



TREE PRESERVATION SUMMARY:

AL NUMBER OF TREES SURVEYED: S NUMBER OF DEAD TREES: S NUMBER OF R.O.W. TREES: TREES ON-SITE:
TAL REGULATED TREES TO BE REMOVED: TAL SPECIMEN TREES TO BE REMOVED: TAL TREES TO REMAIN:
IIMUM PRESERVATION REQUIREMENT REES - 6 TREES IN BUILDING ENVELOPE = 62 X 40% =
E REPLACEMENT AL REMOVALS: AL REGULATED REPLACEMENT TREES REQUIRED: AL SPECIMEN REPLACEMENT TREES REQUIRED (109" x 50% = 54.5/2"

LESS SPECIMEN CREDITS: TOTAL REPLACEMENT TREES REQUIRED: TOTAL REPLACEMENT TREES PROVIDED:

68 30 5 (1 EXEMPT) 33

25 TREES NEED TO BE PRESERVED 33 TREES PROPOSED TO BE SAVED

35 TREES 30 TREES 2"): 28 TREES -1 TREES 57 TREES MONIES FOR 57 TREES TO BE PAID INTO TREE FUND (\$334 X 57 = \$19,038)

GENERAL TREE PROTECTION NOTES

- 1. APPROVED TREE PROTECTION SHALL BE ERECTED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL THE IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
- ALL UNDERSTORY VEGETATION WITHIN THE LIMITS OF PROTECTIVE FENCING SHALL BE PRESERVED.
 NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE DRIP LINE OF ANY TREE DESIGNATED TO REMAIN, INCLUDING BUT NOT LIMITED TO, PLACING SOLVENTS, BUILDING MATERIALS, CONSTRUCTION EQUIPMENT, OR SOIL DEPOSITS
- SOLVENTS, BUILDING MATERIALS, CONSTRUCTION EQUIPMENT, OR SOIL DEPOSI WITHIN THE DRIP LINE.
- WHERE GROUPINGS OF TREES ARE TO REMAIN, TREE FENCING SHALL BE PLACED AT THE LIMITS OF GRADING LINE.
 DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE
- DURING CONSTRUCTION, NO PERSON SHALL ATACH AND DEVICE OR WI TO ANY TREE, SCHEDULED TO REMAIN.
 ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE
- INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR OUTSIDE OF THE PROTECTIVE FENCING.
- 7. SWALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIP LINES OF PROTECTED TREES.
- 8. TREES LOCATED ON ADJACENT PROPERTIES THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES MUST BE PROTECTED.
 9. ROOT ZONES OF PROTECTED TREES SHOULD BE SURROUNDED WITH RIGIDLY STAKED FENCING.
- THE PARKING OF IDLE AND RUNNING EQUIPMENT SHALL BE PROHIBITED UNDER THE DRIP LINE OF PROTECTED TREES.
 THE STRIPPING OF TOPSOIL FROM AROUND PROTECTED TREES SHALL BE PROHIBITED.
 ALL TREES TO BE REMOVED SHALL BE CUT AWAY FROM TREES TO REAMIN.
 THE GRUBBING OF UNDERSTORY VEGETATION WITHIN CONSTRUCTION AREAS SHOULD
- BE CLEARED BY CUTTING VEGETATION AT THE GROUND WITH A CHAIN SAW OR MINIMALLY WITH A HYDRO-AXE.
 14. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT PER ORDINANCE GUIDELINES, FOR THE DAMAGE OR REMOVAL OF ANY TREE DESIGNATED TO REMAIN.
 15. TREES TO BE REMOVED SHALL BE FIELD VERIFIED. EVALUATED AND FLAGGED FOR
- 15. TREES TO BE REMOVED SHALL BE FIELD VERIFIED, EVALUATED AND FLAGGED FOR REMOVAL, BY THE LANDSCAPE ARCHITECT OR FORESTER, ONLY AS DIRECTED BY THE OWNER OR OWNERS REPRESENTATIVE.

PROTECTIVE FENCING NOTE:

TREE PROTECTION AND SILT FENCING, AS REVIEWED AND APPROVED BY CITY STAFF, SHALL BE INSTALLED PRIOR TO THE ISSUANCE OF THE LAND IMPROVEMENT PERMIT.

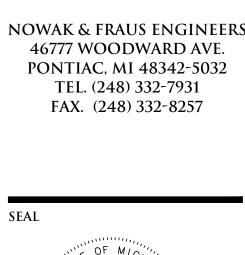
LEGEND:



TREES TO BE REMOVED

TREES TO REMAIN

TREE PROTECTION FENCING



ENGINEERS

CIVIL ENGINEERS

LAND SURVEYORS

LAND PLANNERS



PROJECT Old Orion Court Development

CLIENT

Mark Bismack 5319 23 Mile Road Shelby Township, MI 48306

Care of: Krieger Klatt Architects Contact: Mr. Jeff Klatt, AIA Phone: (248) 414-9270 Email: Jeff@kriegerklatt.com PROJECT LOCATION

Part of the SE ¹/₄ of Section 3 T. 3N., R. 11E. City of Rochester Hills, Oakland County, Michigan

SHEET Tree Preservation Plan



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

REVISIONS

04/24/24 SPA 07/15/24 SPA 11/06/24 REVISED PER CITY 01/13/25 SPA REV #2

DRAWN BY:

G. Ostrowski Designed by: G. Ostrowski Approved by: G. Ostrowski

DATE: <mark>January 9, 2024</mark>

SCALE: 1" = 30'

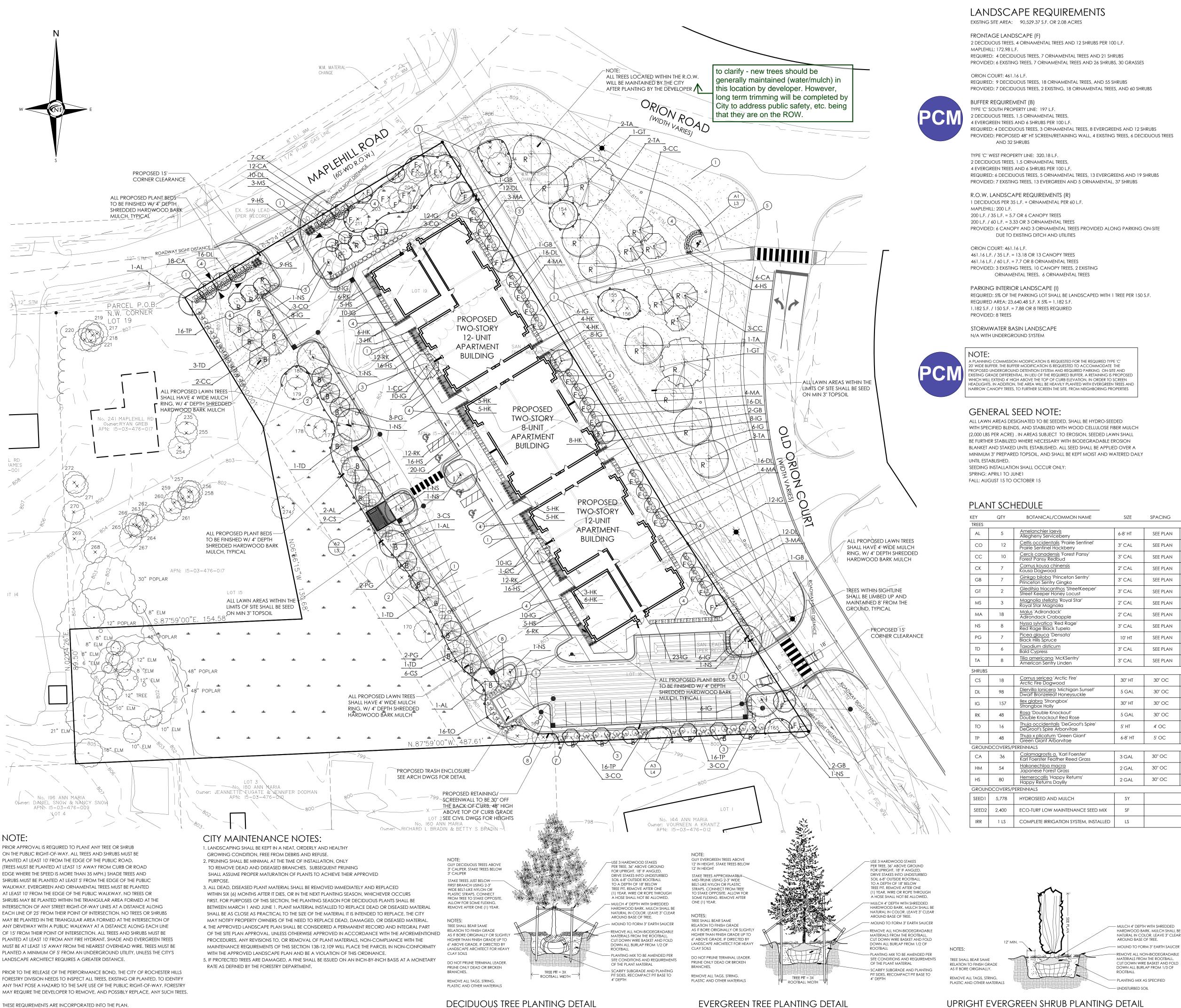
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K176-01

sheet no. **L1**

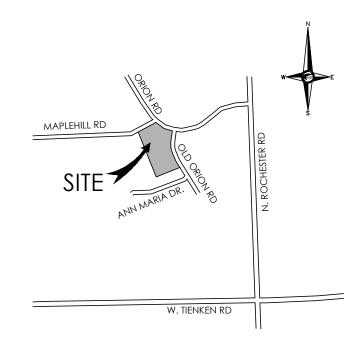




EDGE WHERE THE SPEED IS MORE THAN 35 MPH.) SHADE TREES AND

THESE REQUIREMENTS ARE INCORPORATED INTO THE PLAN.

SPACING ROOT COMMENT UNIT /TOTAL COST SEE PLAN B&B CLUMP FORM, 3 CANES \$275/\$1,375 SEE PLAN B&B FULLY BRANCHED HEADS \$325/\$3,900 SEE PLAN B&B FULLY BRANCHED HEADS \$325/\$3,250 SEE PLAN B&B FULLY BRANCHED HEADS \$275/\$1,925 SEE PLAN B&B FULLY BRANCHED HEADS \$325/\$2,275 SEE PLAN B&B FULLY BRANCHED HEADS \$325/\$650 SEE PLAN B&B FULLY BRANCHED HEADS \$275/\$825 B&B FULLY BRANCHED HEADS \$275/\$4,950 SEE PLAN B&B FULLY BRANCHED HEADS \$325/\$2,600 SEE PLAN B&B FULLY BRANCHED HEADS \$350/\$2,450 SEE PLAN B&B FULLY BRANCHED HEADS \$325/\$1,950 SEE PLAN B&B FULLY BRANCHED HEADS \$325/\$2,600 30" OC CONT \$50/\$900 30" OC CONT \$50/\$4,900 30" OC B&B \$75/\$11,775 30" OC CONT \$50/\$2,400 B&B \$75/\$1,200 \$75/\$3,600 B&B 30" OC CONT \$30/\$1,080 30" OC CONT \$30/\$1,620 30" OC CONT \$15/\$1,200 \$4/23,112 \$65/\$156 \$15,000 TOTAL COST \$95,693.00



LOCATION MAP

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. OVERSPRAY ONTO CITY ROADS OR PATHWAYS IS PROHIBITED.

KEY LEGEND

- (1) TYPICAL SEED LAWN AREAS, SOWN ON 3" TOPSOIL
- (2) RESTORE DISTURBED AREAS W/ ECO-TURF LOW MAINTENANCE MIX
- (3) 4' DIA SPADE CUT EDGE W/ 3" SHREDDED BARK MULCH
- (4) 4" DEPTH DOUBLE SHREDDED HARDWOOD BARK MULCH
- 5 PUBLIC PLAZA W/ 24" SEATWALL AND BIKE REPAIR STATION
- (6) 5' LONG GROUND MOUNT PARK BENCH, 4 TOTAL
- (7) RETAINING WALL W/ 36" WALL ABOVE PARKING LOT GRADE

ECO-TURF LOW MAINTENANCE

ALL LAWN AREAS DESIGNATED TO BE SEEDED SHALL BE DONE SO

WITH LOW-GROW LAWN SEED MIX, AT A RATE OF 7 LBS/1,000 S.F

* MIX IS COMPRISED OF A MIX OF FIVE (5) FESCUE VARIETIES

JRMFD2023-0004 PSP2024-0008 Revision #2

FESCUE MIX:

SEED AVAILABLE FROM:

(T) 1-517-647-6010

MICHIGAN WILDFLOWER FARM

SUITABLE FOR SUN/SHADE

(8) SNOW PILING AREA TO BE COORDINATED WITH SNOW REMOVAL CONTRACTOR

ieet andscape Plan
indscape i lan
Know what's below Call before you dig.
VISIONS
24/24 SPA
15/24 SPA
06/24 REVISED PER CITY
13/25 SPA REV #2
RAWN BY:
Ostrowski

30 15 0 NFE JOB NO. K176-01	15 SI	30 HEET NO	45
SCALE: $1'' = 30'$			
DATE: January 9, 2024			
APPROVED BY: G. Ostrowski			
designed by: G. Ostrowski			
drawn by: G. Ostrowski			
DRAWN BY:			

Care of: Krieger Klatt Architects Contact: Mr. Jeff Klatt, AIA Phone: (248) 414-9270 Email: Jeff@kriegerklatt.con

SEAL

PROJECT

CLIENT

Old Orion Court

Development

Mark Bismack

5319 23 Mile Road

Shelby Township, MI 48306

PROJECT LOCATION Part of the SE $\frac{1}{4}$ of Section 3 T. 3N., R. 11E. City of Rochester Hills, Oakland County, Michigan

ENGINEERS

CIVIL ENGINEERS

LAND SURVEYORS

LAND PLANNERS

NOWAK & FRAUS ENGINEERS

46777 WOODWARD AVE.

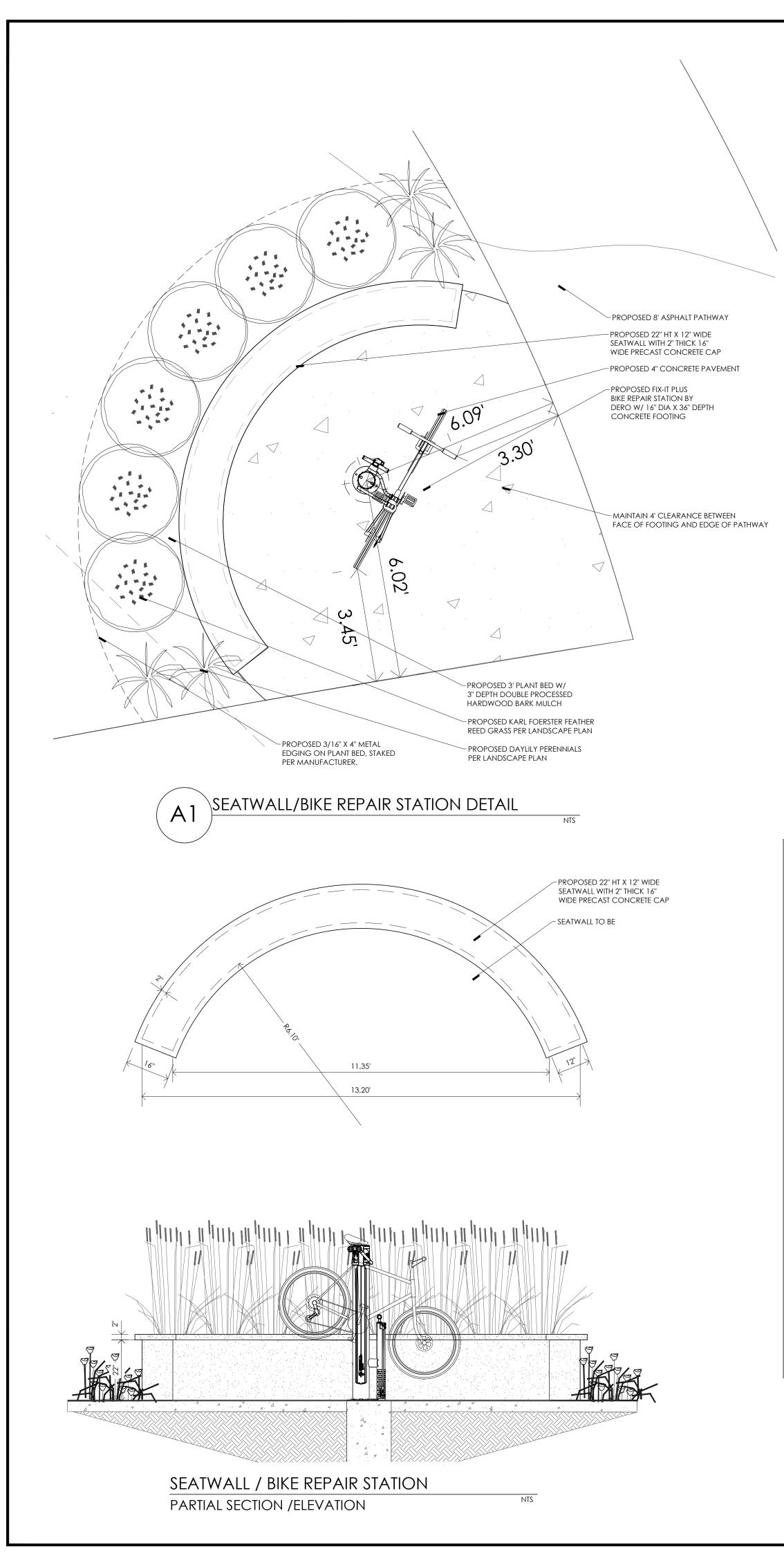
PONTIAC, MI 48342-5032 TEL. (248) 332-7931

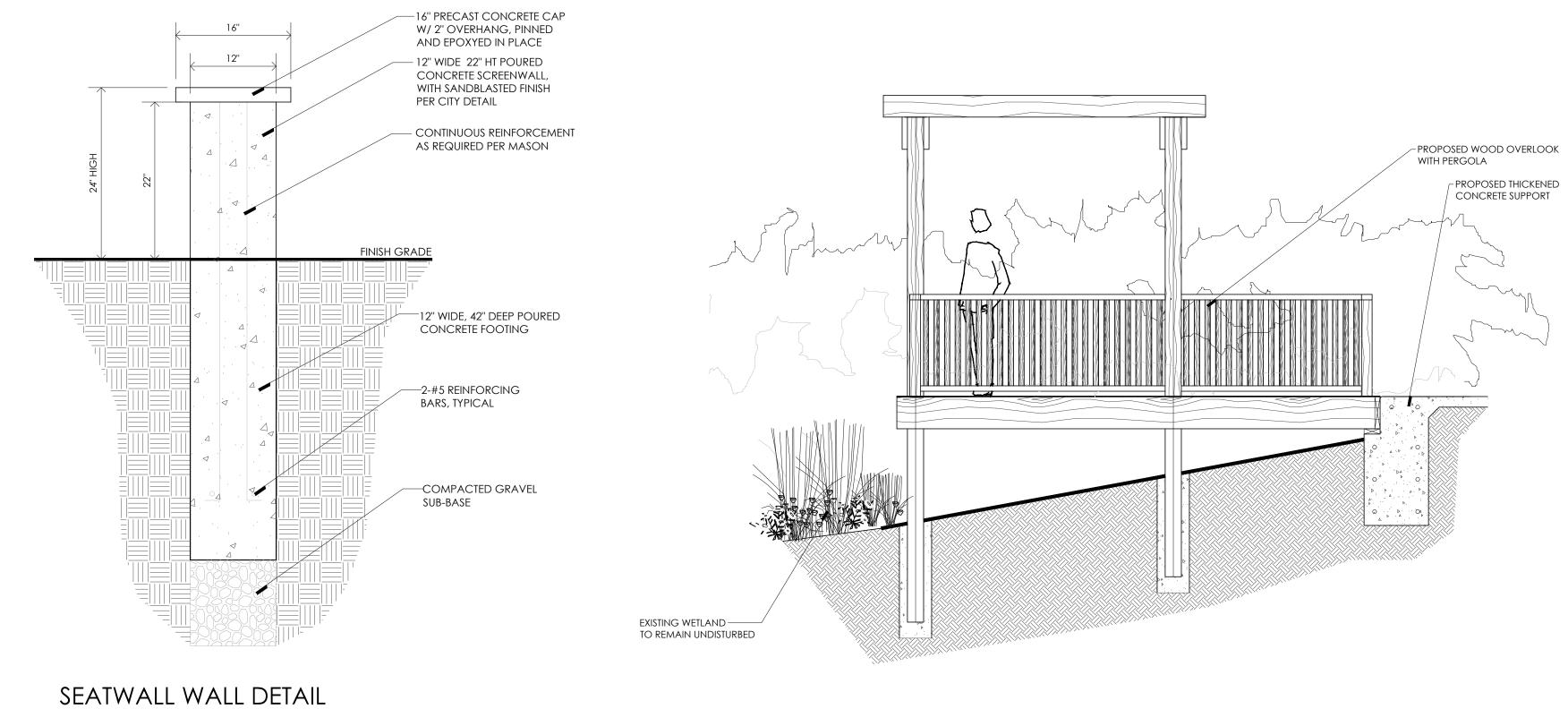
FAX. (248) 332-8257

SHEET

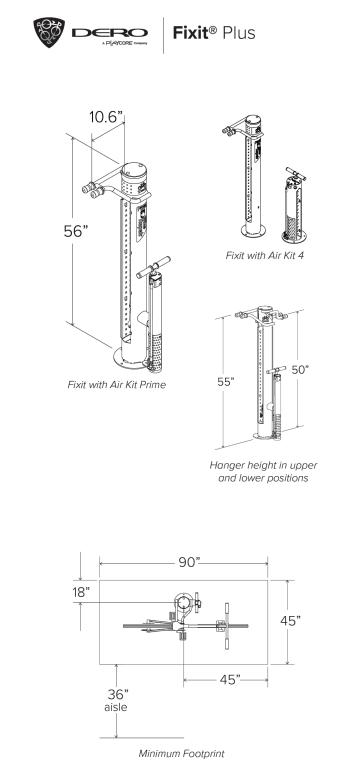
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04/ 07/ 11/0 01/

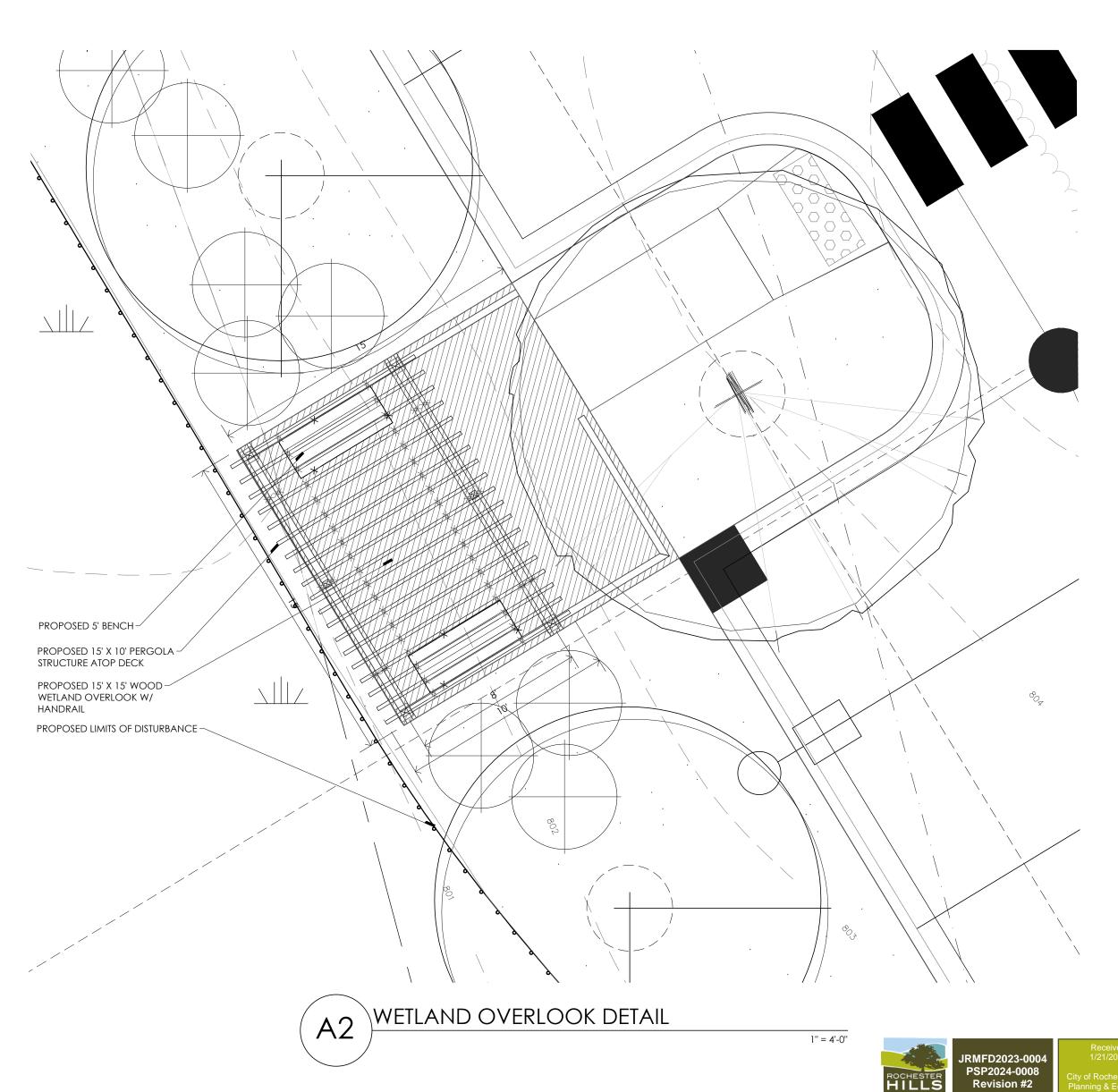




NTS



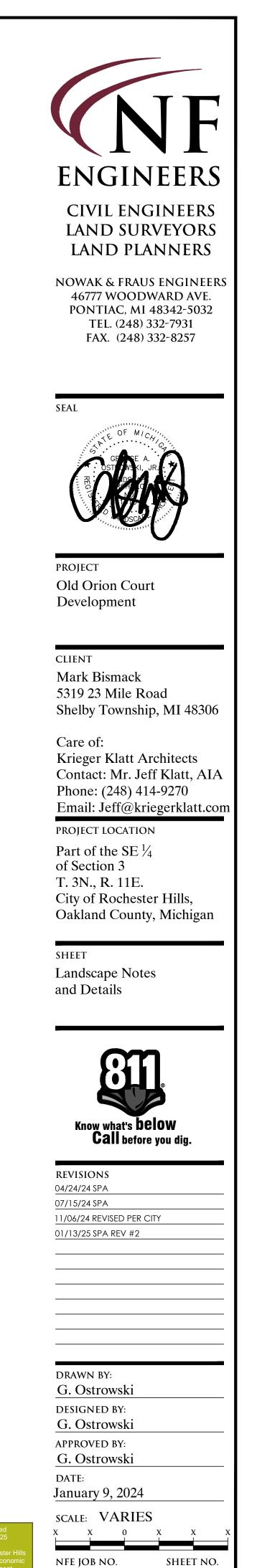
FIX-IT PLUS BIKE REPAIR STATION DERO BIKE RACKS, 888-337-6729



WETLAND OVERLOOK SECTION

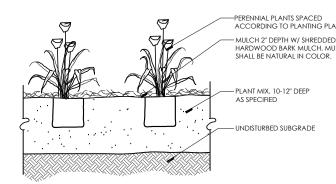
NTS

ROCHESTER HILLS

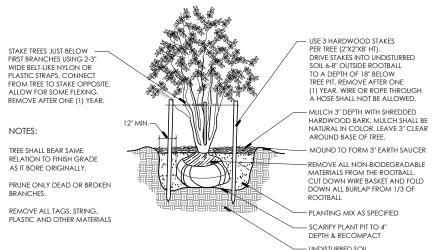


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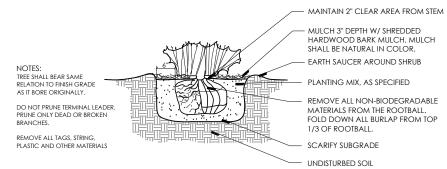
L3



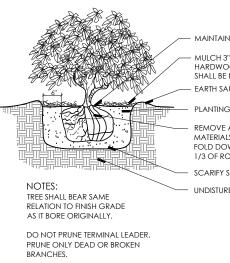
PERENNIAL PLANTING DETAIL



MULTI-STEM TREE PLANTING DETAIL



HEDGE PLANTING DETAIL



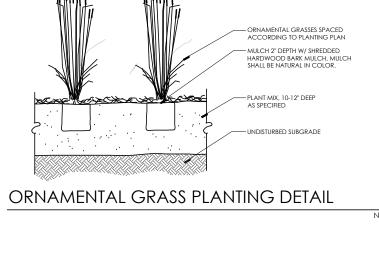
MAINTAIN 2" CLEAR AREA FROM STEM MULCH 3" DEPTH W/ SHREDDED HARDWOOD BARK MULCH. MULCH SHALL BE NATURAL IN COLOR. EARTH SAUCER AROUND SHRUB PLANTING MIX, AS SPECIFIED REMOVE ALL NON-BIODEGRADABLE MATERIALS FROM THE ROOTBALL FOLD DOWN ALL BURLAP FROM TOP 1/3 OF ROOTBALL. SCARIFY SUBGRADE UNDISTURBED SOIL

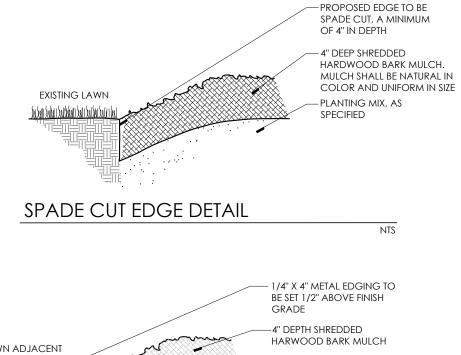
DIL 6-8" OUTSIDE ROOTBA A DEPTH OF 18" BELOW EE PIT. REMOVE AFTER ONE

ULCH 3" DEPTH WITH SHREDDED

REMOVE ALL TAGS, STRING, PLASTIC AND OTHER MATERIALS

SHRUB PLANTING DETAIL DECIDUOUS SHRUB





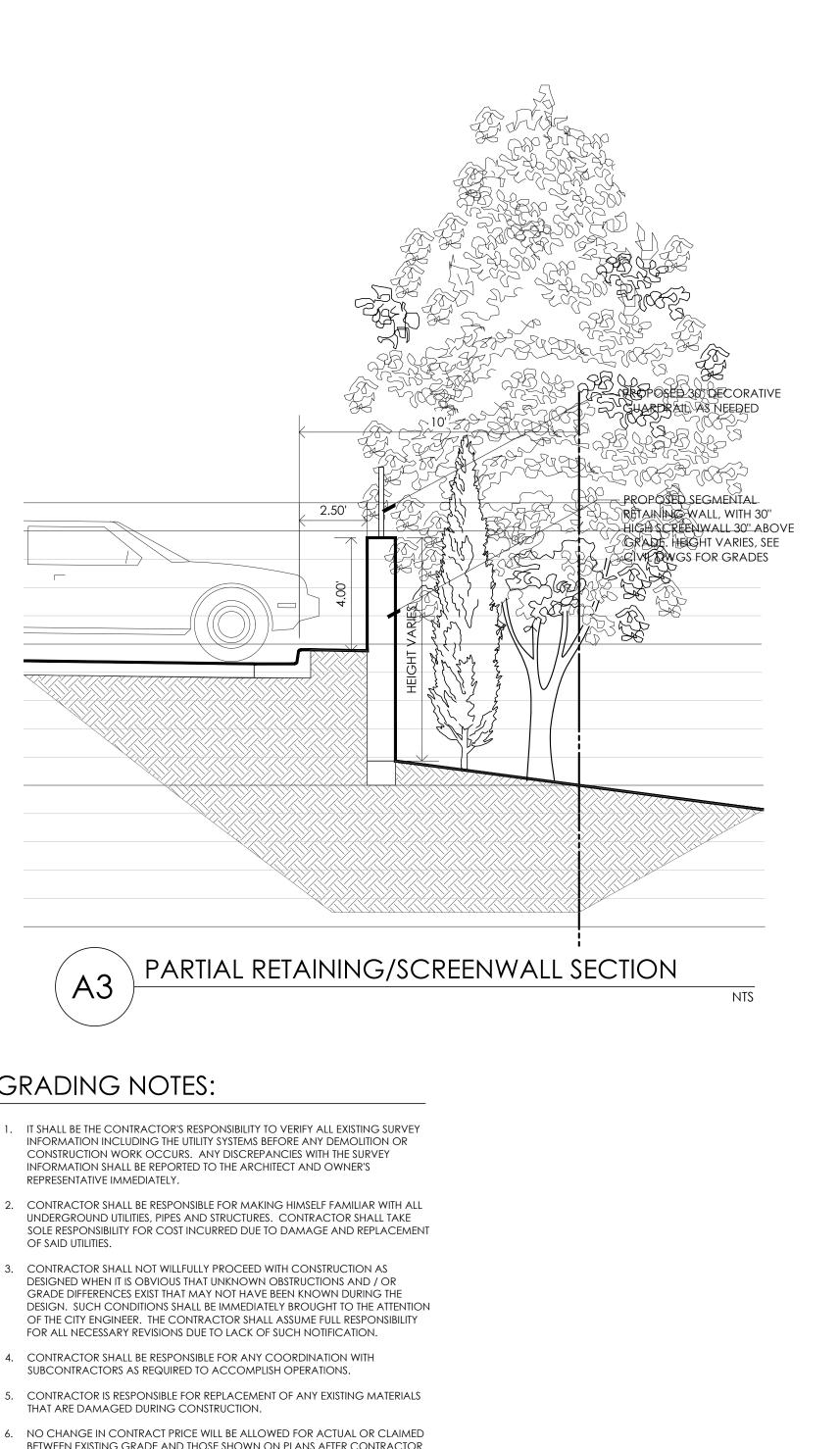
LAWN ADJACENT TO PLANT BED LANTING MI <u>de lati kake hatidari kari katikati kati</u> AS SPECIFIED -4" DEPTH X 9" WIDE EXCAVATED TRENCH TO BE BACKFILLED WITH MULCH -18" GALVANIZED METAL STAKE SPACED PER MANUFACTURERS SPECIFICATIONS METAL EDGING DETAIL

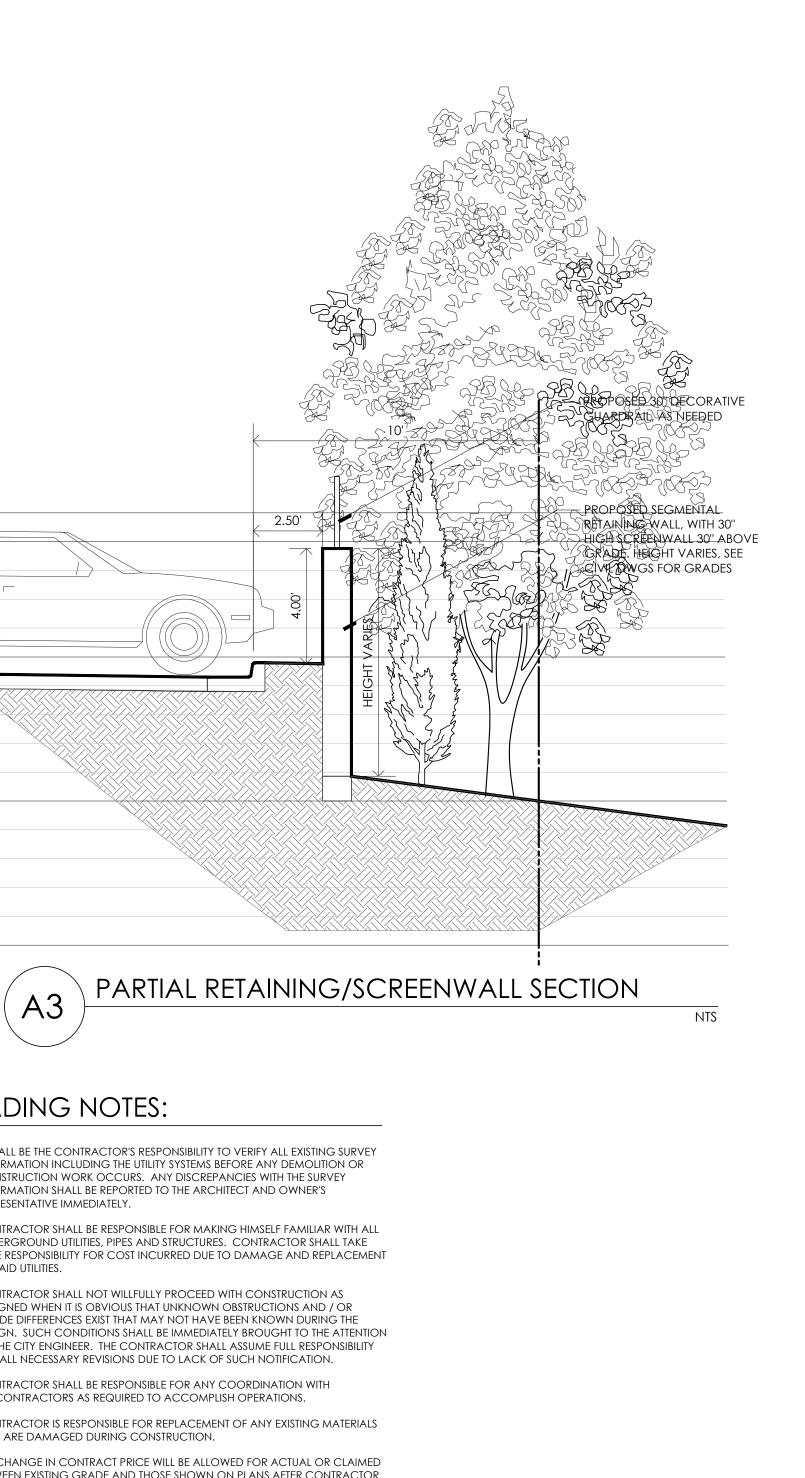
PLANTING NOTES:

- 1. THE CONTRACTOR SHALL VERIFY ALL RIGHTS OF WAY, EASEMENTS, PROPERTY LINES AND LIMITS OF WORK, ETC. PRIOR TO COMMENCING WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL PERTINENT UTILITY COMPANIES 72 HOURS IN ADVANCE OF ANY DIGGING TO MAKE HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
- 3. THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- 4. ANY DISCREPANCIES BETWEEN DIMENSIONED LAYOUT AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT. FAILURE TO MAKE SUCH DISCREPANCIES KNOWN WILL RESULT IN CONTRACTOR'S RESPONSIBILITY AND LIABILITY FOR ANY CHANGES AND ASSOCIATED COST.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH CONSTRUCTION INSTALLATION OPERATIONS.
- 6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN POSITIVE SURFACE DRAINAGE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, AND OR OWNER'S REPRESENTATIVE
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
- 8. SEE SPECIFICATIONS, PLANT LIST AND PLANTING DETAILS FOR PLANTING REQUIREMENTS, MATERIALS AND EXECUTION.
- 9. ALL TREES TO HAVE CLAY LOAM OR CLAY BALLS TREES WITH SAND BALLS SHALL NOT BE ACCEPTED.
- 10. ALL TREES TO BE APPROVED BY OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO THE SITE. ANY TREES DELIVERED TO THE SITE NOT PREVIOUSLY APPROVED MAY BE REJECTED AND ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 11. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- 12. THE CONTRACTOR TO VERIFY PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL.
- 13. THE CONTRACTOR SHALL PLACE 3" DEPTH OF SHREDDED BARK MULCH IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED.

DEMOLITION NOTES:

- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SURVEY INFORMATION INCLUDING THE UTILITY SYSTEMS BEFORE ANY DEMOLITION OR CONSTRUCTION WORK OCCURS. ANY DISCREPANCIES WITH THE SURVEY INFORMATION SHALL BE REPORTED TO THE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
- 3. ALL EXISTING IMPROVEMENTS, MATERIALS AND PLANT MATERIAL TO REMAIN WITHIN THE NEW CONSTRUCTION AREA SHALL BE PROPERLY AND ADEQUATELY PROTECTED FROM DAMAGE DURING THE DEMOLITION OPERATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE TO THE ORIGINAL CONDITION ANY OF THESE EXISTING ITEMS THAT ARE DAMAGED OR DISTURBED IN ANY WAY.
- 4. ALL MATERIALS TO BE REUSED OR SALVAGED SHALL BE STORED IN AN AREA DESIGNATED BY THE CITY ENGINEER FOR THAT PURPOSE. ALL SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE CITY ENGINEER.
- 5. STREETS, SIDEWALKS AND ADJACENT PROPERTIES SHALL BE PROTECTED THROUGHOUT THE WORK AS REQUIRED BY LOCAL CODES AND REGULATIONS AND APPROVED BY THE OWNER.
- 6. ALL MATERIAL SPECIFIED TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE PER LOCAL CODES AND REGULATIONS. CONTRACTOR SHALL COORDINATE METHOD OF DISPOSAL WITH CITY ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- 7. MATERIALS TO BE REUSED OR SALVAGED SHALL BE STORED IN AN AREA DESIGNATED BY THE OWNERS REPRESENTATIVE FOR THAT PURPOSE. ALL SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER.
- 8. DURING DEMOLITION OPERATIONS EVERY EFFORT SHALL BE MADE TO CONTROL DUST, PER CITY REQUIREMENTS.
- 9. TREES AND SHRUBS TO BE REMOVED WITHIN THE LIMITS OF WORK SHALL BE CLEARLY IDENTIFIED WITH BRIGHTLY COLORED RIBBON.
- 10. GRUBBING SHALL INCLUDE ALL WEEDS, SHRUBS, STUMPS AND ROOT SYSTEMS OF REMOVED PLANT MATERIAL, IRRIGATION PIPING AND ANY OTHER IRRIGATION MATERIALS WITHIN THE LIMITS OF DEMOLITION. GRUBBING SHALL BE TO THE DEPTHS BELOW PROPOSED IMPROVEMENTS INDICATED AS FOLLOWS: CONCRETE PAVING AND WALKWAYS-TOTAL DEPTH OF PAVING AND SUB-BASE; ASPHALT PAVING-TOTAL DEPTH OF PAVING AND SUB-BASE; LAWN AND OTHER PLANTINGS AREAS-REMOVE DEPTH REQUIRED OF STUMPS AND ROOTS OVER TWO (2) INCHES IN DIAMETER AND TURF.
- 11. PROTECT EXISTING TREES TO REMAIN PER TYPICAL TREE PROTECTION DETAIL.
- 12. STOCKPILED TOPSOIL SHALL BE STORED ON SITE AND REMAIN PROTECTED FROM CONTAMINATION PRIOR TO REDISTRIBUTION.
- 13. SAWCUT AND REMOVE EXISTING ASPHALT AS REQUIRED TO INSTALL NEW SITE IMPROVEMENTS AND ADJUST GRADES WITHIN CITY STREETS. ALL WORK WITHIN CITY RIGHT OF WAY SHALL MEET CITY STANDARDS AND SPECIFICATIONS.
- 14. ARRANGE FOR APPLICABLE UTILITY COMPANY TO RELOCATE EXISTING CABLES, WIRES, PHONE LINES, ETC. ALONG WITH EDISON POWER LINES AS REQUIRED.
- 15. CONTRACTOR SHALL SECURE AND PAY FOR ALL APPLICABLE PERMITS AND FEES NECESSARY FOR THE COMPLETE CONSTRUCTION OF THE PROJECT.





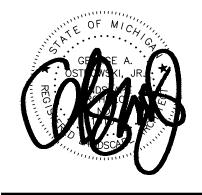
GRADING NOTES:

- REPRESENTATIVE IMMEDIATELY.
- OF SAID UTILITIES.
- SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
- BETWEEN EXISTING GRADE AND THOSE SHOWN ON PLANS AFTER CONTRACTOR HAS ACCEPTED EXISTING GRADES AND MOVED ON TO THE SITE.
- 7. ALL PROPOSED GRADES ARE TO MEET AND BLEND IN WITH THE EXISTING GRADE AT PROJECT LIMIT. PRECISE ELEVATIONS INDICATED ON THE PLANS TO BE VERIFIED IN FIELD TO AS-BUILT CONDITION.
- ALL GRADING AND PLACEMENT OF DRAINAGE STRUCTURES TO BE SUPERVISED IN THE FIELD BY THE OWNER'S REPRESENTATIVE. 9. INSTALL 3" DEPTH TOPSOIL OVER ALL DISTURBED LAWN AREAS.
- 10. SEED ALL PROPOSED OR DISTURBED LAWN AREAS.



NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257

SEAL



PROJECT Old Orion Court Development

CLIENT Mark Bismack 5319 23 Mile Road Shelby Township, MI 48306

Care of: Krieger Klatt Architects Contact: Mr. Jeff Klatt, AIA Phone: (248) 414-9270 Email: Jeff@kriegerklatt.con PROJECT LOCATION

Part of the SE $\frac{1}{4}$ of Section 3 T. 3N., R. 11E. City of Rochester Hills, Oakland County, Michigan

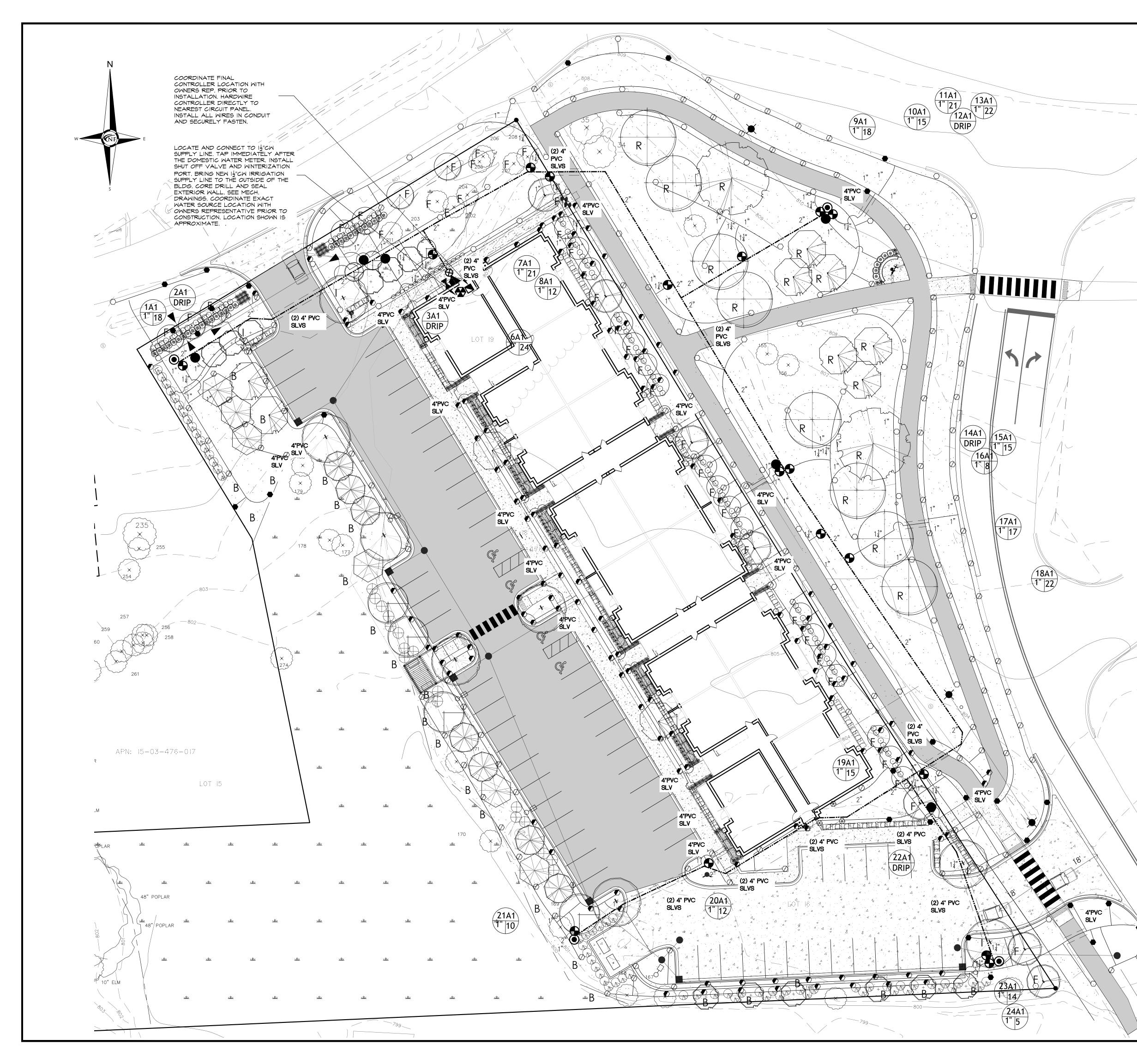
SHEET Landscape Notes and Details

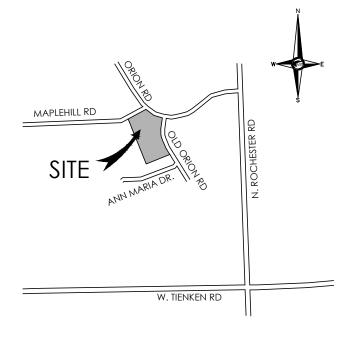


Call before you dig.

REVISIONS
04/24/24 SPA
07/15/24 SPA
11/06/24 REVISED PER CITY
01/13/25 SPA REV #2
DRAWN BY:
G. Ostrowski
DESIGNED BY:
G. Ostrowski
APPROVED BY:
G. Ostrowski
DATE:
January 9, 2024
SCALE: VARIES
X X O X X
NFE JOB NO. SHEET NO.
K176-01 L4







LOCATION MAP

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. OVERSPRAY ONTO CITY ROADS OR PATHWAYS IS PROHIBITED.



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SHEET Irrigation Plan



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

REVISIONS 01/13/2025 SPA REV #2

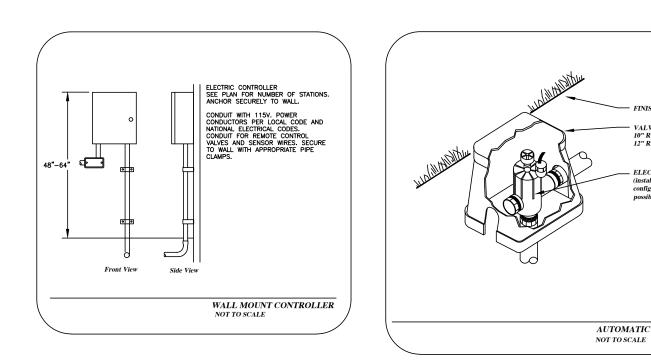


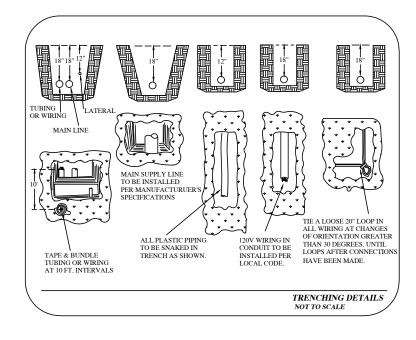


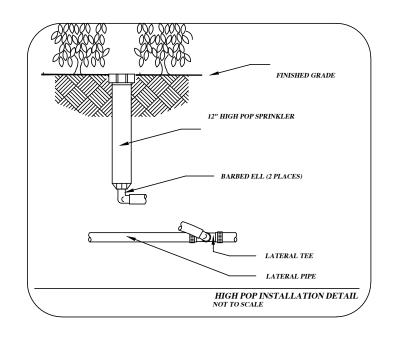
WATER MANAGEMENT

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

DRAWN BY:			
AJB			
DESIGNED BY:			
AJB			
APPROVED BY:			
G. Ostrowski			
DATE:			
July 15, 2024			
SCALE: 1" = 30'			
30 15 0	15	30	45
NFE JOB NO.	S	HEET N	О.
K176-01		IR1	







Decoder (4 Valve) (In Valve Box)

> Control cable (Two Wire) (Red/White)

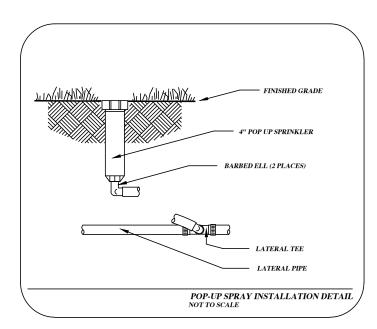
Hot Wire (Solid)

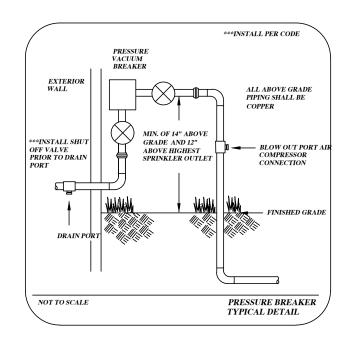
Lateral Line Pipe

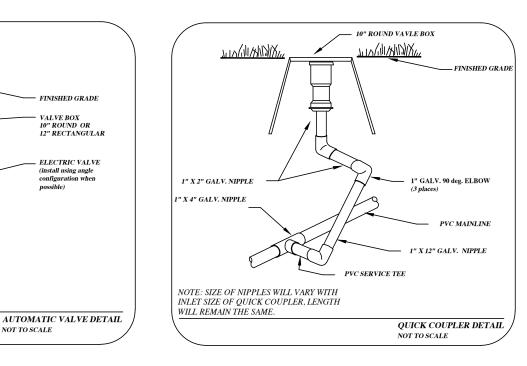
IRRIGATION VALVE

IRRIGATION VALVE

IRRIGAT VALVE







NOTES:

- 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 DBY-6 splice kits. 4. All control wiring downstream of the controller shall be Hunter IDWIRE communication cable -
- approved for direct bury. 5. All 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
- approval. 7. All sprinkler heads shall be mounted on 2 elbow poly swing joints as specified. 8. Contractor to verify final controller location with owner's authorized representative prior to
- installation. 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. Locate and connect to indicated water source. All pipe installed above grade shall be copper type "M".
- 12. 120v power to the controller locations should be provided others. Coordinate with owner's representative. Hardwire controller directly to nearest circuit panel. Place all wires in conduit per code.
- 13. Design pressure does not take into account seasonal supply fluctuations. Periods of drought may cause temporary pressure losses to the city water supply resulting in inadequate irrigation system performance. Irrigation design is based on normal weather conditions and typical municipal water supply abilities.
- 14. Irrigation contractor shall be responsible for determining and maintaining the irrigation schedule during the project construction and throughout the length of the warranty period. 15. The irrigation schedule shall deliver 1" of precipitation per week +/- natural rainfall quantities for turf grass.
- 16. Landscape material shall receive adjusted amounts of precipitation to maintain proper plant health.
- 17. Landscape and turf grass shall be irrigated separately. 18. Rotors and spray zones may not be combined to operate at the same time.
- 19. When specified, follow manufacturer's product recommendations concerning proper installation of water flow sensors. Allow proper straight pipe distances before and after flow sensors.

DRIP IRRIGATION LEGEND:

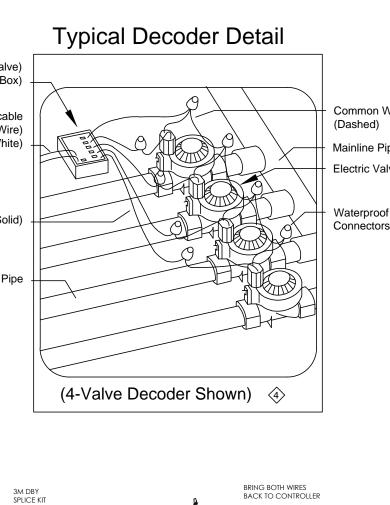
LOW VOLUME CONTROL ZONE

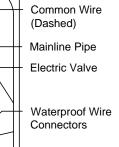
(AV) AIR RELIEF VALVE (FV) LINE FLUSHING VALVE

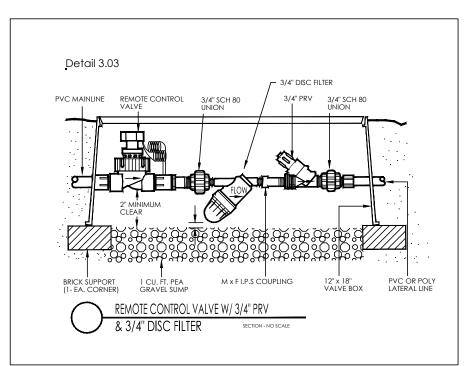
TLAVRV TL050MFV-1 TLCV4-12

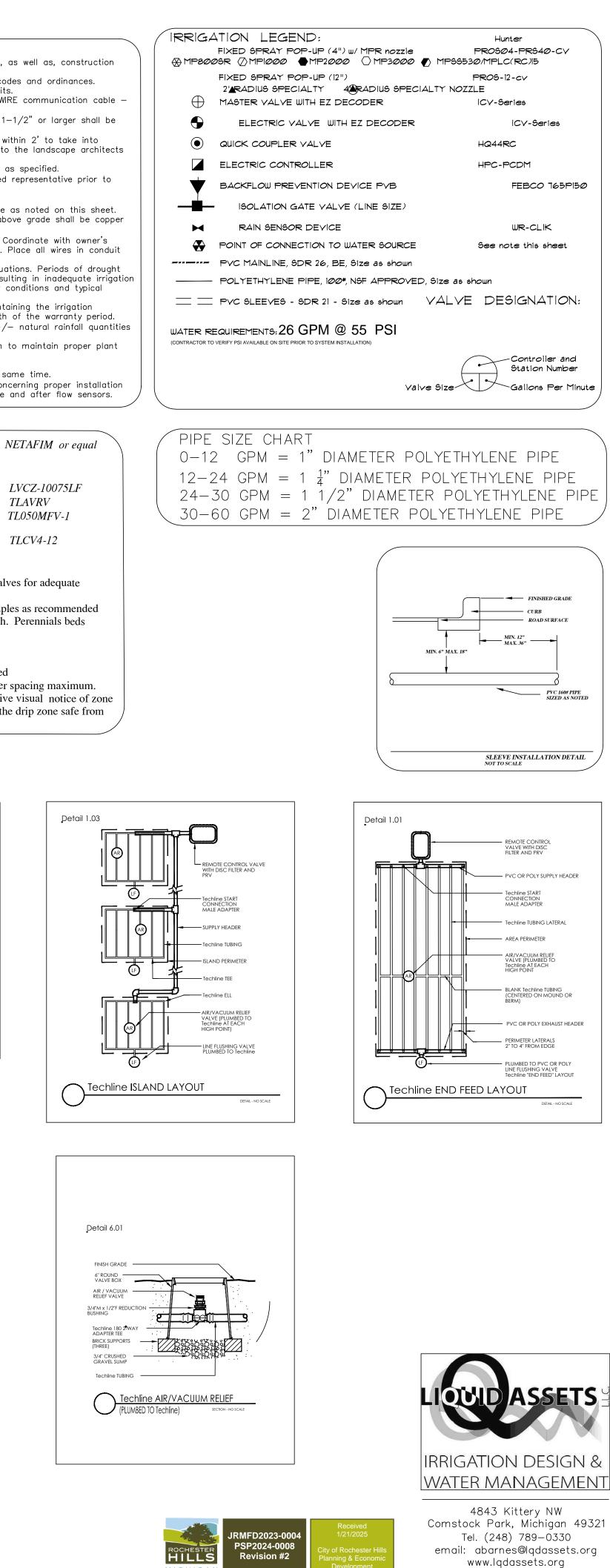
——— DRIPPERLINE Lanscape zones 12" row spacing **NOTES:**

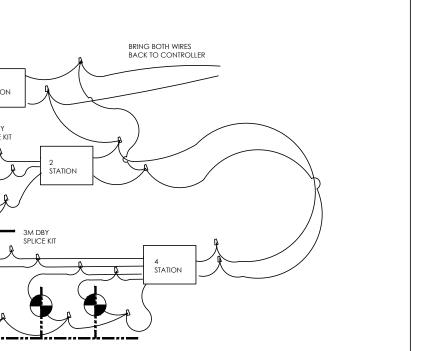
- 1. Install 12"x12"x12" sump of pea gravel below all line flushing valves for adequate drainage.
- 2. Install techline above grade in the shrub beds and use techline staples as recommended within the specifications. Shrub beds cover techline with 3" mulch. Perennials beds cover techline with 1-1/2'' mulch.
- 3. Do not snake tubing back and forth in planting beds.
- 4. Place tubing on each side of hedges and grass plant types.
- 5. Begin and end each row of tubing at a PVC header pipe as detailed
- 6. Perenials and groundcover place tubing in rows with 12" on center spacing maximum.
- 7. Install a zone indicator flag or pop up stem on each dripzone to give visual notice of zone operation. Install flag/stem in an inconspicuous location within the drip zone safe from vandals.







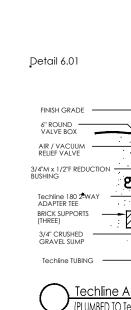




SAMPLE DECODER WIRING DIAGRAM

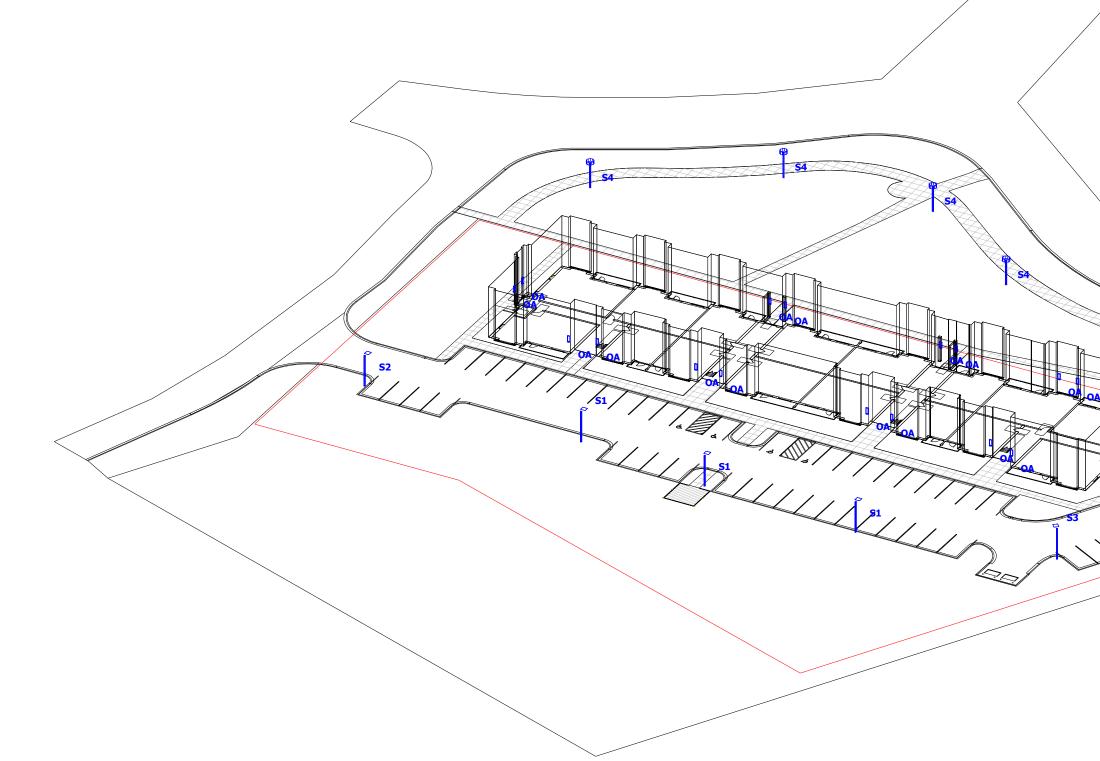
Detail 7.04 LINE FLUSHING VALVE #F-TLFV-1 COMPRESSION RING - BLANK TL (TYP.) Techline LATERAL (OR EXHAUST HEADER)
 Techline TEE VALVE BOX (INSTALL PER SPECS) Techline SHUT-OFF VALVE #TLSOV (BLANK TUBING MAY BE ATTACHED TO OUTLET) - 3/4" GRAVEL SUMF (1 CUBIC FOOT) BRICK SUPPORTS (THREE)
 Techline LINE FLUSHING VALVE

 W/ SHUT-OFF VALVE

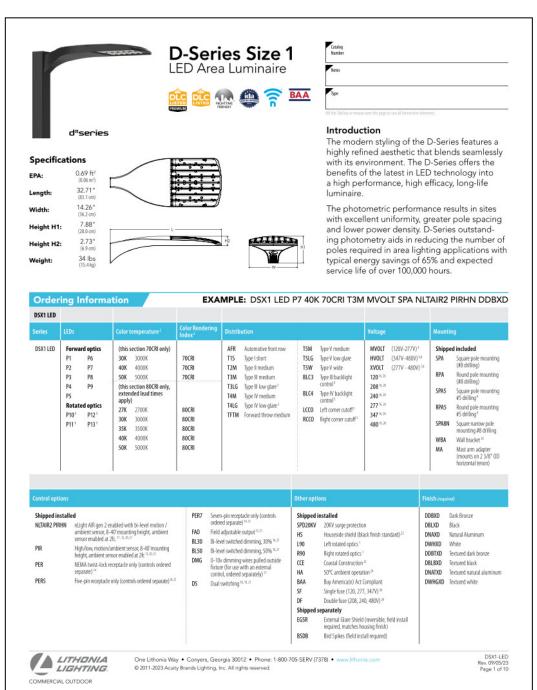


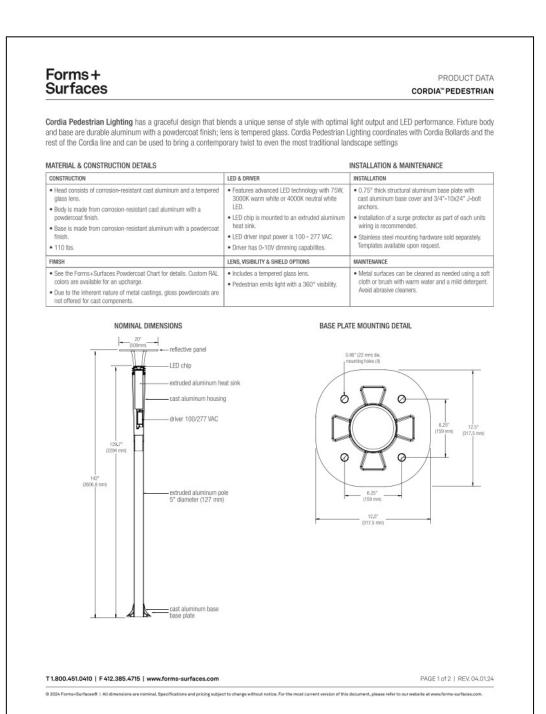
ENGINEERS
CIVIL ENGINEERS Land Surveyors
LAND PLANNERS
NOWAK & FRAUS ENGINEERS 46777 Woodward Ave. Pontiac, mi 48342-5032
TEL. (248) 332-7931 FAX. (248) 332-8257
SEAL
GEFFEE A.
COST WS KI, JR.
PROJECT
Old Orion Court Development
CLIENT Mark Bismack
5319 23 Mile Road Shelby Township, MI 48306
Care of: Krieger Klatt Architects
Contact: Mr. Jeff Klatt, AIA Phone: (248) 414-9270
Email: Jeff@kriegerklatt.com PROJECT LOCATION
Part of the SE $\frac{1}{4}$ of Section 3
T. 3N., R. 11E. City of Rochester Hills,
Oakland County, Michigan
SHEET Irrigation Notes
and Details
Know what's below Call before you dig.
REVISIONS
01/13/2025 SPA REV #2
DRAWN BY: G. Ostrowski
DESIGNED BY: G. Ostrowski
APPROVED BY: G. Ostrowski
DATE: July 15, 2024
SCALE: VARIES
NFE JOB NO. SHEET NO.

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⁺ 0.00 ⁺ 0.00 ⁺ 0.00	Plan View Scale - 1" = 25ft



sh 1 K







Statistics				
Description	Symbol	Avg	Max	Min
Overall	+	0.39 fc	6.00 fc	0.00 fc
Parking Area	Ж	2.11 fc	5.79 fc	0.18 fc
Property Line	+	0.03 fc	0.35 fc	0.00 fc
Roadway Boundary	+	0.03 fc	0.11 fc	0.00 fc
Sidewalk	Ж	1.38 fc	5.75 fc	0.15 fc

Schedul Symbol	e Label	QTY	Manufacturer	Catalog	Description	LLF	Mounting
$\langle X \rangle$	OA	18	Brownlee Lighting Inc	7115-15-H08- 30K	Aluminum housing, frosted lens enclosure, 3000K	0.9	Height 6'
	S1	4	Lithonia Lighting	DSX1 LED 30K 70CRI	D-Series Size 1 Area Luminaire Performance Package 3000K CCT 70 CRI	0.9	15'
	S2	1	Lithonia Lighting	DSX1 LED 30K 70CRI	D-Series Size 1 Area Luminaire Performance Package 3000K CCT 70 CRI	0.9	15'
	S3	1	Lithonia Lighting	DSX1 LED 30K 70CRI	D-Series Size 1 Area Luminaire Performance Package 3000K CCT 70 CRI	0.9	15'
0	S4	5	FORMS AND SURFACES	CRT2011160915- -001,	POST TOP Pedestrian, 3000K, From City Gateway and Streetscape Master Plan.	0.9	12'

General Note 1. SEE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHT. 2. SEE LUMINAIRE SCHEDULE FOR LIGHT LOSS FACTOR.

3. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: 0' - 0" & 5' - 0"

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO REVIEW FOR MICHIGAN ENERGY CODE AND LIGHTING QUALITY COMPLIANCE.

UNLESS EXEMPT, PROJECT MUST COMPLY WITH LIGHTING CONTROLS REQUIRMENTS DEFINED IN ASHRAE 90.1 2013. FOR SPECIFIC INFORMATION CONTACT GBA CONTROLS GROUP AT ASG@GASSERBUSH.COM OR 734-266-6705.

Alternates Note

THE USE OF FIXTURE ALTERNATES MUST BE RESUBMITTED TO THE CITY FOR APPROVAL.

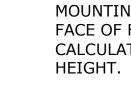
Ordering Note FOR INQUIRIES CONTACT GASSER BUSH AT QUOTES@GASSERBUSH.COM OR 734-266-6705.

Mounting Height Note



Drawing Note

THIS DRAWING WAS GENERATED FROM AN ELECTRONIC IMAGE FOR ESTIMATION PURPOSE ONLY. LAYOUT TO BE VERIFIED IN FIELD BY OTHERS.



MOUNTING HEIGHT IS MEASURED FROM GRADE TO FACE OF FIXTURE. POLE HEIGHT SHOULD BE CALCULATED AS THE MOUNTING HEIGHT LESS BASE

N/A	N/A
32.2:1	11.7:1
N/A	N/A
N/A	N/A

38.3:1

9.2:1

Max/Min	Avg/Min

-SQ		BROWNLI

FINISHES

BL BZ MB NT WH TB TG TW

ended for exterior facades, it also used in commercial interior

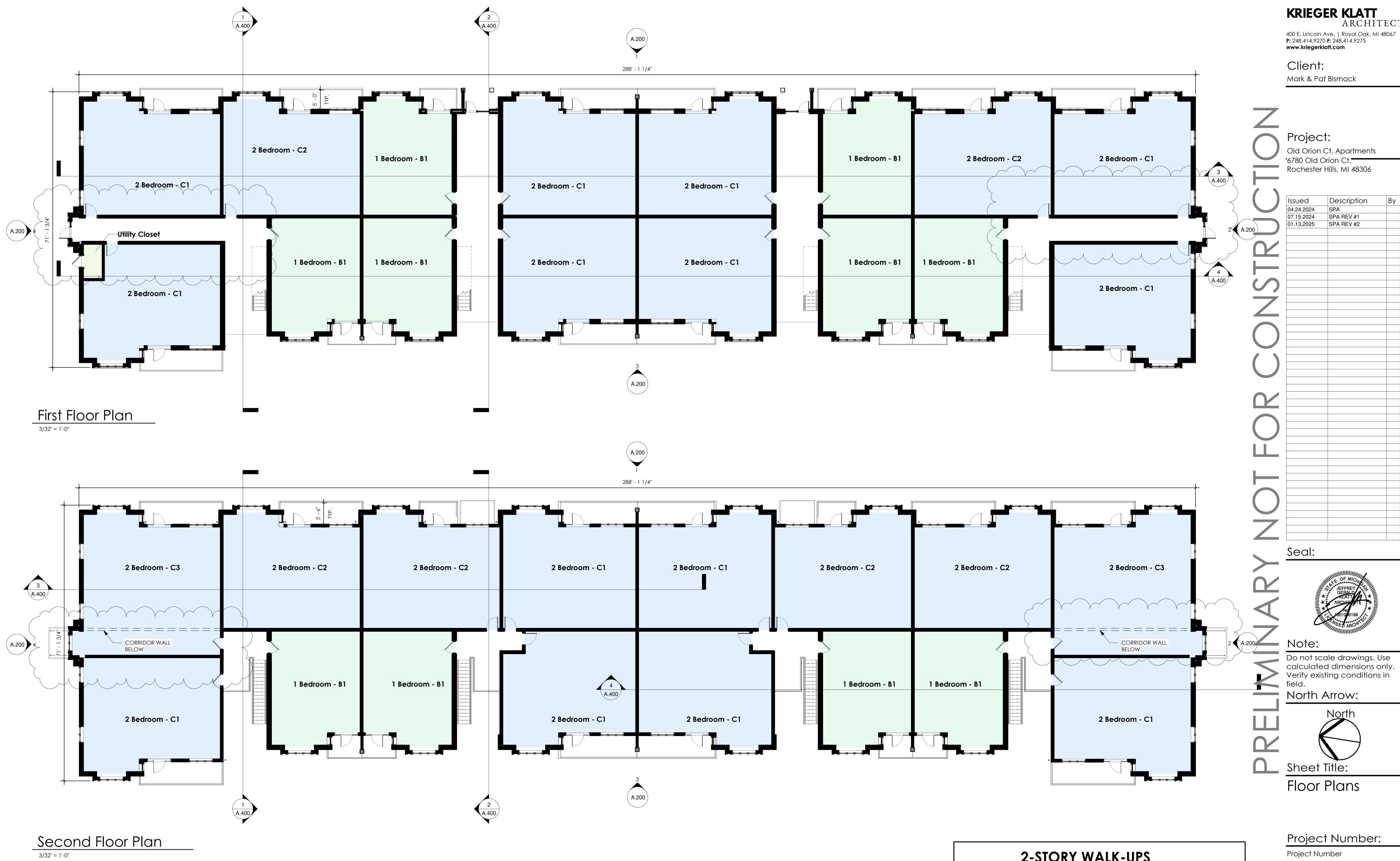
applications such as elevator lobbies, halloways, and meeting rooms. Heavy duty aluminum construction, uniformly illuminated frosted acrylic diffuser, stainless steel hardware, dedicated 120-277V LED components - all standard, CAPSULE is available in two form factors: ound (model #: 7110) and square (model #: 7115).

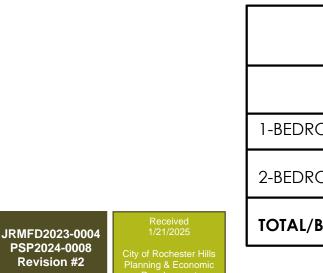
Page 1 of 2



.ION CT LAYOUT SSOCIATES USH.COM

Designer KS Date 01/15/2025 Scale Not to Scale Drawing No. #24-25819_V3





ROCHESTER

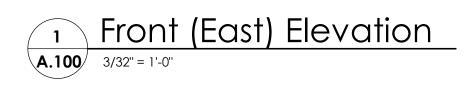


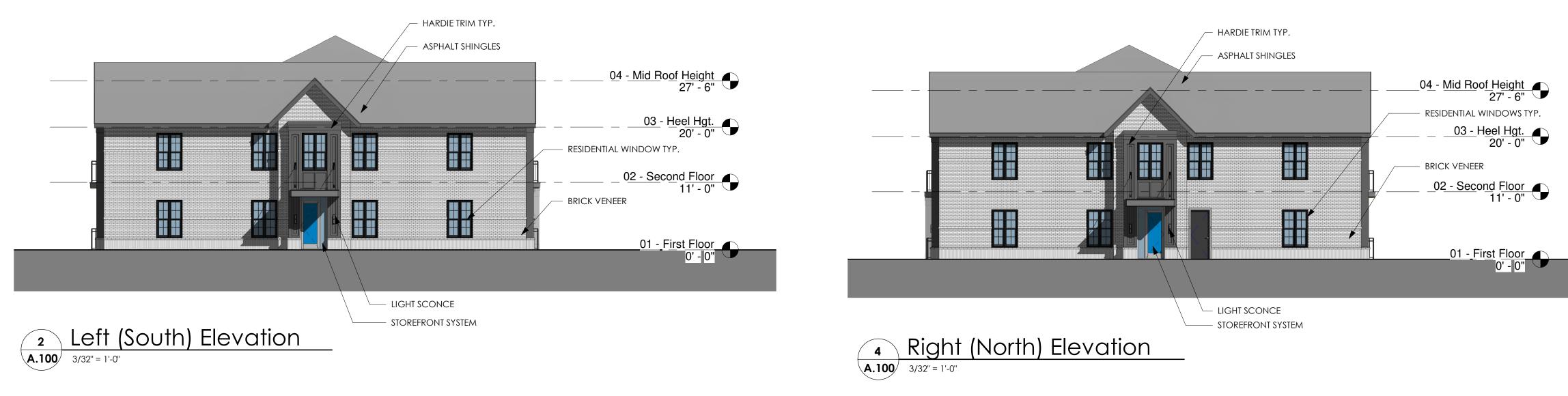
	2-STORY WALK-UPS					
	FIRST FLOOR	SECOND FLOOR	TOTAL	RATIO		
ROOM	6 UNITS	4 UNITS	10 UNITS	31 %		
ROOM	10 UNITS	12 UNITS	22 UNITS	69 %		
/BLDG	16 UNITS	16 UNITS	32 UNITS			

Issued	Description	Bγ
04.24.2024	SPA	
07.15.2024	SPA REV #1	
01.13.2025	SPA REV #2	
	1	

Scale: As indicated Sheet Number:







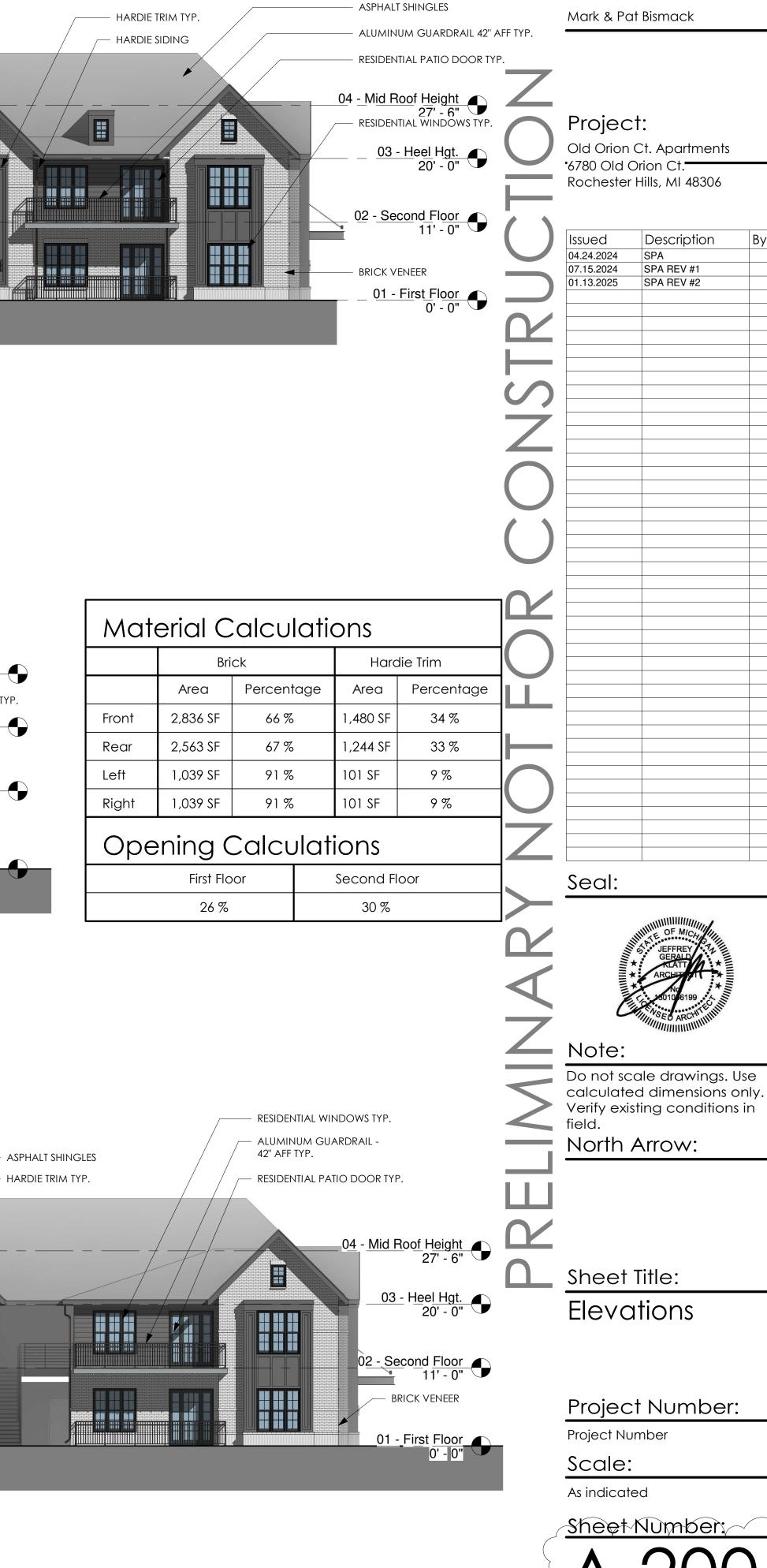


STOREFRONT SYSTEM

KRIEGER KLATT ARCHITECTS

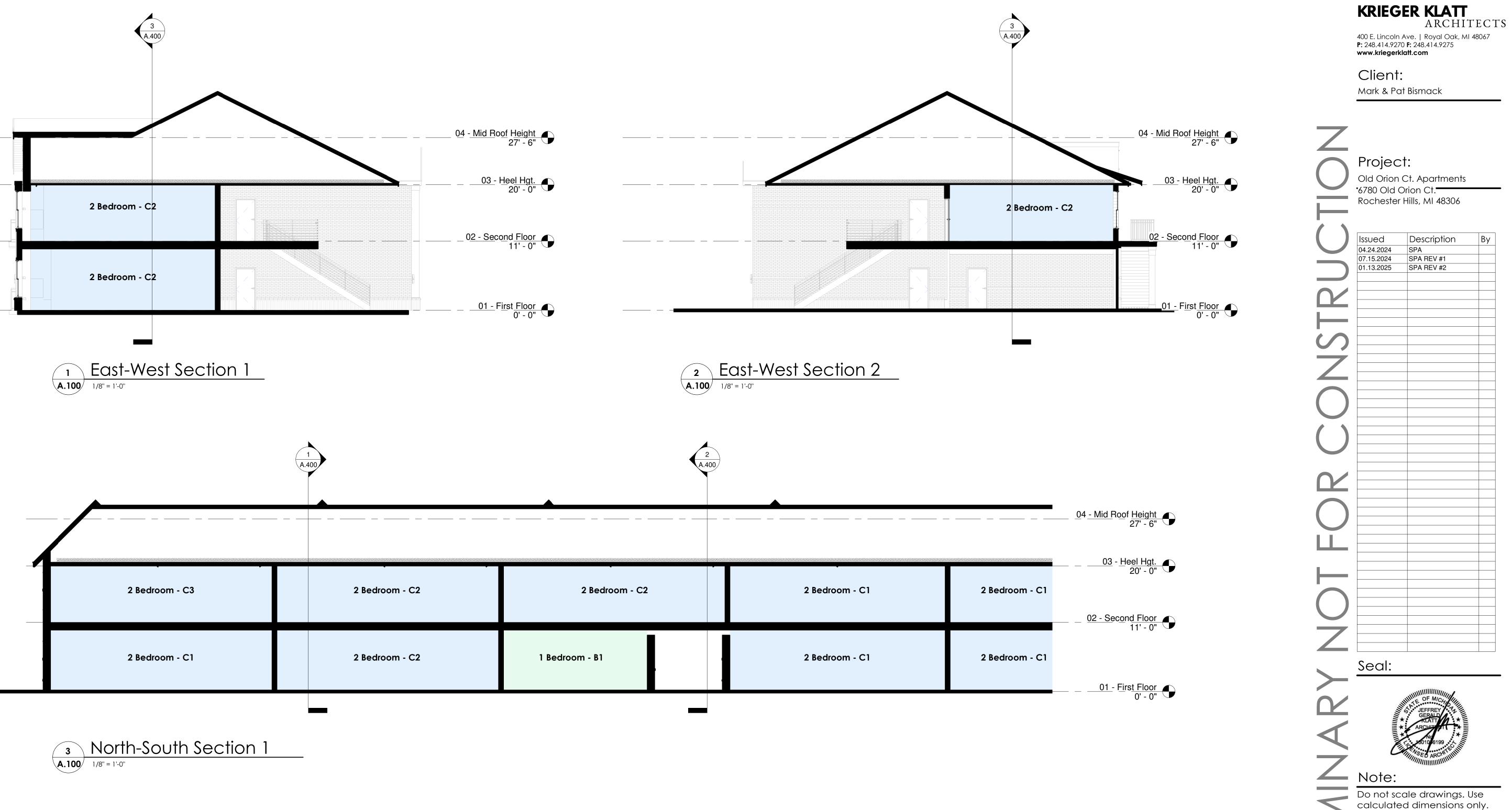
400 E. Lincoln Ave. | Royal Oak, MI 48067 **P:** 248.414.9270 **F:** 248.414.9275 www.kriegerklatt.com

Client:



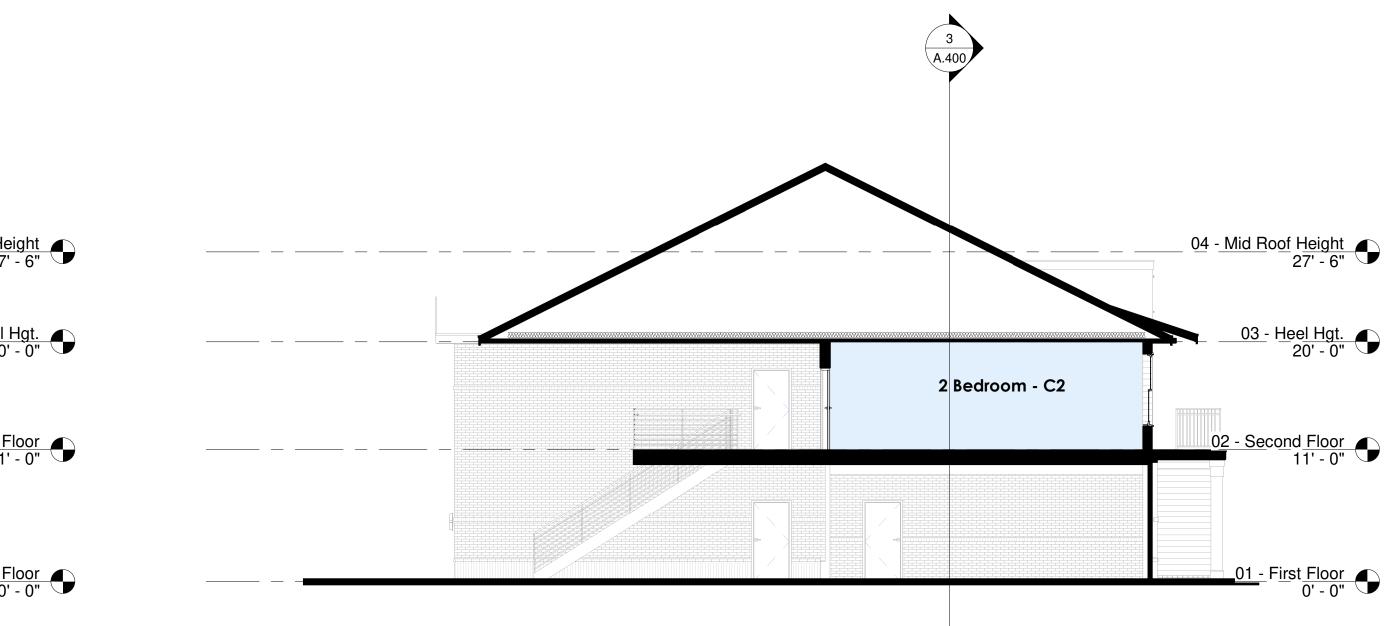
JRMFD2023-0004 PSP2024-0008 Revision #2

ROCHESTER HILLS

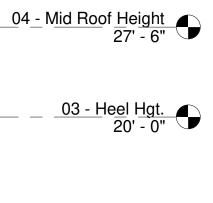


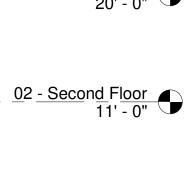


A North-South Section 2 **A.100** 1/8" = 1'-0"









<u>01 - First Floor</u> 0' - 0"





JRMFD2023-0004 PSP2024-0008 Revision #2

Issued	Description	E
04.24.2024	SPA .	
07.15.2024	SPA REV #1	
01.13.2025	SPA REV #2	



Do not scale drawings. Use calculated dimensions only. Verify existing conditions in field.

North Arrow:

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1/21/2025 y of Rochester I anning & Econo

Sheet Title: **Building Sections**

Project Number:

Project Number Scale:

1/8" = 1'-0"

Sheet Number:

