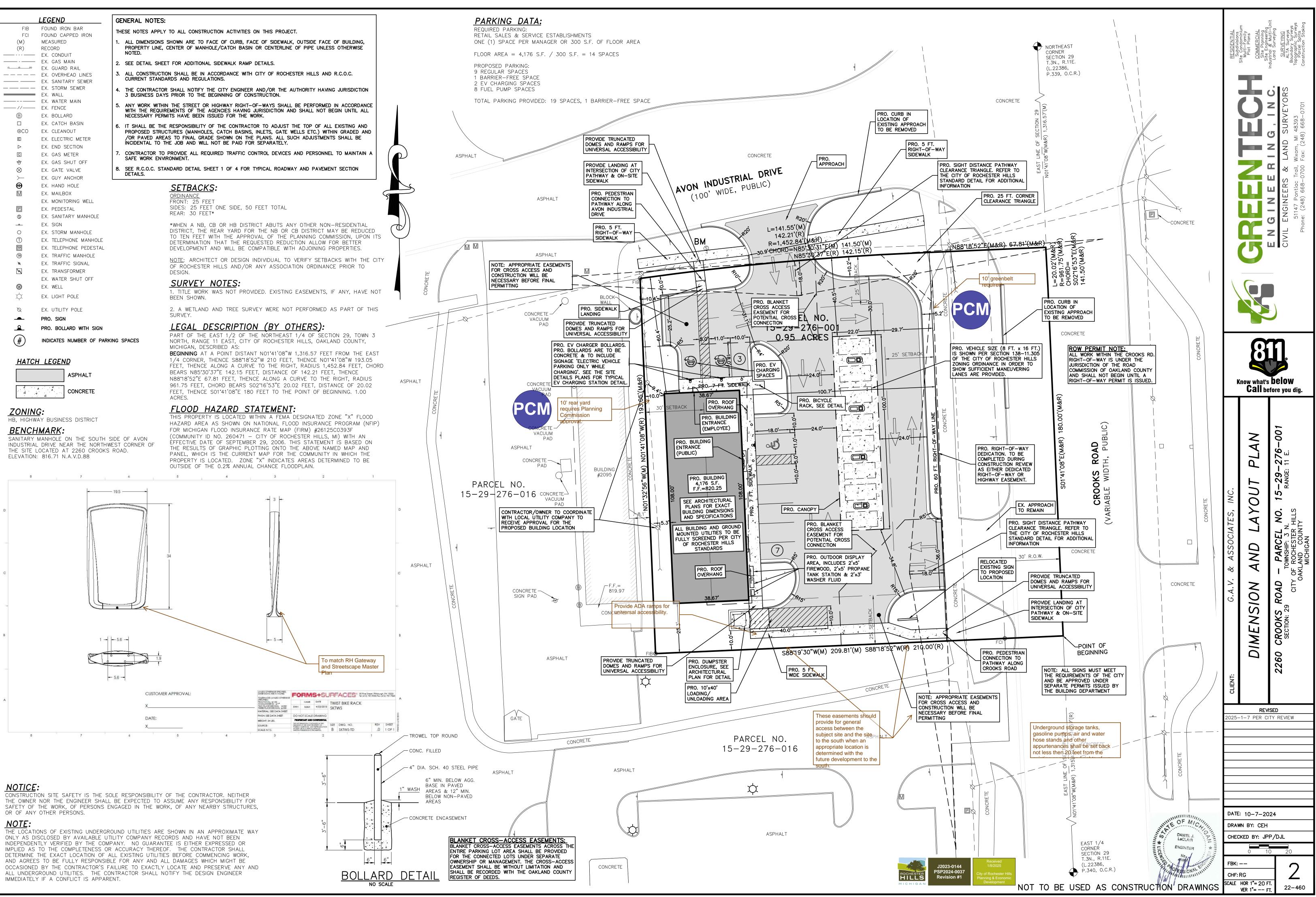
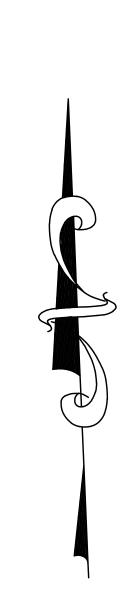


	LEGEND	GENERAL NOTES	S:
FIB	FOUND IRON BAR	THESE NOTES APPI	LY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
FCI (M) (R)	FOUND CAPPED IRON MEASURED RECORD		S SHOWN ARE TO FACE OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, E, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE
	EX. CONDUIT EX. GAS MAIN		EET FOR ADDITIONAL SIDEWALK RAMP DETAILS.
<u> </u>	EX. GUARD RAIL EX. OVERHEAD LINES EX. SANITARY SEWER	3. ALL CONSTRUC	TION SHALL BE IN ACCORDANCE WITH CITY OF ROCHESTER HILLS AND R.C.O.C. IDARDS AND REGULATIONS.
	EX. STORM SEWER EX. WALL		OR SHALL NOTIFY THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION AYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
<u></u> // B	EX. WATER MAIN EX. FENCE EX. BOLLARD	WITH THE REQU	HIN THE STREET OR HIGHWAY RIGHT-OF-WAYS SHALL BE PERFORMED IN ACCORDANCE JIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL RMITS HAVE BEEN ISSUED FOR THE WORK.
□ ⊚CO E	EX. CATCH BASIN EX. CLEANOUT EX. ELECTRIC METER	6. IT SHALL BE TI PROPOSED STR /OR PAVED AR	HE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND RUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND REAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE THE JOB AND WILL NOT BE PAID FOR SEPARATELY.
⊳ G	EX. END SECTION EX. GAS METER EX. GAS SHUT OFF	7. CONTRACTOR T SAFE WORK EN	O PROVIDE ALL REQUIRED TRAFFIC CONTROL DEVICES AND PERSONNEL TO MAINTAIN A
ở ⊗ ≻	EX. GAS SHOT OFF EX. GATE VALVE EX. GUY ANCHOR	8. SEE R.C.O.C. S DETAILS.	TANDARD DETAIL SHEET 1 OF 4 FOR TYPICAL ROADWAY AND PAVEMENT SECTION
€	EX. HAND HOLE		SETBACKS:
N	EX. MAILBOX EX. MONITORING WELL		ORDINANCE
e S	EX. PEDESTAL EX. SANITARY MANHOLE		FRONT: 25 FEET SIDES: 25 FEET ONE SIDE, 50 FEET TOTAL REAR: 30 FEET*
<u> </u>	EX. SIGN		*WHEN A NB, CB OR HB DISTRICT ABUTS ANY OTHER NON-RESIDENTIAL
C D	EX. STORM MANHOLE EX. TELEPHONE MANHOLE		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
P R	EX. TELEPHONE PEDESTAL		DEVELOPMENT AND WILL BE COMPATIBLE WITH ADJOINING PROPERTIES.
R R R	EX. TRAFFIC MANHOLE EX. TRAFFIC SIGNAL EX. TRANSFORMER		NOTE: ARCHITECT OR DESIGN INDIVIDUAL TO VERIFY SETBACKS WITH THE CITY OF ROCHESTER HILLS AND/OR ANY ASSOCIATION ORDINANCE PRIOR TO DESIGN.
~	EX. WATER SHUT OFF		SURVEY NOTES:
\rightarrow	EX. WELL EX. LIGHT POLE		1. TITLE WORK WAS NOT PROVIDED. EXISTING EASEMENTS, IF ANY, HAVE NOT BEEN SHOWN.
R	EX. UTILITY POLE		2. A WETLAND AND TREE SURVEY WERE NOT PERFORMED AS PART OF THIS SURVEY.
	PRO. SIGN		
₽ #	PRO. BOLLARD WITH SIGN	KING SPACES	LEGAL DESCRIPTION (BY OTHERS): PART OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 29, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, DESCRIBED AS:
HATCH	H LEGEND		BEGINNING AT A POINT DISTANT N01°41'08"W 1,316.57 FEET FROM THE EAST 1/4 CORNER, THENCE S88°18'52"W 210 FEET, THENCE N01°41'08"W 193.05 FEET, THENCE ALONG A CURVE TO THE RIGHT, RADIUS 1,452.84 FEET, CHORD
	ASPHALT		BEARS N85°30'37"E 142.15 FEET, DISTANCE OF 142.21 FEET, THENCE N88°18'52"E 67.81 FEET, THENCE ALONG A CURVE TO THE RIGHT, RADIUS
4			961.75 FEET, CHORD BEARS S02°16'53"E 20.02 FEET, DISTANCE OF 20.02 FEET, THENCE S01°41'08"E 180 FEET TO THE POINT OF BEGINNING. 1.00 ACRES.
ITARY USTRIAL	G: AY BUSINESS DISTRICT IMARK: MANHOLE ON THE SOUTH DRIVE NEAR THE NORTHY LOCATED AT 2260 CROOKS 816.71 N.A.V.D.88	WEST CORNER OF	FLOOD HAZARD STATEMENT: 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) #26125C0393F (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





	LEGEND
ØFIB	FOUND IRON BAR
ØFCI	FOUND CAPPED IRON
(M)	MEASURED
(R)	RECORD
	EX. CONDUIT
0 0	EX. GAS MAIN EX. GUARD RAIL
	EX. OVERHEAD LINES
	EX. SANITARY SEWER
	EX. STORM SEWER
	EX. WALL
	EX. WATER MAIN
//	EX. FENCE
B	EX. BOLLARD
	EX. CATCH BASIN
00©	EX. CLEANOUT
Ε	EX. ELECTRIC METER
\triangleright	EX. END SECTION
G	EX. GAS METER
쓩	EX. GAS SHUT OFF
\otimes	EX. GATE VALVE
\succ	EX. GUY ANCHOR
ΗĐ	EX. HAND HOLE
M	EX. MAILBOX
Š	EX. MONITORING WELL
P	EX. PEDESTAL
S	EX. SANITARY MANHOLE
	EX. SIGN
0	EX. STORM MANHOLE
\bigcirc	EX. TELEPHONE MANHOLE
	EX. TELEPHONE PEDESTAL
R	EX. TRAFFIC MANHOLE
کر ا	EX. TRAFFIC SIGNAL
	EX. TRANSFORMER
₩ *	EX. WATER SHUT OFF
0 (W)	EX. WELL
¢	EX. LIGHT POLE
Ø	EX. UTILITY POLE

SOILS MAP:



SOILS LEGEND:

Oakland County, Michigan (MI125) Oakland County, Michigan (MI125)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
50B	<u>Udipsamments,</u> <u>undulating</u>	0.6	100.0%
Totals f	or Area of t	0.6	100.0%

ZONING: HB, HIGHWAY BUSINESS DISTRICT

SETBACKS:

<u>ORDINANCE</u> FRONT: 25 FEET

SIDES: 25 FEET ONE SIDE, 50 FEET TOTAL REAR: 30 FEET*

*WHEN A NB, CB OR HB 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 PRIOR TO DESIGN.

BENCHMARK:

SANITARY MANHOLE ON THE SOUTH SIDE OF AVON INDUSTRIAL DRIVE NEAR THE NORTHWEST CORNER OF THE SITE LOCATED AT 2260 CROOKS ROAD. ELEVATION: 816.71 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 EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 29, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, DESCRIBED AS: **BEGINNING** AT A POINT DISTANT NO1°41'08"W 1,316.57 FEET FROM THE EAST 1/4 CORNER, THENCE S88°18'52"W 210 FEET, THENCE NO1°41'08"W 193.05 FEET, THENCE ALONG A CURVE TO THE RIGHT, RADIUS 1,452.84 FEET, CHORD BEARS N85°30'37"E 142.15 FEET, DISTANCE OF 142.21 FEET, THENCE N88°18'52"E 67.81 FEET, THENCE ALONG A CURVE TO THE RIGHT, RADIUS 961.75 FEET, CHORD BEARS S02°16'53"E 20.02 FEET, DISTANCE OF 20.02 FEET, THENCE S01°41'08"E 180 FEET TO THE POINT OF BEGINNING. 1.00 ACRES.

FLOOD HAZARD STATEMENT:

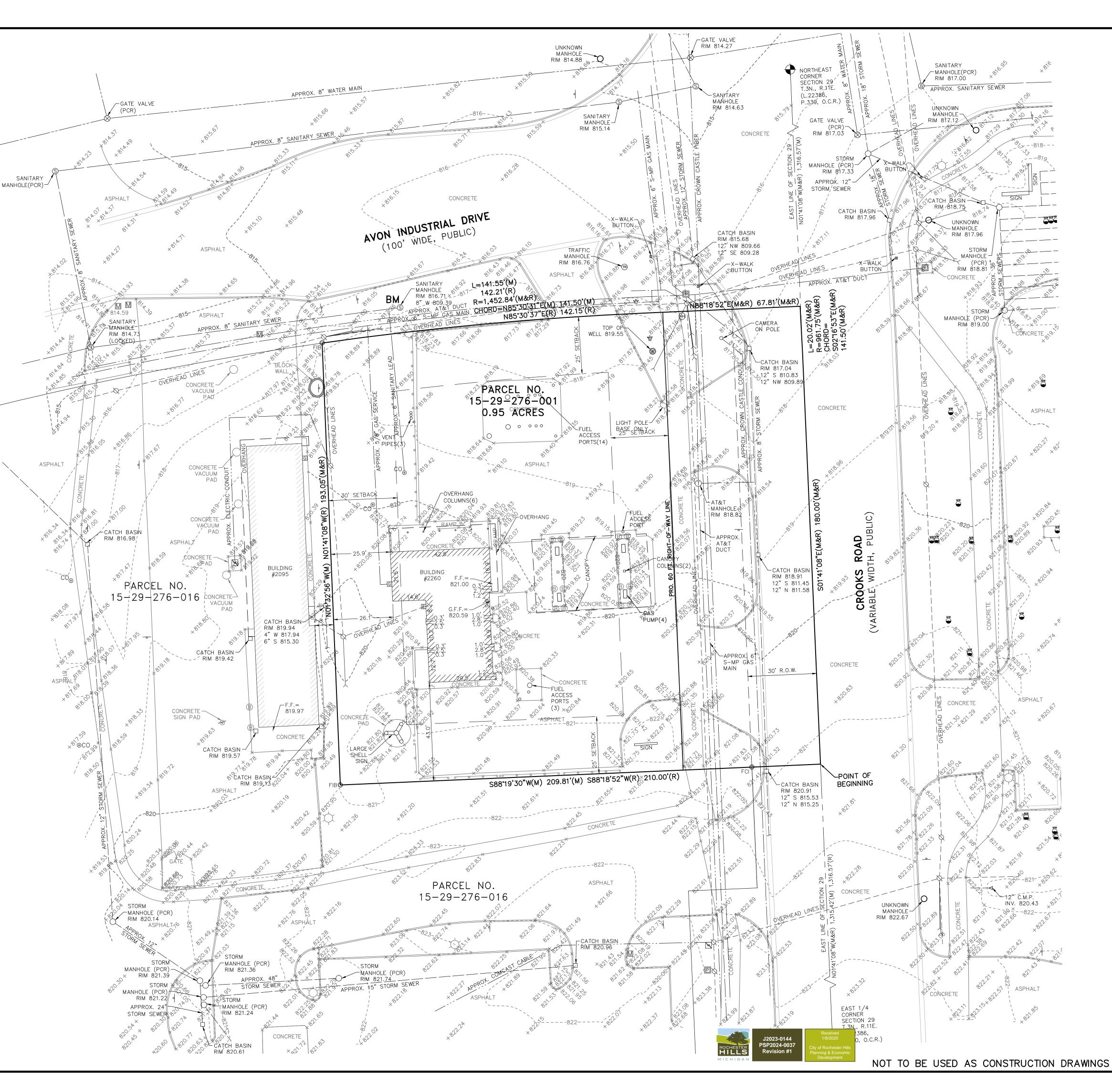
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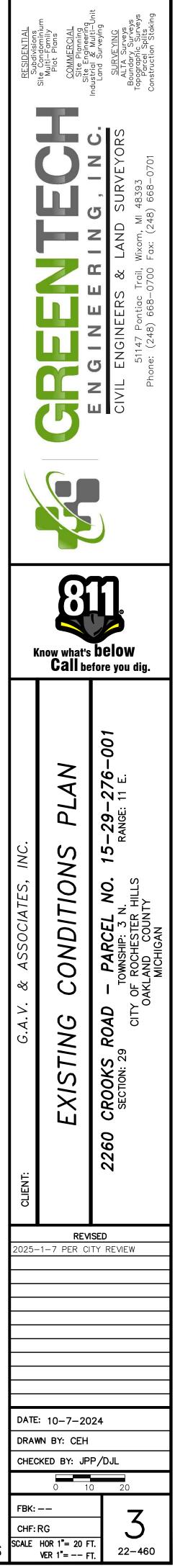
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<u>NOTE:</u>

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





ØFIB	LEGEND FOUND IRON BAR
ØFCI	FOUND CAPPED IRON
(M)	MEASURED
(R)	RECORD
	EX. CONDUIT
	EX. GAS MAIN
00	
	EX. OVERHEAD LINES
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	EX. STORM SEWER EX. WALL
	EX. WALL EX. WATER MAIN
//	
B	EX. BOLLARD
	EX. CATCH BASIN
⊔ ⊚CO	
E	EX. ELECTRIC METER
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Ø	EX. TRAFFIC SIGNAL
\searrow	EX. TRANSFORMER
***	EX. WATER SHUT OFF
W	EX. WELL
¢.	EX. LIGHT POLE
Ø	EX. UTILITY POLE

DEMOLITION LEGEND:	
ITEM TO BE REMOVED	×
CURB TO BE REMOVED	
PAVEMENT TO BE REMOVED	
BUILDING/STRUCTURE REMOVAL	
UTILITY REMOVAL	/// /// //;

ZONING:

HB, HIGHWAY BUSINESS DISTRICT

<u>SETBACKS</u>:

ORDINANCE FRONT: 25 FEET SIDES: 25 FEET ONE SIDE, 50 FEET TOTAL REAR: 30 FEET*

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REGULATIONS. CONSTRUCTION. AS REQUIRED. ASPHALT MM SPHALT SANITARY -MANHOLF RIM 814.7 CONCRETE VACUUM PAC

HALT CONCRETE -VACUUM PAD CONCRETE -VACUUM PAD CATCH BASIN RIM 816.98/ ASPHALT CONCRETE -6 PAF PARCEL NO. 15-29-276-016 CONCRETE-/ACUUM PAE CATCH BASIN- RIM 819.42
 CONCRETE SIGN PAD °`⊚C0_o CATCH BASIN -RIM 819.57 ASPHAL1

STORM

RIM 820.14

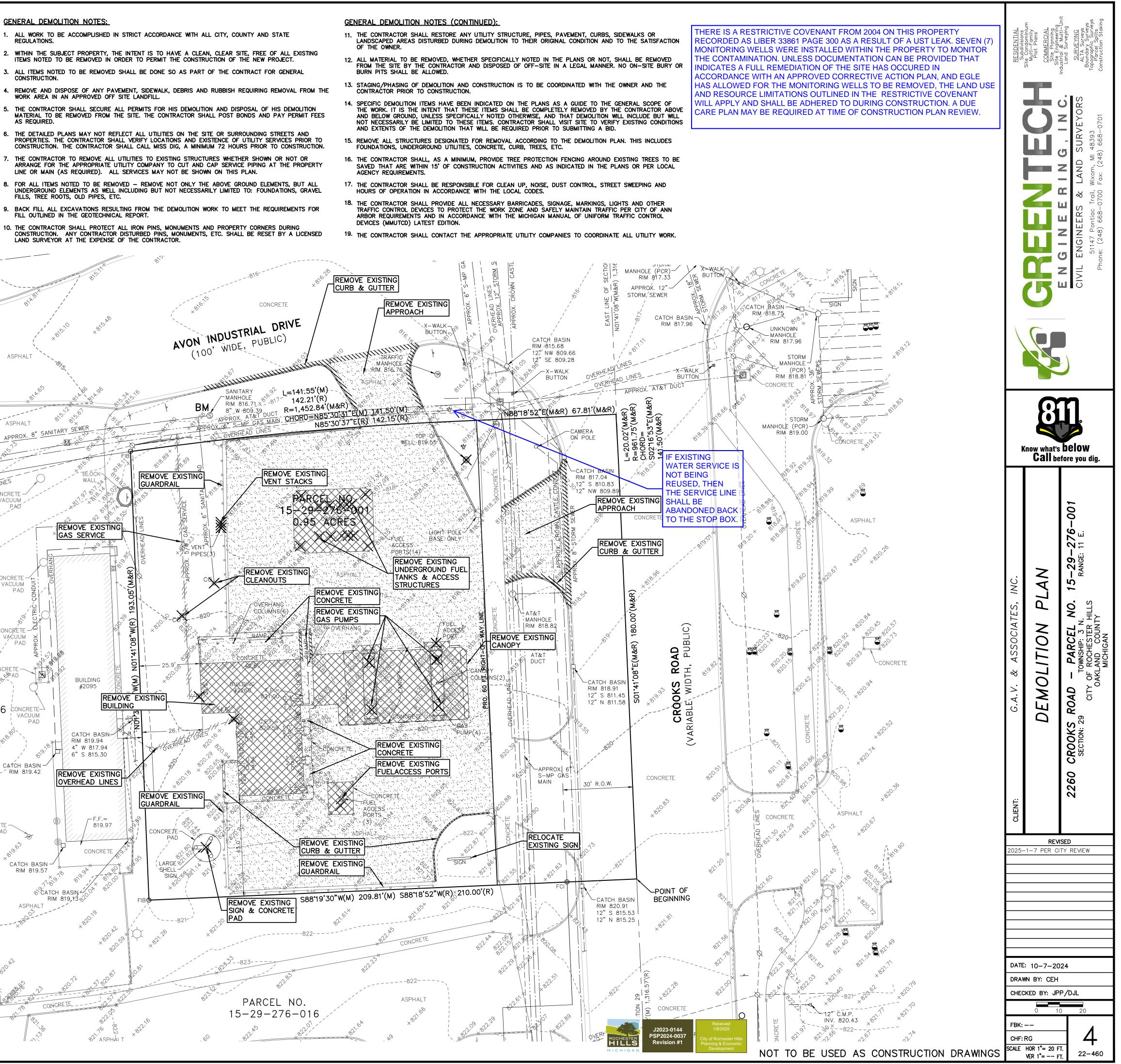
-MANHOLE (PCR)

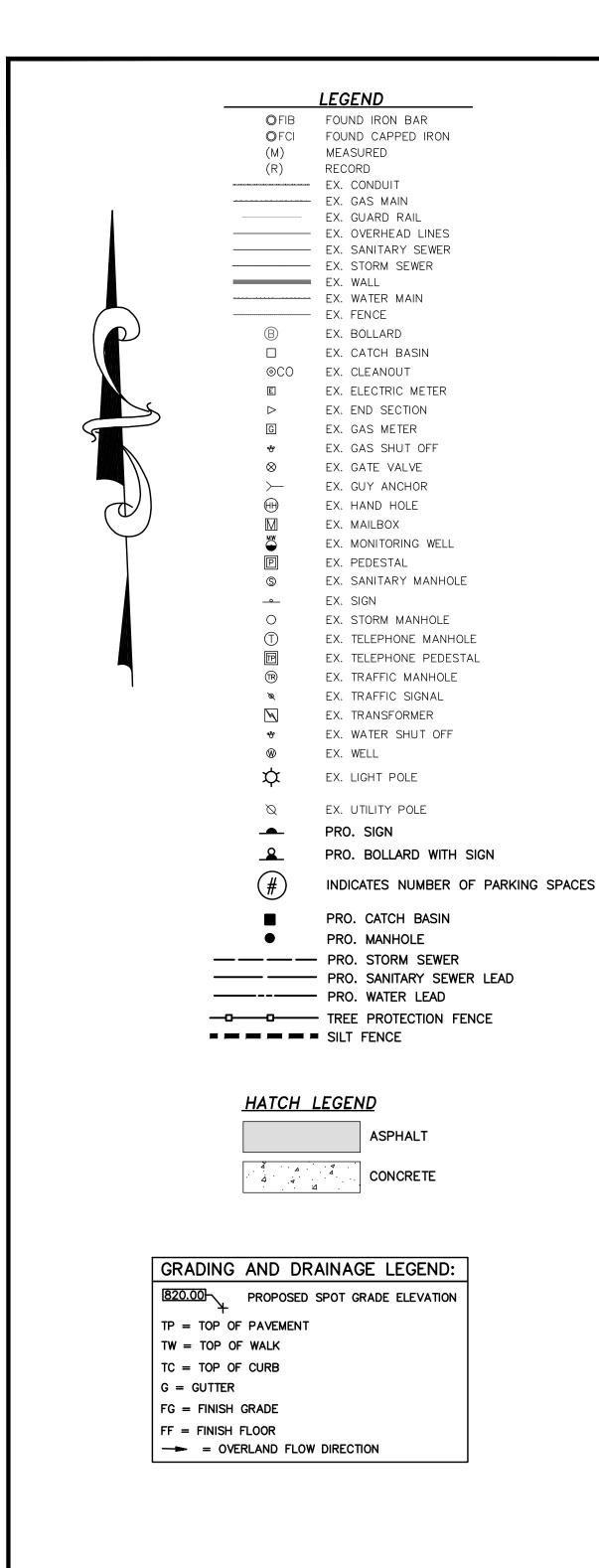
ITEMS NOTED TO BE REMOVED IN ORDER TO PERMIT THE CONSTRUCTION OF THE NEW PROJECT.

WORK AREA IN AN APPROVED OFF SITE LANDFILL.

5. THE CONTRACTOR SHALL SECURE ALL PERMITS FOR HIS DEMOLITION AND DISPOSAL OF HIS DEMOLITION

- OF THE OWNER.
- BURN PITS SHALL BE ALLOWED.
- AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
- FOUNDATIONS, UNDERGROUND UTILITIES, CONCRETE, CURB, TREES, ETC.
- AGENCY REQUIREMENTS.
- DEVICES (MMUTCD) LATEST EDITION.





BENCHMARK:

SANITARY MANHOLE ON THE SOUTH SIDE OF AVON INDUSTRIAL DRIVE NEAR THE NORTHWEST CORNER OF THE SITE LOCATED AT 2260 CROOKS ROAD. ELEVATION: 816.71 N.A.V.D.88

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.

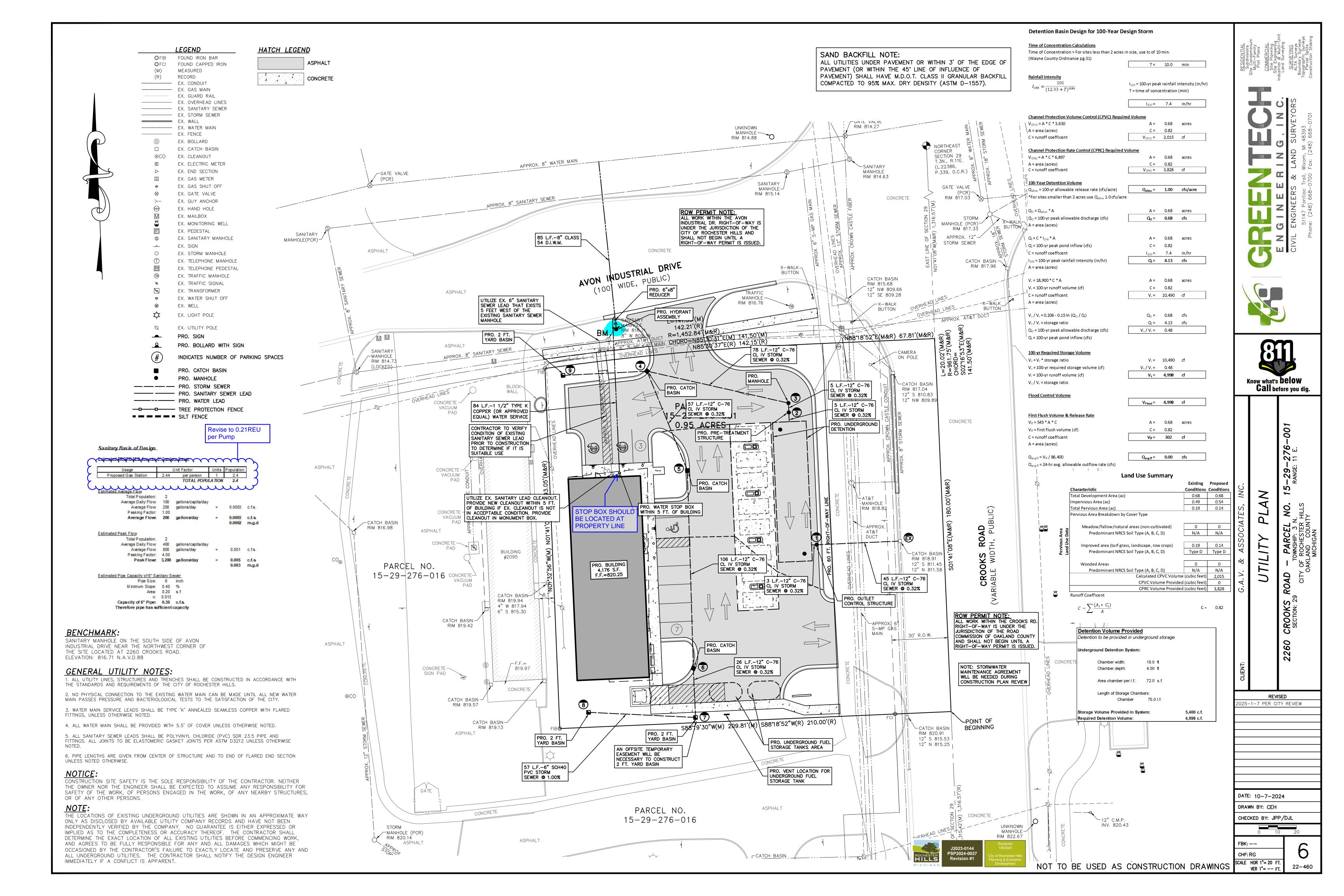
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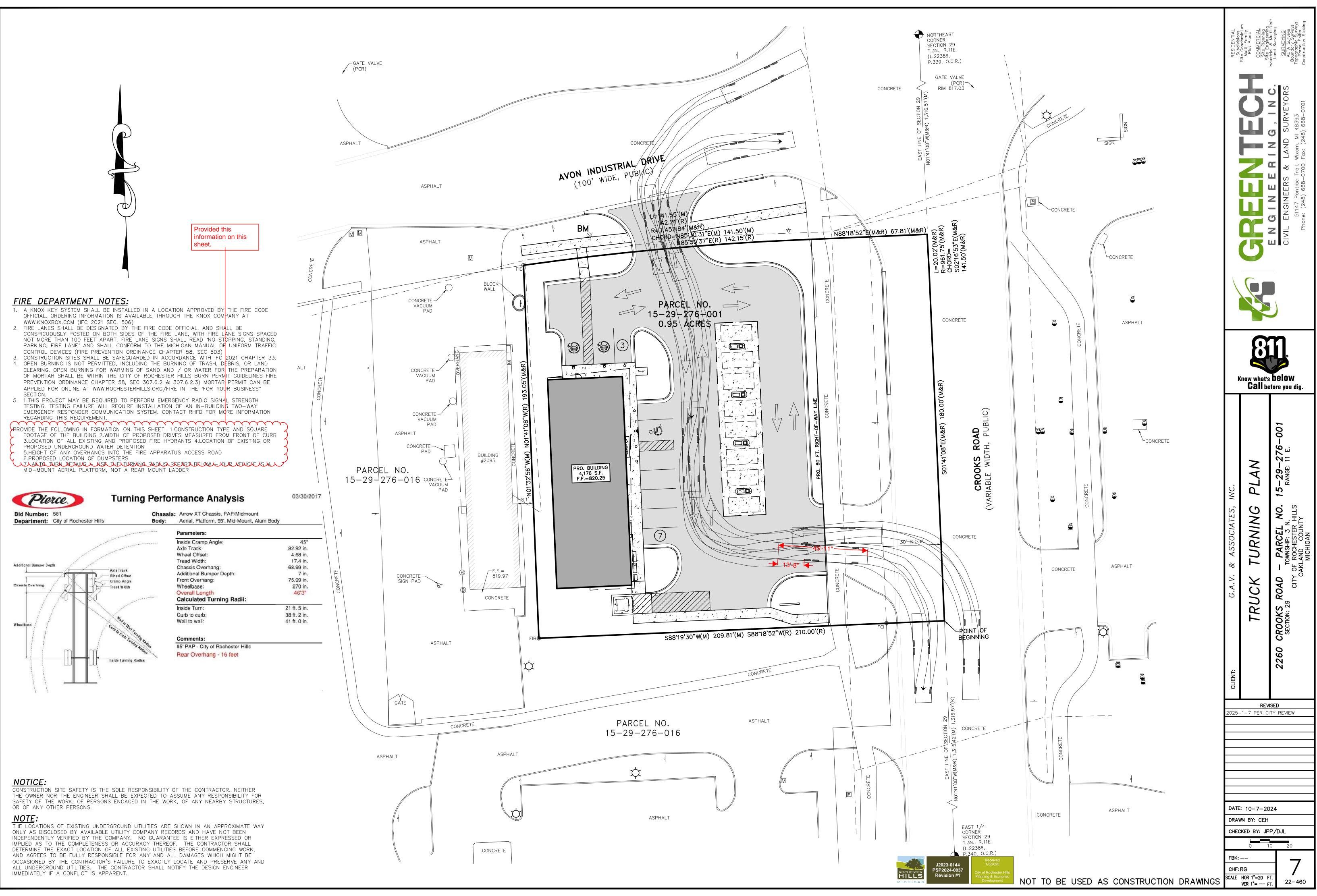
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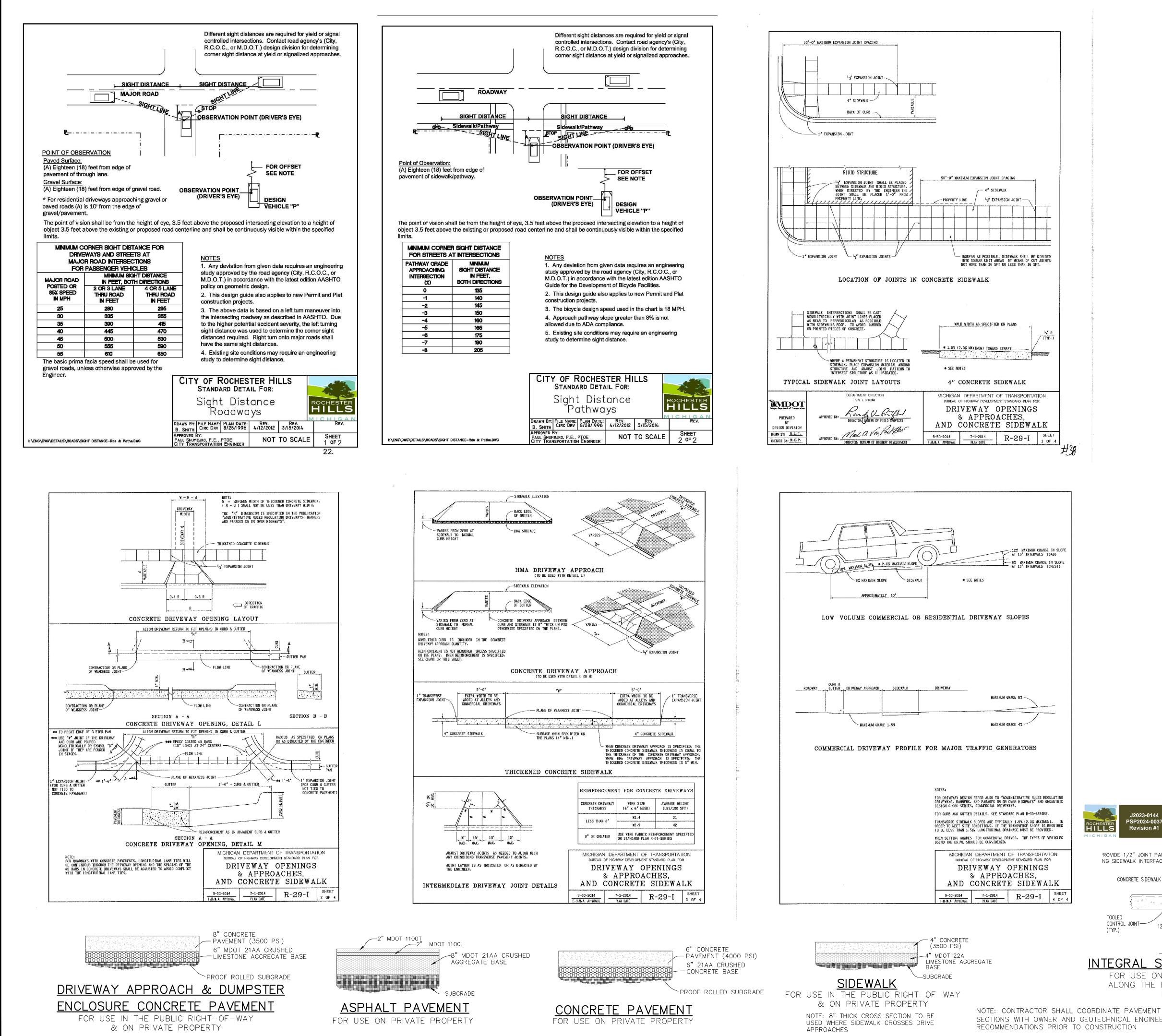
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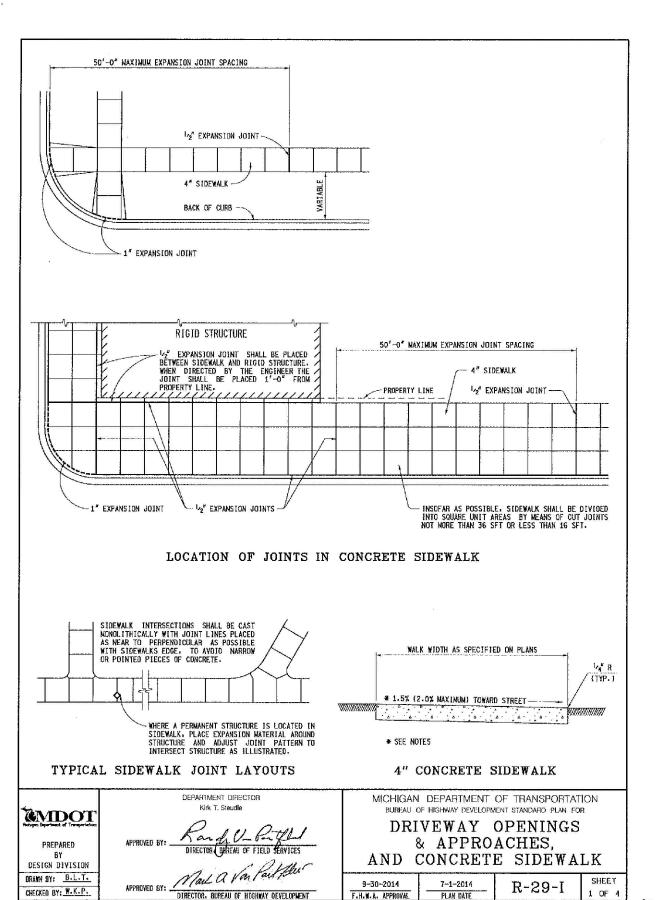


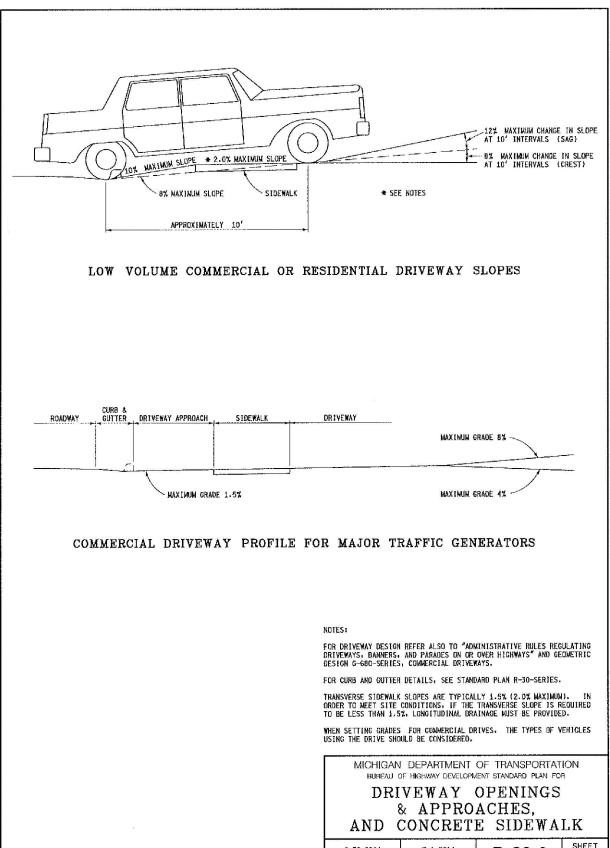


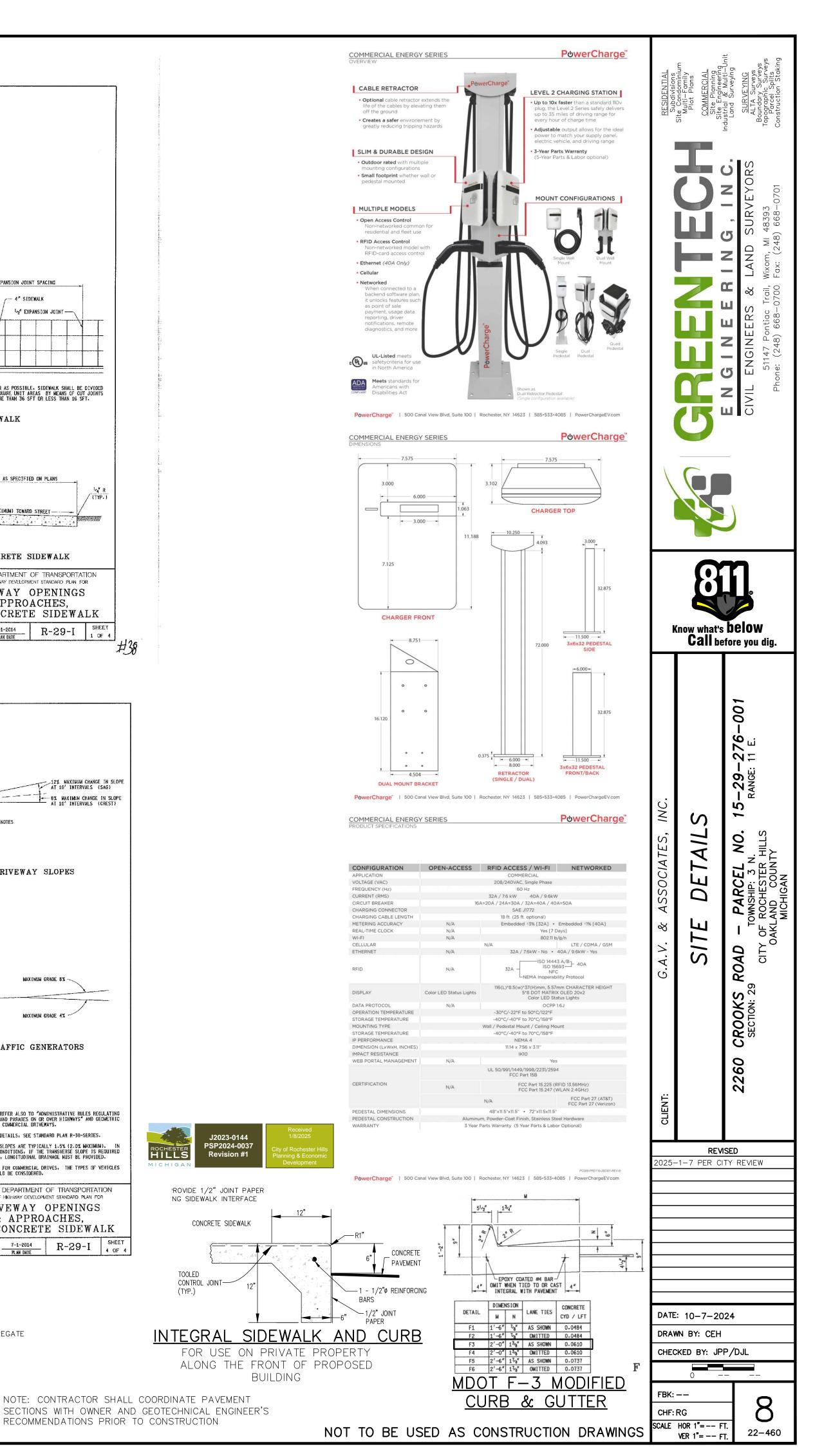


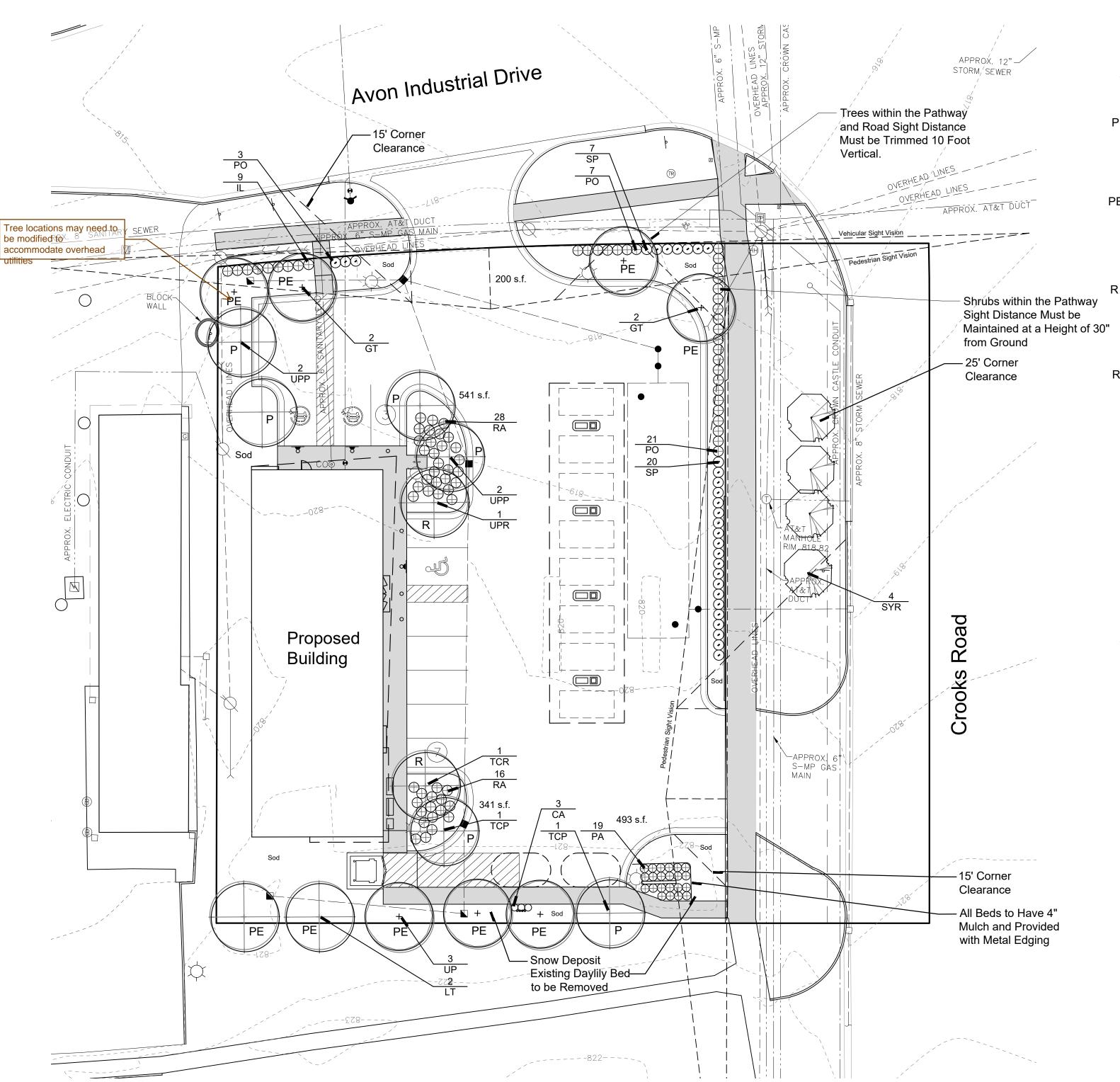


Сіту	CITY OF ROCHESTER HILLS STANDARD DETAIL FOR:							
	Sight Pa	ROCHESTER HILLS						
DRAWN BY: B. Smith	FILE NAME: CIRC DRV	REV. 3/15/2014	REV.					
APPROVED I PAUL SHUM CITY TRAN	BY: IEJKO, P.E., ISPORTATION	PTOE N ENGINEER	ΝΟΤ	TO SCALE	SHEET 2 OF 2			









Landscape Summary Parking Lot Landscaping Vehicular Use Area 16,973 s.f. Landscape Area Required 867 s.f. (16,973 x 5%) P Landscape Area Provided 1,575 s.f.* 5.8 Trees (867 / 150) Trees Required Trees Provided 6 Trees Perimeter Plantings Perimeter 231 l.f. 9.2 Trees (231 / 25) Trees Required PE Trees Provided 9 Trees - Clear Zone Conflicts Ornamental Trees Required 6.6 Trees (231 / 35) Ornamental Trees Provided 0 Trees - Clear Zone Conflicts Right of Way Plantings ** Avon Industrial Drive Frontage 150 l.f. 4.3 Trees (150 / 35) <mark>2 Trees - Clear Vision Conflicts</mark> R Trees Required Trees Provided Ornamental Trees Required 2.5 Trees (150 / 60) Ornamental Trees Provided 0 Trees - Clear Vision Conflicts Crooks Frontage 200 l.f. 5.7 Trees (200 / 35) R Trees Required Trees Provided 0 Trees - Overhead Lines Ornamental Trees Required 3.3 Trees (200 / 60) Ornamental Trees Provided 4 Trees

* 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

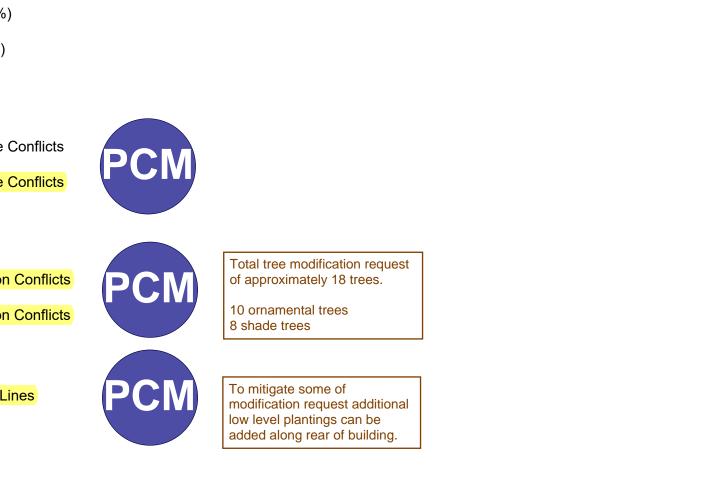
the Utility Easements.

Overhead Line Statement: Overhead Lines Exist Along Crooks

Plant List

sym.	qty.	botanical name	common name	caliper	spacing	root	height	price	total
Parkin	g Lot I	sland Trees							
TCP	2	Tilia tomentosa	Silver Linden	3.0"	as shown	B&B		\$ 425.00	\$ 850.00
UPP	4	Ulmus 'Princeton'	Princeton Elm	3.0"	as shown	B&B		\$ 425.00	\$ 1,700.00
	6	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
LT	2	Litiodendron tulipifera	Tulip Tree	3.0"	as shown	B&B		\$ 425.00	\$ 850.00
UP	3	Ulmus 'Princeton'	Princeton Elm	3.0"	as shown	B&B		\$ 425.00	\$ 1,275.00
	9	Trees Provided							
	0	Ornamental Trees Provided							
Right o	of Way	Trees							
SYR	4	Syringa reticulata 'Ivory Silk	Ivory Silk Lilac Tree	2.0"	as shown	B&B		\$ 200.00	\$ 800.00
TCR	1	Tilia tomentosa	Silver Linden	3.0"	as shown	B&B		\$ 425.00	\$ 425.00
UPR	1	Ulmus 'Princeton'	Princeton Elm	3.0"	as shown	B&B		\$ 425.00	\$ 425.00
	2	Trees Provided							
	4	Ornamental Trees Provided							
Genera	al Plan	tings							
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	9	llex glabra 'Nordic'	Nordic Inkberry		as shown	cont.	30"	\$ 50.00	\$ 450.00
PA	19	Pennisetum 'Hameln'	Drawrf Fountain Grass		as shown	cont.	#2	\$ 15.00	\$ 285.00
PO	31	Physcocarpus 'Little Devil'	Little Devil Ninebark		as shown	cont.	30"	\$ 50.00	\$ 1,550.00
RA	44	Rhus aromatica Gro-low	Low Grow Sumac		as shown	cont.	30"	\$ 50.00	\$ 2,200.00
SP	27	Spirea j. 'Little Princess'	Little Princess Spirea		as shown	cont.	30"-36"	\$ 50.00	\$ 1,350.00
	430	Kentucky Blue Grass, (S.Y.)						\$ 4.00	\$ 1,720.00
		Irrigation System							\$ 15,000.00
							Total		\$ 30,625.00

DESIGN LAND PLANNING / LANDSCAPE ARCHITECTURE 557 Carpenter Northville, Michigan 48167 e. jca@wideopenwest.com t. 248.467.4668



Are other trees not being provided as noted above also intended to be paid into tree fund.

Title: Landscape Plan

Project:

Seal:

2260 Crooks Rochester Hills, Michigan

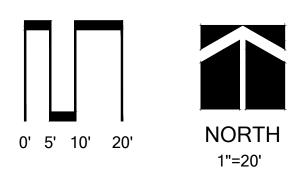
Prepared for:

Greentech Engineering 51147 W. Pontiac Trail Wixom, Michigan 48393

Revision:	Issued:
Review	October 1, 2024
Revised	December 20, 2024

Job Number: 24-064





City File #23-0144 Section 29



Sheet No.

L-1



NOTE: GUY DECIDUOUS TREES ABOVE 3"CAL.. STAKE DECIDUOUS TREES BELOW 3" CAL.

STAKE TREES AT FIRST BRANCH USING 2"-3" WIDE BELT-LIKE NYLON OR PLASTIC STRAPS. ALLOW FOR SOME MINIMAL FLEXING OF THE TREE. REMOVE AFTER ONE YEAR.

2" X 2" HARDWOOD STAKES, MIN. 36" ABOVE GROUND FOR UPRIGHT, 18" IF ANGLED. DRIVE STAKES A MIN. 18" INTO UNDISTURBED GROUND OUTSIDE ROOTBALL. REMOVE AFTER ONE YEAR.

MULCH 4" DEPTH WITH SHREDDED HARDWOOD BARK. NATURAL IN COLOR. LEAVE 3" CIRCLE OF BARE SOIL AT BASE OF TREE TRUNK. PULL ANY ROOT BALL DIRT EXTENDING ABOVE THE ROOT FLARE AWAY FROM THE TRUNK SO THE ROOT FLARE IS EXPOSED TO AIR.

MOUND EARTH TO FORM SAUCER -REMOVE ALL

NON-BIODEGRADABLE MATERIALS COMPLETELY FROM THE ROOTBALL. CUT DOWN WIRE BASKET AND FOLD DOWN BURLAP FROM TOP 1/2 OF THE ROOTBALL

4" TREE PIT = 3 x ROOTBALL WIDTH

NOTE:

TREE SHALL BEAR SAME **RELATION TO FINISH GRADE AS** IT BORE ORIGINALLY OR SLIGHTLY HIGHER THAN FINISH GRADE UP TO 6" ABOVE GRADE, IF DIRECTED BY LANDSCAPE ARCHITECT FOR HEAVY CLAY SOIL AREAS.

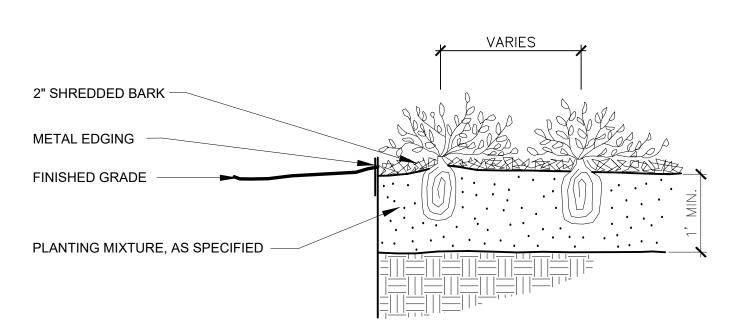
DO NOT PRUNE TERMINAL LEADER. PRUNE ONLY DEAD OR BROKEN BRANCHES.

REMOVE ALL TAGS, STRING, PLASTICS AND OTHER MATERIALS THAT ARE UNSIGHTLY OR COULD CAUSE GIRDLING.

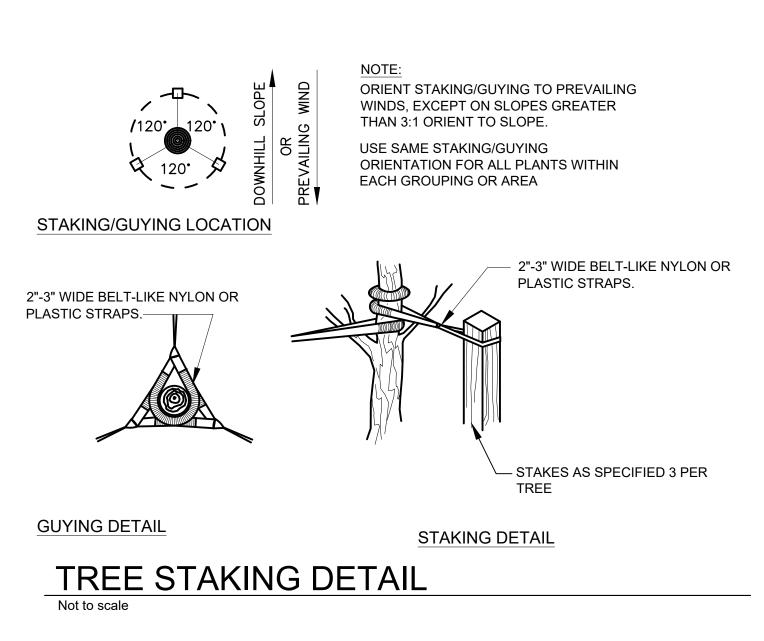
> PLANTING MIXTURE: AMEND SOILS PER SITE CONDITIONS AND REQUIREMENTS OF THE PLANT MATERIAL.

SCARIFY SUBGRADE AND PLANTING PIT SIDES. RECOMPACT BASE OF TO 4" DEPTH.

DECIDUOUS TREE PLANTING DETAIL



PERENNIAL PLANTING DETAIL Not to scale



NOTE:

GUY EVERGREEN TREES ABOVE 12' HEIGHT. STAKE EVERGREEN TREE BELOW 12' HEIGHT.

STAKE TREES AT FIRST BRANCH USING 2"-3" WIDE BELT-LIKE NYLON OR PLASTIC STRAPS. ALLOW FOR SOME MINIMAL FLEXING OF THE TREE. REMOVE AFTER ONE YEAR.

2" X 2" HARDWOOD STAKES, MIN. 36" ABOVE GROUND FOR UPRIGHT, 18" IF ANGLED. DRIVE STAKES A MIN. 18" INTO UNDISTURBED GROUND OUTSIDE ROOTBALL. REMOVE AFTER ONE YEAR.

MULCH 4" DEPTH WITH SHREDDED HARDWOOD BARK. NATURAL IN COLOR. LEAVE 3" CIRCLE OF BARE SOIL AT BASE OF TREE TRUNK. PULL ANY ROOT BALL DIRT EXTENDING ABOVE THE ROOT FLARE AWAY FROM THE TRUNK SO THE ROOT FLARE IS EXPOSED TO AIR. MOUND EARTH TO FORM SAUCER -

REMOVE ALL NON-BIODEGRADABLE MATERIALS COMPLETELY FROM THE ROOTBALL. CUT DOWN WIRE BASKET AND FOLD DOWN BURLAP FROM TOP 1/2 OF THE ROOTBALL

NOTE:

TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS IT BORE ORIGINALLY OR SLIGHTLY HIGHER THAN FINISH GRADE UP TO 6" ABOVE GRADE, IF DIRECTED BY LANDSCAPE ARCHITECT FOR HEAVY CLAY SOIL AREAS.

DO NOT PRUNE TERMINAL LEADER. PRUNE ONLY DEAD OR BROKEN BRANCHES.

REMOVE ALL TAGS, STRING, PLASTICS AND OTHER MATERIALS THAT ARE UNSIGHTLY OR COULD CAUSE GIRDLING.

AMEND SOILS PER

SITE CONDITIONS

OF THE PLANT

MATERIAL.

DEPTH.

AND REQUIREMENTS

SCARIFY SUBGRADE

SIDES. RECOMPACT

AND PLANTING PIT

BASE OF TO 4"

PLANTING MIXTURE:

TREE PIT = 3 x ROOTBALL WIDTH

EVERGREEN TREE PLANTING DETAIL

MULCH 3" DEPTH WITH SHREDDED HARDWOOD BARK. NATURAL IN COLOR. PULL BACK 3" FROM TRUNK.

PLANTING MIXTURE: AMEND SOILS PER 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

REMOVE ALL

NON-BIODEGRADABLE MATERIALS COMPLETELY FROM THE ROOTBALL. FOLD DOWN BURLAP FROM TOP $\frac{1}{3}$ OF THE ROOTBALL

SHRUB PLANTING DETAIL

4"-

NOT TO SCALE

LANDSCAPE NOTES

- 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 condition 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. 18. All landscape areas shall be provided with an underground automatic sprinkler system.
- 19. Sod shall be two year old "Baron/Cheriadelphi" Kentucky Blue Grass grown in a sod nursery on loam soil.

ADDITIONAL NOTES

- All Landscaped Areas Shall be Irrigated with an Automatic, Underground System.
- Islands Shall be Sod. 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.
- 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 the City's Landscape Architect requires a greater distance.
- 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 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.
- 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. 11. Irrigation Shall Only Occur Between the Hours of 12am and 5 am in Accordance with the City's
- Watering Ordinances.



NOTE: TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS IT BORE ORIGINALLY OR SLIGHTLY HIGHER THAN FINISH GRADE UP TO 4" ABOVE GRADE, IF DIRECTED BY LANDSCAPE ARCHITECT FOR HEAVY CLAY SOIL AREAS.

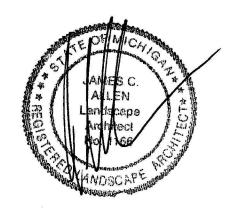
PRUNE ONLY DEAD OR BROKEN BRANCHES.

REMOVE ALL TAGS, STRING. PLASTICS AND OTHER MATERIALS THAT ARE UNSIGHTLY OR COULD CAUSE GIRDLING.

> SCARIFY SUBGRADE AND PLANTING PIT SIDES. RECOMPACT BASE OF TO 4" DEPTH.

DESIGN LAND PLANNING / LANDSCAPE ARCHITECTUR 557 Carpente Northville, Michigan 48167 e. jca@wideopenwest.com t. 248.467.4668

Seal:



Title: Landscape Plan

Project:

2260 Crooks Rochester Hills, Michigan

Prepared for:

Greentech Engineering 51147 W. Pontiac Trail Wixom, Michigan 48393

Revision: Issued: Review October 1, 2024 Revised December 20, 2024

Job Number: 24-064

Checked By: Drawn By: ica jca

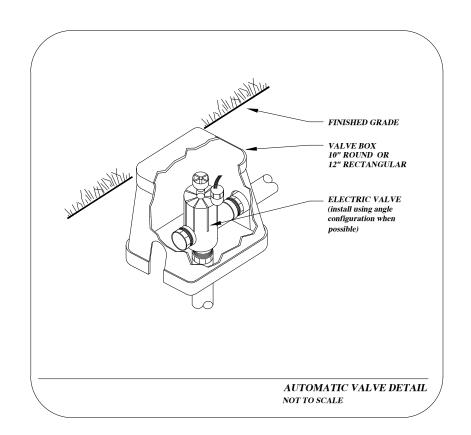
City File #23-0144 Section 29

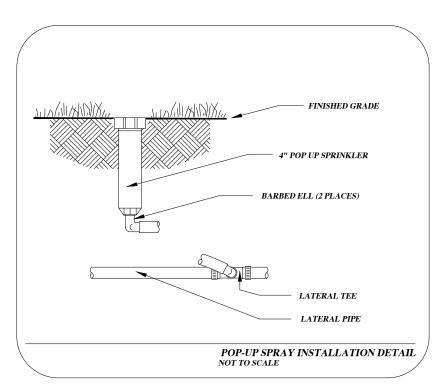


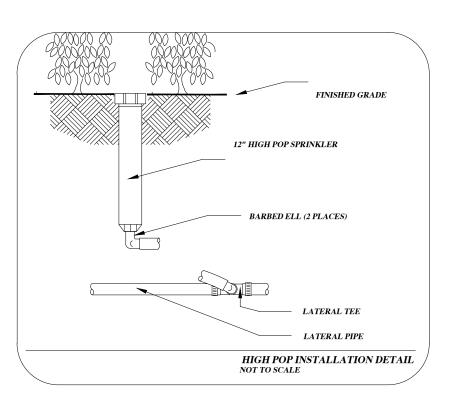
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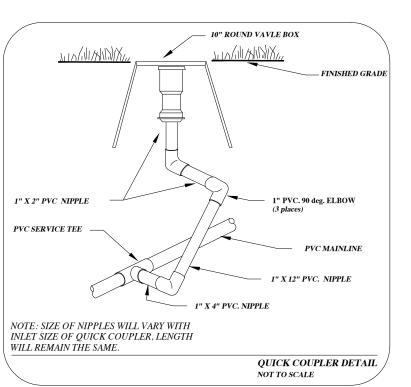
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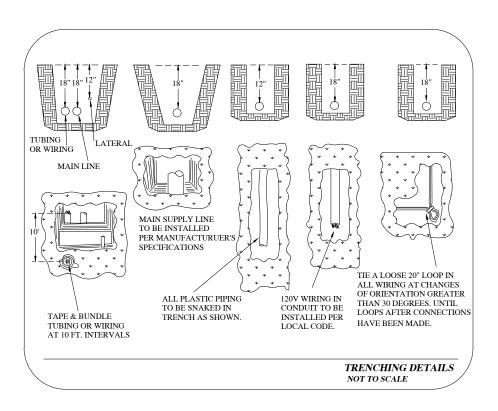


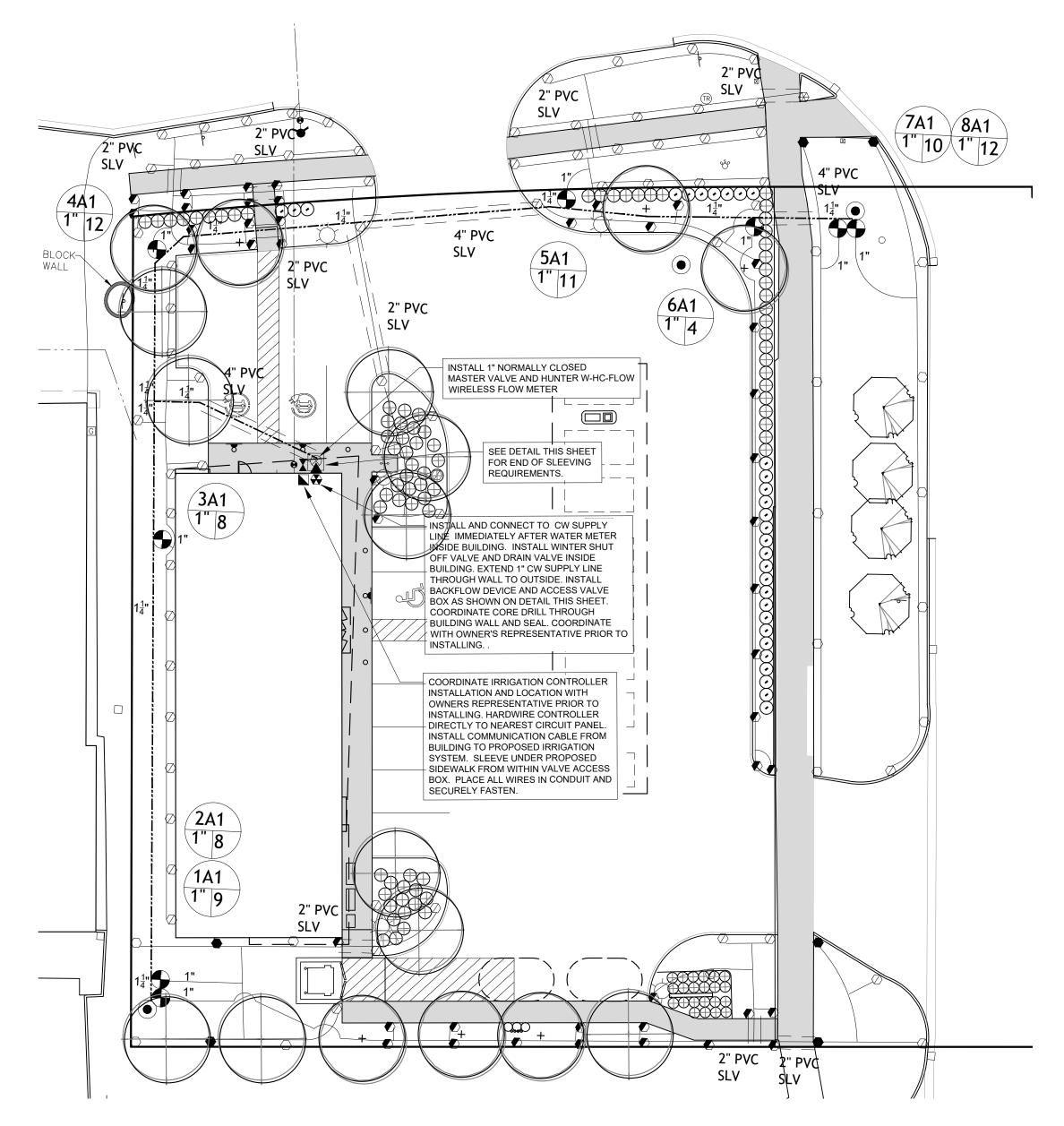


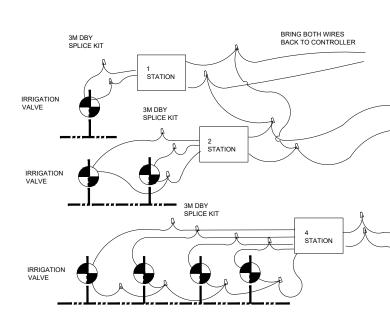




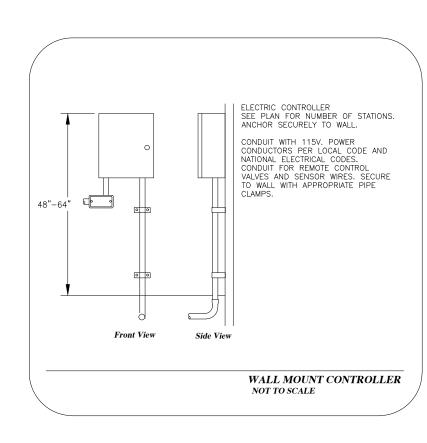


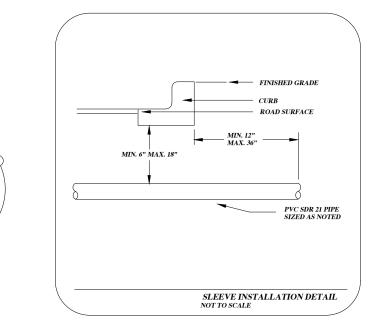


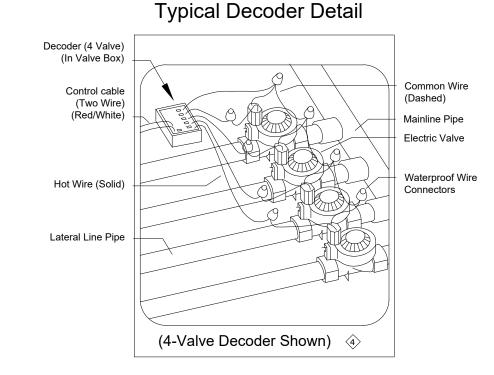


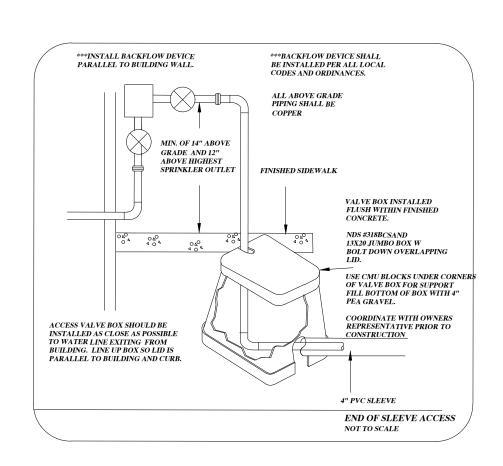


SAMPLE DECODER WIRING DIAGRAM









ELECTRIC VALVE w/ EZDS decoders • QUICK COUPLER VALVE ELECTRIC CONTROLLER HCC EZ DECODER WALL MOUNT PRESSURE VACUUM BREAKER ► RAIN SENSOR DEVICE (wireless) \checkmark Point of connection to irrigation water source PVC MAINLINE, SDR 26, BE, ------ POLYETHYLENE LATERALS, 100 PSI NSF APPROVED, Size as shown _____ PVC SLEEVING SIZE AS SHOWN WATER REQUIREMENTS: 12 GPM @ 55 PSI. Gallons Per Minute (CONTRACTOR TO VERIFY PSI PUMP AVAILABILITY ON SITE PRIOR TO SYSTEM INSTALLATION)



30-

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 FULLY IRRIGATE ALL PLANTING AREAS.

FEET.

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

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 +/- natural rainfall quantities

13. Landscape material shall receive adjusted amounts of precipitation to maintain proper plant

14. Landscape and turf grass shall be irrigated separately.

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 Hydrowise enabled systems.

IRRIGATION LEGEND:

NOTES:

approval.

installation.

for turf grass.

health.

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

ICV-AS-ADJ Series

HQ44–RC

HPC-PCDM-EZDS FEBC0 765P100 WR CLIK

Station Number

Controller and

E SIZE CHART
2 GPM = 1" DIAMETER POLYETHYLENE PIPE
24 GPM = 1 $\frac{1}{4}$ " diameter polyethylene pipe
$30 \text{ GPM} = 1 \frac{1}{2}$ diameter polyethylene pipe
60 GPM = 2" diameter polyethylene pipe

Seal:

LAND PLANNING / LANDSCAPE ARCHITECTUR

DESIGN

557 Carpenter Northville, Michigan 48167 e. jca@wideopenwest.com

t. 248.467.4668

Title: Irrigation Plan

Project:

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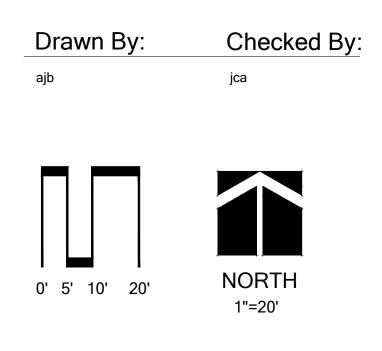
2260 Crooks Rochester Hills, Michigan

Prepared for:

Greentech Engineering 51147 W. Pontiac Trail Wixom, Michigan 48393

Revision: Issued: October 1, 2024 Review December 20, 2024 Revised

Job Number: 24-064



***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



IRRIGATION DESIGN & WATER MANAGEMENT

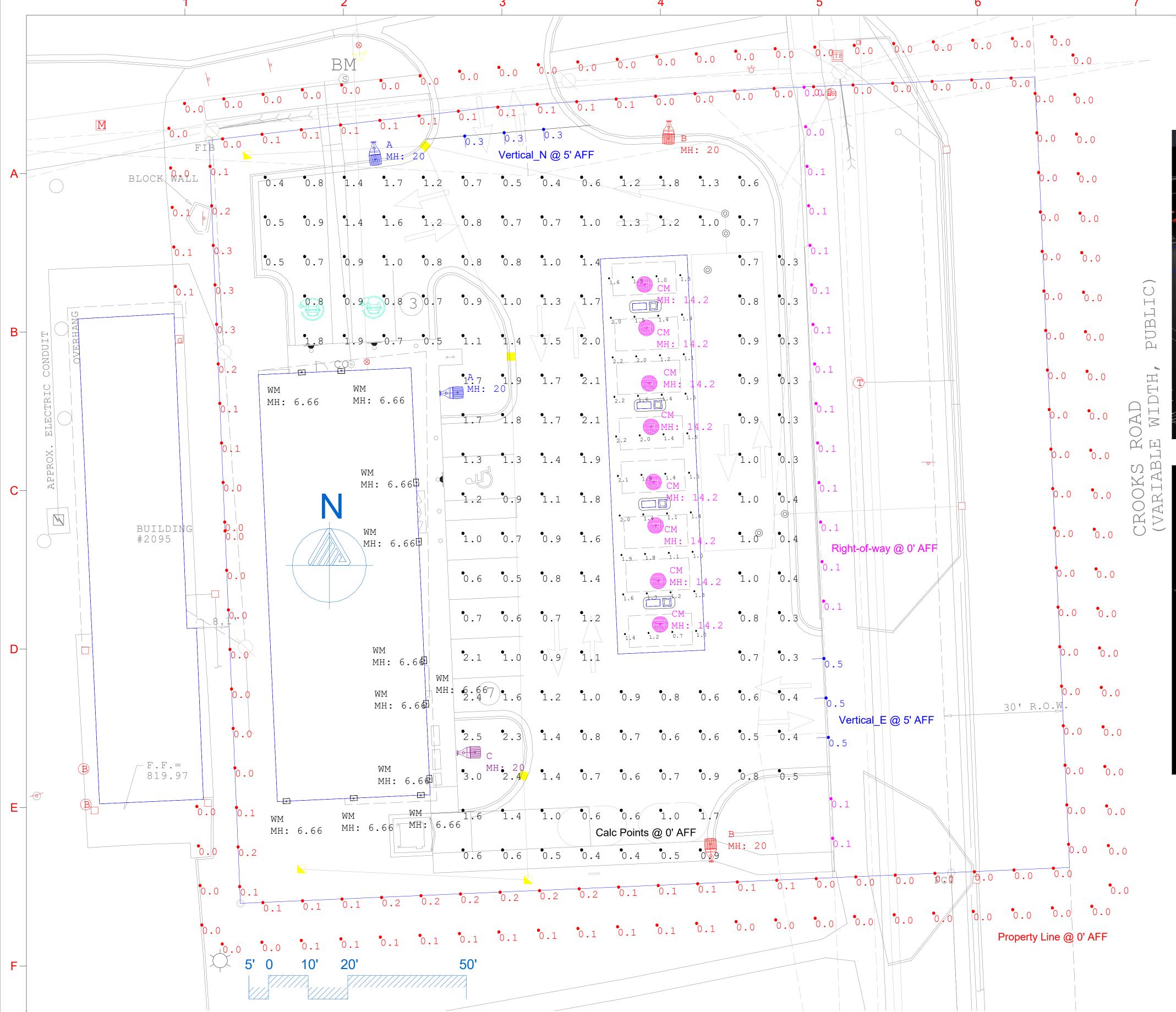
4843 Kittery NW Comstock Park, Michigan 49321 Tel. (248) 789–0330 email: abarnes@lqdassets.org www.lqdassets.org

Sheet No.

IR-1







NOTES:

LED LIGHT SOURCES SHALL HAVE A CORRELATED COLOR TEMPERATURE THAT DOES NOT EXCEED 3,000K EXTERIOR LIGHTING SHALL BE FULLY SHIELDED AND DIRECTED DOWNWARD AT A 90° ANGLE

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

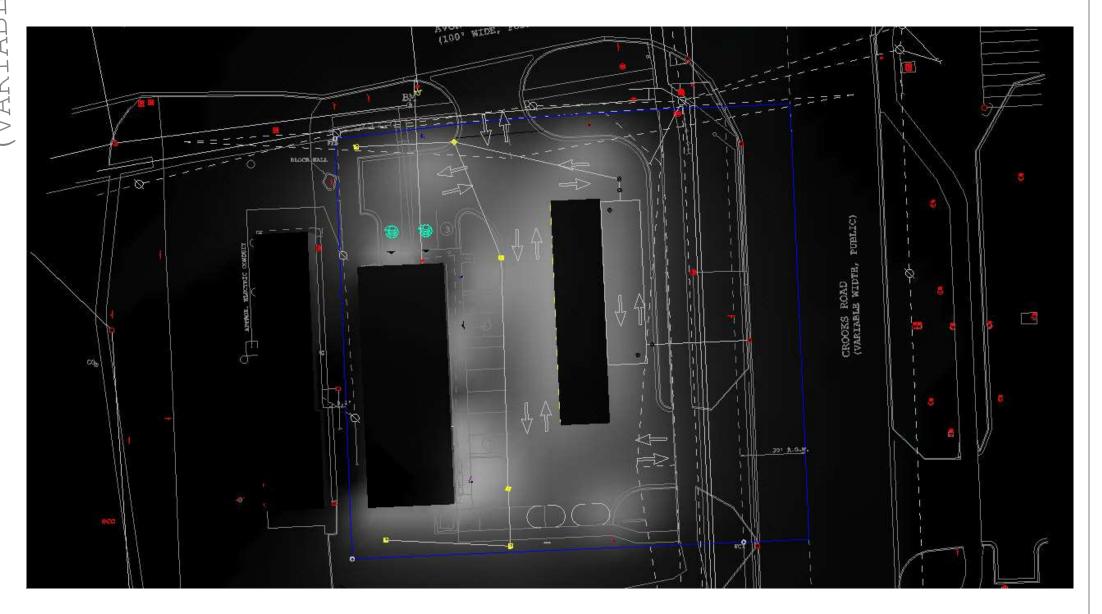
Luminair	e Sche	edule							
Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Lum. Lumens	BUG Rating	Lum. Watts	Total
									Watts
6	8	СМ	Single	0.400	VISIONAIRE PGR-1-T5-16LC-3-3K-VOLT CM @ 14' MG. HT.	2277	B1-U0-G0	18	144
	2	A	Single	0.950	VISIONAIRE VSX-II_T4L_15L_3K_VOLT_HS SINGLE @ 20' MTG. HT.	4190	B0-U3-G3	102	204
K	2	В	Single	0.950	VISIONAIRE VSX-II_T4_5L_3K_VOLT_HS_SINGLE @ 20' MTG. HT.	1704	B0-U0-G1	34	68
K	1	С	Single	0.950	VISIONAIRE VSX-II_T4_5L_3K_VOLT_CLS SINGLE @ 20' MTG. HT.	3463	B1-U2-G2	34	34
\Rightarrow	11	WM	Single	0.950	ALVA NATALIE-28 INCH-X- <mark>3K</mark> @ 6' 8 INCH MTG. HT.	1298	B0-U4-G1	22.01	242.11
\rightarrow	11	WM	Single	0.950	ALVA NATALIE-28 INCH-X <mark>-3K</mark> @ 6' 8 INCH MTG. HT.	1298	B0-U4-G1	22.01	

G-

***DISCLAIMER*

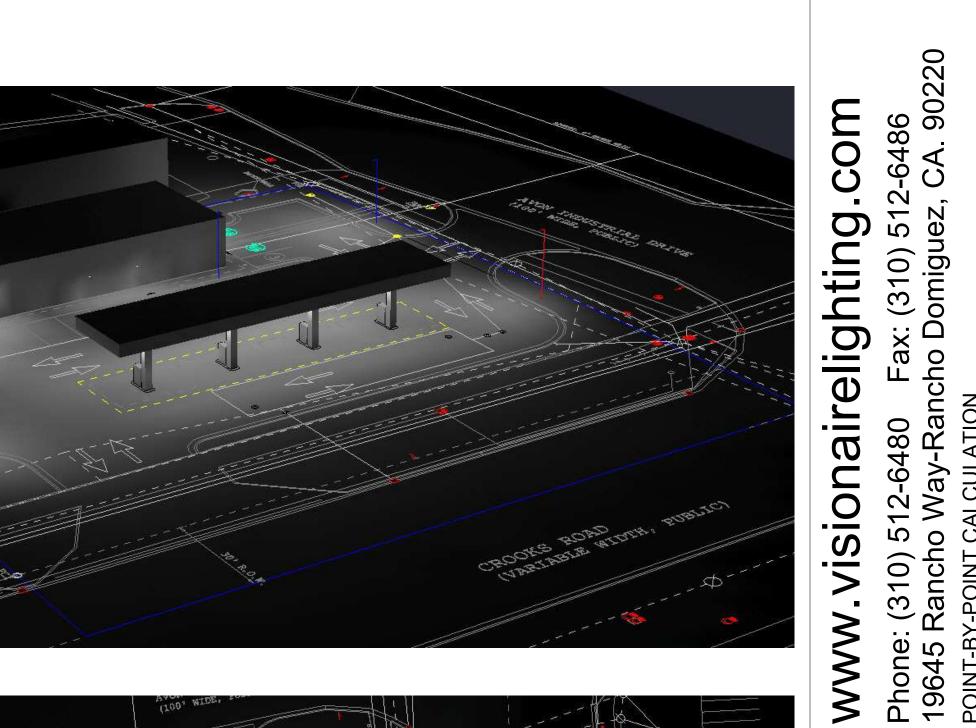
FOR INSTALLATION OF PRODUCTS OTHER THAN SPECIFIED. ALL PHOTOMETRIC LAYOUTS, SUBMITTALS, AND QUOTES BY VI

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 LILUMINATION LEVELS TAKEN FROM A LABORATORY SETTING UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING 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



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Calc Points @ 0' AFF	Illuminance	Fc	1.02	3.0	0.3	3.40	10.00
Property Line @ 0' AFF	Illuminance	Fc	0.04	0.3	0.0	N.A.	N.A.
Right-of-way @ 0' AFF	Illuminance	Fc	0.09	0.1	0.0	N.A.	N.A.
Under Canopy @ 0' AFF	Illuminance	Fc	1.51	2.2	0.7	2.16	3.14
Vertical_E @ 5' AFF	Illuminance	Fc	0.50	0.5	0.5	1.00	1.00
Vertical_N @ 5' AFF	Illuminance	Fc	0.30	0.3	0.3	1.00	1.00
DRAWING NU	JMBER : LS	6091724	CL-PR	OPOSE	D GAS	STATION	2260 CF
LAYOUT DESIGNER : IS							

LATUUT DESIC DESIGNER EM PROJECT DAT **REVISION DAT** REP : NOTE/S:



MBER :	LS091724CL-PROPOSED GAS STATIO	N 2260 CROOKS RD-04
GNER :	LS	
/IAIL :	Lsalgado@visionairelighting.com	
TE :	09/18/24	
TE :	12/18/24	
	CLARUS LIGHTING	J2023-0144 1/8/2025 PSP2024-0037
	CANOPY LIGHTS AT 100%	ROCHESTER Revision #1 MICHIGAN City of Rochester F Planning & Econor Development

S **I**RIC Σ 0 Ο Δ

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VSX-II Array LED Specifications



Project Name:

Catalog Number

The new VSX-II Army LED Series offers clean, functional styling that is dafined by its allek low profile design and sugged construction. It combines the latest LED Army technology, advanced LED thermal management and provides outdoor lighting that is both energy efficient and assiltetcelly pleasing. The LED's performance and the driver's life are maximized by enclosing them in heo separate die cast alumhum housings.

The VSX-I Anay LID fidure is offered with lumen packages langing from 5,000 - 25,000. Ten optical destitution patterns are available. Choose between 3000, 4000 or 5000 Kewn temperature of the LIDs.

A durable polyester powder cost thinh is guaranteed for five years; and is evenable in standard or custom colors.

The VSX-II Array LED series is an exceptional choice for commercial perking loss, office complexes, althitectural projects, and other general lighting projects.

Ordering Information

and the second								
Ty Ty Sh	Type 1 T2 10 Type 2 T3 16 Type 3 T3L pe 3 Long 26	DL 4K SL 4000 DL 5000	347V	AM Arm Mount SAM Encepts Arm Mount W/ Terrenal Boccs (New Conkluction) UAM Universit Arm/W/ Terrenal Boccs Mount (Renal) MAF Mest Arm Fitter Mount (Renal) MAF Mest Arm Fitter KM Youthe Mount "Requires BAMP Adjusted Pole Plate Adjusted Start Mount	BZ Bronze BK Bieck Bieck Bieck White Bieck White SWH White SWH Smooth White GP Grephile Grephile Grephile Chapter Materic Color	PCR-120 PCR-208 PCR-240 PCR-240 PCR-240 PCR-347 PCR-347 PCR-347 PCR-347 PCR-3480 Exception PER SPINPER	WBC-8 Moton Sensor 9 Mounting Heaget WSC-20 Moton Sensor 9-30 Mounting Heaget WSC-40 Moton Sensor 21-40 Mounting Heaget "The WSC 10 Mounting Heaget "The WSC 10 Mounting Heaget "The WSC 10 Mounting Heaget The WSC 10 Mounting Heaget The WSC 10 Mounting Heaget The WSC 10 Mounting Heaget The WSC 10 Mounting Heaget Heage	Rount Adapter

VISIONAIRE LIGHTING

Alt-PA-ING-001-F17

FOR INSTALLATION OF PRODUCTS OTHER THAN SPECIFIED ***ALL-PHOTOMETRIC LAYOUTS-SUBMITTALS, AND QUOTES BY VISIO REV. 0



4,000

48-98-005-005-EST

MOD

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A-

B-

C-

E-

F –

Luminaire Schedule LLF Description Symbol Qty Label Arrangement G-VISIONAIRE PGR-1-T5-16LC-3-3K-VOLT CM @ 14' MG. HT. Single 0.400 CM 8 VISIONAIRE VSX-II_T4L_15L_3K_VOLT_HS SINGLE @ 20' MTG Single 0.950 ▶ 2 Α VISIONAIRE VSX-II_T4_5L_3K_VOLT_HS_SINGLE @ 20' MTG. 0.950 Single ₽ 2 В VISIONAIRE VSX-II_T4_5L_3K_VOLT_CLS SINGLE @ 20' MTG. Single 0.950 **1** С ***DISCLAIMER*** BASED ON THE INFORMATION PROVIDED, ALL DIMENSION GARD LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED DESIFICATED SHE PROJECT ENGINEERING OF ARCHITECT MUST DETERMINE ADPLICABILITY OF THE LA REPRESENTS ILLUMINATION LEVELS TAKEN FROM A LABORATORY SETTING UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIALLY OF THE NATION DEVELOPMENT OF THE DATE OF A CONSIDERED AND CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIALLY OF THE DATE OF A CONSIDERED AND CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATION LEVELS TAKEN FROM A LABORATORY SETTING UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIALLY OF THE DATE OF A CONSIDERED AND CON

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

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

PGR-1 CM LED Specifications



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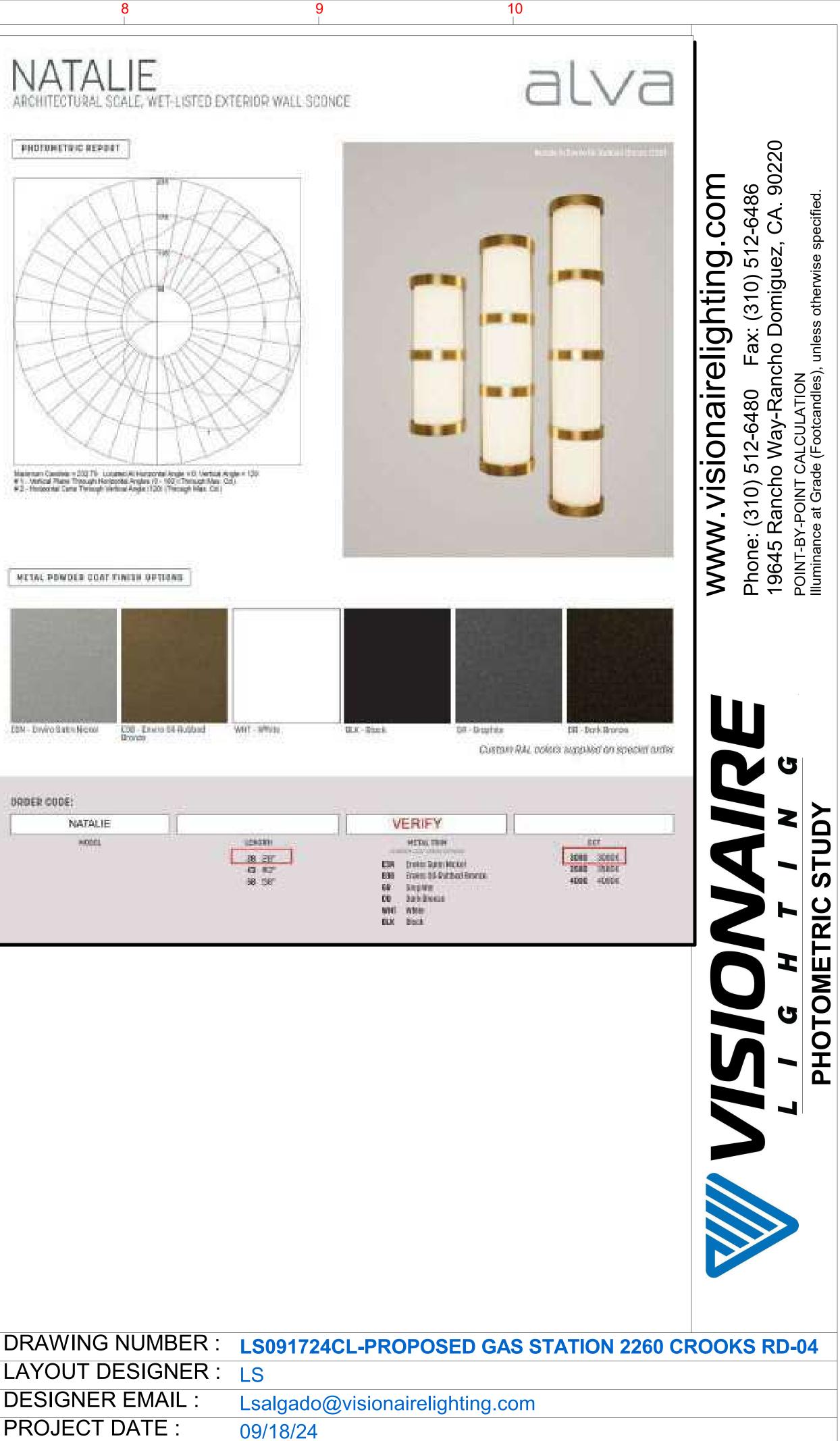
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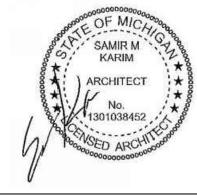
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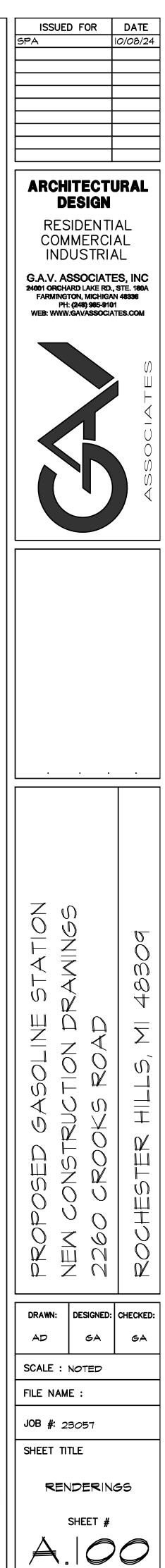


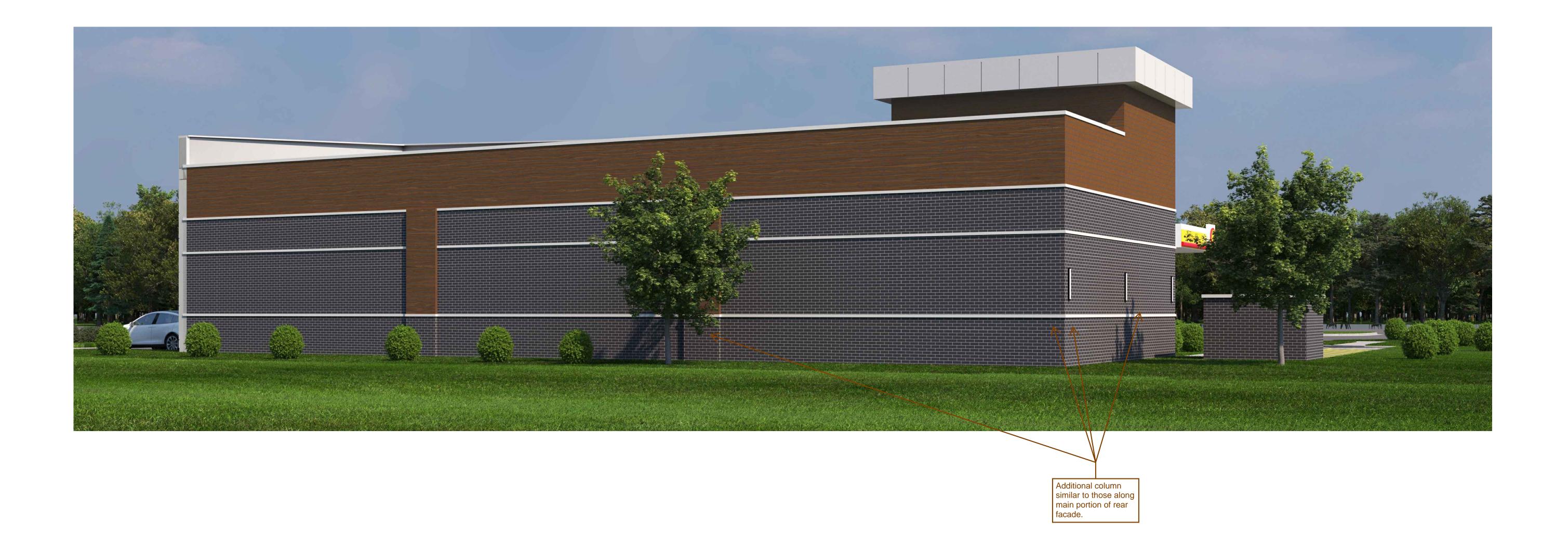








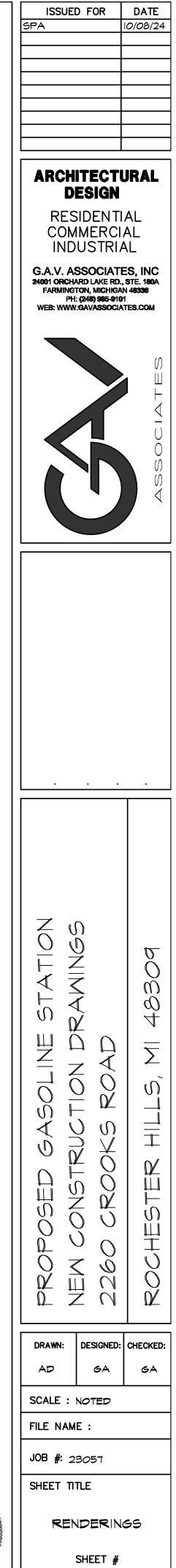


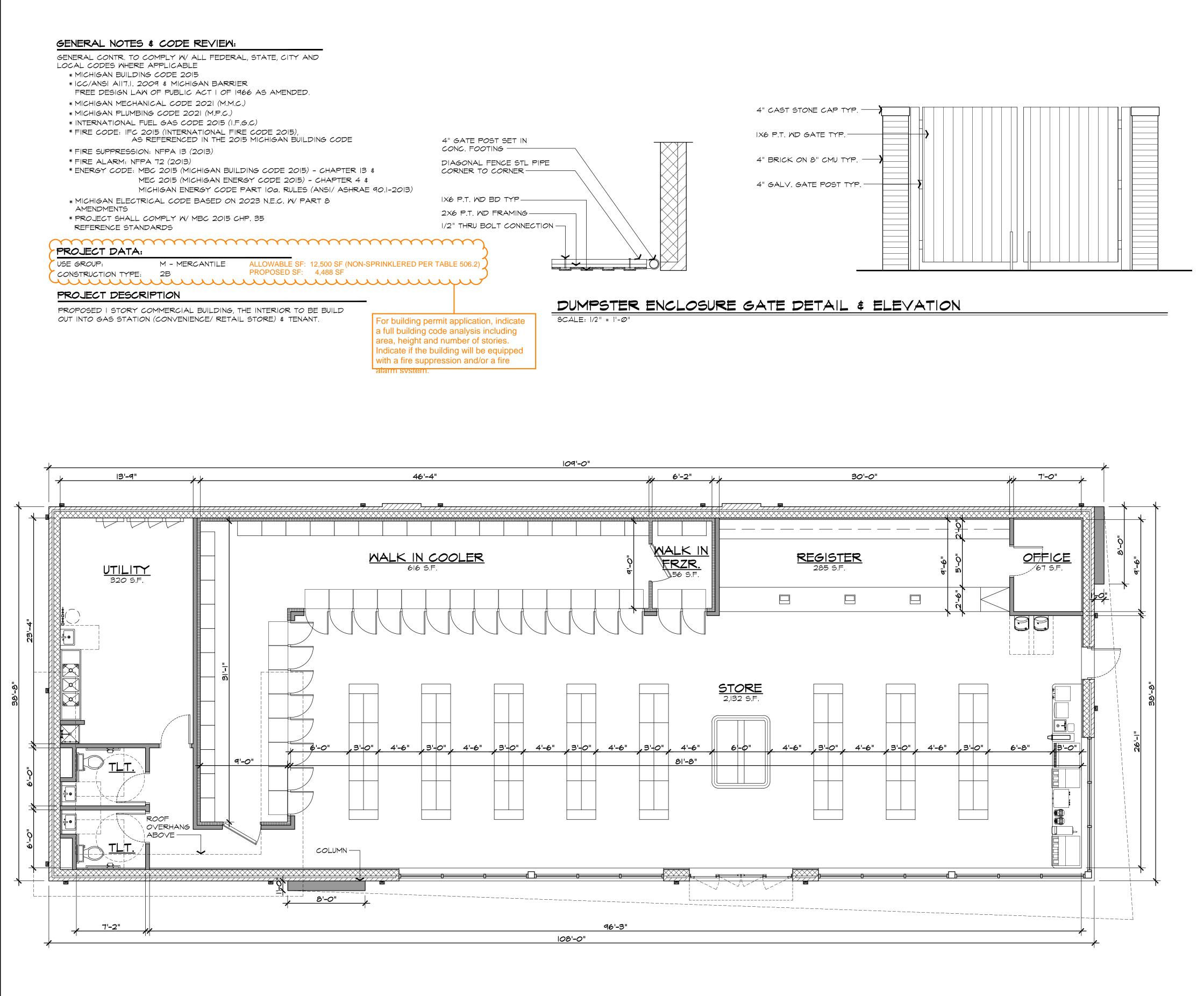






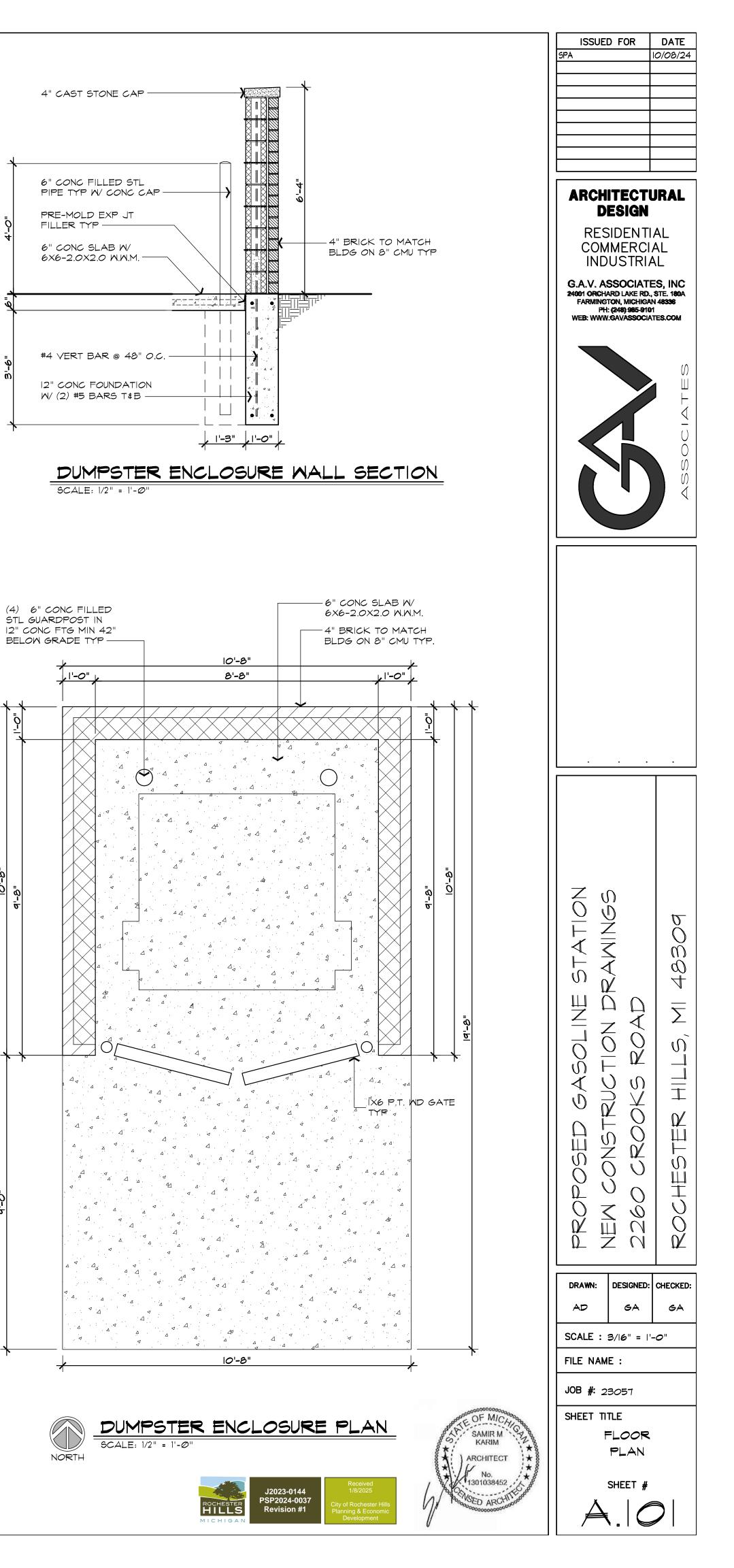




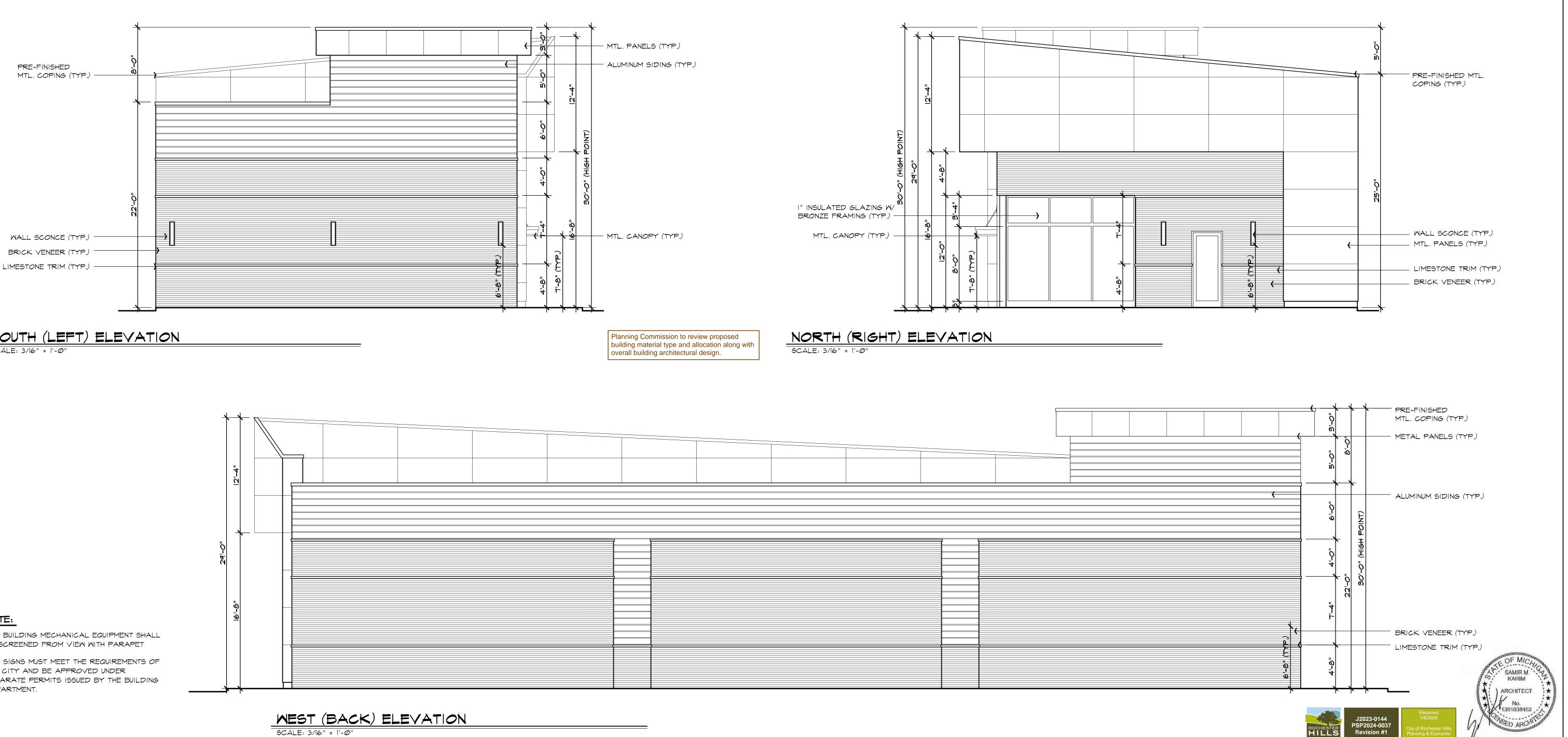


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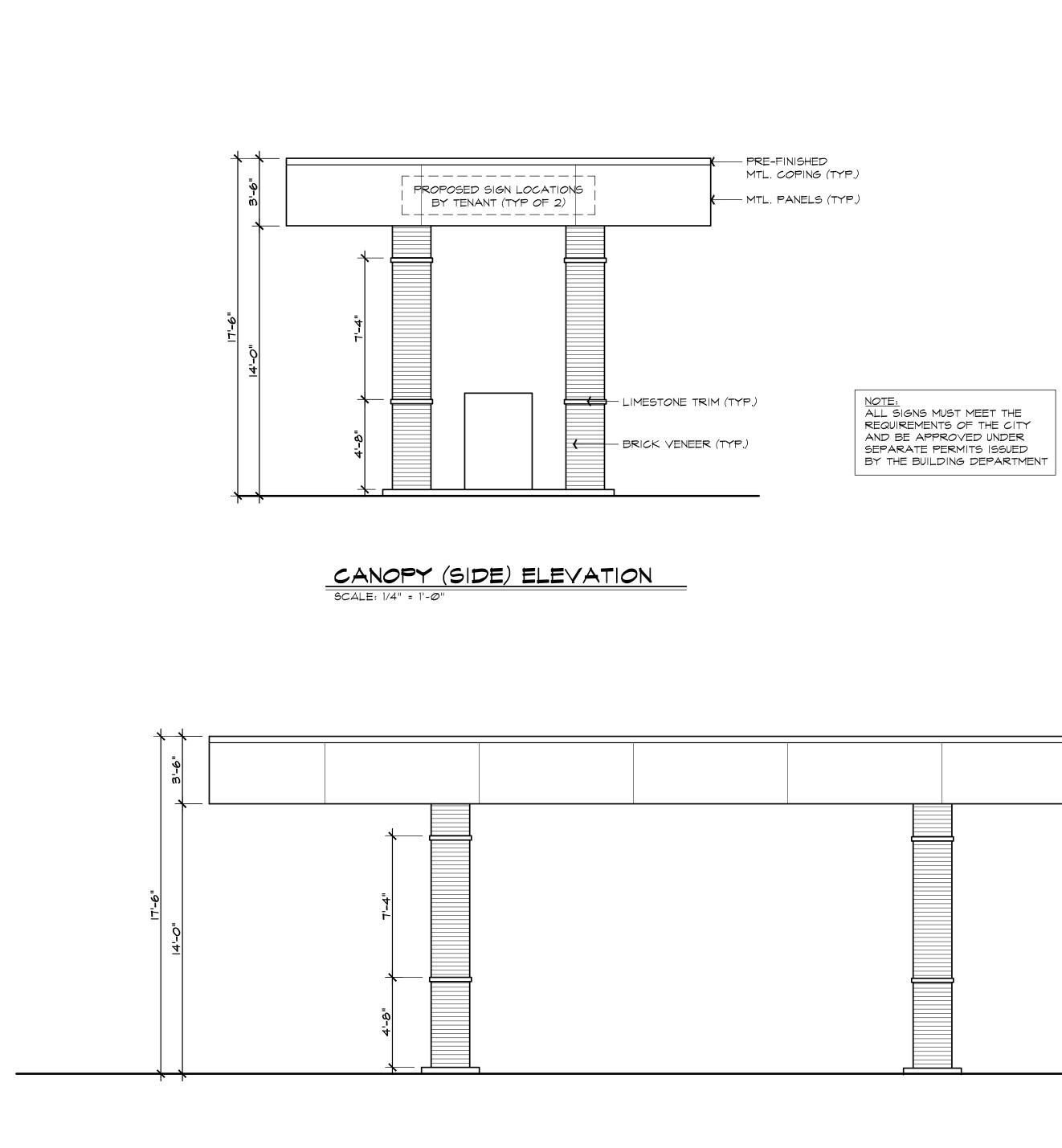
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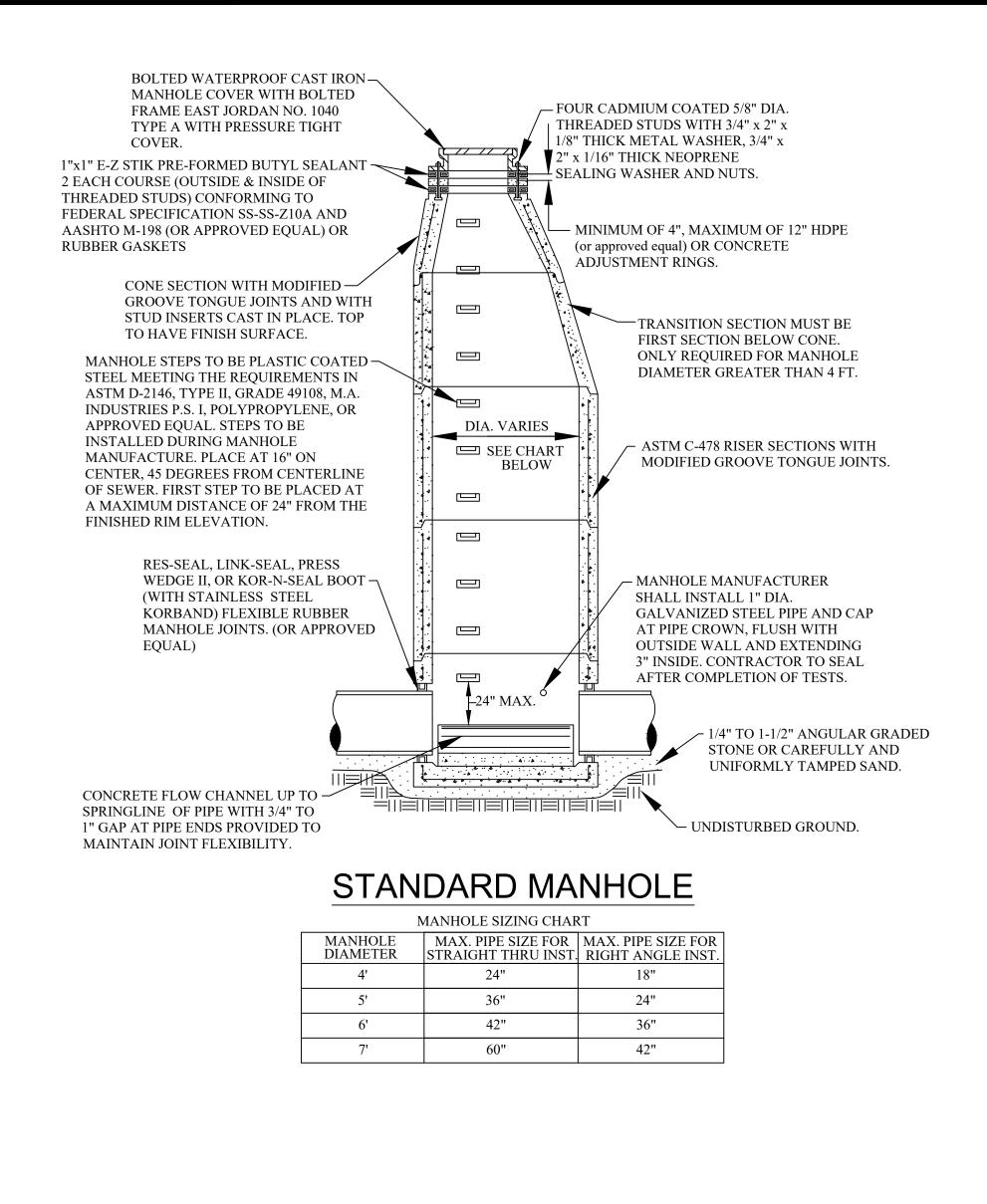
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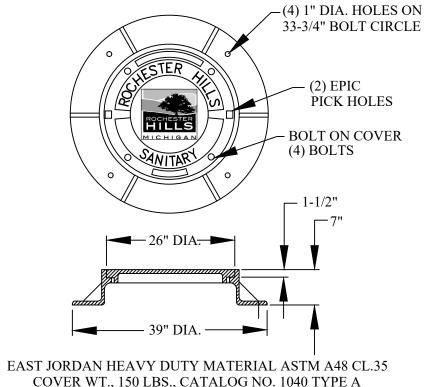
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ROCHESTER HILLS

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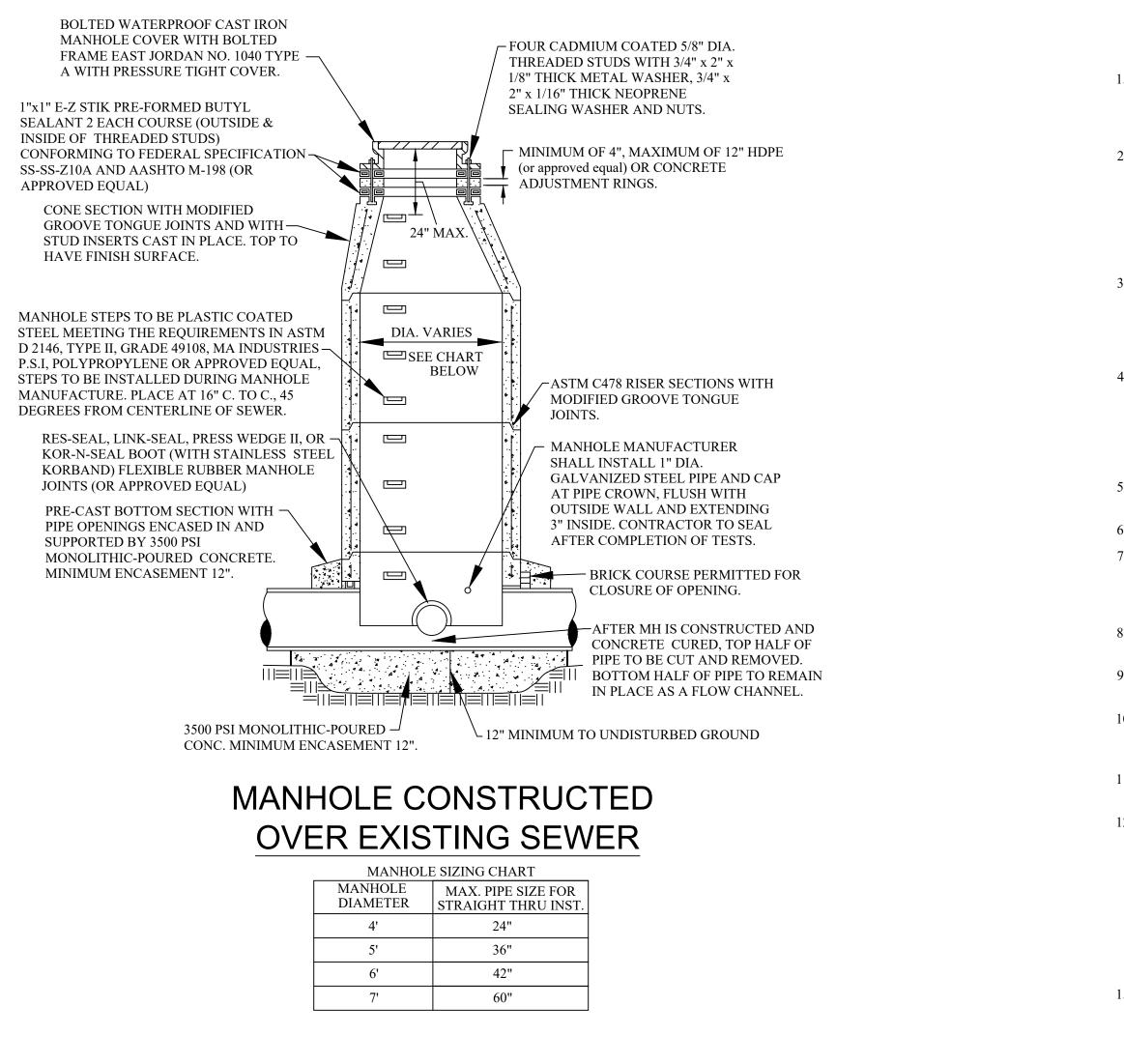
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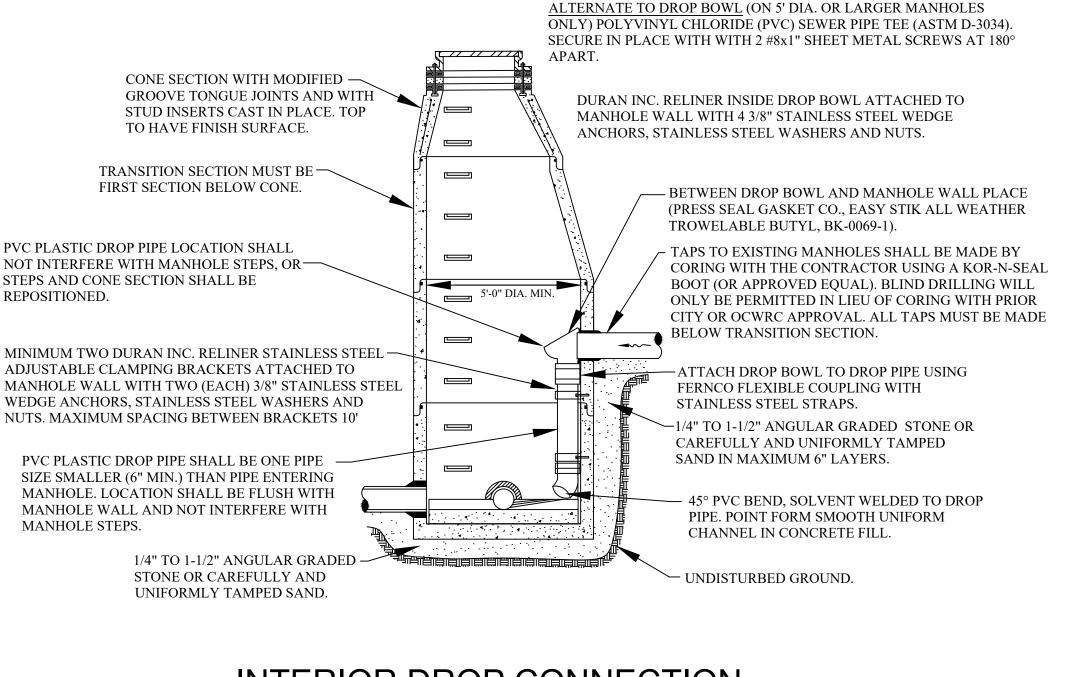
MANHOLE COVER

REPOSITIONED.



REVISIONS DATE *City of Rochester Hills* 1000 Rochester Hills Drive, Rochester Hills, Michigan 48309 APPROVED BY NOTIFY ROCHESTER HILLS CITY COUNCIL, DATE: _____ ENGINEERING DIVISION @ 248-841-2510 48 HRS. PRIOR PREPARED BY ENGINEERING DIVISION TO START OF DEPARTMENT OF PUBLIC SERVICES CONSTRUCTION





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 LAYED.

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.**

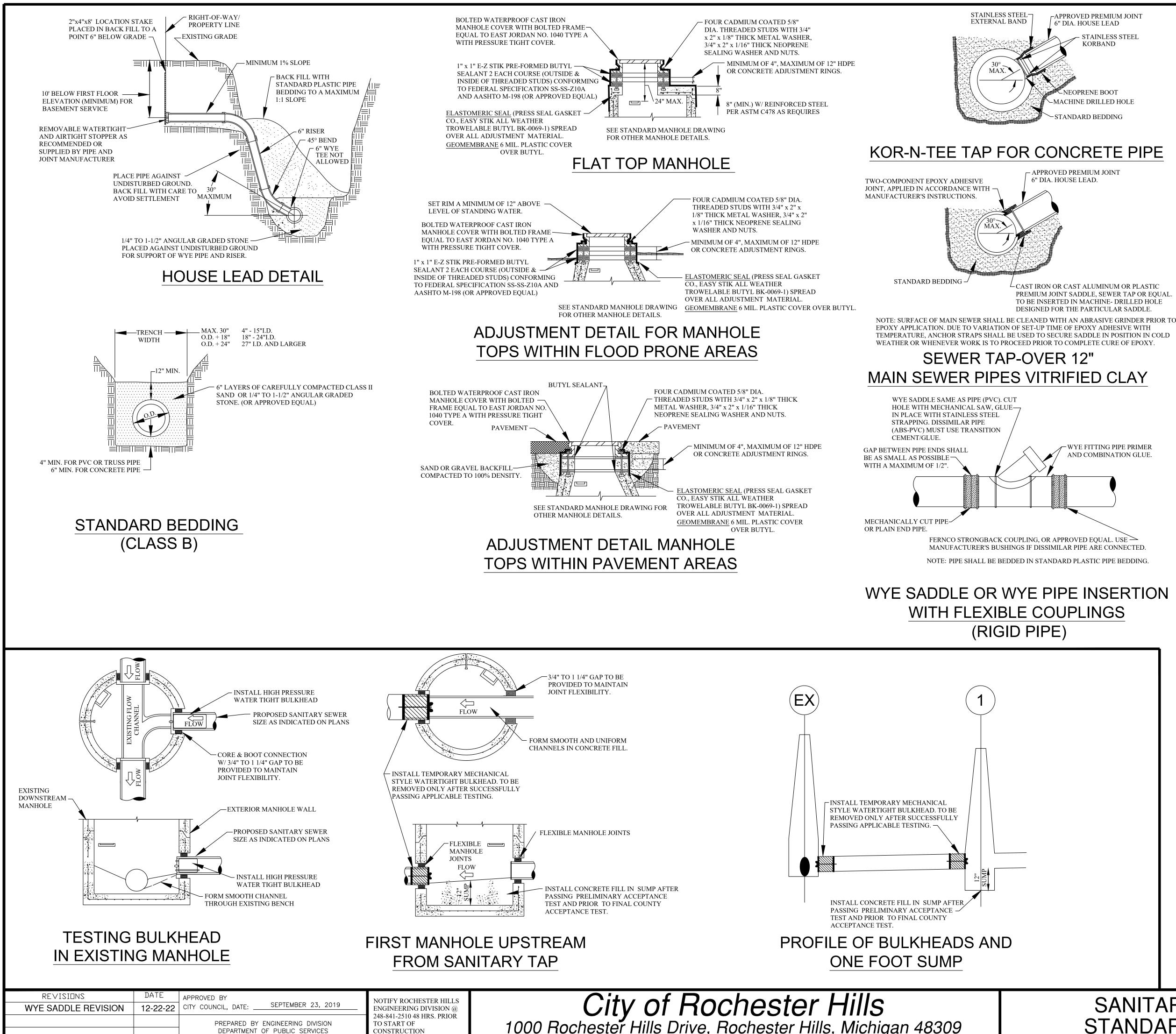


SANITARY SEWER STANDARD DETAILS

NOT TO SCALE

DATE: 1/10/2019

SHEET 1 OF 2



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

SANITARY SEWER STANDARD DETAILS

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 REQUIRED.
- 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
- INDICATED. 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

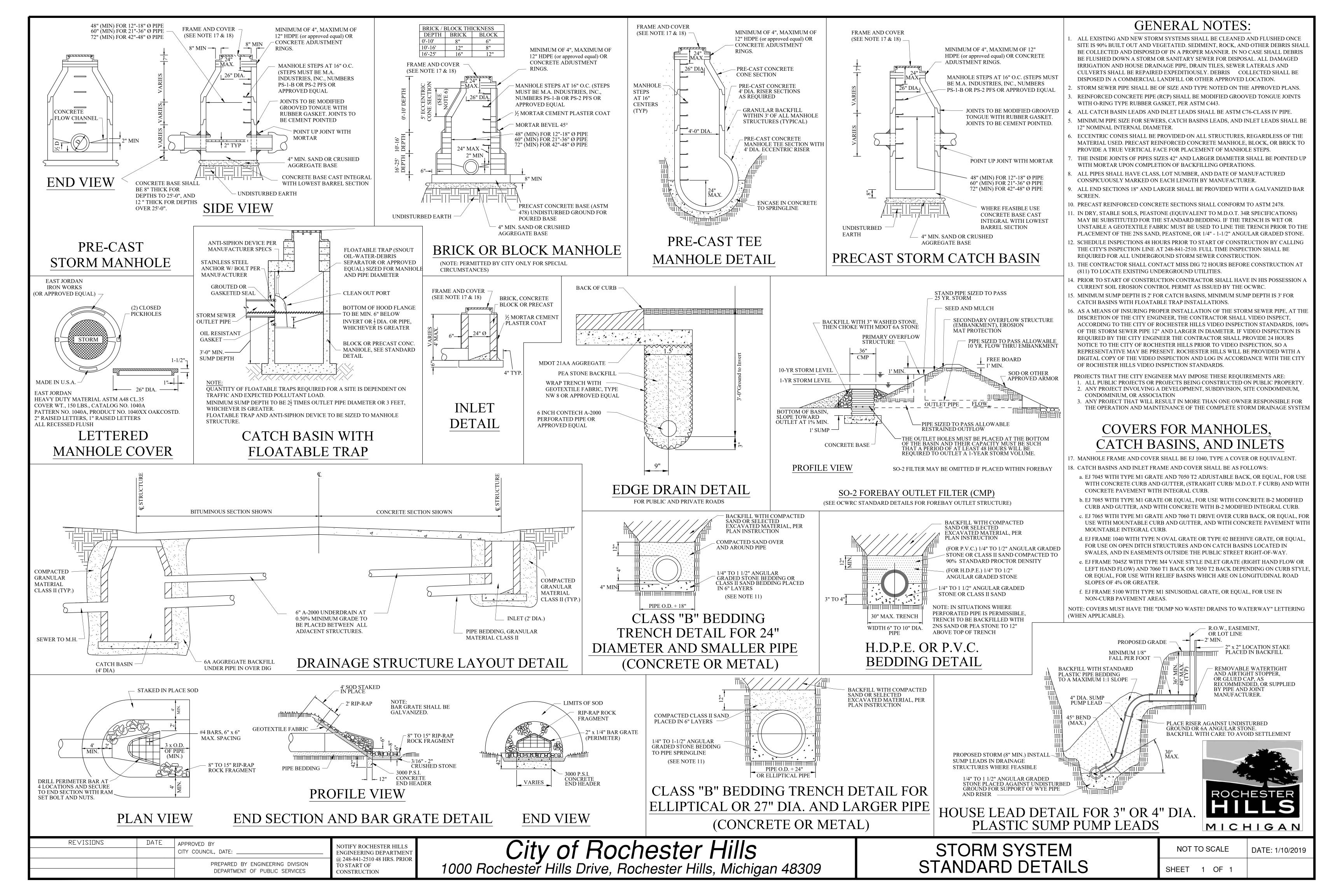
13. AS-BUILTS SHALL BE PREPARED IN ACCORDANCE WITH CITY OF ROCHESTER HILLS AS-BUILT GUIDELINES AS PROVIDED AT THE PRE-CONSTRUCTION MEETING

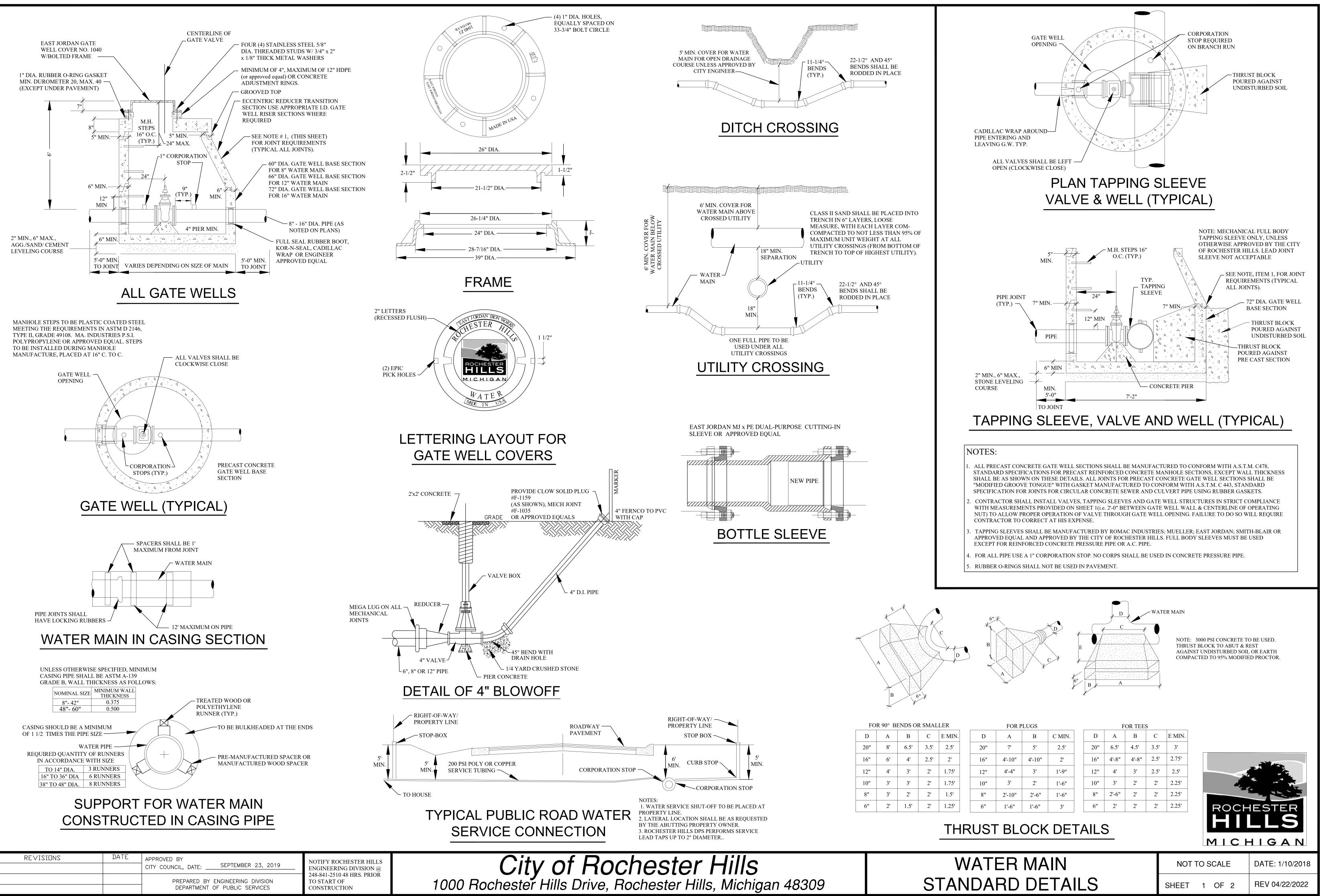


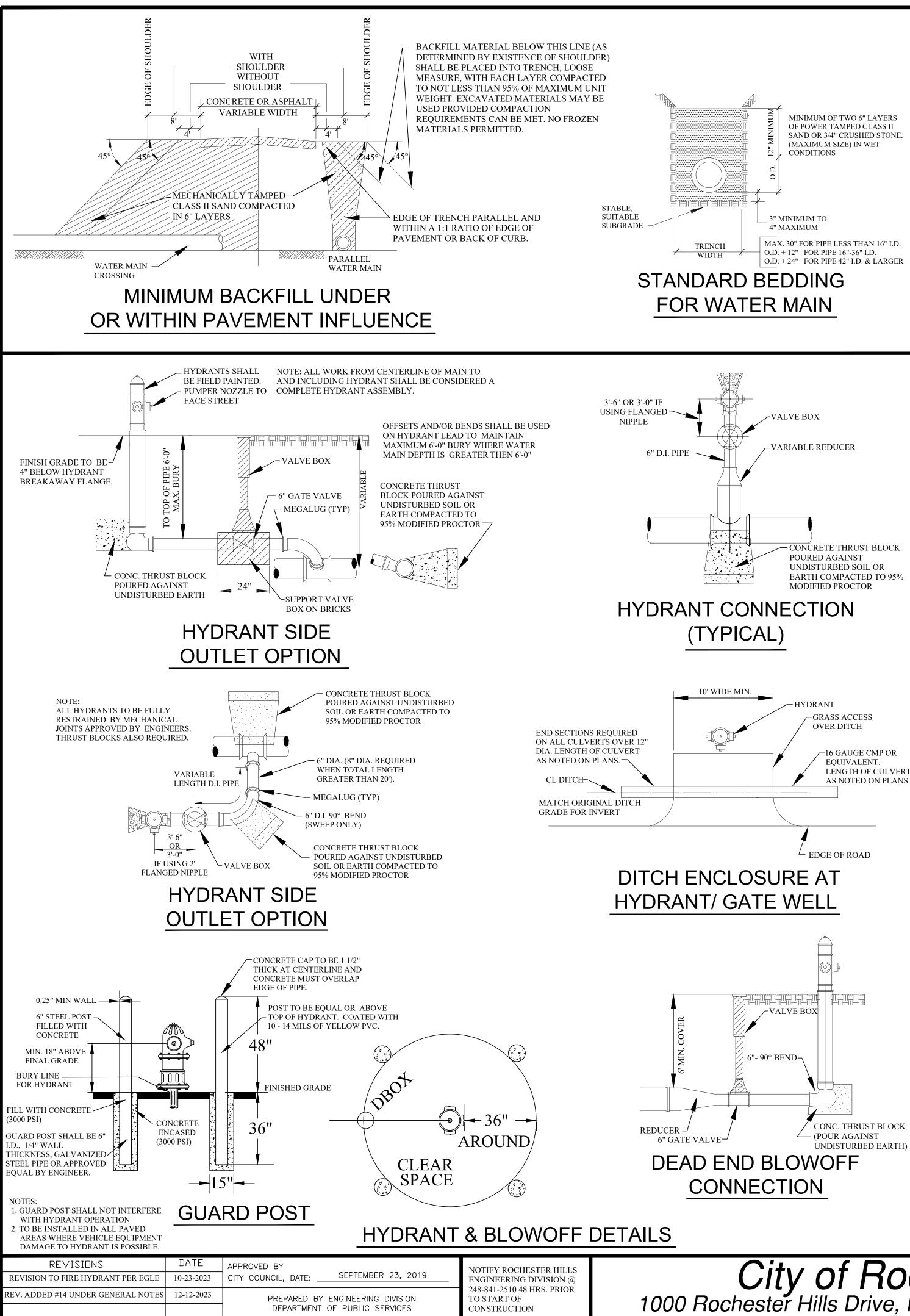
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DATE: 1/10/2019

SHEET 2 OF 2







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 DISTRIBUTION SYSTEM.
- 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.
- 9. ALL PRECAST CONCRETE GATE WELL SECTIONS SHALL BE IN ACCORDANCE WITH A.S.T.M. C478, STANDARD 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 GROO TONGUE" WITH GASKET MANUFACTURED TO CONFORM WITH A.S.T.M. C 443, STANDARD SPECIFICATION FOR JOINTS CIRCULAR CONCRETE SEWER AND CULVERT PIPE USING RUBBER GASKETS
- 0. 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 HI 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 BRONZ BODIES, KEYS, STEM WASHERS AND NUTS. INLET THREADS SHALL CONFORM TO THE LATEST VERSION OF AWWA C8
- 3. ALL DUCTILE IRON PIPE (D.I.P.) WATER MAIN SHALL BE DESIGNED FOR 150 PSI MINIMUM WORKING PRESSURE. A ZIN COATING WITH CLASS 52 MAY BE PROPOSED AND IS SUBJECT TO FINAL DECISION FOR APPROVAL BY THE CITY ENG 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 A21.10) OR AWWA C153 (ANSI A21.53). DUCTILE IRON FITTINGS SHALL BE RATED FOR 350 PSI, PIPE SIZES 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 REQUIREMENTS 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 GENERA PURPOSE ADHESIVE TAPE 2" WIDE AND APPROXIMATELY 10-MILS THICK, SUCH AS SCOTCHRAP. NO.50, POLYKEN NO OR TAPECOAT CT.

VALVE AND SLEEVE NOTES

- 1. GATE VALVES, SIZES THREE (3) INCH THROUGH SIXTEEN (16) INCH AND TAPPING VALVES SHALL MEET THE CITY OF HILLS STANDARD AS DETAILED WITH NON-RISING STEM. (EAST JORDAN, AMERICAN FLOW CONTROL, MUELLER)
- 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 ENGINEER
- 3. ALL GATE WELL COVERS SHALL BE CITY OF ROCHESTER HILLS STANDARD AS DETAILED. 4. ALL GATE VALVES WITH OPERATING NUTS AT A DISTANCE GREATER THAN FIVE (5) FEET BELOW GROUND SURFACE
- SHALL BE PROVIDED WITH AN EXTENSION STEM. THE LENGTH OF THE EXTENSION STEM SHALL REACH WITHIN FIVE FEET FROM THE GROUND SURFACE. WHEN AN EXTENSION STEM IS USED. IT SHALL BE HELD IN PLACE BY AN 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.

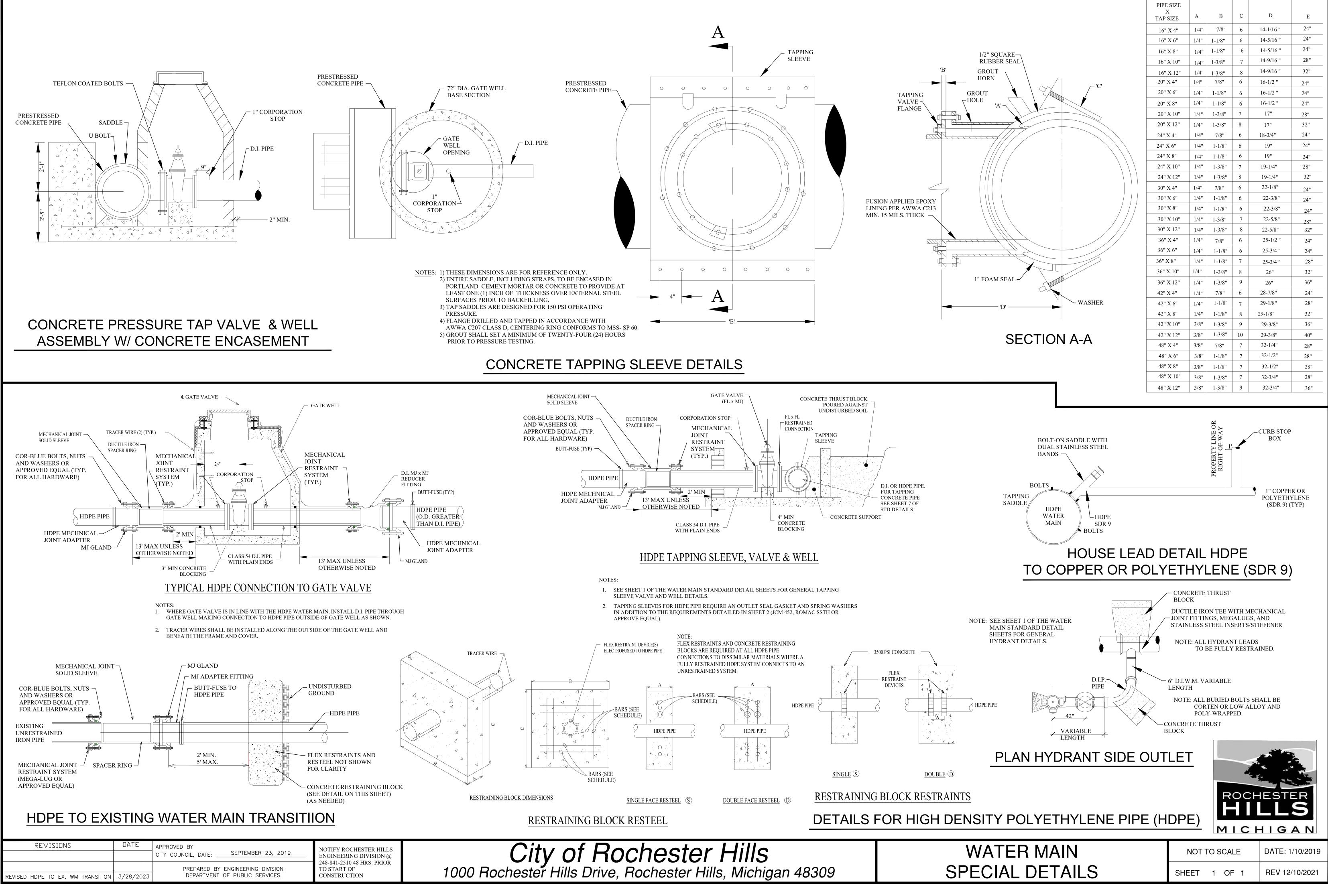
City of Rochester Hills 1000 Rochester Hills Drive, Rochester Hills, Michigan 48309

WATER MAIN STANDARD DETAILS

HYDRANT REQUIREMENTS

	ADJUS	HYDRANTS SHALL BE CONSTRUCTED WITH A SIX (6) INCH COMPANION GATE VALVE IN A THREE (3) PIECE, JSTABLE DUCTILE IRON VALVE BOX, WHICH SHALL INCLUDE A FIVE AND ONE-QUARTER (5-1/4) INCH SCREW SHA	AFT.
	2. ALL H	VE BOXES SHALL BE SERIES 6860 AS MANUFACTURED BY TYLER PIPE OR APPROVED EQUAL. HYDRANTS SHALL BE EAST JORDAN NO. 5-BR-250 TRAFFIC MODEL, OR CITY APPROVED EQUAL. -DRAINING HYDRANTS SHALL NOT BE USED. HYDRANTS SHALL HAVE BREAKAWAY FLANGE.	
	3. ALL H	HYDRANTS SHALL BE PAINTED RED ABOVE GROUND WITH A FINISH COAT OF RUST-OLEUM SAFETY RED OR OVED EQUAL. HYDRANT CAPS SHALL BE PAINTED SAME COLOR AS THE HYDRANT.	
	4. ALL F	FIRE HYDRANT JOINTS SHALL BE TOTALLY RESTRAINED BY THE USE OF RESTRAINED JOINT. THRUST BLOCKS A REQUIRED.	AR E
		R TO AWWA C502 FOR ALL PROPOSED FIRE HYDRANTS.	
		ACCEPTANCE OF NEW WATER MAINS	
	BACTH AND R 3) THE DRAW CITY C	R TO WATER MAIN ACCEPTANCE THE FOLLOWING CONDITIONS MUST BE MET: 1) PRESSURE TESTING AND TERIA TESTING MUST BE COMPLETED IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS 2) ALL EASEMENT RIGHT-OF-WAY ACQUISITION MUST BE ACCEPTED BY THE CITY OF ROCHESTER HILLS ENGINEERING SERVICES E CITY OF ROCHESTER HILLS MUST BE PROVIDED WITH THE BILL OF SALE AND 4) ALL MYLAR "AS - BUILT WINGS" MUST BE ACCEPTED AND APPROVED BY THE CITY OF ROCHESTER HILLS, ENGINEERING SERVICES. THE OF ROCHESTER HILLS INSPECTION DIVISION MUST WITNESS THE CONNECTION OF THE WATER MAIN TO THE TING WATER MAIN, AFTER WHICH RESIDENTIAL AND COMMERCIAL TAPS WILL BE ALLOWED.	
VE FOR	2. THE C PRESS	CONTRACTOR SHALL NOTIFY THE CITY OF ROCHESTER HILLS, INSPECTION DEPARTMENT (248.841.2510) FOR SSURE TESTING, BACTERIOLOGICAL SAMPLING, CONNECTIONS TO EXISTING WATER MAIN AND FINAL FIELD EW. A FORTY-EIGHT (48) HOUR ADVANCE NOTICE IS REQUIRED.	
	ROCH PERIC	CONTRACTOR SHALL DISINFECT AND PRESSURE TEST ALL NEW WATER MAIN IN ACCORDANCE WITH HESTER HILLS STANDARDS. THE WATER MAIN SHALL PASS A 150 PSI PRESSURE TEST FOR A TWO (2) HOUR OD. WATER LOSS SHALL NOT EXCEED A RATE OF 11.65 U.S. GALLONS PER INCH DIAMETER PER MILE OF WATER N IN TWENTY-FOUR (24) HOURS.	
LLS,	LARG CURR	RE CONTRACTOR SUPPLIED GAUGES ARE REQUIRED, MINIMUM SIZE SHALL BE 3 1/2" DIAMETER OR GER GRADUATED IN ONE (1) OR TWO (2) POUND INCREMENTS FROM 1 TO 160 P.S.I. OR HIGHER AND HAVE RENT CERTIFICATION.	
		SSURE TESTING AND BACTERIA TESTING MUST BE COMPLETED AND APPROVED PRIOR TO CONNECTING TO EXISTING WATER MAIN.	
		CITY OF ROCHESTER HILLS	
		WATER SYSTEMS	
		AS-BUILT DRAWING SPECIFICATIONS	
E CAST	Ι	IN AREAS WHERE WATER SYSTEMS ARE OPERATED AND MAINTAINED BY THE CITY OF ROCHESTER HIL DEPARTMENT OF PUBLIC SERVICES, FINAL ACCEPTANCE OF THE WATER SYSTEM MUST BE RENDERED THE DEPARTMENT OF PUBLIC SERVICES, BEFORE THE SYSTEM CAN BE USED FOR THE SERVICE INTEND	BY
C INEER.	F	ONE ITEM REQUIRED FOR FINAL ACCEPTANCE SHALL BE THE SUBMISSION OF AS-BUILT DRAWINGS TO THE CIT ROCHESTER HILLS, DPS, BY THE DESIGN ENGINEER. AS-BUILT DRAWINGS SHALL BE DEFINED AS AND CONTAIN FOLLOWING INFORMATION:	
		 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. 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). 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 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 WATER MAIN AND STRUCTURES, AS CONSTRUCTED, LIE WITHIN THE EASEMENT DESCRIPTIONS REQUIRED BY THE CITY OF ROCHESTER HILLS.	
т		(COMPANY NAME)	
AL D. 900,		(ENGINEER'S SIGNATURE)	
		PROFESSIONAL ENGINEER NO.	
		ENGINEER SEAL	
ROCHES RING DIV		 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, BRAND AND MODEL NUMBERS OF ALL VALVES AND HYDRANTS INSTALLED SHALL BE INDICATED. 	ΈD.
5)		 A TOTAL AS-BUILT DRAWING QUANTITY LIST SHALL BE INCLUDED, AS WELL AS AN AS-BUILT DRAWING QUANTITY LIST ON EACH INDIVIDUAL SHEET. THE LOCATIONS SHALL BE SHOWN ON THE PLANS WITH AN ACCURACY OF ONE (1) FOOT. THE OFFSET OF THE WATER MAIN FROM PROPERTY LINES SHALL BE INDICATED. ALL GATE VALVE WELLS, HYDRANTS AND ALL WATER SYSTEM APPURTENANCES SHALL BE LOCATED FR TWO FIXED OBJECTS (MANHOLES, BUILDING CORNERS ECT.). 	.OM
		 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 DUILT SHALL DE PREPARED DI ACCORDANCE WITH THE CITY OF DOCHESTED HILLS AS DUILT. 	
		14. AS-BUILT SHALL BE PREPARED IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS AS-BUILT GUIDELINES AS PROVIDED AT THE PRE-CONSTRUCTION MEETING.	
		ROCHESTER	

MICH	HIGAN
NOT TO SCALE	DATE: 1/10/2019
SHEET 2 OF 2	



site plan.pdf Markup Summary

0 Trees - Clear	Vision Conflicts (1)	
150 [I. 4.3 Trees (150 / 35) 2 Trees - Clear Vision Conflicts juided 2 Trees (150 / 60) vided 0 Trees - Clear Vision Conflicts 200 [I. 5.7 Trees (200 / 35) 0 Trees - Oxerhead Lines juired 3.3 Trees (200 / 60)	Subject: Contractor Author: C.McLeod Date: 1/23/2025 9:21:44 AM Status:	0 Trees - Clear Vision Conflicts
0 Trees - Clear	Zone Conflicts (1)	
231 I.f. 9.2 Trees (231 / 25) 9 Trees - Clear 200 9 Trees - Clear 200 vided 0 Trees - Clear 200e Conflicts 150 I.f. 4.3 Trees - Clear / Valor Conflicts 2 Trees - Clear Vision Conflicts	Subject: Contractor Author: C.McLeod Date: 1/23/2025 9:21:39 AM Status:	0 Trees - Clear Zone Conflicts
0 Trees - Overh	ead Lines (1)	
ided 0 Trees - Člear Vision Conflicts 200 Lf. 5.7 Trees (200 / 35) 0 Trees - Overhead Lines uired 3.3 Trees (200 / 60) ided 4 Trees	Subject: Contractor Author: C.McLeod Date: 1/23/2025 9:22:10 AM Status:	0 Trees - Overhead Lines
2 Trees - Clear	Vision Conflicts (1)	
vided 0 Trees - Clear Zone Conflicts 150 I.f. 4.3 Trees (50 / 35) 2 Trees - Clear Vieno Conflicts juined 2 Trees - Clear Vieno Conflicts vided 0 Trees - Clear Vieno Conflicts 5.7 Trees (200 / 35)	Subject: Contractor Author: C.McLeod Date: 1/23/2025 9:21:47 AM Status:	2 Trees - Clear Vision Conflicts
3 (1)		
-3- <mark>3</mark> K-'	Subject: Contractor Author: C.McLeod Date: 1/22/2025 12:56:16 PM Status:	3
3K (3)		
_ <u>3K</u> \	Subject: Contractor Author: C.McLeod Date: 1/22/2025 12:56:17 PM Status:	ЗК
 <mark>_3K_</mark> _\	Subject: Contractor Author: C.McLeod Date: 1/22/2025 12:56:22 PM Status:	зк
Х <mark>-ЗК</mark> (с	Subject: Contractor Author: C.McLeod Date: 1/22/2025 12:56:24 PM Status:	ЗК

10' greenbelt required (1)



Subject: Planning Department Author: C.McLeod Date: 1/22/2025 12:46:07 PM Status:

Date: 1/23/2025 9:23:24 AM

Status:

10' greenbelt required

also intended to be paid into tree fund.

10' rear yard requires Planning Commission approval. (1)Subject: Planning Department 10' rear yard requires Planning Commission Author: C.McLeod approval. Date: 1/22/2025 12:45:33 PM Status: 13'-8" (1) Subject: Fire Department 13'-8" Author: Ann Echols Date: 1/10/2025 10:48:23 AM Status: 45'-11" (1) Subject: Fire Department 間 45'-11" Author: Ann Echols Date: 1/10/2025 10:48:17 AM Status: 3(1) Subject: Contractor _3 Author: C.McLeod Date: 1/22/2025 12:56:20 PM Status: Additional column similar to those along main portion of rear facade. (1) Subject: Planning Department Additional column similar to those along main Author: C.McLeod portion of rear facade. Date: 1/22/2025 12:54:45 PM Status: ALLOWABLE SF: 12,500 SF (NON-SPRINKLERED PER TABLE 506.2) PROPOSED SF: 4,488 SF (1) Subject: Building Department ALLOWABLE SF: 12,500 SF Author: Mark Artinian (NON-SPRINKLERED PER TABLE 506.2) Date: 1/21/2025 10:28:05 AM PROPOSED SF: 4,488 SF LONG. THE INTERIOR TO BE BULD Status: Are other trees not being provided as noted above also intended to be paid into tree fund. (1) Subject: Planning Department Are other trees not being provided as noted above Author: C.McLeod

Assessing	Yes (1)		
Assessing Tes	Subject: Planning Department Author: C.McLeod Date: 1/22/2025 3:12:24 PM Status:	Assessing	Yes
BP (1)			
	Subject: Group Author: C.McLeod Date: 1/23/2025 9:14:19 AM Status:	BP	
City File #23-0	144 Section #29 in the lower right hand corner	r of each sheet (1)	
	Subject: Engineering Department Author: Jason Boughton Date: 1/8/2025 2:30:03 PM Status:	City File #23-0144 Section hand corner of each shee	
City of Roches	ter Hills Planning & Economic Development (1	1)	
	Subject: Group Author: macdonaldj Date: 1/8/2025 10:42:11 AM Status:	City of Rochester Hills Pla Development	anning & Economic
CONDITIONAL	_ (1)		
CONDITIONAL	Subject: Fire Department Author: Ann Echols Date: 1/10/2025 10:50:39 AM Status:	CONDITIONAL	
For building pe	rmit application, indicate a full building code a	analysis including area, height and nur	mber of stories. Indicate if the b
	Subject: Building Department Author: Mark Artinian Date: 1/21/2025 11:01:05 AM Status:	For building permit applica building code analysis inc number of stories. Indica equipped with a fire suppl alarm system.	ation, indicate a full cluding area, height and te if the building will be
IF EXISTING V	VATER SERVICE IS NOT BEING REUSED, 1	THEN THE SERVICE LINE SHALL BI	E ABANDONED BACK TO THE
	Subject: Underground Utilities Author: Angie Date: 1/9/2025 2:08:34 PM Status:	IF EXISTING WATER SE REUSED, THEN THE SE ABANDONED BACK TO	RVICE LINE SHALL BE
K (2)			
3-3 <mark>K</mark> -V	Subject: Contractor Author: C.McLeod Date: 1/22/2025 12:56:03 PM Status:	К	
 3 <mark>K_</mark> _\	Subject: Contractor Author: C.McLeod Date: 1/22/2025 12:56:19 PM Status:	К	

LED light sources shall have a correlated color temperature that does not exceed 3,000K. (1)



Subject: Planning Department Author: C.McLeod Date: 1/22/2025 12:55:32 PM Status:

LED light sources shall have a correlated color temperature that does not exceed 3,000K.

LIP (1)



Subject: Group Author: C.McLeod Date: 1/23/2025 9:14:14 AM Status:

Status:

LIP

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: 1/22/2025 12:23:08 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.
Mark Artinian	248-841-2446 ArtinianM@RochesterHills.org (1)	
Mark Artinian 248-841-2446 ArtinianM€RochesterHills.org	Subject: Building Department Author: Mark Artinian Date: 1/21/2025 11:16:48 AM Status:	Mark Artinian 248-841-2446 ArtinianM@RochesterHills.org
PCM (6)		
	Subject: Group Author: C.McLeod Date: 1/23/2025 10:08:02 AM Status:	РСМ
	Subject: Group Author: C.McLeod Date: 1/22/2025 12:44:10 PM Status:	РСМ
	Subject: Group Author: C.McLeod Date: 1/22/2025 12:45:36 PM Status:	РСМ
flicts flicts	Subject: Group Author: C.McLeod Date: 1/23/2025 9:21:29 AM	РСМ

	Subject: Group	
uflicts	Author: C.McLeod Date: 1/23/2025 9:21:52 AM Status:	PCM
ewalks.	Subject: Group Author: C.McLeod Date: 1/23/2025 9:22:04 AM Status:	РСМ
Planning Comn	nission (1)	
Planning Commission	Subject: Planning Department Author: C.McLeod Date: 1/23/2025 10:08:51 AM Status:	Planning Commission
Planning Comn	nission to review proposed building material type and allo	cation along with overall building architectural design.
A service of the service are service and the service are s	Subject: Planning Department Author: C.McLeod Date: 1/22/2025 12:51:06 PM Status:	Planning Commission to review proposed building material type and allocation along with overall building architectural design.
Provide ADA ra	amps for universal accessibility. (1)	
	Subject: Planning Department Author: C.McLeod Date: 1/22/2025 12:37:53 PM Status:	Provide ADA ramps for universal accessibility.
Provide RCOC	permit. (1)	
Provide RCOC permit.	Subject: Traffic, Pathways, Sidewalks Author: Keith Date: 1/21/2025 11:51:29 AM Status:	Provide RCOC permit.
Provided this in	formation on this sheet. (1)	
	Subject: Cloud+ Author: Ann Echols Date: 1/10/2025 10:49:23 AM Status:	Provided this information on this sheet.
Received 1/8/2	025 City of Rochester Hills Planning & Economic Develo	pment (17)
	Subject: Group Author: C.McLeod Date: 1/23/2025 10:05:36 AM	Received 1/8/2025
	Status:	City of Rochester Hills Planning & Economic Development
	Subject: Group Author: C.McLeod Date: 1/23/2025 10:05:43 AM Status:	Received 1/8/2025
<u>.</u>		City of Rochester Hills Planning & Economic Development

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Subject: Group Author: C.McLeod Date: 1/23/2025 10:05:47 AM Status:



Subject: Group Author: C.McLeod Date: 1/23/2025 10:05:51 AM Status:



Subject: Group Author: C.McLeod Date: 1/23/2025 10:05:55 AM Status:



Subject: Group Author: C.McLeod Date: 1/23/2025 10:05:59 AM Status:



Subject: Group Author: C.McLeod Date: 1/23/2025 10:06:05 AM Status:



Subject: Group Author: C.McLeod Date: 1/23/2025 10:06:09 AM Status:



Subject: Group Author: C.McLeod Date: 1/23/2025 10:06:14 AM Status:



Subject: Group Author: C.McLeod Date: 1/23/2025 10:06:18 AM Status:



Subject: Group Author: C.McLeod Date: 1/23/2025 10:06:23 AM Status:

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Subject: Group Author: C.McLeod Date: 1/23/2025 10:06:31 AM Status:

Received 1/8/2025

City of Rochester Hills Planning & Economic Development

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City of Rochester Hills Planning & Economic Development

Received 1/8/2025

City of Rochester Hills Planning & Economic Development

JEL2-64 Note: FFEL2-64 Sector 10 FFEL2-64 Sector 10 FFEL2-64 Sector 10	Subject: Group Author: C.McLeod Date: 1/23/2025 10:06:36 AM	Received 1/8/2025
	Status:	City of Rochester Hills Planning & Economic Development
Value and Annual State	Subject: Group	Received
	Author: C.McLeod Date: 1/23/2025 10:06:40 AM	1/8/2025
	Date: 1/23/2025 10:06:40 AM Status:	City of Rochester Hills Planning & Economic Development
TER ENCLOSURE PLAN	Subject: Group	Received
· F-Ø*	Author: C.McLeod	1/8/2025
And	Date: 1/23/2025 10:06:46 AM Status:	City of Rochester Hills Planning & Economic Development
	Subject: Group	Received
	Author: C.McLeod Date: 1/23/2025 10:06:49 AM	1/8/2025
	Status:	City of Rochester Hills Planning & Economic Development
	Subject: Group	Received
20034144	Author: C.McLeod Date: 1/23/2025 10:06:59 AM	1/8/2025
And	Status:	City of Rochester Hills Planning & Economic Development
Revise to 0.21R	EU per Pump (1)	
	Subject: Underground Utilities Author: Jason Boughton Date: 1/8/2025 2:35:04 PM Status:	Revise to 0.21REU per Pump
SP (1)		
	Subject: Group Author: C.McLeod Date: 1/23/2025 9:14:04 AM Status:	SP
STOP BOX SHO	DULD BE LOCATED AT PROPERTY LINE (1)	
CONTRACTOR OF THE PROPERTY LINE	Subject: Underground Utilities Author: Angie Date: 1/9/2025 2:05:54 PM Status:	STOP BOX SHOULD BE LOCATED AT PROPERTY LINE
對 · · · · · · · · · · · · · · · · · · ·		

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: 1/8/2025 2:29:43 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 2004 ON THIS PROPERTY RECORDED AS LIBER 33861 PAGE 300 AS A RES



Subject: Underground Utilities Author: Angie Date: 1/10/2025 1:48:41 PM Status:

THERE IS A RESTRICTIVE COVENANT FROM 2004 ON THIS PROPERTY RECORDED AS LIBER 33861 PAGE 300 AS A RESULT OF A UST LEAK. SEVEN (7) MONITORING WELLS WERE INSTALLED WITHIN THE PROPERTY 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 REVIEW.

These easements should provide for general access between the subject site and the site to the south when an appropriate location



Subject: Planning Department Author: C.McLeod Date: 1/22/2025 12:35:38 PM Status:

These easements should provide for general access between the subject site and the site to the south when an appropriate location is determined with the future development to the south.

To match RH Gateway and Streetscape Master Plan (1)



Subject: Planning Department Author: C.McLeod Date: 1/22/2025 12:24:31 PM Status:

To match RH Gateway and Streetscape Master Plan

To mitigate some of modification request additional low level plantings can be added along rear of building. (1)



Subject: Planning Department Author: C.McLeod Date: 1/23/2025 10:04:07 AM Status:

To mitigate some of modification request additional low level plantings can be added along rear of building.

Total tree modification request of approximately 18 trees. 10 ornamental trees 8 shade trees (1)



Subject: Planning Department Author: C.McLeod Date: 1/23/2025 9:25:53 AM Status:

Total tree modification request of approximately 18 trees.

10 ornamental trees 8 shade trees

Tree locations may need to be modified to accommodate overhead utilities (1)



Subject: Planning Department Author: C.McLeod Date: 1/23/2025 9:19:22 AM Status:

Tree locations may need to be modified to accommodate overhead utilities

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: 1/23/2025 11:06:54 AM 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.

When applying for a building permit: Provide a letter from a registered electrical engineer that the location of the EV charging static



Subject: Building Department Author: Mark Artinian Date: 1/21/2025 9:51:48 AM Status:

When applying for a building permit: Provide a letter from a registered electrical engineer that the location of the EV charging station will comply with Article 514 of the National Electrical Code for Motor Fuel Dispensing Facilities, Articles 500, 501 and 502 for Classified Hazardous Locations and Article 504 for Intrinsically Safe Systems.

EV charging parking spaces, per ADA requirements, should be a minimum of 11' wide and 20' long with a 5' wide accessible path. Concrete bollards or other acceptable means of protection determined by the city should be provided. Below is the web address for EV Charging Guidelines.

https://cms9files.revize.com/rochesterhillsmi/Buildi ng/Guidebooks/ElecticVehicleChargingStationGuid line.pdf

Yes (1)

Yes

Subject: Building Department Author: Mark Artinian Date: 1/21/2025 11:17:25 AM Status:

Yes

(11)	
Jasen Ragnes (1461-200) Visi Bougetau (Rackwater Burg (1990)	Subject: Engineering Department Author: Jason Boughton Date: 1/8/2025 2:47:22 PM Status:
Cay, Ans Edwar 26441-2701 Yes Edward Rochanger Barry	Subject: Fire Department Author: Ann Echols Date: 1/10/2025 10:50:18 AM Status:
interna Tarra Tarra	Subject: Jenny McGuckin - YES Author: Seth Bucholz Date: 1/16/2025 8:08:39 AM Status:
State Enhance Both Enhance Enhanced Bill Restate the exp	Subject: Natural Resouces Author: Matt Einheuser Date: 1/21/2025 8:18:16 AM Status:
	Subject: Traffic Author: Keith Date: 1/21/2025 11:42:33 AM Status:

Cl

_____ Subject: Group Author: C.McLeod Date: 1/23/2025 9:14:33 AM Status:



Subject: Group Author: C.McLeod Date: 1/23/2025 9:14:39 AM Status:

.



_____ Subject: Planning Department Author: C.McLeod Date: 1/23/2025 11:05:24 AM Status:



------Subject: Highlight Author: Ann Echols Date: 1/10/2025 10:49:38 AM Status:



Subject: Contractor Author: C.McLeod Date: 1/23/2025 9:26:30 AM Status:

------Subject: Contractor Author: C.McLeod Date: 1/22/2025 3:11:42 PM Status: