.
- 8. AT ALL CONNECTIONS TO MANHOLES IN ALL SEWERS, OR EXTENSIONS, DROP CONNECTIONS WILL BE REQUIRED WHEN THE DIFFERENCE IN INVERT ELEVATIONS EXCEEDS 18 INCHES.
- 9. GROUND WATER, STORM WATER, CONSTRUCTION WATER, DOWN SPOUT DRAINAGE OR WEEP TILE DRAINAGE SHALL NOT BE ALLOWED TO ENTER ANY SANITARY SEWER INSTALLATION.
- 10. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT MISS DIG THREE (3) DAYS IN ADVANCE (811) FOR THE LOCATION OF UNDERGROUND PIPELINE AND CABLE FACILITIES AND SHALL ALSO NOTIFY REPRESENTATIVES OF OTHER UTILITIES LOCATED IN THE VICINITY OF THE WORK.
- 11. AN 18 INCH MINIMUM VERTICAL SEPARATION AND A 10 FOOT MINIMUM HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN SANITARY SEWER AND ALL OTHER UTILITIES.
- 12. AS A MEANS OF INSURING PROPER INSTALLATION OF THE SANITARY SEWER PIPE, THE CONTRACTOR SHALL VIDEO INSPECT, ACCORDING TO THE CITY OF ROCHESTER HILLS VIDEO INSPECTION STANDARDS, 100% OF THE SANITARY SEWER PIPE. THE CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE TO THE CITY OF ROCHESTER HILLS PRIOR TO VIDEO INSPECTION, SO A REPRESENTATIVE MAY BE PRESENT. ROCHESTER HILLS WILL BE PROVIDED WITH A DIGITAL COPY OF THE VIDEO INSPECTION AND LOG IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS INSPECTION STANDARDS.

# SANITARY SEWER MATERIALS

- 1. THE FOLLOWING MATERIALS MAY BE USED FOR PUBLIC SANITARY SEWER CONSTRUCTION, APPROVED PIPE MATERIALS MUST CONFORM TO STANDARDS ADOPTED BY THE OFFICE OF THE OAKLAND COUNTY WATER RESOURCES COMMISSIONER:
  - A.FOR SEWERS 8" TO 15" TO BE PVC TRUSS PIPE, ASTM D-2680, WITH GASKET JOINTS, OTHER TYPES OF PIPE AS APPROVED BY CITY ENGINEER.
  - B.FOR 6" SEWER LEADS SHALL BE SOLID WALLED PVC, SDR 23.5, ASTM D-3034 OR PVC SCHEDULE 40 SOLID WALLED, ASTM D-2665. PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 150 P.S.I., AND A MINIMUM DEFLECTION OF 15% AT FAILURE. THE SEWER LEAD MATERIAL SHALL BE COMPATIBLE WITH SEWER MAIN MATERIAL.
  - C. FOR SEWERS GREATER THAN 15" TO BE REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO THE CURRENT ASTM D C76 WALL B. JOINTS SHALL BE SYNTHETIC RUBBER AND MEET OR EXCEED THE REQUIREMENTS ESTABLISHED BY ASTM 361.



REVISIONS

DATE

APPROVED BY

CITY COUNCIL, DATE:

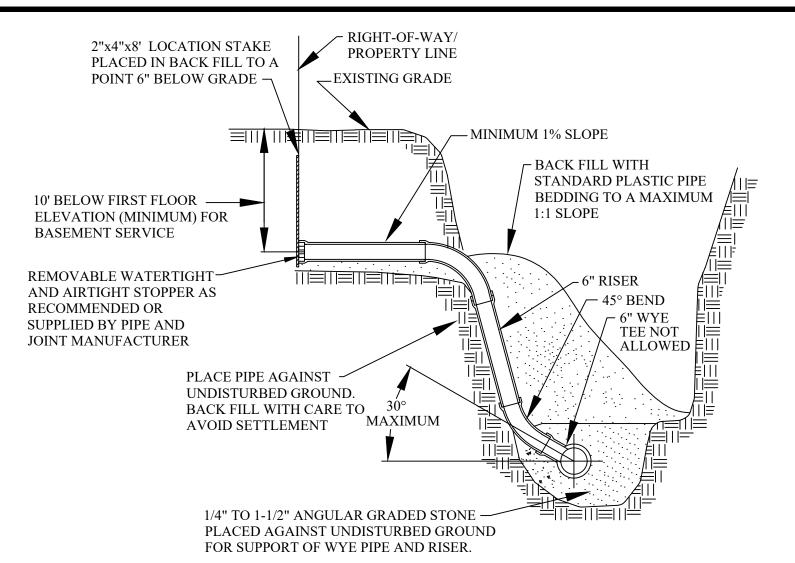
PREPARED BY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC SERVICES

NOTIFY ROCHESTER HILLS
ENGINEERING DIVISION
248-841-2510 48 HRS. PRIOR
TO START OF
CONSTRUCTION

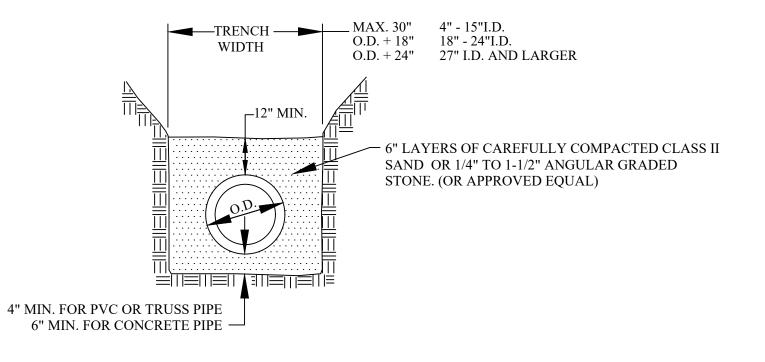
City of Rochester Hills 1000 Rochester Hills Drive, Rochester Hills, Michigan 48309

SANITARY SEWER STANDARD DETAILS NOT TO SCALE DATE: 1/10/2019

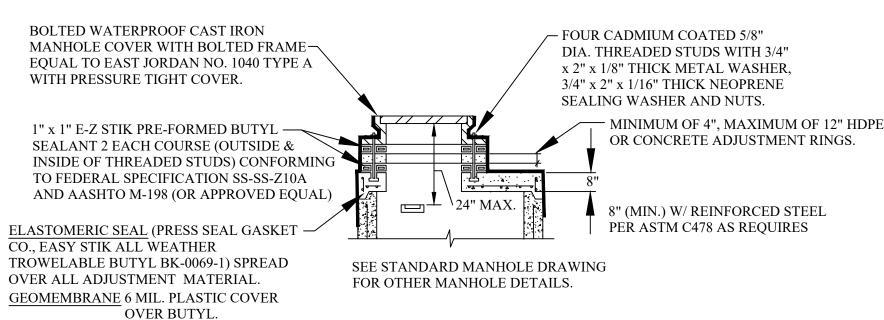
SHEET 1 OF 2



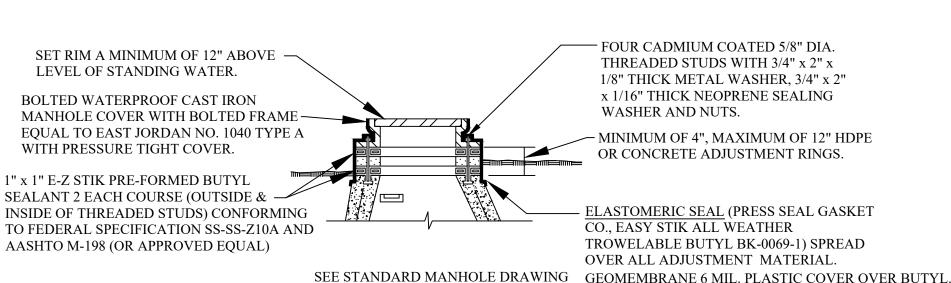
# HOUSE LEAD DETAIL



# STANDARD BEDDING (CLASS B)

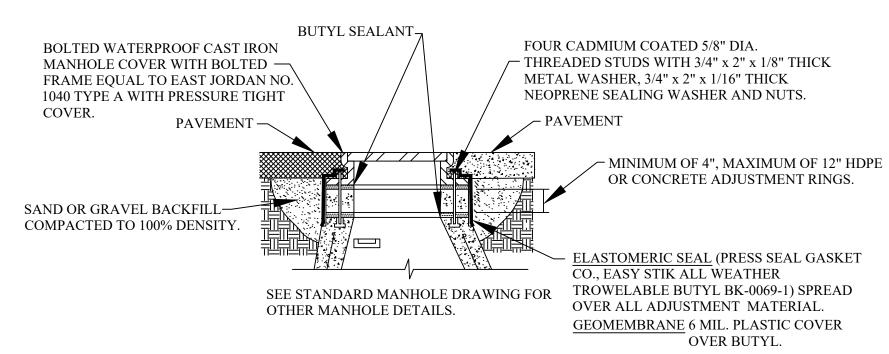


# FLAT TOP MANHOLE

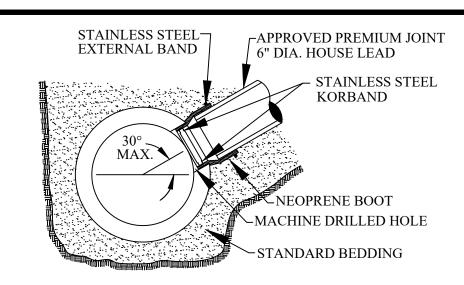


# ADJUSTMENT DETAIL FOR MANHOLE TOPS WITHIN FLOOD PRONE AREAS

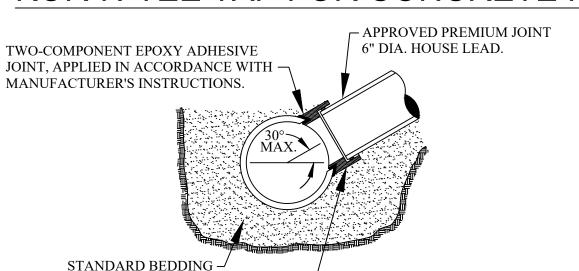
FOR OTHER MANHOLE DETAILS



# ADJUSTMENT DETAIL MANHOLE TOPS WITHIN PAVEMENT AREAS



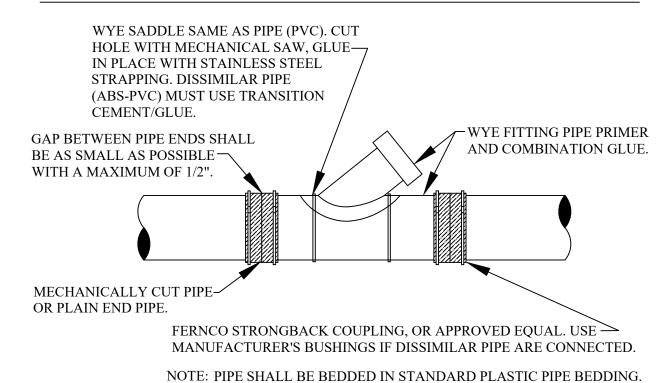
# KOR-N-TEE TAP FOR CONCRETE PIPE



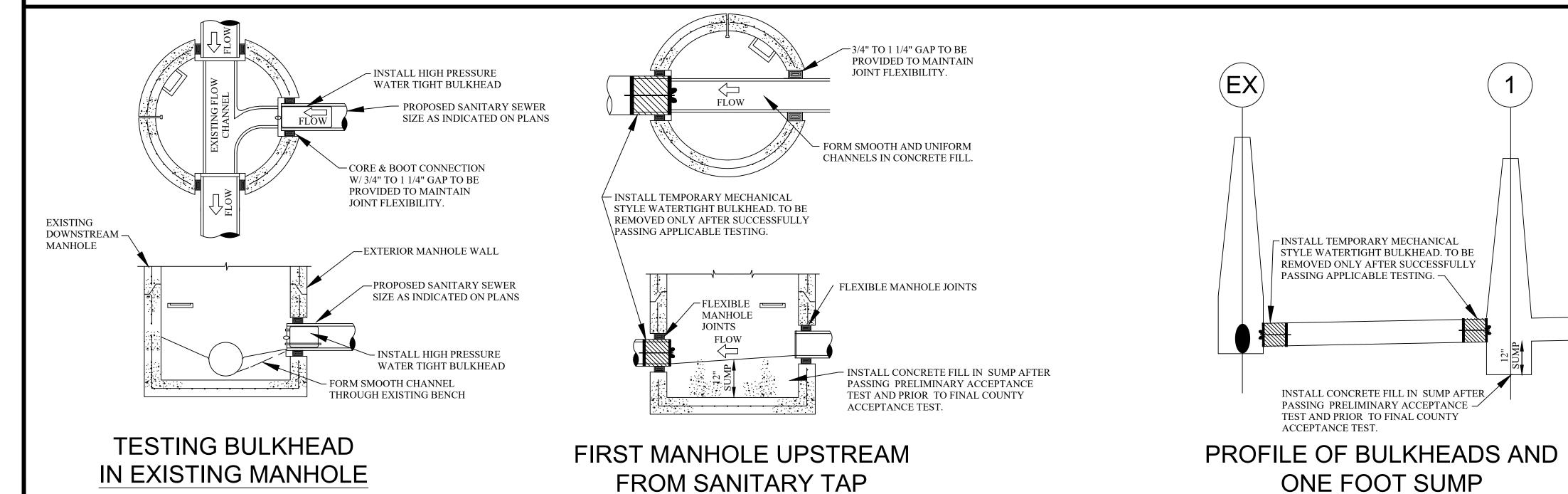
CAST IRON OR CAST ALUMINUM OR PLASTIC PREMIUM JOINT SADDLE, SEWER TAP OR EQUAL. TO BE INSERTED IN MACHINE- DRILLED HOLE DESIGNED FOR THE PARTICULAR SADDLE.

NOTE: SURFACE OF MAIN SEWER SHALL BE CLEANED WITH AN ABRASIVE GRINDER PRIOR TO EPOXY APPLICATION. DUE TO VARIATION OF SET-UP TIME OF EPOXY ADHESIVE WITH TEMPERATURE, ANCHOR STRAPS SHALL BE USED TO SECURE SADDLE IN POSITION IN COLD WEATHER OR WHENEVER WORK IS TO PROCEED PRIOR TO COMPLETE CURE OF EPOXY.

# SEWER TAP-OVER 12" MAIN SEWER PIPES VITRIFIED CLAY



# WYE SADDLE OR WYE PIPE INSERTION WITH FLEXIBLE COUPLINGS (RIGID PIPE)



# CITY OF ROCHESTER HILLS GRAVITY BUILDING LEAD REQUIREMENTS AND DETAILS

- 1. ALL BUILDING LEAD WORK MUST BE PERFORMED UNDER THE CITY OF ROCHESTER HILLS INSPECTION
- 2. FOR ALL CITY OF ROCHESTER HILLS SYSTEMS CALL 248-841-2510 48-HOURS PRIOR TO SCHEDULING INSPECTION.
- FOR ALL OCWRC-OPERATED SYSTEMS, CALL 248-858-1110 48-HOURS IN ADVANCE PRIOR TO SCHEDULING INSPECTION.
- 3. SANITARY SEWER MAY NOT BE USED AS A DE-WATERING OUTLET.
- 4. FITTINGS SHALL BE OF THE SAME MATERIAL AS THE PIPE. FERNCO STRONGBACK COUPLING (OR APPROVED EQUAL) IF DISSIMILAR PIPES ARE CONNECTED. IF DISSIMILAR FITTINGS MUST BE USED, TRANSITION CEMENT/GLUE IS REOUIRED.
- 5. APPROVED BUILDING LEAD PIPE FOR GRAVITY SEWER LEADS:
- A.PVC PLASTIC, ASTM D3034, SDR 23.5
- B.SOLID WALL PVC SCHEDULE 40, ASTM D-2665
- C. ANY DEVIATIONS FROM ABOVE SPECIFICATIONS REQUIRES APPROVAL BY CITY ENGINEER.
- 6. FOR 6" LEADS A CLEANOUT MUST BE INSTALLED EVERY 100 FT. FOR 4" LEADS A CLEANOUT MUST BE INSTALLED EVERY 50 FT. 90° BENDS NOT ALLOWED EXCEPT FROM THE HORIZONTAL TO THE VERTICAL WITHIN 5 FEET OF THE BUILDING.

# CITY OF ROCHESTER HILLS SANITARY SEWER SYSTEM AS-BUILT DRAWING SPECIFICATIONS

IN AREAS WHERE SANITARY SEWER SYSTEMS ARE OPERATED AND MAINTAINED BY THE CITY OF ROCHESTER HILLS DEPARTMENT OF PUBLIC SERVICES, PRELIMINARY ACCEPTANCE OF THE SANITARY SEWER SYSTEM MUST BE RENDERED BY THE DEPARTMENT OF PUBLIC SERVICES, BEFORE THE SYSTEM CAN BE USED FOR THE SERVICE INTENDED.

ONE ITEM REQUIRED FOR PRELIMINARY ACCEPTANCE SHALL BE THE SUBMISSION OF AS-BUILT DRAWINGS TO THE CITY OF ROCHESTER HILLS ENGINEERING DIVISION, BY THE DESIGN ENGINEER. AS-BUILT DRAWINGS SHALL BE DEFINED AS AND CONTAIN THE FOLLOWING INFORMATION:

- 1. FINAL AS-BUILT DRAWINGS SHALL BE PROVIDED IN REPRODUCIBLE PDF FORMAT VIA DIGITAL STORAGE MEDIA. XEROX OR ANY HEAT PROCESS REPRODUCTIONS WILL NOT BE ACCEPTED.
- 2. ALONG WITH THE PDF PLAN SET PROVIDE TWO (2) SETS OF BLACK-LINED DRAWINGS AND THE PLANS ON ELECTRONIC MEDIA IN AUTOCAD FORMAT (LATEST VERSION).
- 3. THE COVER SHEET SHALL BE SEALED BY THE PROJECT DESIGN ENGINEER, ALONG WITH THE FOLLOWING CERTIFICATION STATEMENT.

I HEREBY CERTIFY THAT OUR FIRM HAS PREPARED THESE AS-BUILT DRAWINGS OF THE IMPROVEMENTS AS CONSTRUCTED, AND THAT TO THE BEST OF MY KNOWLEDGE THOSE IMPROVEMENTS NOTED AS "AS BUILT" WERE CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS; AND ALSO THAT THE SANITARY SEWER AND STRUCTURES, AS CONSTRUCTED, LIE WITHIN THE EASEMENT DESCRIPTIONS REQUIRED BY THE CITY OF ROCHESTER HILLS.

(COMPANY NAME)

(ENGINEER'S SIGNATURE)

PROFESSIONAL ENGINEER NO. \_\_\_\_\_\_

ENGINEER SEAL

- 4. THE MAXIMUM SCALE SHALL BE ONE (1) INCH EQUALS FIFTY (50) FEET
- $5.\ THE\ SIZE,\ LENGTH,\ CLASS\ AND\ MANUFACTURER\ OF\ PIPE\ INSTALLED\ SHALL\ BE\ INDICATED.$
- 6. THE SIZE, MANUFACTURER AND MODEL NUMBERS OF ALL VALVES AND PUMPS INSTALLED SHALL BE
- 7. A TOTAL AS-BUILT DRAWING QUANTITY LIST SHALL BE INCLUDED
- 8. THE LOCATIONS SHALL BE SHOWN ON THE PLANS WITH AN ACCURACY OF ONE (1) FOOT.
- 9. THE OFFSET OF THE SANITARY MAIN FROM PROPERTY LINES SHALL BE INDICATED.
- 10. ALL MANHOLES, VALVE WELLS, PUMPS AND ALL SANITARY SYSTEM APPURTENANCES SHALL BE LOCATED FROM TWO FIXED OBJECTS (MANHOLES, BUILDING CORNERS ETC.).

11. ALL UNDERGROUND APPURTENANCES, SUCH AS TFC/ARV WELLS, METER PITS, GRINDER PUMPS AND

- PUMP STATION PITS, ETC. SHALL BE LOCATED FROM THE NEAREST MANHOLE THAT IS CONNECTED TO THE SAME SANITARY MAIN AS THE APPURTENANCE.
- 12. THE ACCURATE LOCATION OF ALL UTILITY CROSSINGS WHERE THE VERTICAL SEPARATION IS LESS THAN 18" SHALL BE NOTED.
- 13. AS-BUILTS SHALL BE PREPARED IN ACCORDANCE WITH CITY OF ROCHESTER HILLS AS-BUILT GUIDELINES AS PROVIDED AT THE PRE-CONSTRUCTION MEETING.



REVISIONS

DATE
APPROVED BY
CITY COUNCIL, DATE: SEPTEMBER 23, 2019

PREPARED BY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC SERVICES

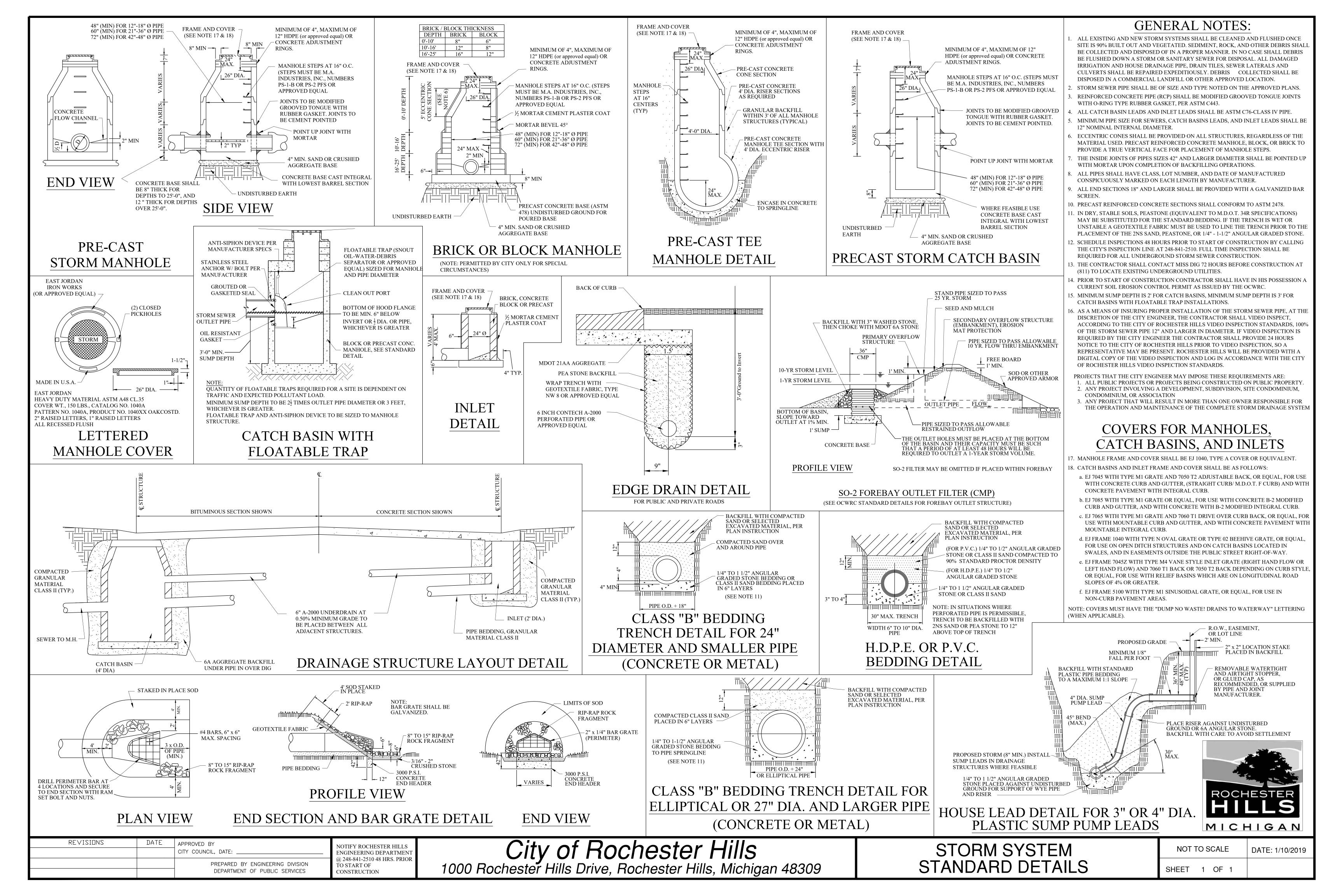
NOTIFY ROCHESTER HILLS ENGINEERING DIVISION @ 248-841-2510 48 HRS. PRIOR TO START OF CONSTRUCTION City of Rochester Hills 1000 Rochester Hills Drive, Rochester Hills, Michigan 48309

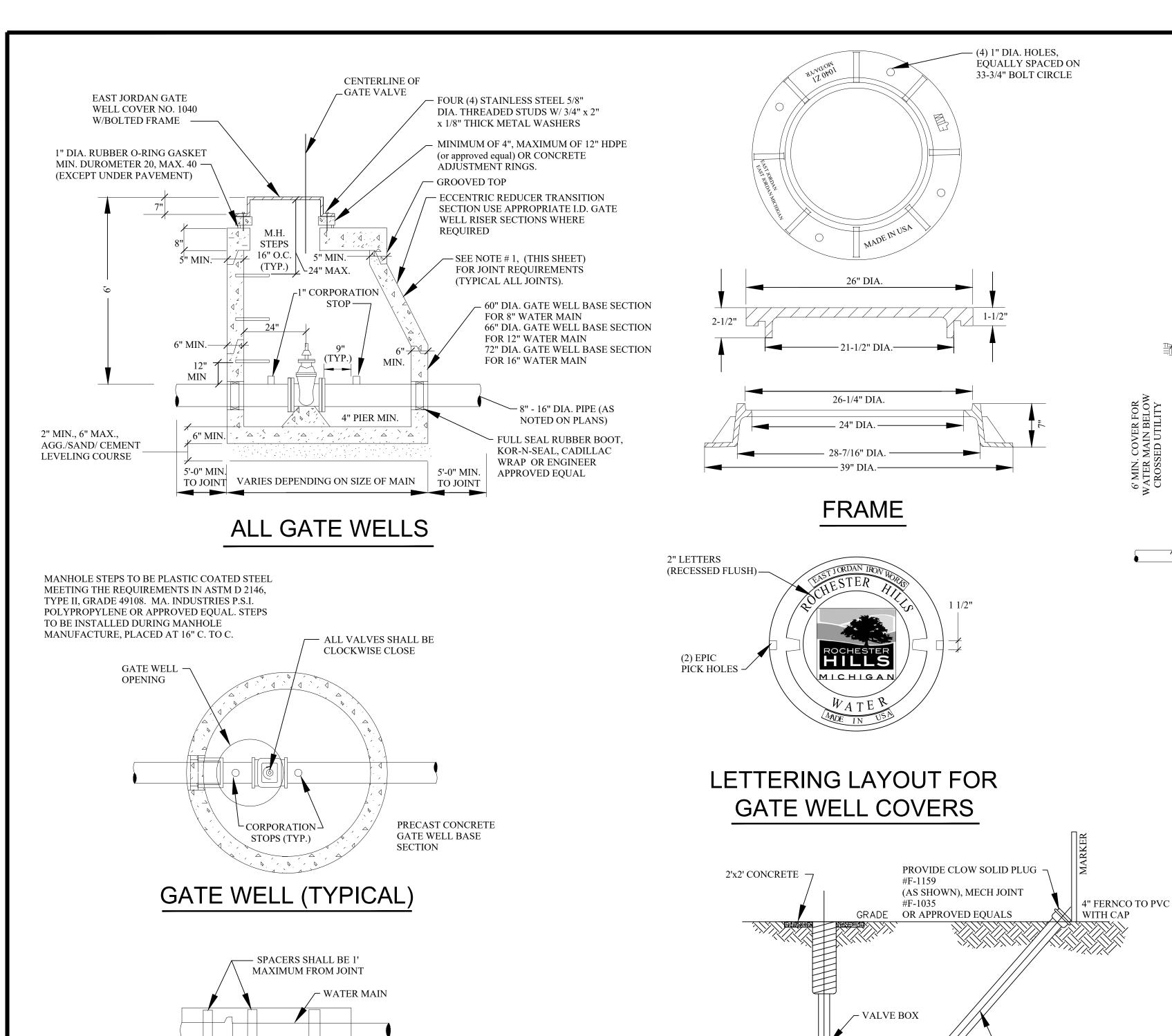
SANITARY SEWER STANDARD DETAILS

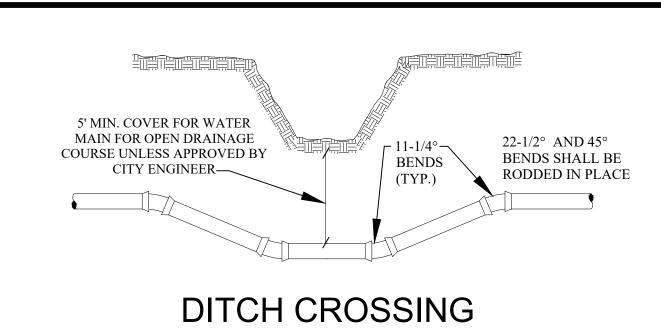
NOT TO SCALE

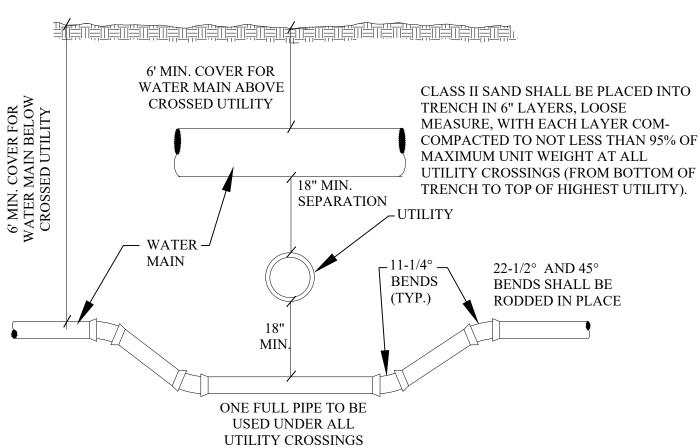
DATE: 1/10/2019

SHEET 2 OF 2



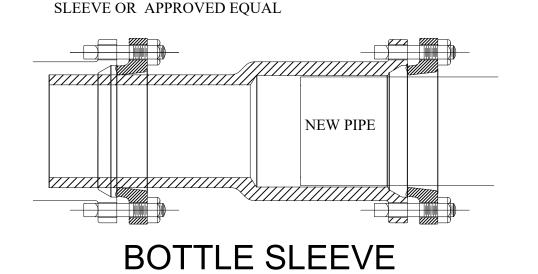


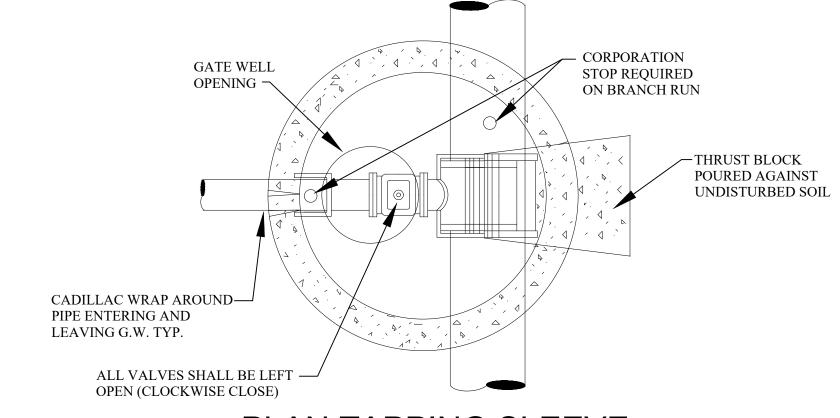




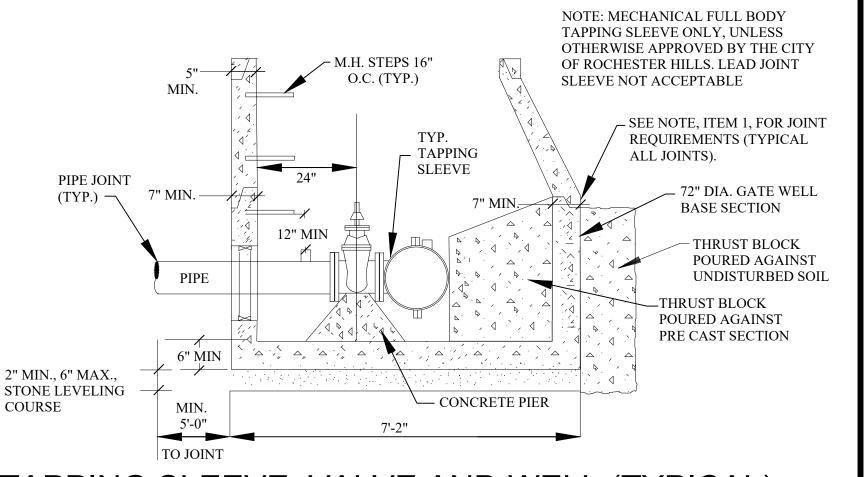
# UTILITY CROSSING

EAST JORDAN MJ x PE DUAL-PURPOSE CUTTING-IN





# PLAN TAPPING SLEEVE VALVE & WELL (TYPICAL)

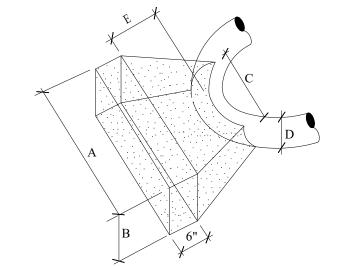


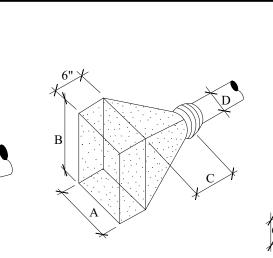
# TAPPING SLEEVE, VALVE AND WELL (TYPICAL)

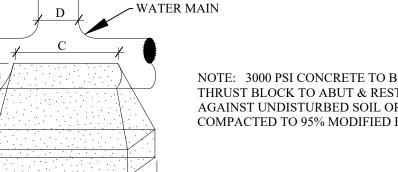
#### NOTES:

- ALL PRECAST CONCRETE GATE WELL SECTIONS SHALL BE MANUFACTURED TO CONFORM WITH A.S.T.M. C478,

- FOR ALL PIPE USE A 1" CORPORATION STOP. NO CORPS SHALL BE USED IN CONCRETE PRESSURE PIPE
- RUBBER O-RINGS SHALL NOT BE USED IN PAVEMENT







THRUST BLOCK TO ABUT & REST AGAINST UNDISTURBED SOIL OR EARTH

5' IIN.			

FOR PLUGS 4' 2.5' 2' 1.5' 8" 2'-10" 2'-6" 6" 2' 1.5' 2' 1.25' 1'-6" 1'-6"

,	D	A	В	С	E MIN.
	20"	6.5'	4.5'	3.5'	3'
	16"	4'-8"	4'-8"	2.5'	2.75'
	12"	4'	3'	2.5'	2.5'
	10"	3'	2'	2'	2.25'
	8"	2'-6"	2'	2'	2.25'
	6"	2'	2'	2'	2.25'

FOR TEES



# THRUST BLOCK DETAILS

CORPORATION STOP -

- 4" D.I. PIPE

ROADWAY -**PAVEMENT** 

-45° BEND WITH

TYPICAL PUBLIC ROAD WATER

SERVICE CONNECTION

PIER CONCRETE

**DETAIL OF 4" BLOWOFF** 

200 PSI POLY OR COPPER

SERVICE TUBING

PROPERTY LINE

WATER MAIN STANDARD DETAILS

NOT	TO S	SCALE	DATE: 1/10/20
HEET	1	OF 2	REV 04/22/202

REVISIONS APPROVED BY SEPTEMBER 23, 2019 PREPARED BY ENGINEERING DIVISION DEPARTMENT OF PUBLIC SERVICES

SUPPORT FOR WATER MAIN

CONSTRUCTED IN CASING PIPE

WATER MAIN IN CASING SECTION

TREATED WOOD OR

TO BE BULKHEADED AT THE ENDS

PRE-MANUFACTURED SPACER OR

MANUFACTURED WOOD SPACER

**POLYETHYLENE** 

RUNNER (TYP.)

PIPE JOINTS SHALI

UNLESS OTHERWISE SPECIFIED, MINIMUM

GRADE B, WALL THICKNESS AS FOLLOWS:

3 RUNNERS

0.375

0.500

CASING PIPE SHALL BE ASTM A-139

REQUIRED QUANTITY OF RUNNERS

16" TO 36" DIA 6 RUNNERS

ENGINEERING DIVISION @ 248-841-2510 48 HRS. PRIOR TO START OF CONSTRUCTION

MEGA LUG ON ALL -

MIN.

MECHANICAL

City of Rochester Hills

1000 Rochester Hills Drive, Rochester Hills, Michigan 48309

RIGHT-OF-WAY/

PROPERTY LINE

CURB STOP -

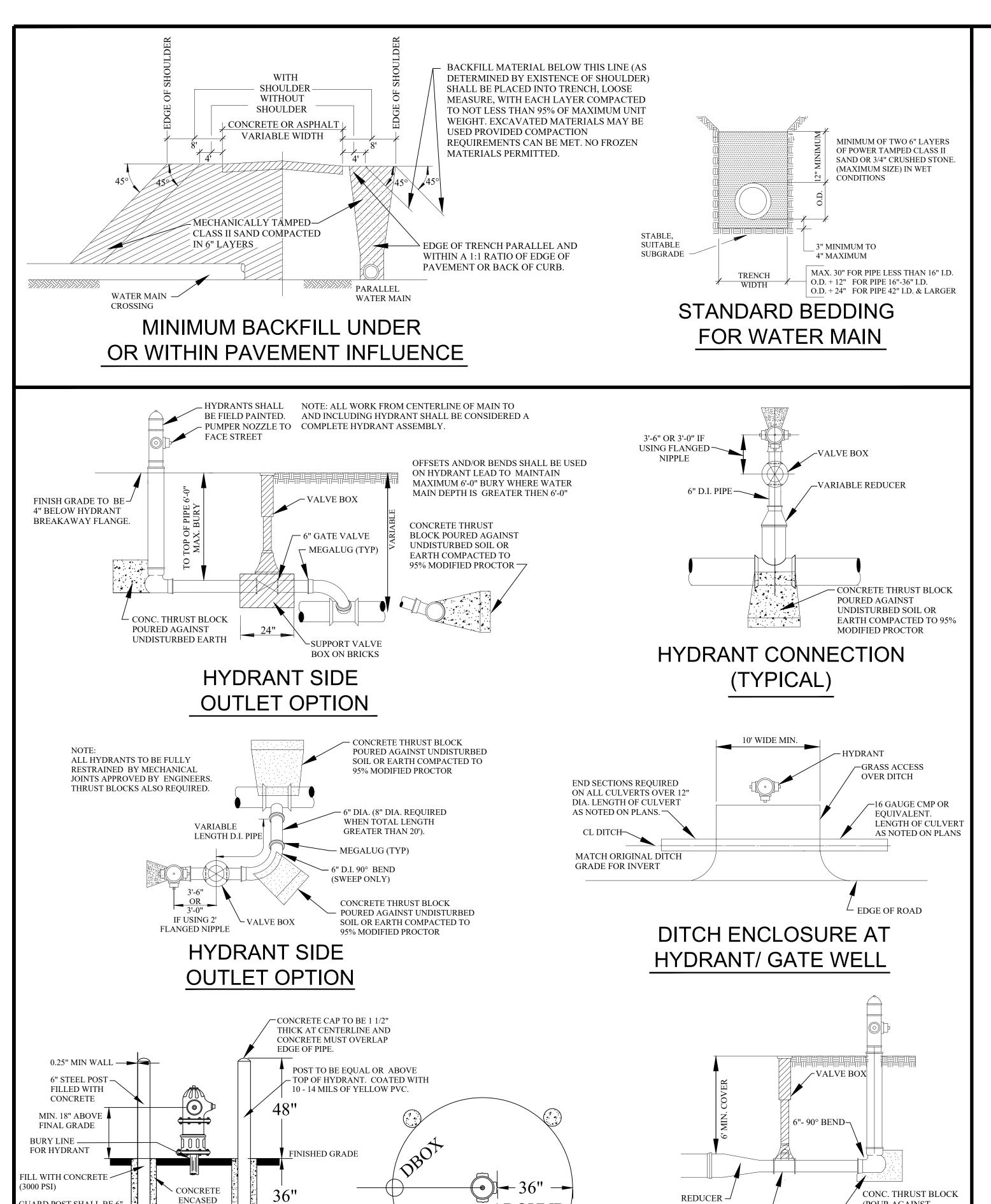
2. LATERAL LOCATION SHALL BE AS REQUESTED

3. ROCHESTER HILLS DPS PERFORMS SERVICE

BY THE ABUTTING PROPERTY OWNER.

LEAD TAPS UP TO 2" DIAMETER.

CORPORATION STOP



AROUND

**HYDRANT & BLOWOFF DETAILS** 

NOTIFY ROCHESTER HILLS

ENGINEERING DIVISION @ 248-841-2510 48 HRS. PRIOR

TO START OF

CONSTRUCTION

CLEAR

SEPTEMBER 23, 2019

PREPARED BY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC SERVICES

GUARD POST SHALL BE 6"

EQUAL BY ENGINEER.

ГНІСКNESS, GALVANIZED 🛴

STEEL PIPE OR APPROVED

1. GUARD POST SHALL NOT INTERFERE WITH HYDRANT OPERATION 2. TO BE INSTALLED IN ALL PAVED

AREAS WHERE VEHICLE EQUIPMENT

DAMAGE TO HYDRANT IS POSSIBLE

REVISION TO FIRE HYDRANT PER EGLE

REV. ADDED #14 UNDER GENERAL NOTES | 12-12-2023

REVISIONS

**GUARD POST** 

10-23-2023

APPROVED BY

CITY COUNCIL, DATE:

D., 1/4" WALL

# **GENERAL NOTES**

- 1. ALL CONSTRUCTION PROCEDURES AND MATERIALS SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS.
- 2. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED BY THE CITY OF ROCHESTER HILLS AND HELD PRIOR TO THE START OF CONSTRUCTION
- 3. CONTRACTOR MUST CONTACT MISS DIG (811) AT LEAST THREE WORKING DAYS PRIOR TO THE START OF CONSTRUCTION FOR UNDERGROUND UTILITY LOCATIONS. ALL UTILITIES SHALL BE STAKED BEFORE CONSTRUCTION BEGINS
- 4. ALL WATER MAIN EASEMENTS SHALL BE PROVIDED PRIOR TO CONSTRUCTION AND ACCEPTANCE OF THE WATER
- 5. WATER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM COVER OF 6 FEET BELOW FINISHED GRADES, INCLUDING OPEN DRAINAGE COURSES.
- 6. ALL TRENCHES UNDER OR WITHIN A 1:1 RATIO OF EXISTING OR PROPOSED PAVEMENT OR DRIVEWAYS, SHALL BE BACKFILLED WITH COMPACTED CLASS II SAND TO GRADE (95% MAXIMUM UNIT DENSITY)
- 7. WHERE TWO UTILITIES CROSS, PROVIDE CLASS II BACKFILL MATERIAL IN SIX (6) INCH COMPACTED LAYERS TO TOP OF HIGHEST UTILITY.
- 8. WHERE WATER MAINS DIP UNDER OTHER UTILITIES, THE SECTIONS WHICH ARE DEEPER THAN NORMAL SHALL BE CONSTRUCTED WITH 11-1/4° VERTICAL BENDS, 22 1/2° OR 45° BENDS MUST BE RODDED AND PROPERLY ANCHORED.
- SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS. WALL THICKNESS SHALL BE AS SHOWN ON THESE DETAILS. ALL JOINTS FOR PRECAST CONCRETE GATE WELL SECTIONS SHALL BE "MODIFIED GROOVE TONGUE" WITH GASKET MANUFACTURED TO CONFORM WITH A.S.T.M. C 443, STANDARD SPECIFICATION FOR JOINTS FOR
- 10. CONTRACTOR SHALL INSTALL VALVES. TAPPING SLEEVES AND GATE WELL STRUCTURES IN STRICT COMPLIANCE WITH MEASUREMENTS PROVIDED ON SHEET 1 (2'-0" BETWEEN GATE WELL WALL & CENTERLINE OF OPERATING NUT) TO ALLOW PROPER OPERATION OF VALVE THROUGH GATE WELL OPENING.
- 11. ALL CROSS-CONNECTION CONTROL DEVICES SHALL BE INSTALLED AS REQUIRED BY THE ROCHESTER HILLS PLUMBING INSPECTOR AND IN ACCORDANCE WITH THE STANDARDS OF THE OAKLAND COUNTY WATER RESOURCE COMMISSIONER OPERATION AND MAINTENANCE DIVISION AND THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF DRINKING WATER AND RADIOLOGICAL PROTECTION.
- 12. ALL WATER SERVICE CONNECTIONS TWO (2) INCHES AND SMALLER SHALL BE MADE BY THE CITY OF ROCHESTER HILLS, DEPARTMENT OF PUBLIC SERVICES AFTER WATER MAIN ACCEPTANCE AND APPLICABLE PERMITS ARE OBTAINED.
- 13. ALL FITTINGS AND BENDS SHOULD BE BLOCKED IN ACCORDANCE WITH THRUST BLOCK DETAILS, UNLESS ALTERNATE THRUST RESTRAINT SYSTEM, AS INDICATED PLANS AND SPECIFICATIONS, IS APPROVED BY THE CITY OF ROCHESTER HILLS DEPARTMENT OF PUBLIC SERVICE.
- 14. FOR ANY DIRECT TAPPING OF ASBESTOS CEMENT WATER MAIN, THE CLOSEST DOWNSTREAM HYDRANT SHALL BE FLUSHED DURING THE TAPPING PROCEDURE.

# WATER MAIN MATERIALS NOTES

1. TEMPORARY CONNECTIONS, WHICH MAY BE MADE FOR CHLORINATING AND FLUSHING PURPOSES, SHALL INCLUDE A TESTABLE DOUBLE CHECK VALVE BACKFLOW PREVENTER WITH CURRENT CERTIFICATION.

- 2. CORPORATION STOPS USED FOR INSERTION INTO MAINS SHALL BE FORD TYPE B-44. ALL STOPS SHALL HAVE BRONZE CAST
- COATING WITH CLASS 52 MAY BE PROPOSED AND IS SUBJECT TO FINAL DECISION FOR APPROVAL BY THE CITY ENGINEER. 4. THE DUCTILE IRON PIPE TO BE FURNISHED AND DELIVERED UNDER THIS SPECIFICATION SHALL MEET ALL THE
- REQUIREMENTS OF THE CURRENT AWWA C151 (ANSI A21.5), EXCEPT AS OTHERWISE SPECIFIED HEREIN. PIPE SHALL BE DOUBLE CEMENT-LINED AND SEAL COATED WITH AN APPROVED BITUMINOUS SEAL COAT IN ACCORDANCE WITH AWWA C104 (ANSI A21.4).
- 5. DUCTILE IRON PIPE SHALL BE CLASS 54 FOR SIZES THREE (3) INCH THROUGH TWENTY (20) INCHES SIZE. TWENTY-FOUR (24) INCH AND LARGER SHALL BE CLASS 55 DUCTILE IRON PIPE.
- 6. PIPES TWENTY-FOUR (24) INCHES AND LARGER IN NOMINAL DIAMETER SHALL MEET ALL THE REQUIREMENTS OF THE CURRENT AWWA C100 FOR DUCTILE IRON WATER PIPE.
- 7. MECHANICAL JOINTS FOR DUCTILE IRON WATER MAIN SHALL BE IN ACCORDANCE WITH AWWA C111 (ANSI A21.11).
- 8. FLANGE JOINTS FOR DUCTILE IRON WATER MAIN SHALL BE IN ACCORDANCE WITH AWWA C110 (ANSI A21.10).
- 9. FITTINGS FOR DUCTILE IRON PIPE SHALL BE DUCTILE IRON AND SHALL MEET REQUIREMENTS OF AWWA C110 (ANSI TWENTY-FOUR (24) INCH DIAMETER AND LESS, AND 250 PSI FOR PIPE SIZES OVER TWENTY-FOUR (24) INCH DIAMETER. DUCTILE IRON FLANGE FITTINGS SHALL BE RATED FOR 250 PSI FOR ALL PIPE DIAMETERS.
- 10. ALL DUCTILE IRON PIPE, FITTINGS AND HYDRANTS SHALL BE ENCASED WITH POLYETHYLENE ENCASEMENT IN ACCORDANCE WITH THE REOUIREMENTS OF A.N.S.I./A.W.W.A. STANDARD SPECIFICATION D1248 AND AWWA C105 POLYETHYLENE TUBE MATERIAL SHALL HAVE A THICKNESS OF .008" (8-MILS). ADHESIVE TAPE SHALL BE A GENERAL PURPOSE ADHESIVE TAPE 2" WIDE AND APPROXIMATELY 10-MILS THICK, SUCH AS SCOTCHRAP. NO.50, POLYKEN NO. 900,

# VALVE AND SLEEVE NOTES

- 2. ALL IN LINE GATE VALVES EIGHT (8) INCH AND LARGER SHALL BE IN WELLS. SPECIFICATIONS SHALL INCLUDE THE DIRECTION OF OPERATION OF ALL VALVES (CLOCKWISE CLOSURE). VALVE BOX USE TO BE APPROVED BY ENGINEERING DIVISION. 3. ALL GATE WELL COVERS SHALL BE CITY OF ROCHESTER HILLS STANDARD AS DETAILED.
- SHALL BE PROVIDED WITH AN EXTENSION STEM. THE LENGTH OF THE EXTENSION STEM SHALL REACH WITHIN FIVE (5) EXTENSION STEM GUIDE SUITABLY FASTENED TO THE WALL OF THE GATE WELL. THE EXTENSION STEM SHALL BE MECHANICALLY ATTACHED TO THE OPERATING NUT. DETAILS OF THE EXTENSION SYSTEM AND THE METHOD OF INSTALLATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- 5. BUTTERFLY VALVES SHALL BE USED FOR VALVES GREATER THAN 16-INCH DIAMETER AND SHALL BE MODEL 2F11 AS MANUFACTURED BY HENRY PRATT COMPANY OR APPROVED EQUAL
- 6. TAPPING VALVES SHALL BE SERIES "A" AS MANUFACTURED BY EAST JORDAN OR RESILIENT SEATED GATE VALVES AS APPROVED BY THE CITY OF ROCHESTER HILLS ENGINEERING SERVICES.
- 7. TAPPING SLEEVES SHALL BE MANUFACTURED BY ROMAC INDUSTRIES; MUELLER; EAST JORDAN; SMITH-BLAIR OR APPROVED EQUAL AND APPROVED BY THE CITY OF ROCHESTER HILLS. FULL BODY SLEEVES MUST BE USED EXCEPT FOR REINFORCED CONCRETE PRESSURE PIPE OR A.C. PIPE.

## HYDRANT REQUIREMENTS

- 1. ALL HYDRANTS SHALL BE CONSTRUCTED WITH A SIX (6) INCH COMPANION GATE VALVE IN A THREE (3) PIECE, ADJUSTABLE DUCTILE IRON VALVE BOX, WHICH SHALL INCLUDE A FIVE AND ONE-QUARTER (5-1/4) INCH SCREW SHAFT.
- VALVE BOXES SHALL BE SERIES 6860 AS MANUFACTURED BY TYLER PIPE OR APPROVED EQUAL 2. ALL HYDRANTS SHALL BE EAST JORDAN NO. 5-BR-250 TRAFFIC MODEL, OR CITY APPROVED EQUAL.

SELF-DRAINING HYDRANTS SHALL NOT BE USED. HYDRANTS SHALL HAVE BREAKAWAY FLANGE.

- 3. ALL HYDRANTS SHALL BE PAINTED RED ABOVE GROUND WITH A FINISH COAT OF RUST-OLEUM SAFETY RED OR APPROVED EQUAL. HYDRANT CAPS SHALL BE PAINTED SAME COLOR AS THE HYDRANT.
- 4. ALL FIRE HYDRANT JOINTS SHALL BE TOTALLY RESTRAINED BY THE USE OF RESTRAINED JOINT. THRUST BLOCKS ARE
- 5. REFER TO AWWA C502 FOR ALL PROPOSED FIRE HYDRANTS.

# ACCEPTANCE OF NEW WATER MAINS

- BACTERIA TESTING MUST BE COMPLETED IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS 2) ALL EASEMENT 3) THE CITY OF ROCHESTER HILLS MUST BE PROVIDED WITH THE BILL OF SALE AND 4) ALL MYLAR "AS - BUILT DRAWINGS" MUST BE ACCEPTED AND APPROVED BY THE CITY OF ROCHESTER HILLS, ENGINEERING SERVICES. THE CITY OF ROCHESTER HILLS INSPECTION DIVISION MUST WITNESS THE CONNECTION OF THE WATER MAIN TO THE EXISTING WATER MAIN, AFTER WHICH RESIDENTIAL AND COMMERCIAL TAPS WILL BE ALLOWED
- 2. THE CONTRACTOR SHALL NOTIFY THE CITY OF ROCHESTER HILLS, INSPECTION DEPARTMENT (248.841.2510) FOR PRESSURE TESTING, BACTERIOLOGICAL SAMPLING, CONNECTIONS TO EXISTING WATER MAIN AND FINAL FIELD REVIEW. A FORTY-EIGHT (48) HOUR ADVANCE NOTICE IS REQUIRED.
- 3. THE CONTRACTOR SHALL DISINFECT AND PRESSURE TEST ALL NEW WATER MAIN IN ACCORDANCE WITH ROCHESTER HILLS STANDARDS. THE WATER MAIN SHALL PASS A 150 PSI PRESSURE TEST FOR A TWO (2) HOUR PERIOD. WATER LOSS SHALL NOT EXCEED A RATE OF 11.65 U.S. GALLONS PER INCH DIAMETER PER MILE OF WATER MAIN IN TWENTY-FOUR (24) HOURS.
- 4. WHERE CONTRACTOR SUPPLIED GAUGES ARE REQUIRED, MINIMUM SIZE SHALL BE 3 1/2" DIAMETER OR LARGER GRADUATED IN ONE (1) OR TWO (2) POUND INCREMENTS FROM 1 TO 160 P.S.I. OR HIGHER AND HAVE CURRENT CERTIFICATION.
- 5. PRESSURE TESTING AND BACTERIA TESTING MUST BE COMPLETED AND APPROVED PRIOR TO CONNECTING TO THE EXISTING WATER MAIN.

# CITY OF ROCHESTER HILLS WATER SYSTEMS AS-BUILT DRAWING SPECIFICATIONS

IN AREAS WHERE WATER SYSTEMS ARE OPERATED AND MAINTAINED BY THE CITY OF ROCHESTER HILLS DEPARTMENT OF PUBLIC SERVICES, FINAL ACCEPTANCE OF THE WATER SYSTEM MUST BE RENDERED BY THE DEPARTMENT OF PUBLIC SERVICES, BEFORE THE SYSTEM CAN BE USED FOR THE SERVICE INTENDED.

ONE ITEM REQUIRED FOR FINAL ACCEPTANCE SHALL BE THE SUBMISSION OF AS-BUILT DRAWINGS TO THE CITY OF ROCHESTER HILLS, DPS, BY THE DESIGN ENGINEER. AS-BUILT DRAWINGS SHALL BE DEFINED AS AND CONTAIN THE FOLLOWING INFORMATION:

- 1. FINAL AS-BUILT DRAWINGS SHALL BE PROVIDED IN REPRODUCIBLE PDF FORMAT VIA DIGITAL STORAGE MEDIA. XEROX OR ANY HEAT PROCESS REPRODUCTIONS WILL NOT BE ACCEPTED.
- 2. ALONG WITH THE PDF PLAN SET PROVIDE TWO (2) SETS OF BLACK-LINED DRAWINGS AND THE PLANS ON ELECTRONIC MEDIA IN AUTOCAD FORMAT (LATEST VERSION)
- 3. EACH AND EVERY SHEET SHALL BE SEALED BY THE DESIGN ENGINEER, ALONG WITH THE FOLLOWING CERTIFICATION STATEMENT ON THE COVER SHEET:

I HEREBY CERTIFY THAT OUR FIRM HAS PREPARED THESE AS-BUILT DRAWINGS OF THE IMPROVEMENTS NOTED AS "AS BUILT" WERE CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS; AND ALSO THAT THE WATER MAIN AND STRUCTURES, AS CONSTRUCTED, LIE WITHIN THE EASEMENT DESCRIPTIONS REQUIRED BY THE CITY OF ROCHESTER HILLS. (COMPANY NAME) (ENGINEER'S SIGNATURE)

ENGINEER SEAL

4. THE MAXIMUM SCALE SHALL BE ONE (1) INCH EQUALS FIFTY (50) FEET

PROFESSIONAL ENGINEER NO.

- 5. THE SIZE, LENGTH, CLASS AND MANUFACTURER OF PIPE INSTALLED SHALL BE INDICATED.
- 6. THE SIZE, BRAND AND MODEL NUMBERS OF ALL VALVES AND HYDRANTS INSTALLED SHALL BE INDICATED.
- 7. A TOTAL AS-BUILT DRAWING QUANTITY LIST SHALL BE INCLUDED, AS WELL AS AN AS-BUILT DRAWING QUANTITY LIST ON EACH INDIVIDUAL SHEET.
- 8. THE LOCATIONS SHALL BE SHOWN ON THE PLANS WITH AN ACCURACY OF ONE (1) FOOT.
- 9. THE OFFSET OF THE WATER MAIN FROM PROPERTY LINES SHALL BE INDICATED
- 10. ALL GATE VALVE WELLS, HYDRANTS AND ALL WATER SYSTEM APPURTENANCES SHALL BE LOCATED FROM TWO FIXED OBJECTS (MANHOLES, BUILDING CORNERS ECT.).
- 11. ALL UNDERGROUND APPURTENANCES, SUCH AS GATE VALVE WELLS, METER PITS, PRESSURE REDUCING VALVE PITS, ETC. SHALL BE LOCATED FROM THE NEAREST HYDRANT THAT IS CONNECTED TO THE SAME WATER MAIN AS THE APPURTENANCE.
- 12. THE LOCATION AND SIZE OF EVERY RESTRAINED JOINT SHALL BE NOTED.
- 13. THE ACCURATE LOCATION OF ALL UTILITY CROSSINGS WHERE THE VERTICAL SEPARATION, IS LESS THAN 18" SHALL BE NOTED.
- 14. AS-BUILT SHALL BE PREPARED IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS AS-BUILT GUIDELINES AS PROVIDED AT THE PRE-CONSTRUCTION MEETING



City of Rochester Hills

1000 Rochester Hills Drive, Rochester Hills, Michigan 48309

— (POUR AGAINST

DEAD END BLOWOFF

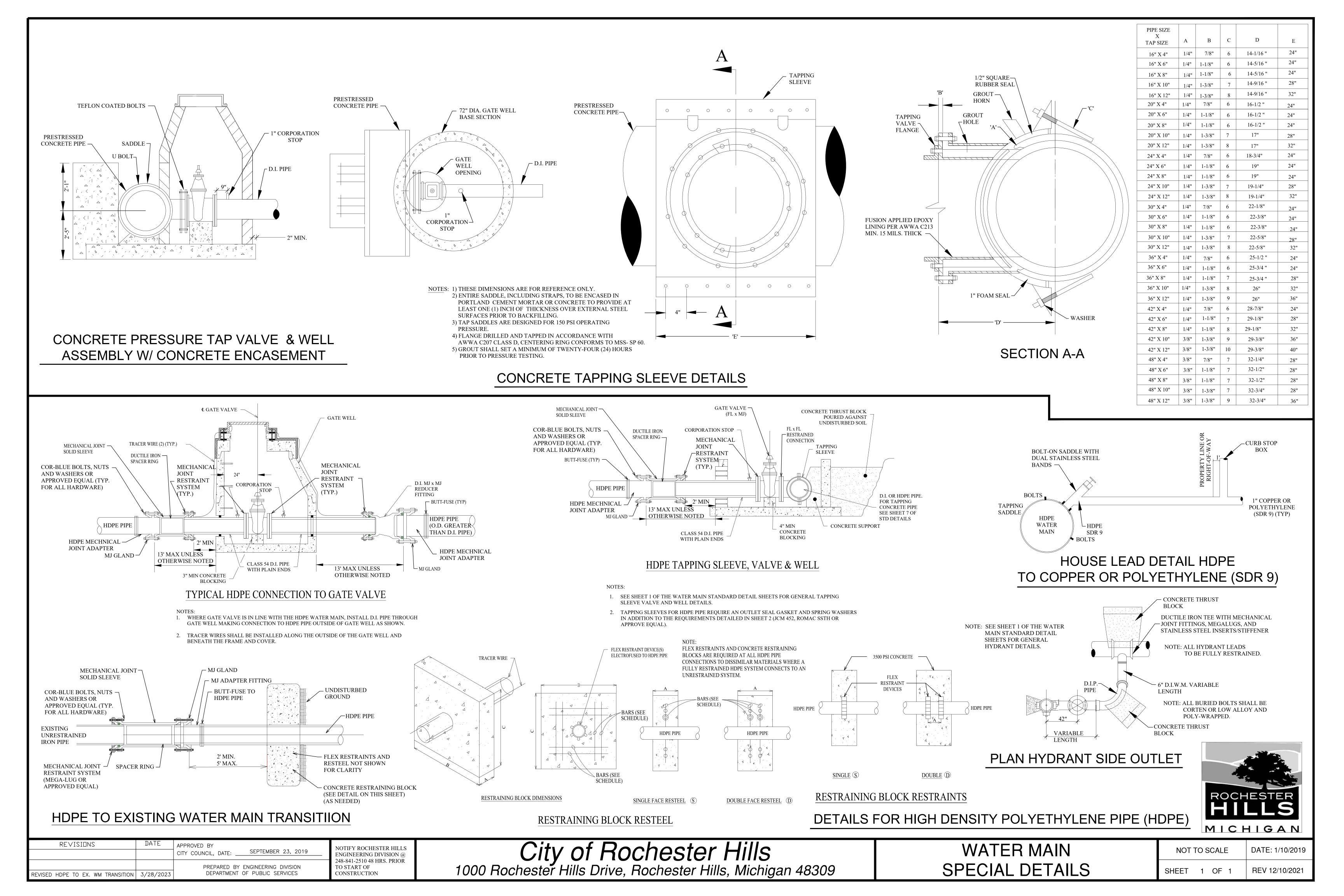
CONNECTION

UNDISTURBED EARTH

WATER MAIN STANDARD DETAILS

NOT TO SCALE DATE: 1/10/2019





### site plan UPDATED.pdf Markup Summary

(2)

TS AND OTHER PER CHTY OF AN

Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 9:06:52 AM

Status:

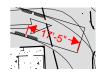
TRAFFIC ( Author: Angie

8. THE CONT Subject: Underground Utilities

ARBOR RE Date: 2/13/2025 9:06:32 AM

Status: DEVICES (

17'-5" (1)



Subject: Fire Department Author: Ann Echols

Date: 2/10/2025 12:48:59 PM

Status:

46'-1 3/4" (1)



Subject: Fire Department Author: Ann Echols

Date: 2/10/2025 12:48:55 PM

Status:

46'-1 3/4"

17'-5"

Additional monies into Tree Fund if trees shown on landscape plan are not permissible to plant. (1)



Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 2:31:38 PM

Status:

Additional monies into Tree Fund if trees shown on landscape plan are not permissible to plant.

Assessing



Subject: Planning Department

Yes (1)

Author: C.McLeod

Date: 2/24/2025 2:33:52 PM

Status:

Assessing

Yes

BP (1)



Subject: Group

Author: C.McLeod

Date: 2/24/2025 1:01:38 PM

Status:

BP

City File #23-0143 Section #08 in the lower right hand corner of each sheet (1)



Subject: Engineering Department

Author: Jason Boughton Date: 2/10/2025 2:02:36 PM

Status:

City File #23-0143 Section #08 in the lower right

hand corner of each sheet

#### City of Rochester Hills Planning & Economic Development (1)



Subject: Group Author: macdonaldj Date: 2/7/2025 11:09:31 AM

Status:

City of Rochester Hills Planning & Economic

Development

#### For all conditional uses, a "Conditional Use Proposed Sign" shall be placed onsite no less than fifteen (15) days prior to the public



Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 2:16:32 PM

Status:

For all conditional uses, a "Conditional Use Proposed Sign" shall be placed onsite no less than fifteen (15) days prior to the public hearing date. Such sign shall be placed onsite by City Staff when the public hearing date/meeting has been

confirmed by PED Staff.

#### Gasoline service stations require minimum of one (1) acre for development, gasoline station is existing (1)



Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 2:17:21 PM

Status:

Gasoline service stations require minimum of one (1) acre for development, gasoline station is

existing

#### Jason Rhoades 248-841-2435 RhoadesJa@RochesterHills.org (1)



Subject: Building Department

Author: J Rhoades

Date: 2/21/2025 11:38:22 AM

Status:

Jason Rhoades 248-841-2435 RhoadesJa@RochesterHills.org

#### Landscape Bond - \$29,185 plus landscape inspections fees (1)



Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 2:26:36 PM

Status:

Landscape Bond - \$29,185 plus landscape

inspections fees

#### LB (1)



Subject: Group Author: C.McLeod

Date: 2/24/2025 1:01:42 PM

Status:

LB

#### LIP (1)



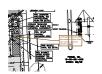
Subject: Group Author: C.McLeod

Date: 2/24/2025 1:01:32 PM

Status:

LIP

#### Loading/unloading area permissible in other than rear yard for gasoline service stations (1)



Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 2:20:42 PM

Status:

Loading/unloading area permissible in other than rear yard for gasoline service stations

Maintenance. The owner, tenant, occupant or person responsible for any property which was the subject of an approved site plan



Subject: Planning Department

**Author:** C.McLeod **Date:** 2/24/2025 2:14:54 PM

Status:

Maintenance. The owner, tenant, occupant or person responsible for any property which was the subject of an approved site plan shall maintain the property and the improvements thereon in accordance with the approved site plan or an approved amendment thereof. This responsibility shall include the duty to maintain in a condition substantially similar as approved, including the duty to replace, if necessary, all improvements such as, but not by way of limitation, all greenbelts, planting, walls, fences, paving, trash receptacles, handicapped parking areas, etc.

PCM (4)



Subject: Group

Author: C.McLeod

Date: 2/24/2025 1:01:48 PM

Status:

es)

Subject: Group

Author: C.McLeod

Date: 2/24/2025 2:22:06 PM

Status:



Subject: Group

**Author:** C.McLeod **Date:** 2/24/2025 2:22:10 PM

Status:

ines .ines

Subject: Group

**Author:** C.McLeod **Date:** 2/24/2025 2:22:15 PM

Status:

РСМ

**PCM** 

**PCM** 

**PCM** 

Planning Commission (1)

**PRO** 



Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 1:03:41 PM

Status:

Planning Commission

Planning Commission approval required for proposed dumpster location in side yard. (1)



Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 2:21:20 PM

Status:

Planning Commission approval required for proposed dumpster location in side yard.

Planning Commission review and approval necessary for 10' setback. (1)



Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 2:19:53 PM

Status:

Planning Commission review and approval

necessary for 10' setback.

CIVCU Z/I/Z	O25 City of Rochester Hills Planning & Eco	nomic Development (10)
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TRUCTION DRAWINGS SAL	Status:	City of Rochester Hills Planning & Economic Development
ŀ	Subject: Group	Received
7,0523-01-63 September 100-100-100-100-100-100-100-100-100-100	Author: C.McLeod Date: 2/24/2025 1:06:15 PM	2/7/2025
STRUCTION DRAWINGS	Status:	City of Rochester Hills Planning & Economic Development
Lor	Subject: Group	Dagaiyad
20023-01-03 P59-2024-0613 Card Section 100	Author: C.McLeod Date: 2/24/2025 1:06:21 PM	Received 2/7/2025
TRUCTION DRAWINGS	Status:	City of Rochester Hills Planning & Economic Development
Þ	Subject: Group	Received
J0023-0143 PSP 202001-0013 Revision #2 Copy of Surface His. Revision #2 Copy of Surface His.	<b>Author:</b> C.McLeod <b>Date:</b> 2/24/2025 1:06:29 PM	2/7/2025
STRUCTION DRAWINGS	Status:	City of Rochester Hills Planning & Economic Development
<u>-</u>	Subject: Group	Received
2002-0143   Daniel	Author: C.McLeod Date: 2/24/2025 1:06:35 PM	2/7/2025
TRUCTION DRAWINGS	Status:	City of Rochester Hills Planning & Economic Development
DF OF	Subject: Group	Received
20022-01-00 20020 FE	<b>Author:</b> C.McLeod <b>Date:</b> 2/24/2025 1:06:41 PM	2/7/2025
RUCTION DRAWINGS	Status:	City of Rochester Hills Planning & Economic Development
DF Or	Subject: Group	Received
23023-0143 25023-0143 25023-014013 25023-014013 25023-0143 2502	<b>Author:</b> C.McLeod <b>Date:</b> 2/24/2025 1:06:46 PM	2/7/2025
RUCTION DRAWINGS SCA	Status:	City of Rochester Hills Planning & Economic Development
	Subject: Group	Received
20022-0143 23700 K	Author: C.McLeod Date: 2/24/2025 1:06:51 PM	2/7/2025
Security	Status:	City of Rochester Hills Planning & Economic Development
	Subject: Group	Received
J3622-0143 317301 317301 5180 5180 5180 5180 5180 5180 5180 51	<b>Author:</b> C.McLeod <b>Date:</b> 2/24/2025 1:06:56 PM	2/7/2025
- Continues	Status:	City of Rochester Hills Planning & Economic Development
have the s not meet	Subject: Group	Pagaiyad
J2022-0143 Secret 3 Toward 3 Toward 5 T	Author: C.McLeod Date: 2/24/2025 1:07:00 PM	Received 2/7/2025
_	Status:	City of Rochester Hills Planning & Economic

City of Rochester Hills Planning & Economic Development

.3223-0143 PSP2024-0013 FILLS Revision #3

Subject: Group Author: C.McLeod

Date: 2/24/2025 1:07:05 PM

Status:

Received 2/7/2025

City of Rochester Hills Planning & Economic

Development

Subject: Group Author: C.McLeod

Date: 2/24/2025 1:07:46 PM

Status:

Received 2/7/2025

City of Rochester Hills Planning & Economic

Development

J2023-0143 PSP2024-0013

Subject: Group Author: C.McLeod

Date: 2/24/2025 1:07:38 PM

Status:

Received 2/7/2025

City of Rochester Hills Planning & Economic

Development

Subject: Group Author: C.McLeod

Date: 2/24/2025 1:07:31 PM

Status:

Received 2/7/2025

City of Rochester Hills Planning & Economic

Development



Subject: Group Author: C.McLeod

Date: 2/24/2025 1:07:26 PM

Status:

Received 2/7/2025

City of Rochester Hills Planning & Economic

Development



Subject: Group Author: C.McLeod

Date: 2/24/2025 1:07:20 PM

Status:

Received 2/7/2025

City of Rochester Hills Planning & Economic

Development

#### REVISE TO 0.21 UNITS PER OCWRC SCHEDULE (1)

Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 9:40:10 AM

Status:

REVISE TO 0.21 UNITS PER OCWRC

**SCHEDULE** 

#### REVISE TO 944.0 SO THAT STRUCTURE IS MINIMUM 1 FT. BELOW FG AT CORNER OF LOT. (1)



Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 9:38:36 AM

Status:

REVISE TO 944.0 SO THAT STRUCTURE IS MINIMUM 1 FT. BELOW FG AT CORNER OF

LOT.

#### ROAD COMMISSION FOR OAKLAND COUNTY (1)

DES TO BE

Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 9:02:52 AM

Status:

ROAD COMMISSION FOR OAKLAND COUNTY

#### ROW Plantings will Require a RCOC Permit. If the Permit is Not Granted, the Value of Required Trees Shall be Placed in the Ci

Federated STeen
SEction 1 Tee

Subject: Contractor Author: C.McLeod

Date: 2/24/2025 2:23:59 PM

Status:

ROW Plantings will Require a RCOC Permit. If the

Permit is

Not Granted, the Value of Required Trees Shall

be Placed in the City Tree Fund

SP (1)



Subject: Group Author: C.McLeod

Date: 2/24/2025 1:01:15 PM

Status:

SP

STRUCTURE MUST BE ADDED AT BEND (1)



Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 9:40:47 AM

Status:

STRUCTURE MUST BE ADDED AT BEND

The applicant will need to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans



Subject: Engineering Department

Author: Jason Boughton Date: 2/10/2025 2:02:36 PM

Status:

The applicant will need to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans to proceed with the construction plan review process.

#### THERE IS A RESTRICTIVE COVENANT FROM 2006 ON THIS PROPERTY RECORDED AS LIBER 37796 PAGE 033 AS A RES



Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 9:36:13 AM

Status:

THERE IS A RESTRICTIVE COVENANT FROM 2006 ON THIS PROPERTY RECORDED AS LIBER 37796 PAGE 033 AS A RESULT OF A UST LEAK. SIX (6) MONITORING WELLS WERE INSTALLED PER THE PLAN TO MONITOR THE CONTAMINATION. UNLESS DOCUMENTATION CAN BE PROVIDED THAT INDICATES A FULL REMEDIATION OF THE SITE HAS OCCURED IN ACCORDANCE WITH AN APPROVED CORRECTIVE ACTION PLAN, AND EGLE HAS ALLOWED FOR THE MONITORING WELLS TO BE REMOVED, THE LAND USE AND RESOURCE LIMITATIONS OUTLINED IN THE RESTRICTIVE COVENANT WILL APPLY AND SHALL BE ADHERED TO DURING CONSTRUCTION. A DUE CARE PLAN MAY BE REQUIRED AT TIME OF CONSTRUCTION PLAN

Total modification request of 19 trees. 8 Shade Trees 11 Ornamental Trees (1)

Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 2:22:51 PM

Status:

Total modification request of 19 trees. 8 Shade

Trees 11 Ornamental Trees

REVIEW.

Total modification request of 19 trees. 8 Shade Trees 11 Ornamental Trees as a result of modification requests for perimeter parki

Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 2:33:11 PM

Status:

Total modification request of 19 trees. 8 Shade Trees 11 Ornamental Trees as a result of modification requests for perimeter parking lot landscape and right of way landscaping along Walton and Adams Road.

#### Tree Fund - \$1,336 based on \$334/tree (1)



Subject: Planning Department

Author: C.McLeod Date: 2/24/2025 2:31:34 PM

Status:

Tree Fund - \$1,336 based on \$334/tree

Underground storage tanks, gasoline pumps, air and water hose stands and other appurtenances shall be set back not less then 2



Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 2:18:42 PM

Status:

Underground storage tanks, gasoline pumps, air and water hose stands and other appurtenances shall be set back not less then 20 feet from the existing or proposed rights of way.

Use of non masonry products should be limited on all facades. Use of masonry products should be aligned with surrounding buildir



Subject: Planning Department

Author: C.McLeod

Date: 2/24/2025 2:25:19 PM

Status:

Use of non masonry products should be limited on all facades. Use of masonry products should be aligned with surrounding buildings and abutting RH

Village

Yes (1)



Subject: Building Department

Author: J Rhoades

Date: 2/21/2025 11:38:12 AM

Status:

Yes

(9)



Subject: Engineering Department

Author: Jason Boughton Date: 2/10/2025 2:04:48 PM

Status:



Subject: Fire Department Author: Ann Echols Date: 2/11/2025 3:22:06 PM

Status:



Subject: Natural Resouces Author: Matt Einheuser Date: 2/12/2025 2:19:40 PM



Subject: Traffic Author: Keith

Date: 2/21/2025 9:40:38 AM

Status:



Subject: Jenny McGuckin - YES

Author: Seth Bucholz Date: 2/21/2025 11:05:40 AM

Status:



**Subject:** Group **Author:** C.McLeod

Date: 2/24/2025 1:01:19 PM

Status:



Subject: Group Author: C.McLeod

Date: 2/24/2025 1:01:57 PM

Status:



**Subject:** Planning Department

Author: C.McLeod

Date: 2/24/2025 2:25:31 PM

Status:



Subject: Group Author: C.McLeod

Date: 2/24/2025 2:31:03 PM

Status: