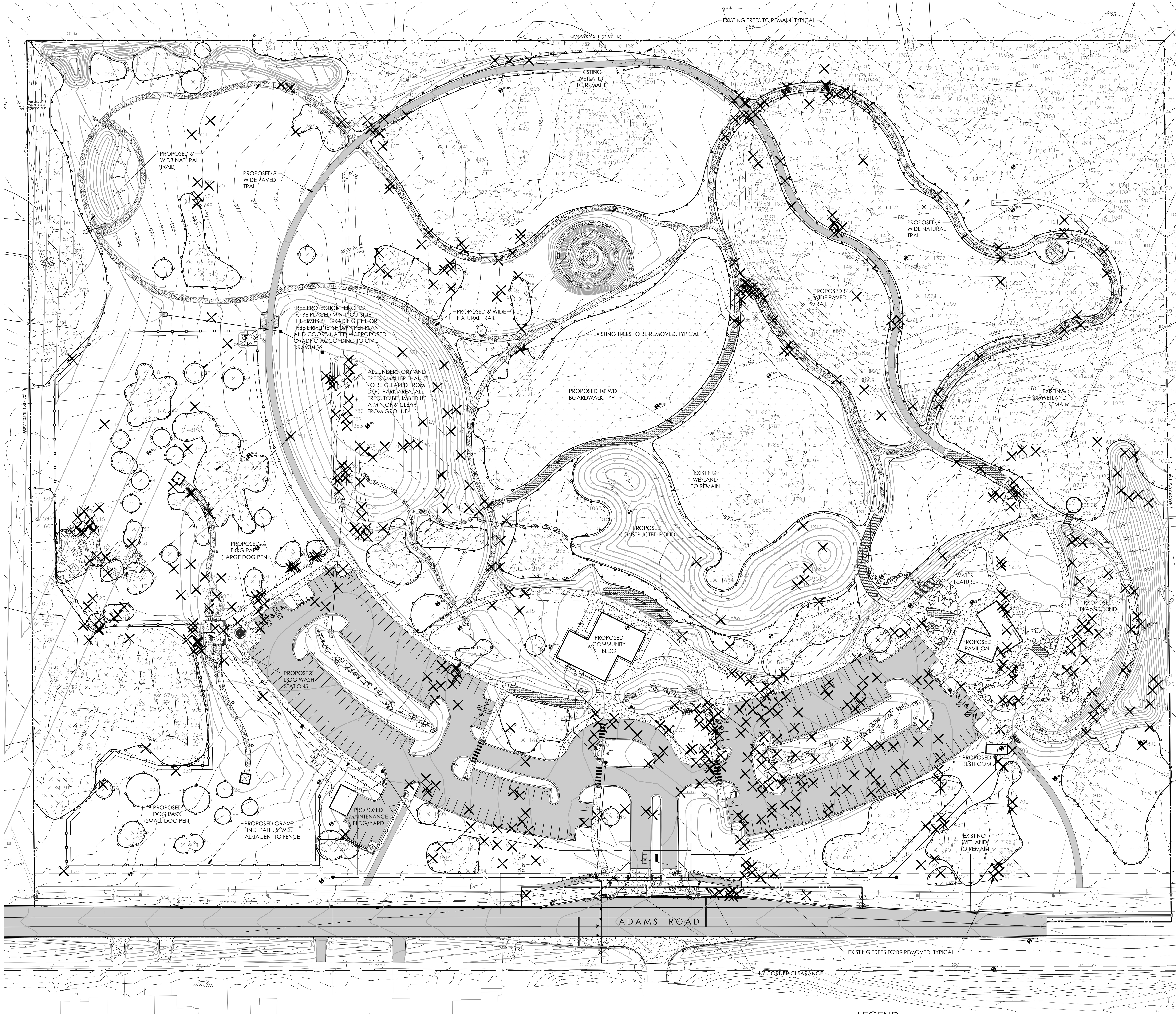


LOCATION KEY

L3 L5 L7
L2 L4 L6
ADAMS ROAD

N.T.S.

TREE PRESERVATION SUMMARY:

TOTAL NUMBER OF REGULATED TREES SURVEYED:	1,893	
LESS NUMBER OF OFF-SITE TREES:	11	
NET TREES ON-SITE:	1,882	
SPECIMEN TREES TO BE REMOVED:	22	(540.5" D.B.H)
REGULATED TREES TO BE REMOVED:	466	
EXEMPT TREES TO BE REMOVED:	77	
TOTAL TREES ON-SITE TO REMAIN:	1,317	= 69.98% OF TREES

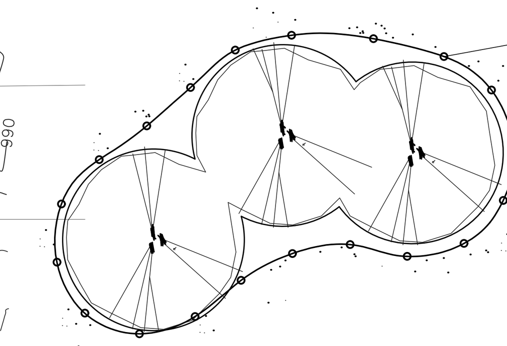
MINIMUM PRESERVATION REQUIREMENT

1,882 TREES - 1 IN BUILDING ENVELOPE = 1,881 x 40% =	752 TREES	NEED TO BE PRESERVED
	1,330 TREES	PROPOSED TO BE SAVED
SPECIMEN TREES TO REMAIN ON-SITE:	136	= 136 CREDITS
REGULATED TREES TO REMAIN ON-SITE:	1,077	
EXEMPT TREES TO REMAIN:	104	(ASH)
REQUIRED SPECIMEN TREE REPLACEMENTS: 540.5" x 50% = 270.25"	135 TREES	(2" CAL.)
REQUIRED REGULATED TREE REPLACEMENTS:	466 TREES	(2" CAL.)
TOTAL REQUIRED REPLACEMENT TREES:	601 TREES	
LESS CREDITS FROM PRESERVED SPECIMENS:	- 136 TREES	
TOTAL REPLACEMENT TREES REQUIRED:	465 TREES	(2" CAL.)

NOTE
A BLANKET TREE REMOVAL PERMIT FOR 550 TREES IS REQUESTED TO ACCOUNT FOR POTENTIAL CONFLICTS OR CHANGES DURING CONSTRUCTION. THE BLANKET REMOVAL WOULD RESULT IN 1,258 TREES TO REMAIN (66.84% OF THE TOTAL), WITH REPLACEMENT TREES TOTALING 527, AN ADDITIONAL 62 TREES ABOVE THE CURRENT REQUIRED AMOUNT.

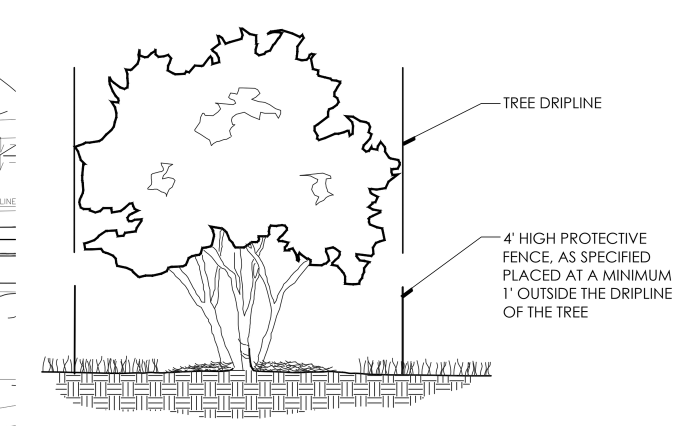
GENERAL TREE PROTECTION NOTES

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.
2. ALL UNDERSTORY VEGETATION WITHIN THE LIMITS OF PROTECTIVE FENCING SHALL BE PRESERVED.
3. 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 WITHIN THE DRIP LINE.
4. WHERE GROUPINGS OF TREES ARE TO REMAIN, TREE FENCING SHALL BE PLACED AT THE LIMITS OF GRADING LINE.
5. DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY TREE, SCHEDULED TO REMAIN.
6. 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.
10. THE PARKING OF IDLE AND RUNNING EQUIPMENT SHALL BE PROHIBITED UNDER THE DRIP LINE OF PROTECTED TREES.
11. THE STRIPPING OF TOPSOIL FROM AROUND PROTECTED TREES SHALL BE PROHIBITED.
12. ALL TREES TO BE REMOVED SHALL BE CUT AWAY FROM TREES TO REAMIN.
13. 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 REMOVAL, BY THE LANDSCAPE ARCHITECT OR FORESTER, ONLY AS DIRECTED BY THE OWNER OR OWNERS REPRESENTATIVE.



TREE PROTECTION DETAIL-PLAN

NTS



TREE PROTECTION DETAIL-SECTION

NTS

OAK PRUNING NOTE:

ALL EXISTING OAK TREES ON-SITE SHALL BE PRUNED BETWEEN NOVEMBER AND MARCH, DURING THE DORMANT PERIOD, TO PREVENT THE SPREAD OF OAK WILT DISEASE

NOTE:

INVASIVE AND NUISANCE SPECIES TO BE ERADICATED DURING SITE CLEARING. SPECIES PRESENT ON SITE INCLUDE BUCKTHORN, AUTUMN OLIVE, AND MULBERRY.

LEGEND:

- TREES TO BE REMOVED
- TREE PROTECTION FENCING
- TREES TO REMAIN
- CRITICAL ROOT ZONE

PROJECT: J2025-0235/PSP2025-0014
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CITY FILE NO. 25-0248, SECTION #8
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VIRIDIS Design Group
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NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257

SEAL

PROJECT
Eugene Nowicki Park

CLIENT
City of Rochester Hills

PROJECT LOCATION
Part of the NE. 1/4 of Section 8 T.3N. , R.11E. City of Rochester Hills, Oakland County, Michigan

SHEET
Overall Tree Preservation Plan

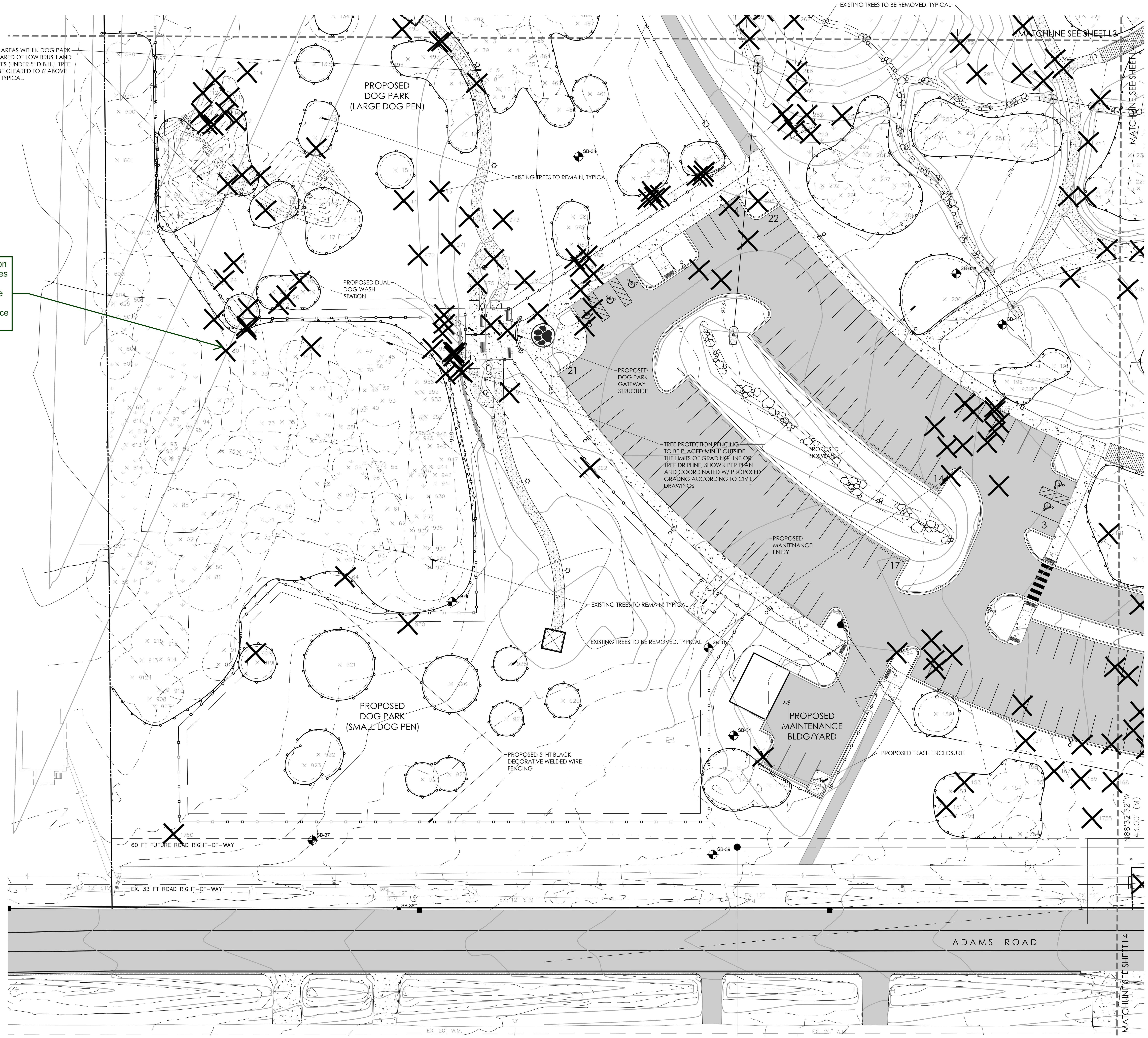
Know what's below Call before you dig.

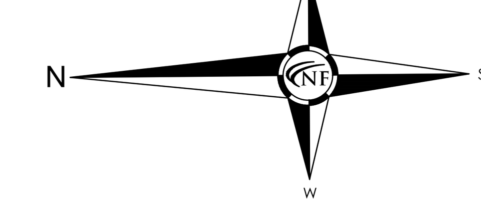
REVISIONS
2025/08/05 ISSUED FOR PRELIMINARY SP REVIEW
2025/09/12 PER CITY REVIEW

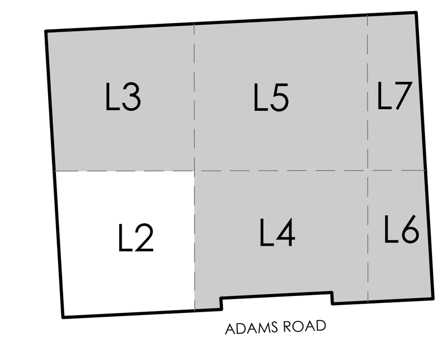
DRAWN BY: M. Sandberg
DESIGNED BY: M. Sandberg
APPROVED BY: G. Ostrowski
DATE: 08/05/2025
SCALE: 1" = 60'
60 30 0 30 60 90

NFE JOB NO. O557
SHEET NO. L1

adjust tree protection fencing exclude trees proposed for removal. These tree may be able to be saved now with fence adjustments.







LOCATION KEY

N.T.S.

LEGEND:

TREES TO BE REMOVED

TREES TO REMAIN

TREE PROTECTION FENCING

CRITICAL ROOT ZONE

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Oakland County, Michigan

SHEET
Tree Preservation Plan

811
Know what's below
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M. Sandberg
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M. Sandberg
APPROVED BY:
G. Ostrowski
DATE:
08/05/2025

SCALE: 1" = 30'
30 15 0 15 30 45

NFE JOB NO.
O557

SHEET NO.
L2

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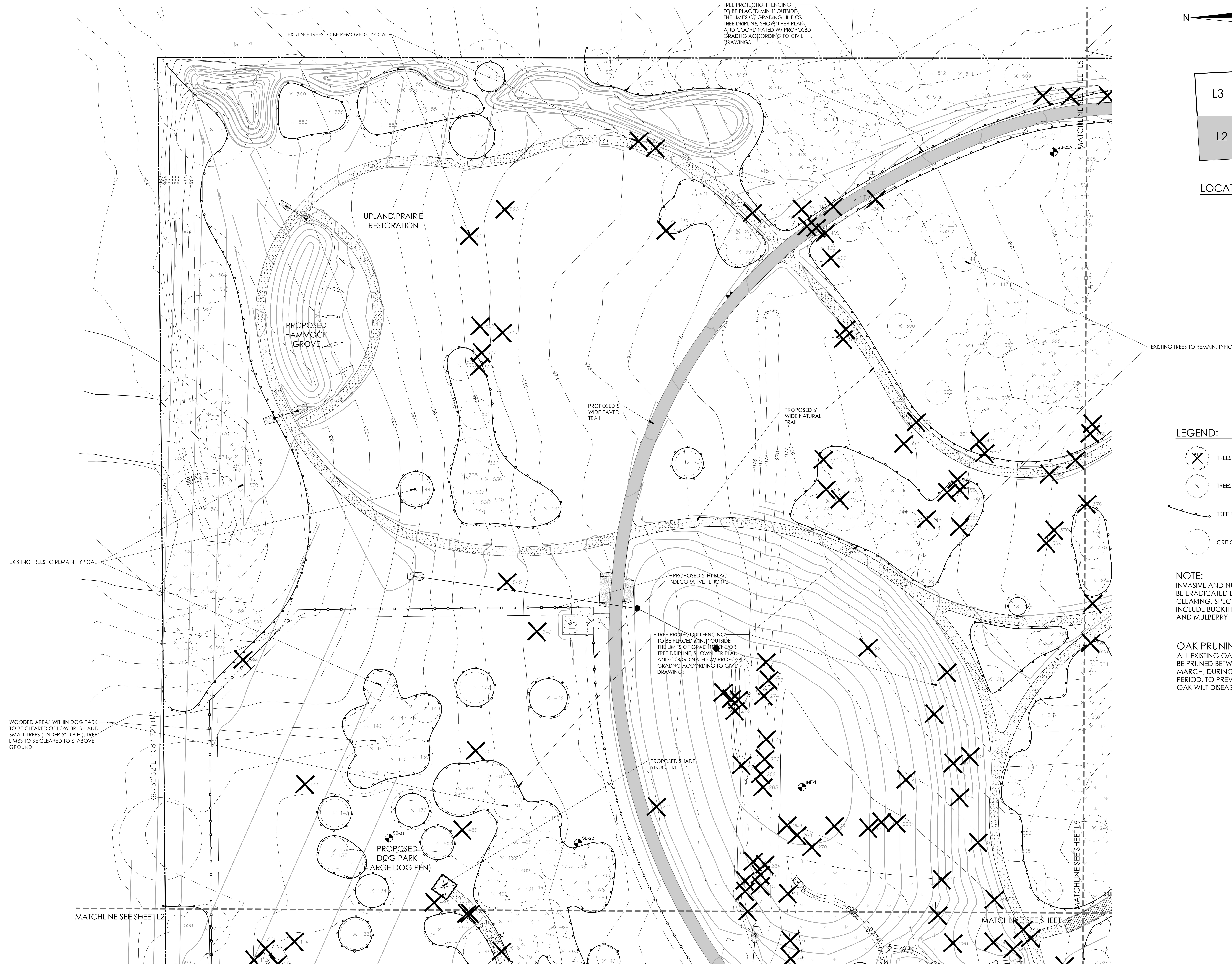

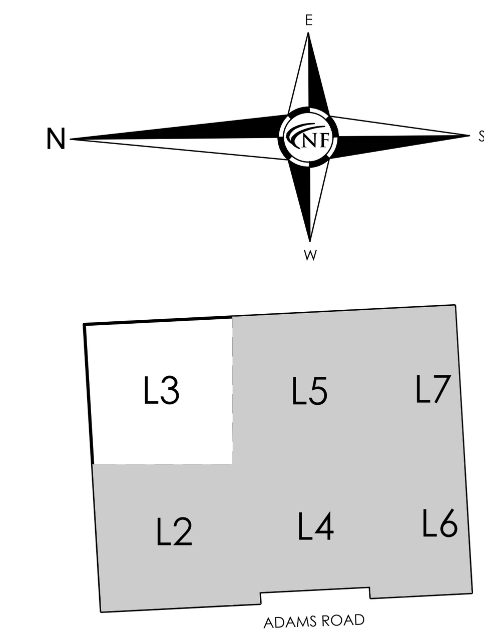

LOCATION KEY
N.T.S.

LEGEND:

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- TREES TO REMAIN
- TREE PROTECTION FENCING
- CRITICAL ROOT ZONE

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SCALE: 1" = 30'
30 15 0 15 30 45

NFE JOB NO. O557
SHEET NO. L3

PROJECT: J2025-0235/PSP2025-0014
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RECIEVED: 9/11/2025
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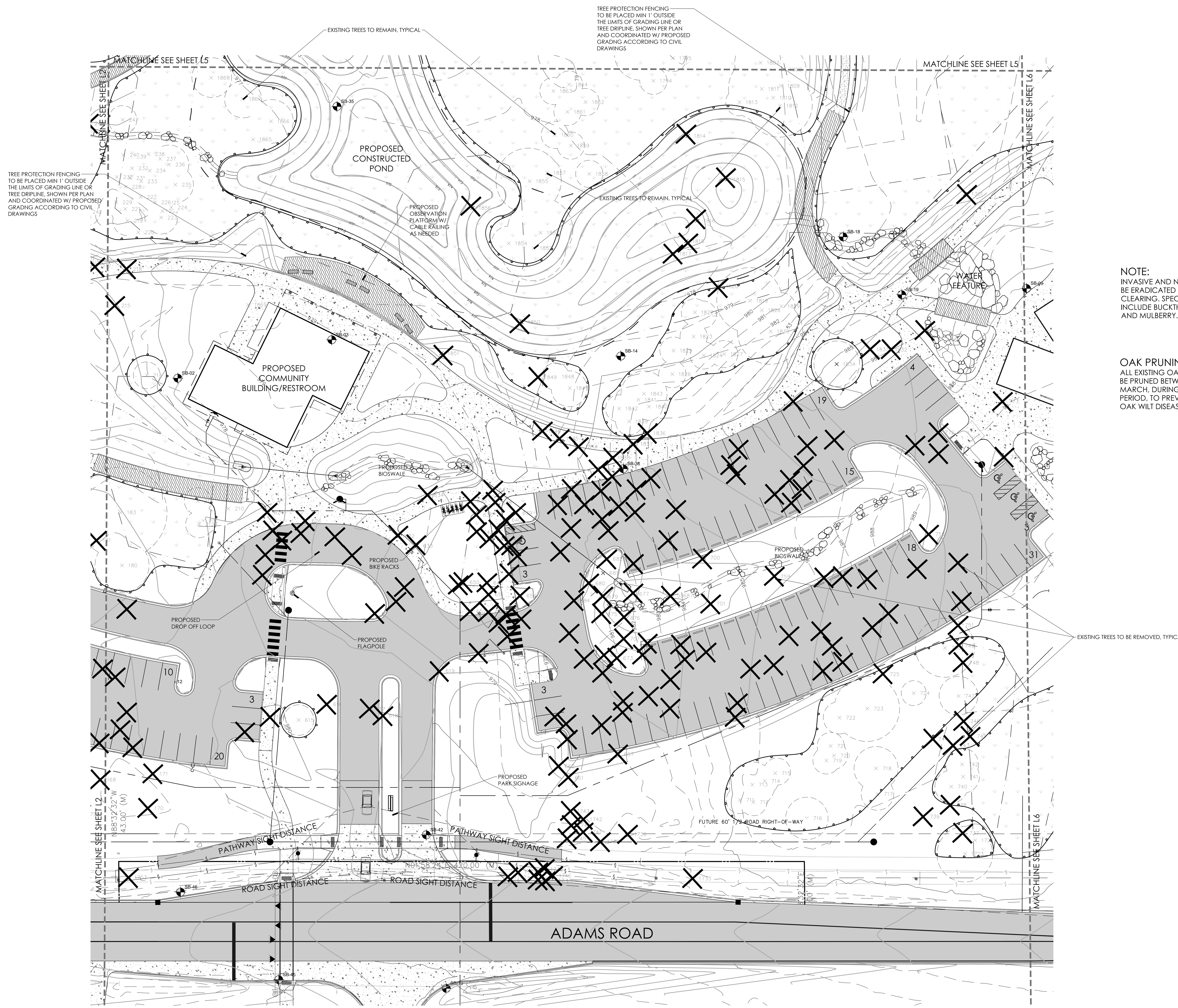

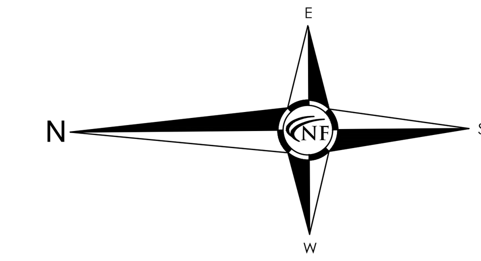

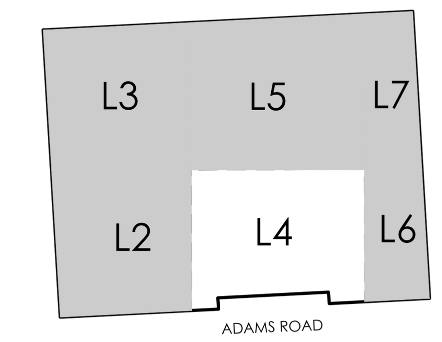

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LEGEND:
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- TREES TO REMAIN
- TREE PROTECTION FENCING
- CRITICAL ROOT ZONE

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Oakland County, Michigan

SHEET
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30 15 0 15 30 45

NFE JOB NO. O557
SHEET NO. L4

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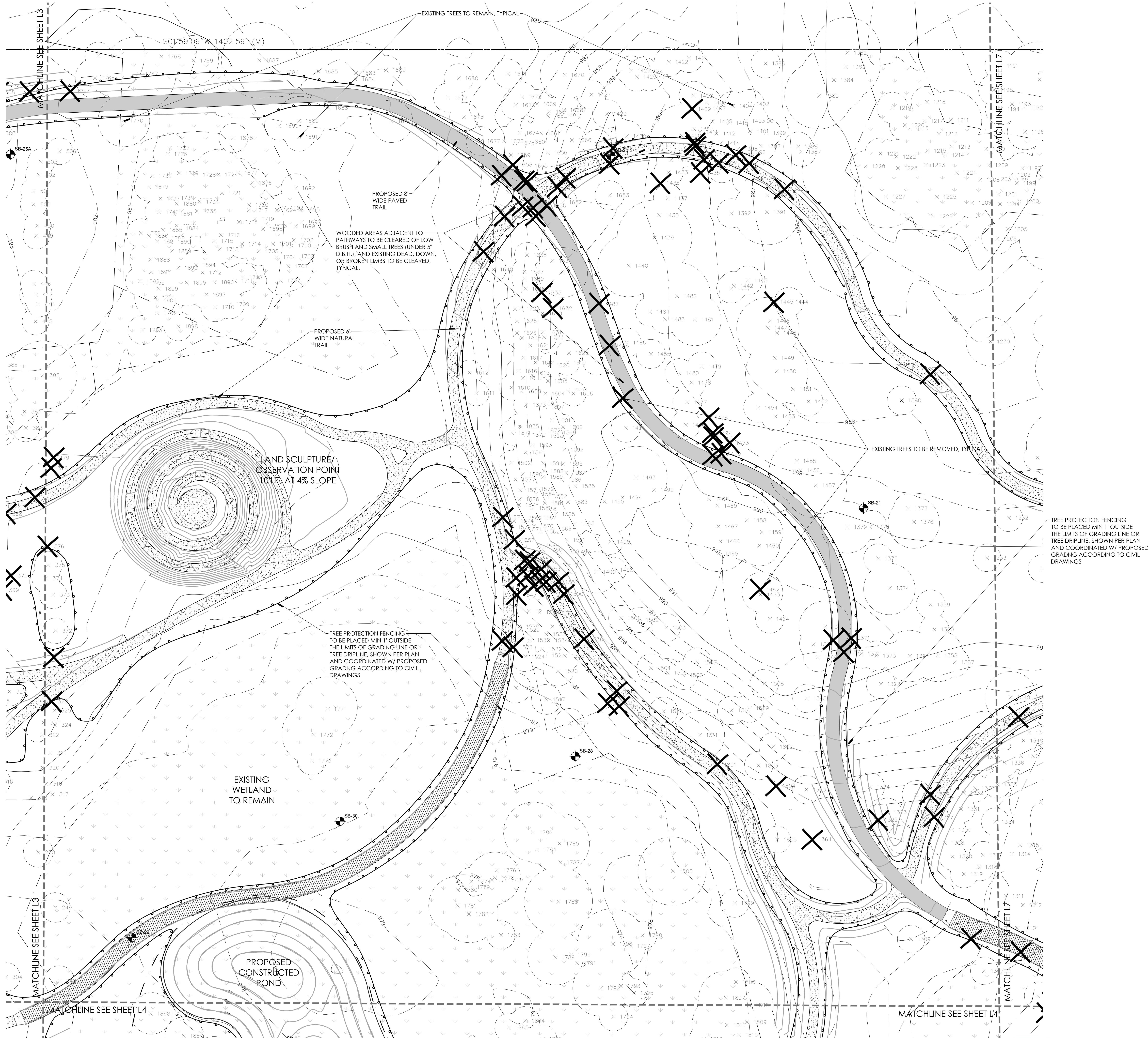

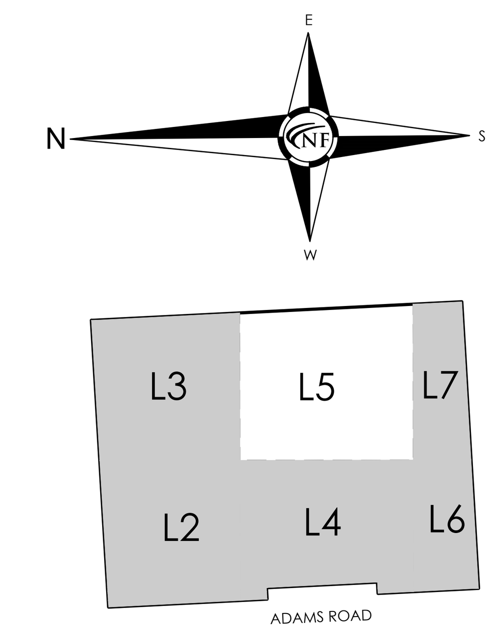

LOCATION KEY

N.T.S.

LEGEND:

- TREES TO BE REMOVED
- TREES TO REMAIN
- TREE PROTECTION FENCING
- CRITICAL ROOT ZONE

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NFE JOB NO. O557
SHEET NO. L5

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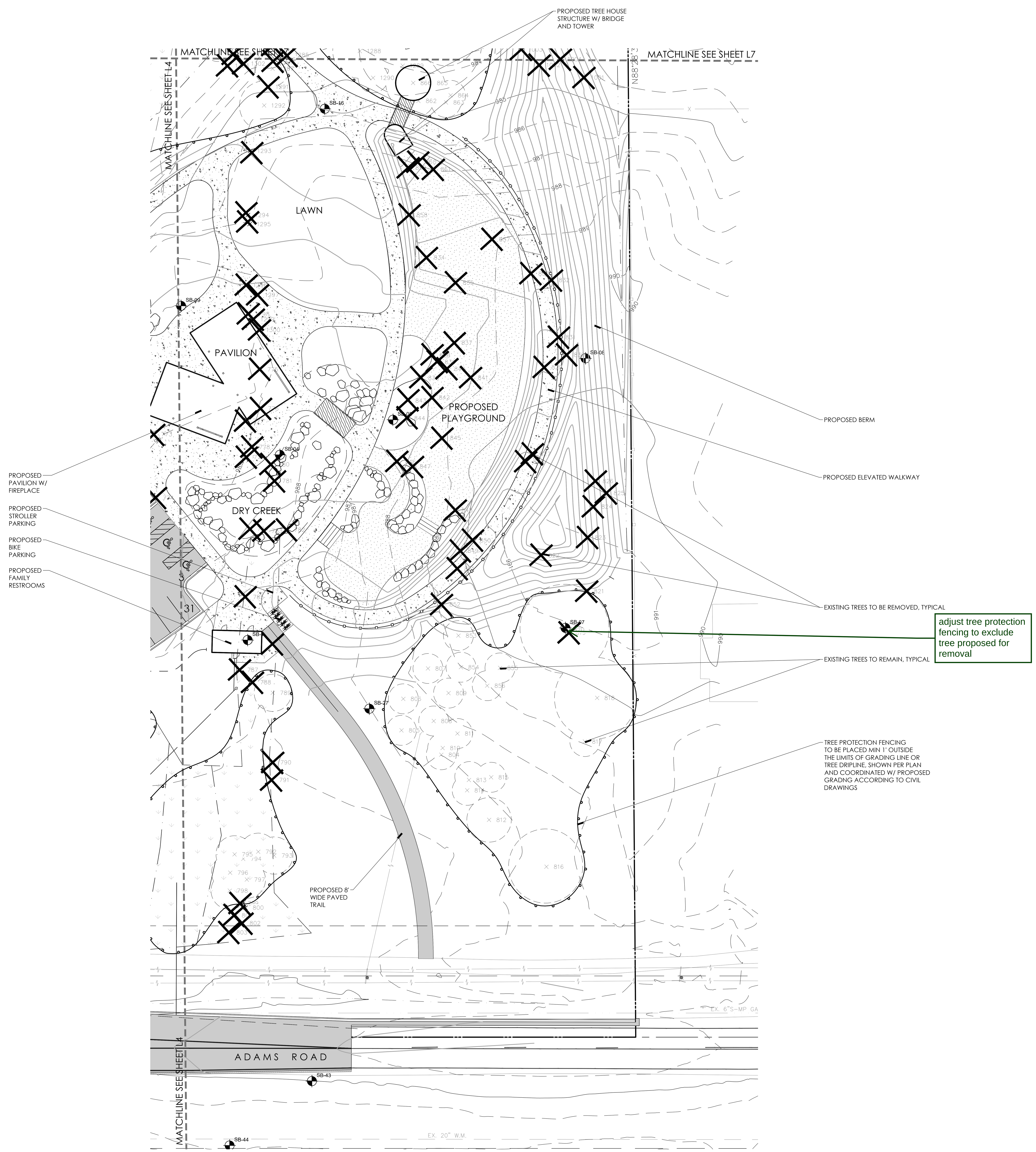

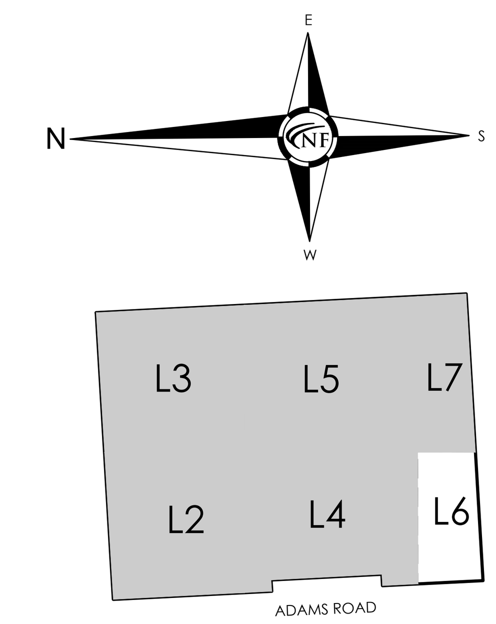

LOCATION KEY
N.T.S.

LEGEND:

- TREES TO BE REMOVED
- TREES TO REMAIN
- TREE PROTECTION FENCING
- CRITICAL ROOT ZONE

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NFE JOB NO. O557
SHEET NO. L6

ROCHESTER HILLS MICHIGAN
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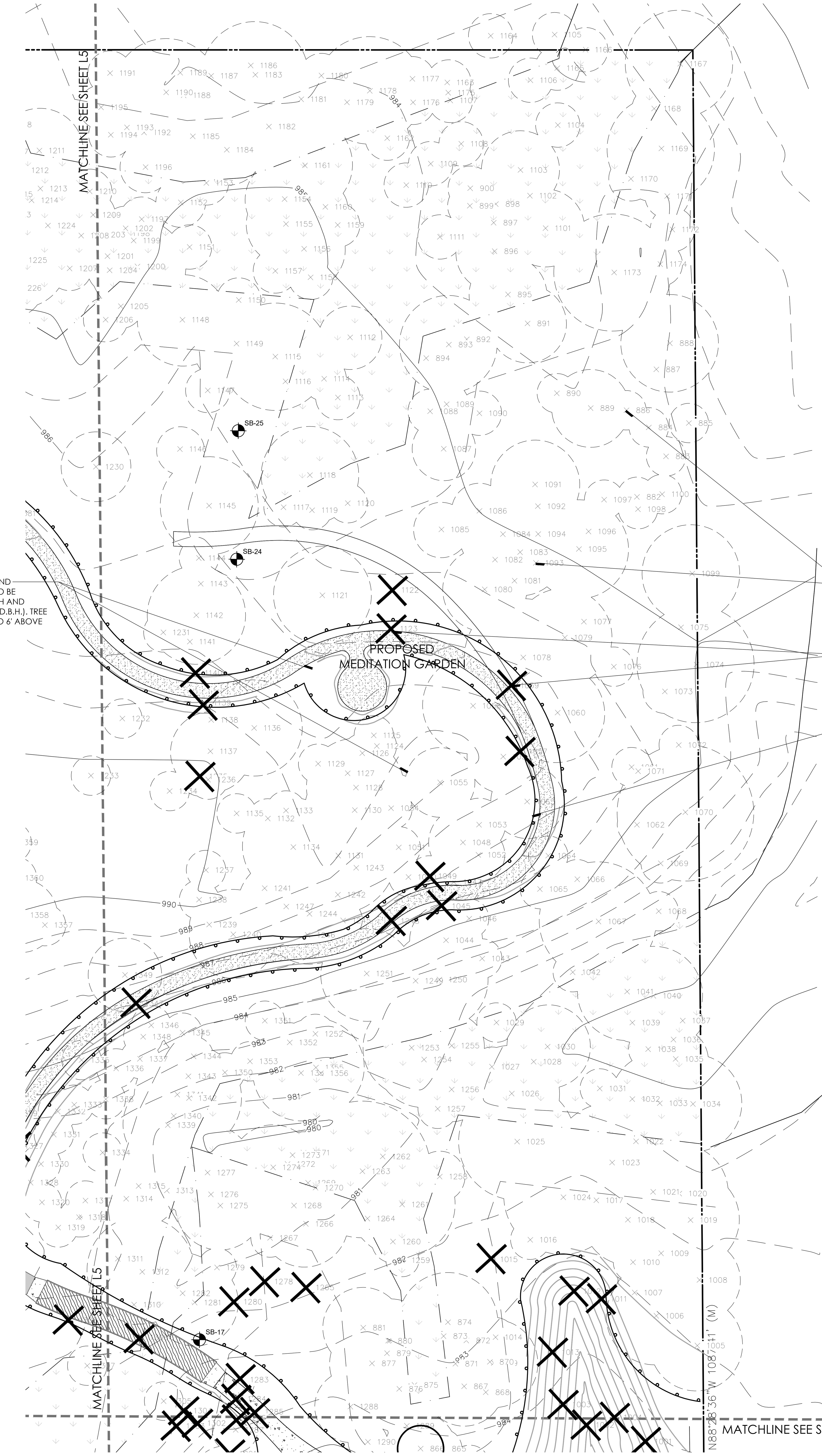
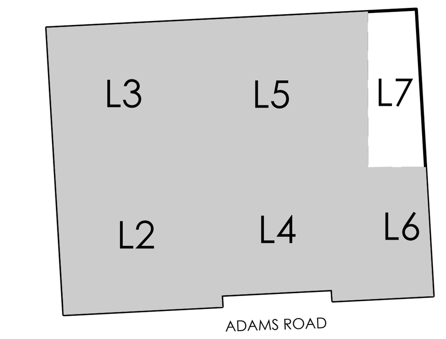
WOODED AREAS AROUND MEDITATION GARDEN TO BE CLEARED OF LOW BRUSH AND SMALL TREES (UNDER 5" D.B.H.). TREE LIMBS TO BE CLEARED TO 6' ABOVE GROUND, TYPICAL.



EXISTING TREES TO REMAIN, TYPICAL

EXISTING TREES TO BE REMOVED, TYPICAL

TREE PROTECTION FENCING TO BE PLACED MIN 1' OUTSIDE THE LIMITS OF GRADING LINE OR TREE DRIPLINE, SHOWN PER PLAN AND COORDINATED W/ PROPOSED GRADNG ACCORDING TO CIVIL DRAWINGS



LOCATION KEY

N.T.S.

LEGEND:

- TREES TO BE REMOVED
- TREES TO REMAIN
- TREE PROTECTION FENCING
- CRITICAL ROOT ZONE

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SEAL

PROJECT
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SHEET
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SHEET NO. L7

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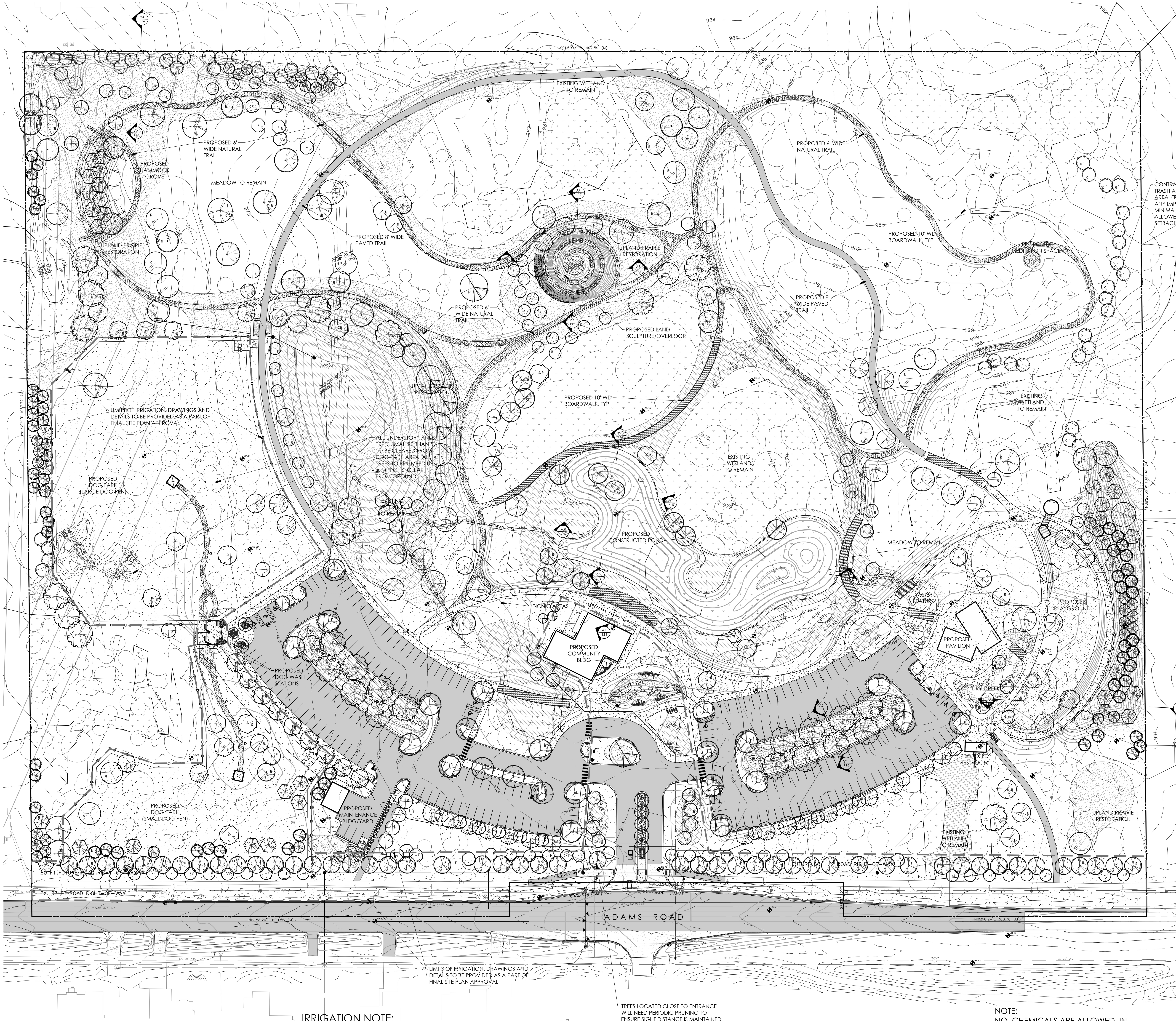

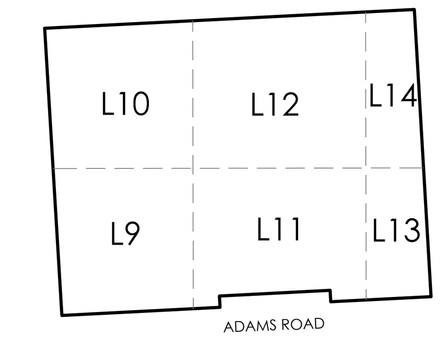

LOCATION KEY

N.T.S.

LANDSCAPE REQUIREMENTS

EXISTING SITE ZONING: R1, SINGLE FAMILY RESIDENTIAL DISTRICT
EXISTING SITE AREA: 1,464,360.80 S.F. OR 33.62 ACRES

LANDSCAPE ABUTTING A R.O.W. (F)
1 CANOPY TREE PER 35 L.F. OF FRONTAGE
1 ORNAMENTAL TREE PER 35 L.F. OF FRONTAGE
ADAMS ROAD: 1,401.34 L.F.
REQUIRED: 1,401.34 L.F. OF FRONTAGE / 35 L.F. = 40.04 OR 40 CANOPY TREES REQUIRED
1,401.34 L.F. OF FRONTAGE / 35 L.F. = 40.04 OR 40 ORNAMENTAL TREES REQUIRED

PROVIDED: 4 EXISTING, 36 CANOPY TREES, 40 ORNAMENTAL TREES

PARKING LOT LANDSCAPE REQUIREMENTS (I)
5% OF VEHICLE USE AREA SHALL BE LANDSCAPED W/ 1 TREE PER 150 S.F. OF REQUIRED AREA
VEHICLE USE AREA: 102,105 S.F.
102,105 S.F. X 5% = 5,105 S.F. REQUIRED
5,614 S.F. / 150 S.F. = 34.04 OR 34 TREES REQUIRED

AREA PROVIDED: 30,109 S.F.
TREES PROVIDED: 34 TREES

PARKING LOT PERIMETER (P)
WHERE A PKG LOT IS WITHIN 100 L.F. OF A R.O.W.
1 CANOPY TREE PER 25 L.F. AND
1 ORNAMENTAL TREE PER 35 L.F.
LENGTH WITHIN 100' OF ADAMS R.O.W. = 459 L.F.
CANOPY TREES REQUIRED: 459 L.F. / 25 L.F. = 18.36 OR 19 TREES REQUIRED
ORNAMENTAL TREES REQUIRED: 459 L.F. / 35 L.F. = 13.11 OR 14 TREES REQUIRED

TREES PROVIDED: 7 EXISTING, 12 CANOPY TREES, 14 ORNAMENTAL TREES

DIVIDER MEDIAN LANDSCAPE (M)
1 CANOPY TREE OR 2 ORNAMENTAL TREES PER 25 L.F. W/ CONTINUOUS HEDGE
REQUIRED:
113 L.F. / 25 L.F. = 4.52 OR 5 CANOPY TREES OR 10 ORNAMENTAL TREES REQUIRED

TREES PROVIDED: 5 CANOPY TREES

REPLACEMENT TREES (R)
REQUIRED REPLACEMENT: 465 TREES

PROVIDED REPLACEMENT: 465 TREES

GROUNDCOVER LEGEND

- LOW MAINTENANCE FESCUE MIX
- ECONOMY PRAIRIE MIX
- BASIC WET SEDGE MEADOW
- EMERGENT WETLAND SEED MIX
- RAIN GARDEN SEED MIX
- EXISTING UNDERSTORY/GROUNDCOVER TO REMAIN

CITY MAINTENANCE NOTES:

1. LANDSCAPING SHALL BE KEPT IN A NEAT, ORDERLY AND HEALTHY GROWING CONDITION, FREE FROM DEBRIS AND REFUSE.
2. PRUNING SHALL BE MINIMAL AT THE TIME OF INSTALLATION, ONLY TO REMOVE DEAD AND DISEASED BRANCHES. SUBSEQUENT PRUNING SHALL ASSUME PROPER MATURATION OF PLANTS TO ACHIEVE THEIR APPROVED PURPOSE.
3. ALL DEAD, DISEASED PLANT MATERIAL SHALL BE REMOVED IMMEDIATELY AND REPLACED WITHIN SIX (6) MONTHS AFTER IT DIES, OR IN THE NEXT PLANTING SEASON, WHICHEVER OCCURS FIRST. FOR PURPOSES OF THIS SECTION, THE PLANTING SEASON FOR DECIDUOUS PLANTS SHALL BE BETWEEN MARCH 1 AND JUNE 1. PLANT MATERIAL INSTALLED TO REPLACE DEAD OR DISEASED MATERIAL SHALL BE AS CLOSE AS PRACTICAL TO THE SIZE OF THE MATERIAL IT IS INTENDED TO REPLACE. THE CITY MAY NOTIFY PROPERTY OWNERS OF THE NEED TO REPLACE DEAD, DAMAGED, OR DISEASED MATERIAL.
4. THE APPROVED LANDSCAPE PLAN SHALL BE CONSIDERED A PERMANENT RECORD AND INTEGRAL PART OF THE SITE PLAN APPROVAL. UNLESS OTHERWISE APPROVED IN ACCORDANCE WITH THE AFOREMENTIONED PROCEDURES, ANY REVISIONS TO, OR REMOVAL OF PLANT MATERIALS, NON-COMPLIANCE WITH THE MAINTENANCE REQUIREMENTS OF THIS SECTION 138-12.109 WILL PLACE THE PARCEL IN NON-CONFORMITY WITH THE APPROVED LANDSCAPE PLAN AND BE A VIOLATION OF THIS ORDINANCE.
5. IF PROTECTED TREES ARE DAMAGED, A FINE SHALL BE ISSUED ON AN INCH-BY-INCH BASIS AT A MONETARY RATE AS DEFINED BY THE FORESTRY DEPARTMENT.

NOTE:

PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB ON THE PUBLIC RIGHT-OF-WAY. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC ROAD. (TREES MUST BE PLANTED AT LEAST 15' AWAY FROM CURB OR ROAD EDGE WHERE THE SPEED 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 LINES AT A DISTANCE ALONG EACH LINE OF 25' FROM THEIR POINT OF INTERSECTION. NO TREES OR SHRUBS MAY BE PLANTED IN 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.

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 INCORPORATED INTO THE PLAN.

NOTE:

SEE SHEETS L9 - L14 FOR PLANT QUANTITIES
SEE SHEET L19 FOR MASTER PLANT LIST, PLANT QUANTITIES, NOTES AND PLANTING DETAILS

OAK PRUNING NOTE:

ALL EXISTING OAK TREES ON-SITE SHALL BE PRUNED BETWEEN NOVEMBER AND MARCH, DURING THE DORMANT PERIOD, TO PREVENT THE SPREAD OF OAK WILT DISEASE

IRRIGATION NOTE:

AUTOMATIC UNDERGROUND IRRIGATION SYSTEM WILL BE PROVIDED FOR AREAS IN THE DOG PARK, ALONG THE ADAMS ROAD FRONTAGE AND AROUND THE COMMUNITY BUILDING. THE SOURCE FOR IRRIGATION WILL BE THE CONSTRUCTED POND. 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 THE MOST EFFICIENT MANNER NECESSARY TO FULLY IRRIGATE DESIGNATED AREAS.

ROCHESTER HILLS MICHIGAN
PROJECT: J2025-0235/PSP2025-0014
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NOTE:

NO CHEMICALS ARE ALLOWED IN STORMWATER FEATURES OR BUFFER ZONES WITH THE FOLLOWING EXCEPTION: INVASIVE SPECIES MAY BE TREATED WITH CHEMICALS BY A CERTIFIED APPLICATOR. MOWING IS ONLY ALLOWED TWICE PER YEAR

CITY FILE NO. 25-0248, SECTION #8
NOT TO BE USED AS CONSTRUCTION DRAWINGS

ROCHESTER HILLS MICHIGAN

VIRIDIS Design Group
1430 Monroe Ave NW, Suite 210
Grand Rapids, MI 49505
(616) 375-0945

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

SEAL

PROJECT
Eugene Nowicki Park

CLIENT
City of Rochester Hills

PROJECT LOCATION
Part of the NE. 1/4 of Section 8
T.3N. , R.11E.
City of Rochester Hills,
Oakland County, Michigan

SHEET
Overall Landscape Plan

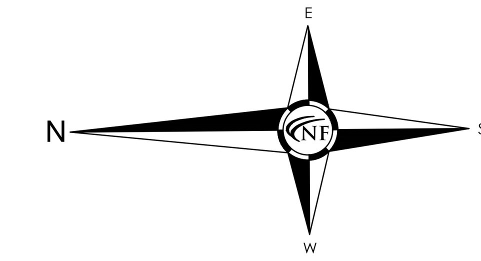
Know what's below
Call before you dig.

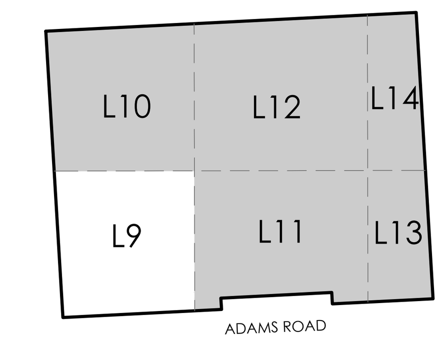
REVISIONS

2025/08/05 ISSUED FOR PRELIMINARY SP REVIEW
2025/09/12 PER CITY REVIEW

DRAWN BY: M. Sandberg
DESIGNED BY: G. Ostrowski
APPROVED BY: G. Ostrowski
DATE: 08/05/2025
SCALE: 1" = 60'
60 30 0 30 60 90

NFE JOB NO. O557
SHEET NO. L8





LOCATION KEY

N.T.S.

NOTE:

SEE SHEET L19 FOR MASTER PLANT LIST, PLANT QUANTITIES, NOTES AND PLANTING DETAILS

GROUNDCOVER LEGEND

- LOW MAINTENANCE FESCUE MIX
- ECONOMY PRAIRIE MIX
- BASIC WET SEDGE MEADOW
- EMERGENT WETLAND SEED MIX
- RAIN GARDEN SEED MIX
- EXISTING UNDERSTORY/GROUNDCOVER TO REMAIN

DECIDUOUS TREES

- AS Green Mountain Sugar Maple
- AF Yellow Buckeye
- AG Autumn Brilliance Serviceberry
- BN River Birch
- CO Shagbark Hickory
- CH Hackberry
- CC Redbud
- CK Yellowwood
- GT Shademaster Honeylocust
- LT Tuliptree
- NS Green Gable Black Tupelo
- OV American Hophornbeam
- QA White Oak
- QB Swamp White Oak
- QM Bur Oak

CONIFEROUS TREES

- AB Canaan Fir
- PD Black Hills Spruce
- PG White Spruce
- PS White Pine
- TD Bald Cypress
- TC Eastern Hemlock

SHRUBS, GRASSES, PERENNIALS

- EP Purple Coneflower
- SH Prairie Dropseed
- TO Dark Green Arborvitae

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SEAL

STATE OF MICHIGAN

PROJECT
Eugene Nowicki Park

CLIENT
City of Rochester Hills

PROJECT LOCATION
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of Section 8
T.3N. , R.11E.
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Oakland County, Michigan

SHEET
Landscape Plan

811
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30 15 0 15 30 45

NFE JOB NO. O557
SHEET NO. L9

ROCHESTER HILLS MICHIGAN
PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

CITY FILE NO. 25-0248, SECTION #8
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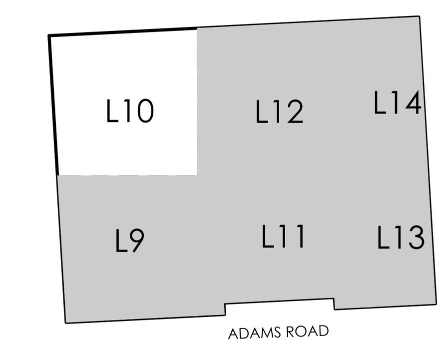

LOCATION KEY

N.T.S.

NOTE:

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Verify that no trees are proposed to be planted within the designated 100-year storage volume space.

GROUNDCOVER LEGEND

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- ECONOMY PRAIRIE MIX
- BASIC WET SEDGE MEADOW
- EMERGENT WETLAND SEED MIX
- RAIN GARDEN SEED MIX
- EXISTING UNDERSTORY/GROUNDCOVER TO REMAIN

DECIDUOUS TREES

AS Green Mountain Sugar Maple	GT Shademaster Honeylocust
AF Yellow Buckeye	LT Tuliptree
AG Autumn Brilliance Serviceberry	NS Green Gable Black Tupelo
BN River Birch	OV American Hophornbeam
CO Shagbark Hickory	QA White Oak
CH Hackberry	QB Swamp White Oak
CC Redbud	QM Bur Oak
CK Yellowwood	

CONIFEROUS TREES

AB Canaan Fir	PS White Pine
PD Black Hills Spruce	TD Bald Cypress
PG White Spruce	TC Eastern Hemlock

ROCHESTER HILLS
MICHIGAN

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G. Ostrowski

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G. Ostrowski

DATE:
08/05/2025

SCALE: 1" = 30'

30 15 0 15 30 45

NFE JOB NO. O557

SHEET NO. L10

ROCHESTER HILLS MICHIGAN
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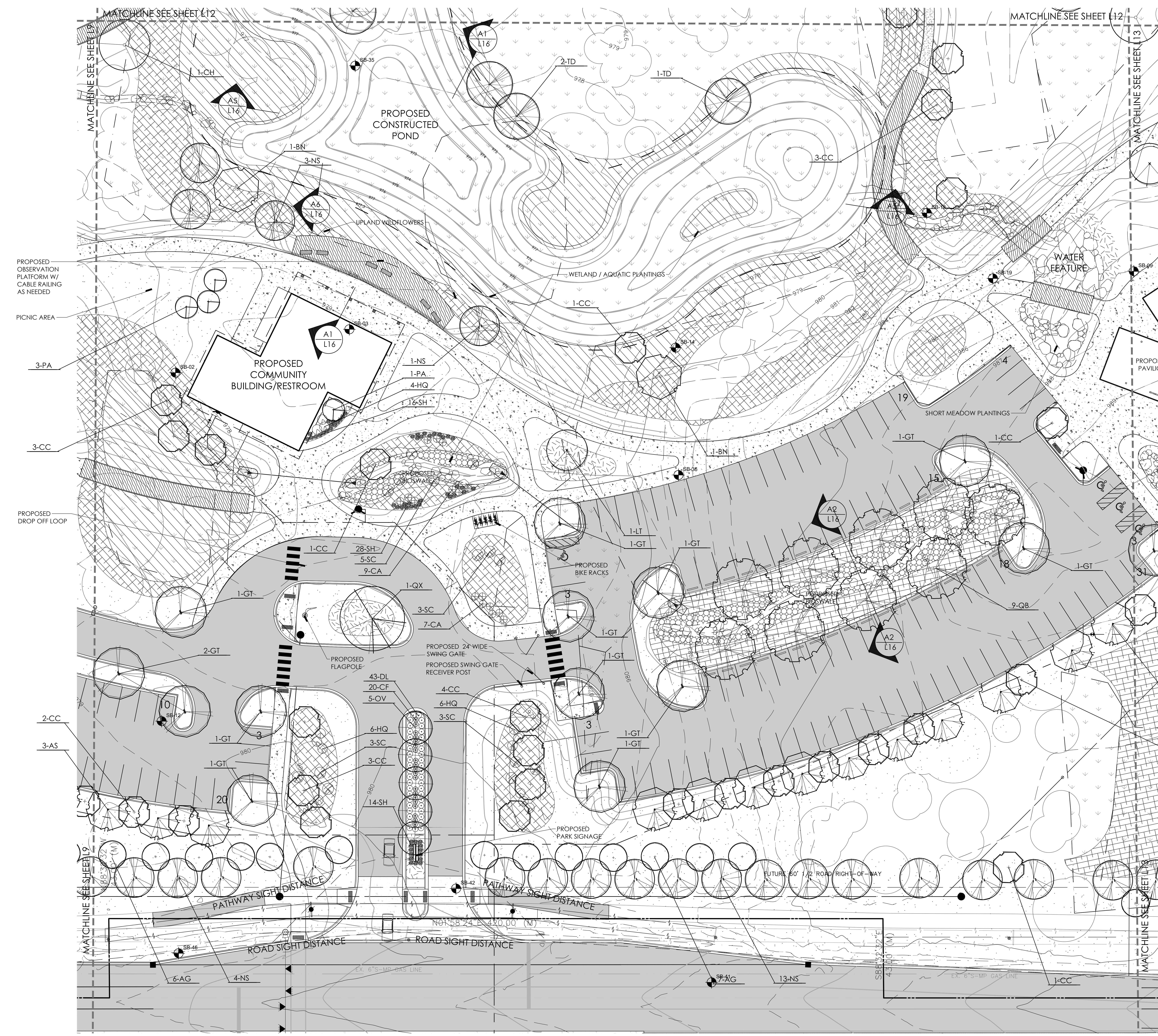

Single stem varieties of tree species should be used in areas along parking lot, sidewalks, etc.

pre-approval of tree species varieties and substitutions will need to be done with forestry staff. Add note

LOCATION KEY

N.T.S.

L10 | L12 | L14
L9 | L11 | L13

ADAMS ROAD

GROUNDCOVER LEGEND

- LOW MAINTENANCE FESCUE MIX
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- EXISTING UNDERSTORY/GROUNDCOVER TO REMAIN

DECIDUOUS TREES

- AS Green Mountain Sugar Maple
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- CH Hackberry
- CC Redbud
- CK Yellowwood
- GT Shademaster Honeylocust
- LT Tuliptree
- NS Green Gable Black Tupelo
- OV American Hophornbeam
- QA White Oak
- QB Swamp White Oak
- QM Bur Oak
- QX Bebb Oak

CONIFEROUS TREES

- AB Canaan Fir
- PD Black Hills Spruce
- PG White Spruce
- PS White Pine
- TD Bald Cypress
- TC Eastern Hemlock
- PA Columnar Norway Spruce

SHRUBS

- CA New Jersey Tea
- DL Michigan Sunset Honeysuckle
- HQ Oakleaf Hydrangea
- SC American Elderberry
- TO Dark Green Arborvitae

GRASSES

- CF Karl Foerster Feather Reed Grass
- SH Prairie Dropseed

NOTE:
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SEAL

PROJECT
Eugene Nowicki Park

CLIENT
City of Rochester Hills

PROJECT LOCATION
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T.3N. , R.11E.
City of Rochester Hills, Oakland County, Michigan

SHEET
Landscape Plan

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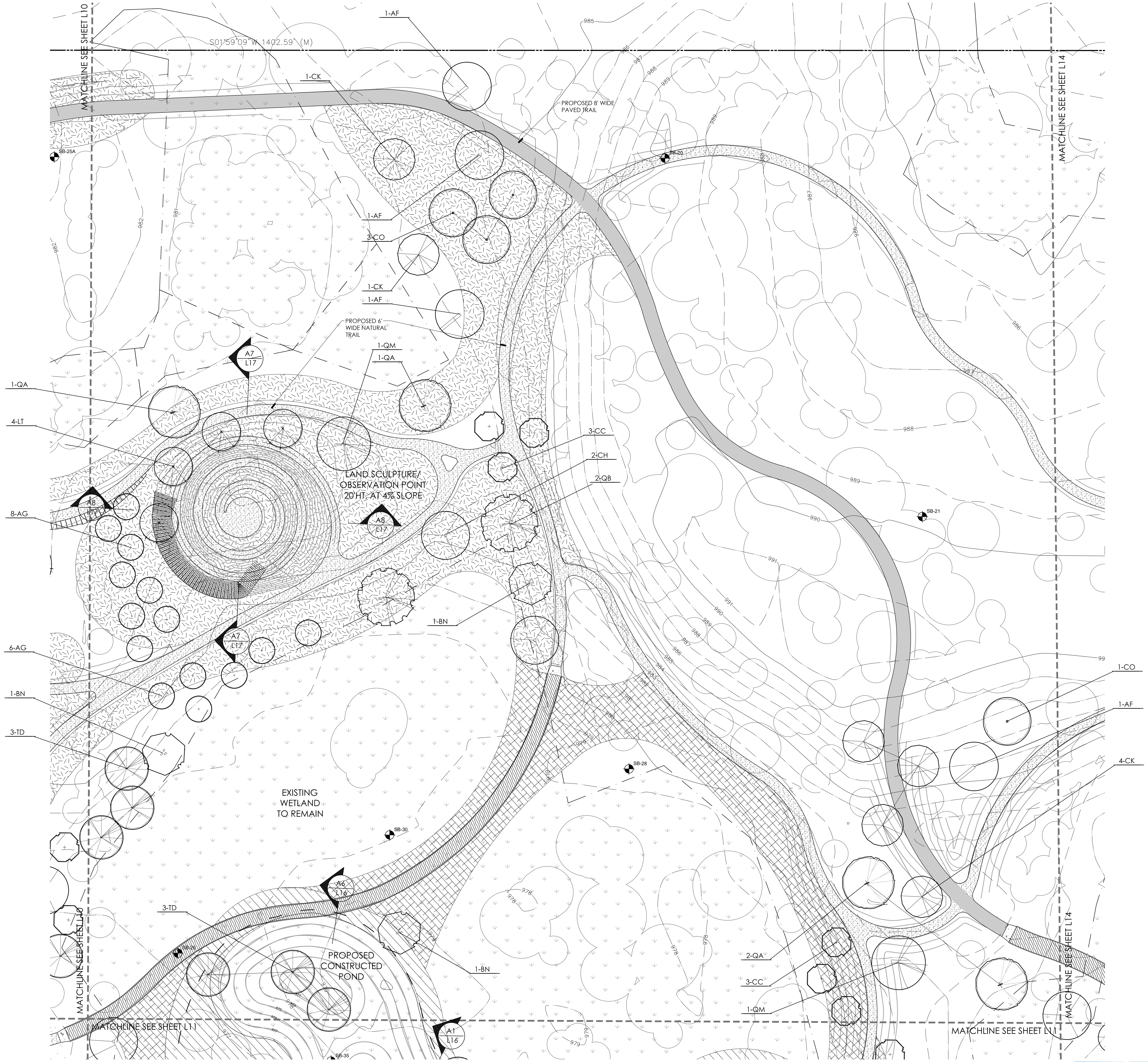
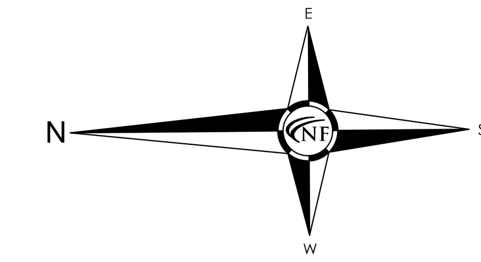
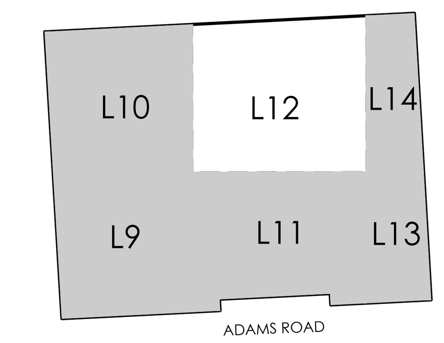
NFE JOB NO. O557
SHEET NO. L11







LOCATION KEY
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GROUNDCOVER LEGEND

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DECIDUOUS TREES

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- CH Hackberry
- CC Redbud
- CK Yellowwood
- GT Shademaster Honeylocust
- LT Tuliptree
- NS Green Gable Black Tupelo
- OV American Hophornbeam
- QA White Oak
- QB Swamp White Oak
- QM Bur Oak

CONIFEROUS TREES

- AB Canaan Fir
- PD Black Hills Spruce
- PG White Spruce
- PS White Pine
- TD Bald Cypress
- TC Eastern Hemlock

NOTE:
SEE SHEET L19 FOR MASTER PLANT LIST, PLANT QUANTITIES, NOTES AND PLANTING DETAILS

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SEAL

PROJECT
Eugene Nowicki Park

CLIENT
City of Rochester Hills

PROJECT LOCATION
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T.3N. , R.11E.
City of Rochester Hills, Oakland County, Michigan

SHEET
Landscape Plan

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M. Sandberg
G. Ostrowski
G. Ostrowski

DATE:
08/05/2025

SCALE: 1" = 30'
30 15 0 15 30 45

NFE JOB NO. O557
SHEET NO. L12

ROCHESTER HILLS MICHIGAN
PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
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CITY FILE NO. 25-0248, SECTION #8
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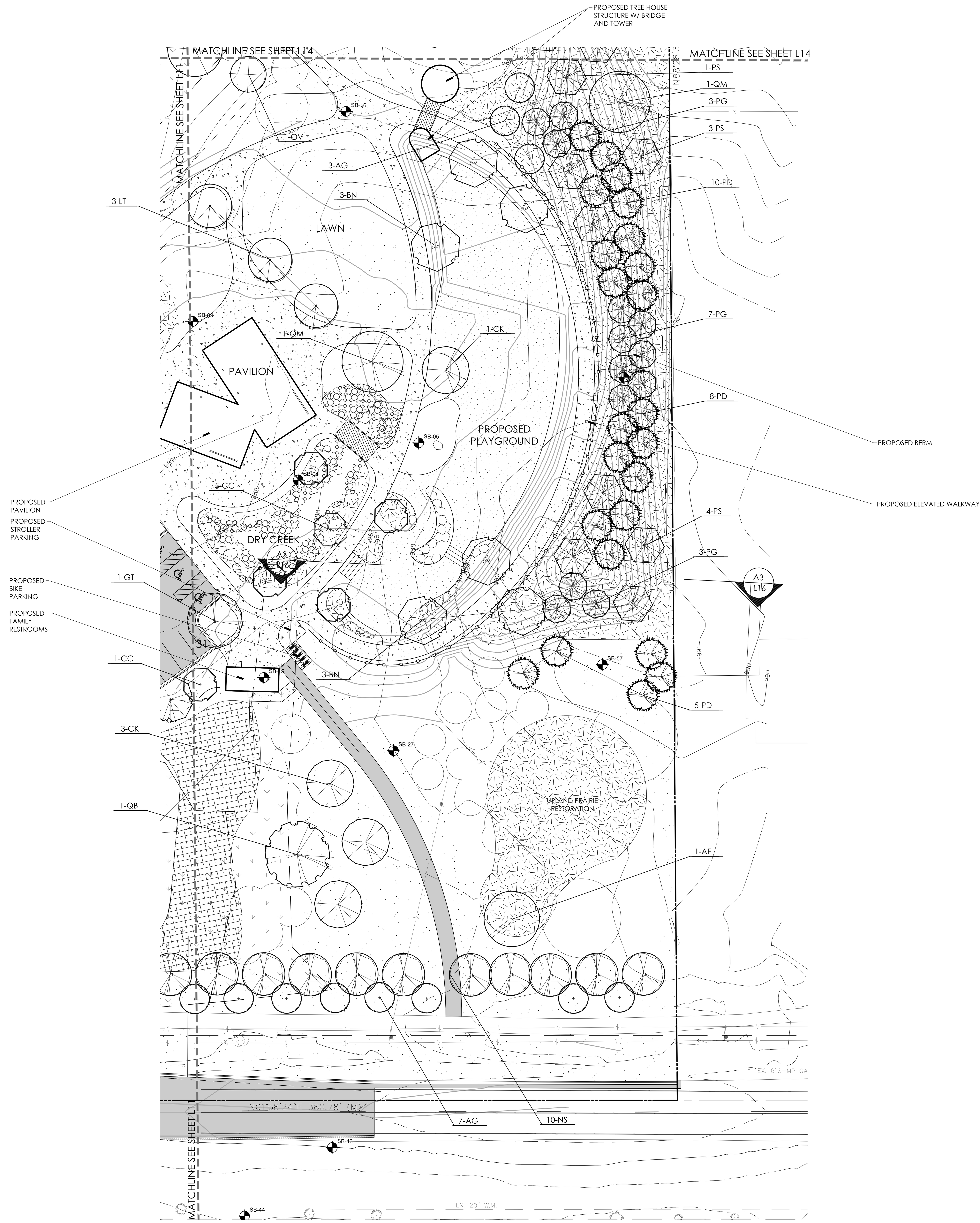

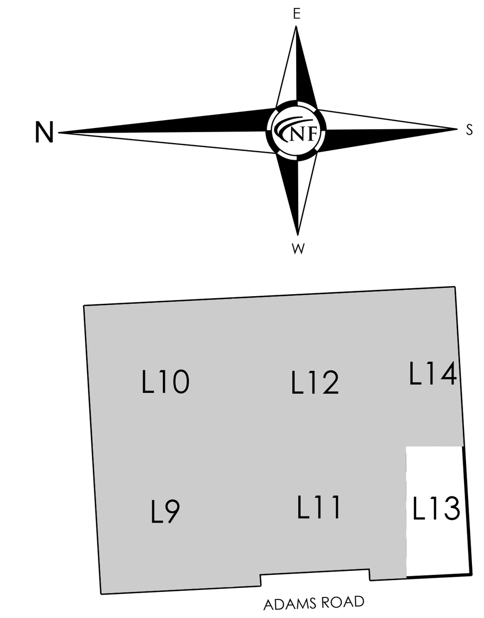

LOCATION KEY

N.T.S.

GROUNDCOVER LEGEND

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AF	Yellow Buckeye	LT	Tuliptree
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BN	River Birch	OV	American Hophornbeam
CO	Shagbark Hickory	QA	White Oak
CH	Hackberry	QB	Swamp White Oak
CC	Redbud	QM	Bur Oak
CK	Yellowwood		

CONIFEROUS TREES

AB	Canaan Fir	PS	White Pine
PD	Black Hills Spruce	TD	Bald Cypress
PG	White Spruce	TC	Eastern Hemlock

NOTE:
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ROCHESTER HILLS MICHIGAN

PROJECT: J2025-0235/PSP2025-0014

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SEAL

PROJECT
Eugene Nowicki Park

CLIENT
City of Rochester Hills

PROJECT LOCATION
Part of the NE. 1/4
of Section 8
T.3N. , R.11E.
City of Rochester Hills,
Oakland County, Michigan

SHEET
Landscape Plan

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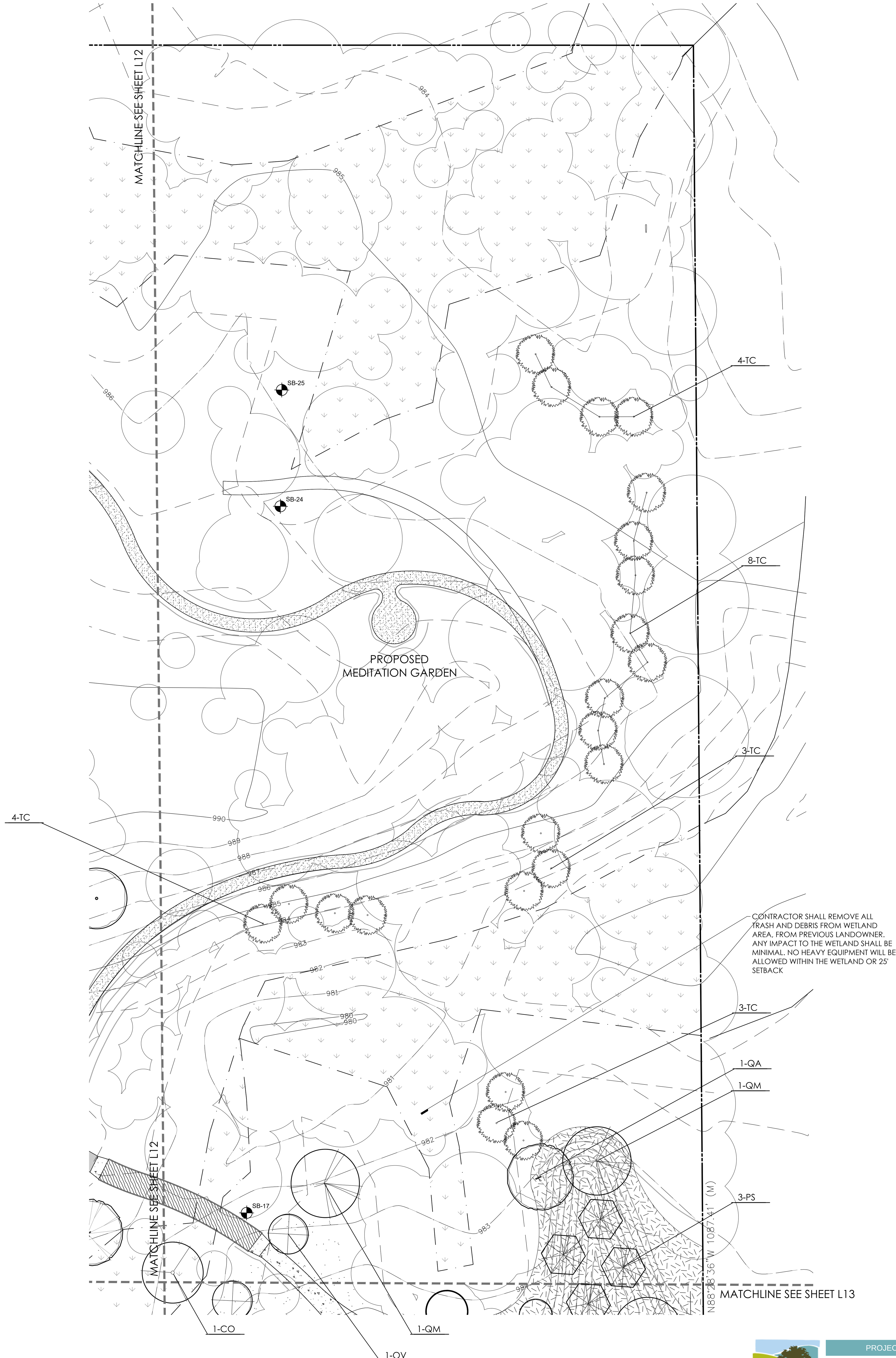
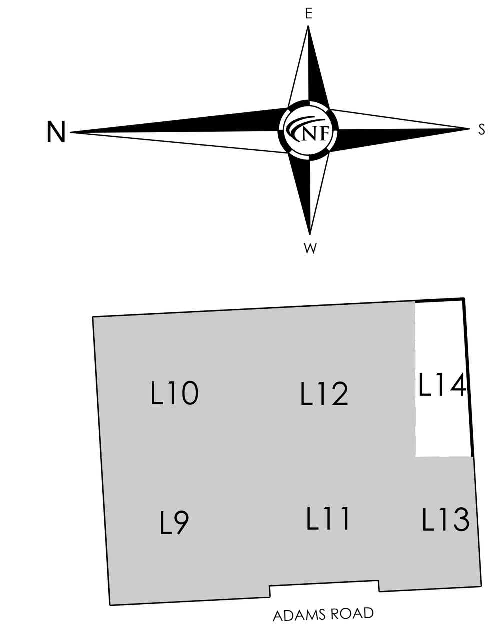
30 15 0 15 30 45

NFE JOB NO. O557

SHEET NO. L13





LOCATION KEY

N.T.S.

GROUNDCOVER LEGEND

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CONIFEROUS TREES

- AB Canaan Fir
- PD Black Hills Spruce
- PG White Spruce
- PS White Pine
- TD Bald Cypress
- TC Eastern Hemlock

ROCHESTER HILLS MICHIGAN

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NOTE:

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CITY FILE NO. 25-0248, SECTION #8

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SEAL

PROJECT
Eugene Nowicki Park

CLIENT
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City of Rochester Hills,
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Landscape Plan

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G. Ostrowski

APPROVED BY:
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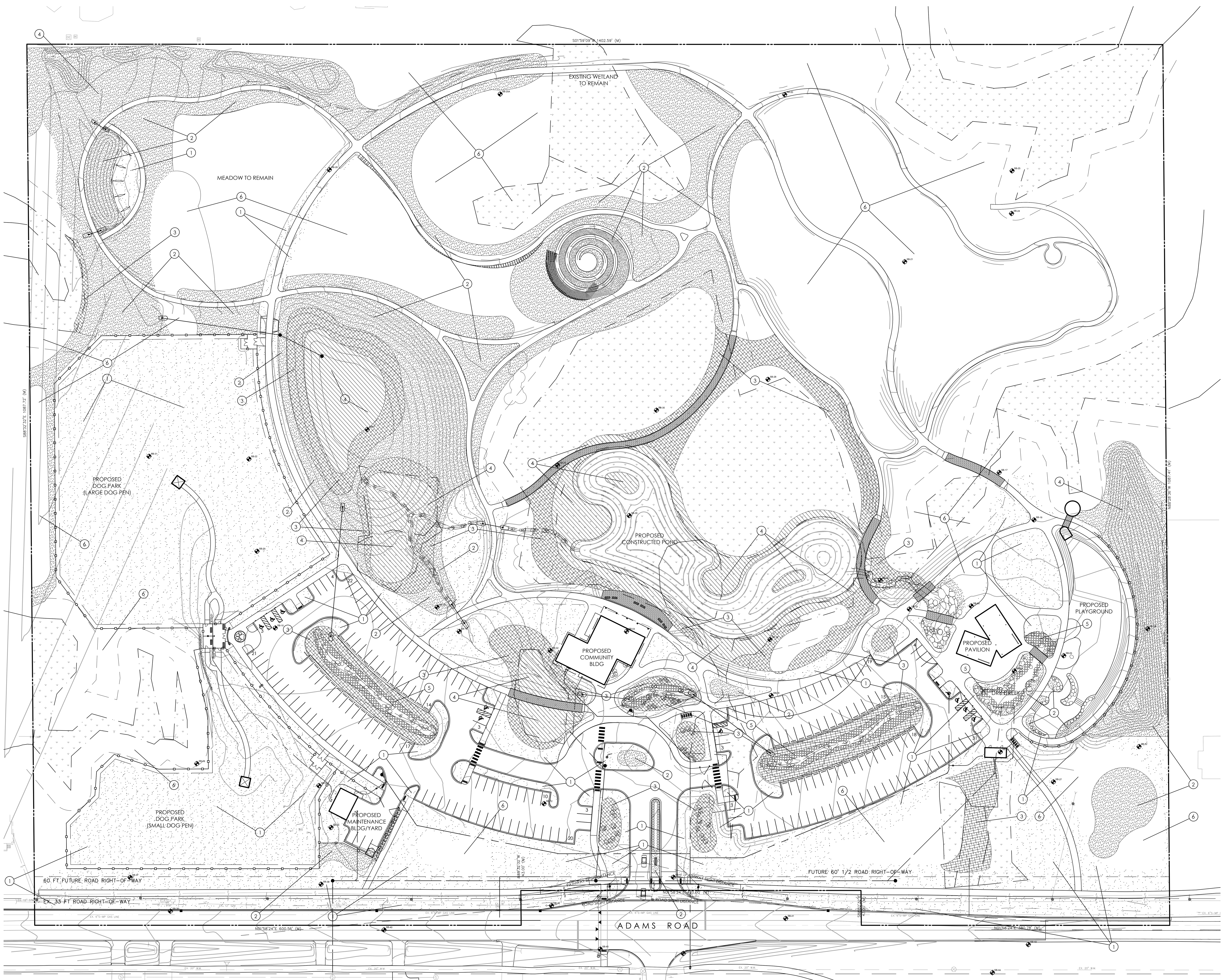
DATE:
08/05/2025

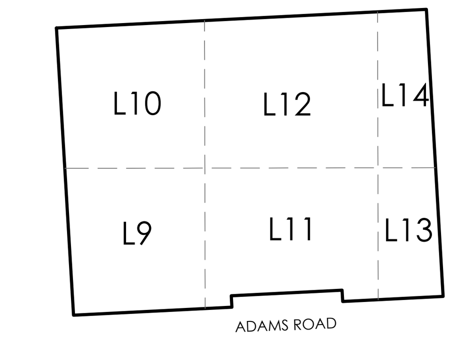
SCALE: 1" = 30'

30 15 0 15 30 45

NFE JOB NO. O557

SHEET NO. L14





LOCATION KEY

N.T.S.

EMERGENT WETLAND MIX

FORBS	GRASSES
SWEET FLAG	BRISTLY SEDGE
COMMON WATER PLANTAIN	FRINGED SEDGE
SWAMP MILKWEED	PORCUPINE SEDGE
SWAMP ASTER	AWL-FRUITED SEDGE
NODDING BUR MARIGOLD	FOX SEDGE
WATER HEMLOCK	GREAT SPIKE RUSK
JOE PYE WEED	CANADA MANNA GRASS
BONESET	REED MANNA GRASS
SOUTHERN BLUE FLAG IRIS	SOFT RUSH
CARDINAL FLOWER	TORREY'S RUSH
GREAT BLUE LOBELIA	RICE CUT GRASS
MONKEY FLOWER	HARD-STEM BULRUSH
ARROW ARUM	DARK GREEN BULRUSH
DITCH STONECROP	WOOL GRASS
PENNSYLVANIA SMARTWEED	RIVER BULRUSH
PICKEREL WEED	SOFT-STEM BULRUSH
GREAT WATER DOCK	
COMMON ARROWHEAD	
COMMON BUR REED	
BLUE VERVAIN	

RECOMMENDED SEEDING RATE: 30 LBS/ACRE

SEED MIX AVAILABLE:
NATIVE CONNECTIONS
3815 N WESTNEDGE AVE
KALAMAZOO, MI 49004
T 269-459-6900

RAIN GARDEN SEED MIX

FORBS	GRASSES
NODDING WILD ONION	FOX SEDGE
SWAMP MILKWEED	CANADA WILD RYE
BUTTERFLY MILKWEED	VIRGINIA WILD RYE
PURPLE CONEFLOWER	FOWL MANNA GRASS
FALSE SUNFLOWER	LITTLE BLUESTEM
GREAT BLUE LOBELIA	WOOL GRASS
WILD BERGAMOT	PRAIRIE CORDGRASS
FOXGLOVE BEARDTONGUE	**TEMPORARY COVER**
MOUNTAIN MINT	SEED OATS
YELLOW CONEFLOWER	
BLACK-EYED SUSAN	
WILD SENNA	
RIDDELL'S GOLDENROD	
NEW ENGLAND ASTER	
BLUE VERVAIN	
GOLDEN ALEXANDER	

RECOMMENDED SEEDING RATE: 30 LBS/ACRE

SEED MIX AVAILABLE:
NATIVE CONNECTIONS
3815 N WESTNEDGE AVE
KALAMAZOO, MI 49004
T 269-459-6900

ECONOMY PRAIRIE MIX

FORBS	GRASSES
CANADA THIMBLEWEED	BIG BLUESTEM
COMMON MILKWEED	FIELD OVAL SEDGE
BUTTLERFLY MILKWEED	CANADA WILD RYE
LANCE-LEAF COREOPSIS	BOTTLEBRUSH GRASS
PARTRIDGE PEA	JUNE GRASS
SHOWY TICK TREFOIL	LITTLE BLUESTEM
SNEEZEWEED	INDIAN GRASS
ROUND-HEADED BUSH CLOVER	PRAIRIE DROPSEED
ROUGH BLAZINGSTAR	**TEMPORARY GRASSES**
WILD BERGAMOT	SEED OATS
FOXGLOVE BEARDTONGUE	
HAIRY BEARDTONGUE	
SLENDER MOUNTAIN MINT	
YELLOW CONEFLOWER	
BLACK-EYED SUSAN	
WILD SENNA	
PRAIRIE DOCK	
OLD FIELD GOLDENROD	
STIFF GOLDENROD	
SHOWY GOLDENROD	
HEATH ASTER	
NEW ENGLAND ASTER	
SKY BLUE ASTER	
FROST ASTER	
COMMON SPIDERWORT	
IRONWEED	
GOLDEN ALEXANDER	

RECOMMENDED SEEDING RATE:
30 LBS/ACRE

SEED MIX AVAILABLE:
NATIVE CONNECTIONS
3815 N WESTNEDGE AVE
KALAMAZOO, MI 49004
T 269-459-6900

BASIC WET SEDGE MEADOW

FORBS	GRASSES
ANGELICA	BLUE JOINT GRASS
SWAMP MILKWEED	PORCUPINE SEDGE
BONESET	FOX SEDGE
SNEEZEWEED	VIRGINIA WILD RYE
SOUTHERN BLUE FLAG IRIS	SOFT RUSH
GREAT BLUE LOBELIA	RICE CUT GRASS
SEEDBOX	SWITCHGRASS
MONKEY FLOWER	FOWL BLUEGRASS
FOXGLOVE BEARDTONGUE	DARK GREEN BULRUSH
BLACK-EYED SUSAN	**TEMPORARY COVER**
WILD SENNA	SEED OATS
RIDDELL'S GOLDENROD	
NEW ENGLAND ASTER	
BLUE VERVAIN	
TALL IRONWEED	
GOLDEN ALEXANDER	

RECOMMENDED SEEDING RATE: 35 LBS/ACRE

SEED MIX AVAILABLE:
NATIVE CONNECTIONS
3815 N WESTNEDGE AVE
KALAMAZOO, MI 49004
T 269-459-6900

LOW MAINTENANCE FESCUE MIX

GRASSES
HARD FESCUE (PREMIUM VARIETY)
SHEEP FESCUE
CHEWINGS FESCUE
CREEPING RED FESCUE

RECOMMENDED SEEDING RATE: 200 LBS/ACRE

SEED MIX AVAILABLE:
NATIVE CONNECTIONS
3815 N WESTNEDGE AVE
KALAMAZOO, MI 49004
T 269-459-6900

GENERAL SEED NOTE:

ALL LAWN AREAS DESIGNATED TO BE SEEDED, SHALL BE HYDRO-SEEDED WITH SPECIFIED BLENDS, AND STABILIZED WITH WOOD CELLULOSE FIBER MULCH (2,000 LBS PER ACRE) . IN AREAS SUBJECT TO EROSION, SEEDED LAWN SHALL BE FURTHER STABILIZED WHERE NECESSARY WITH BIODEGRADABLE EROSION BLANKET AND STAKED UNTIL ESTABLISHED. ALL SEED SHALL BE APPLIED OVER A MINIMUM 3" PREPARED TOPSOIL, AND SHALL BE KEPT MOIST AND WATERED DAILY UNTIL ESTABLISHED.
SEEDING INSTALLATION SHALL OCCUR ONLY:
SPRING: APRIL1 TO JUNE1
FALL: AUGUST 15 TO OCTOBER 15

GROUNDCOVER LEGEND

1 LOW MAINTENANCE FESCUE MIX
2 ECONOMY PRAIRIE MIX
3 BASIC WET SEDGE MEADOW
4 EMERGENT WETLAND SEED MIX: NATIVE WILDFLOWERS + RUSHES
5 RAIN GARDEN SEED MIX
6 EXISTING UNDERSTORY/GROUNDCOVER TO REMAIN

ROCHESTER HILLS MICHIGAN
PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

CITY FILE NO. 25-0248, SECTION #8
NOT TO BE USED AS CONSTRUCTION DRAWINGS

ROCHESTER HILLS MICHIGAN

VIRIDIS Design Group
1430 Monroe Ave NW, Suite 210
Grand Rapids, MI 49505
(616) 375-0945

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

SEAL

PROJECT
Eugene Nowicki Park

CLIENT
City of Rochester Hills

PROJECT LOCATION
Part of the NE. 1/4
of Section 8
T.3N. , R.11E.
City of Rochester Hills,
Oakland County, Michigan

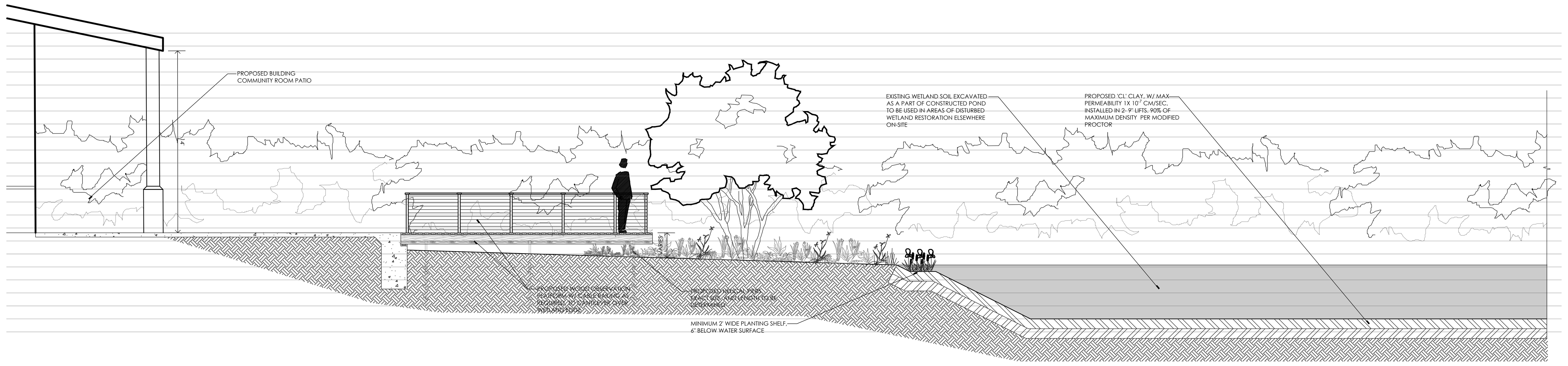
SHEET
Seed Plan

811
Know what's below
Call before you dig.

REVISIONS
2025/08/05 ISSUED FOR PRELIMINARY SP REVIEW
2025/09/12 PER CITY REVIEW

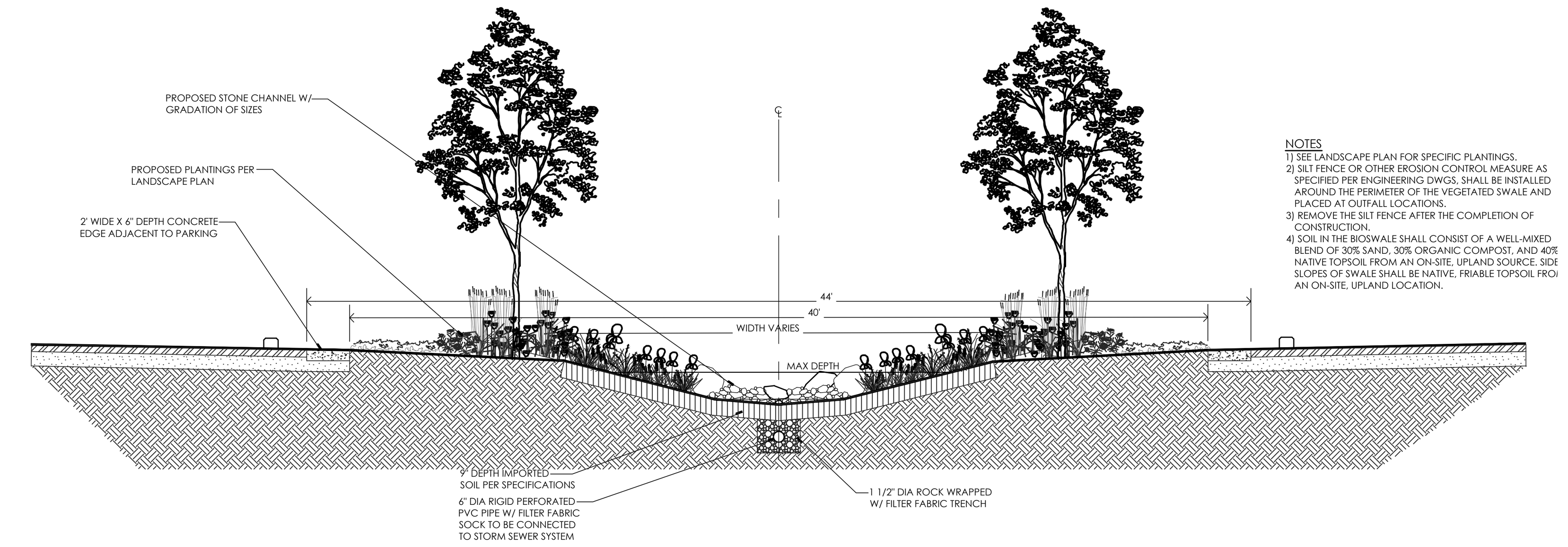
DRAWN BY: M. Sandberg
DESIGNED BY: G. Ostrowski
APPROVED BY: G. Ostrowski
DATE: 08/05/2025
SCALE: 1" = 60'
60 30 0 30 60 90

NFE JOB NO. O557
SHEET NO. L15



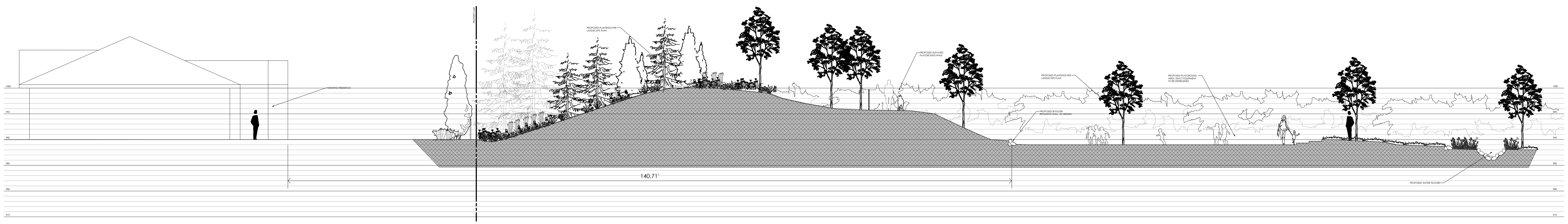
A1 OBSERVATION PLATFORM/CONSTRUCTED POND SECTION

NTS



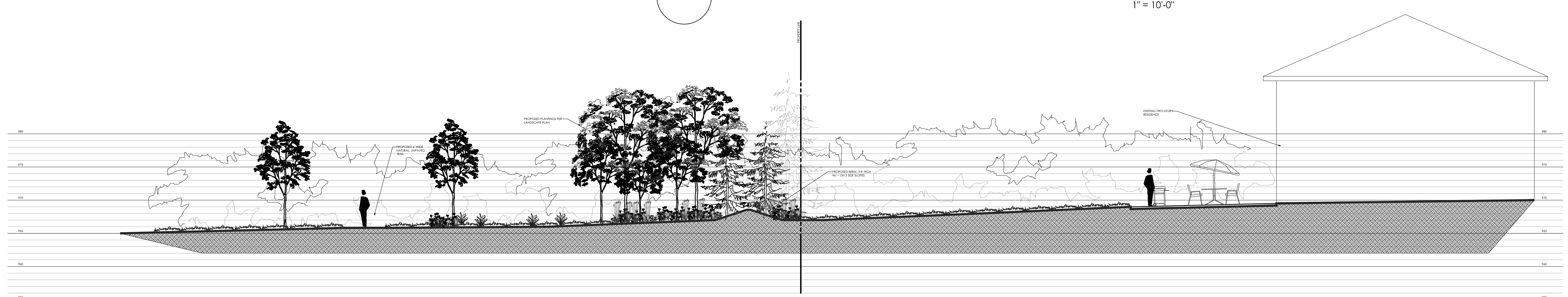
A2 TYPICAL PARKING LOT BIOSWALE AREA

NTS



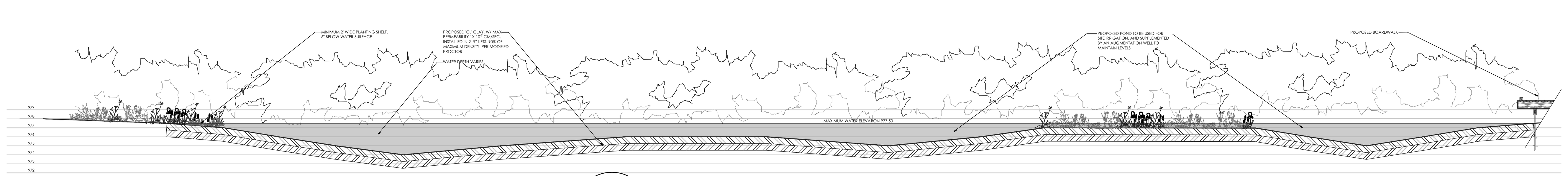
A3 PARTIAL PLAYGROUND/BERM SECTION

1" = 10'-0"



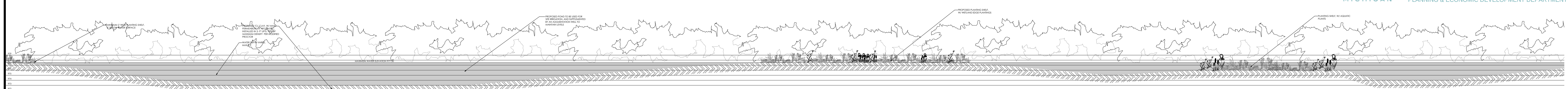
A4 TYPICAL NORTHEAST PARK/RESIDENTIAL BUFFER

1" = 10'-0"



A5 CONSTRUCTED POND EAST/WEST SECTION

1" = 10'-0"



A6 CONSTRUCTED POND NORTH/SOUTH SECTION

1" = 10'-0"

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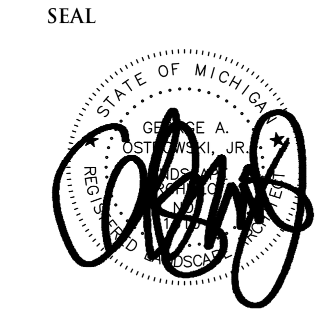
SEAL



PROJECT
Eugene Nowicki Park

CLIENT
City of Rochester Hills

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City of Rochester Hills,
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SHEET
Illustrative Sections

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ROCHESTER HILLS MICHIGAN
PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

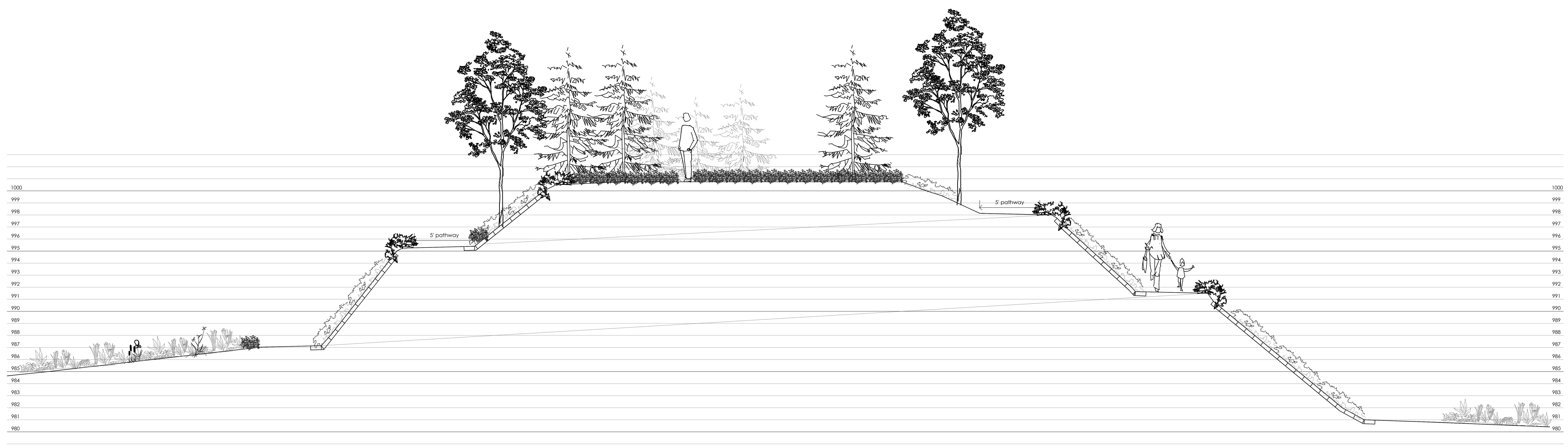
DRAWN BY:
G. Ostrowski
DESIGNED BY:
G. Ostrowski
APPROVED BY:
G. Ostrowski
DATE:
08/05/2025
SCALE: VARIES

CITY FILE NO. 25-0248, SECTION #8
NOT TO BE USED AS CONSTRUCTION DRAWINGS

NFE JOB NO.
O557

SHEET NO.
L16

A7 EAST/WEST LAND SCULPTURE SECTION



A8 NORTH/SOUTH LAND SCULPTURE SECTION

NOTE:
ALL PROPOSED ELEVATIONS AND GRADES ARE BASED ON PRELIMINARY GRADING PLAN. ALL HEIGHTS, SLOPES AND GRADES ARE SUBJECT TO CHANGE BASED ON FINAL GRADING PLAN

ROCHESTER HILLS MICHIGAN

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811
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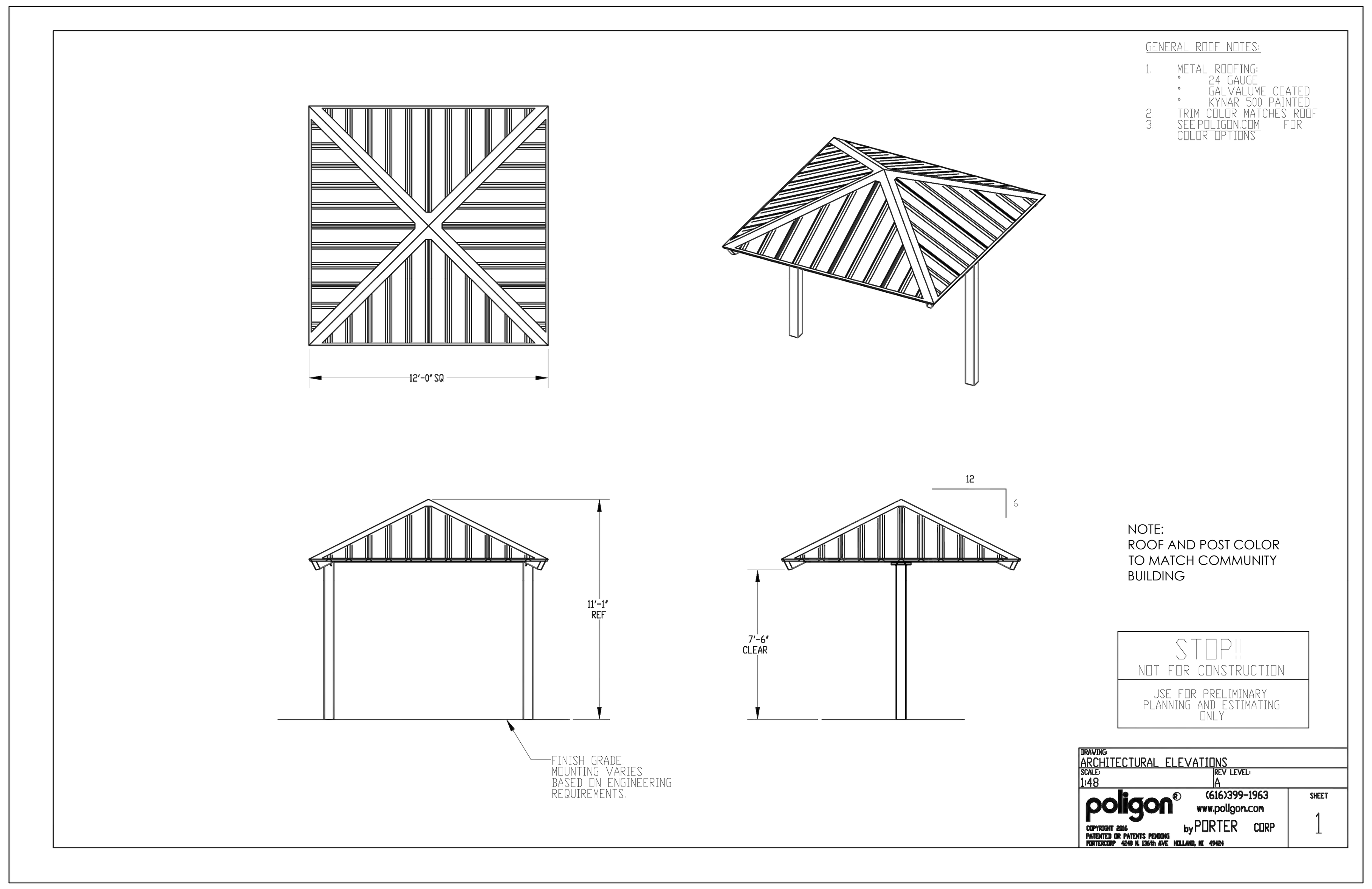
REVISIONS
2025/08/05 ISSUED FOR PRELIMINARY SP REVIEW
2025/09/12 PER CITY REVIEW

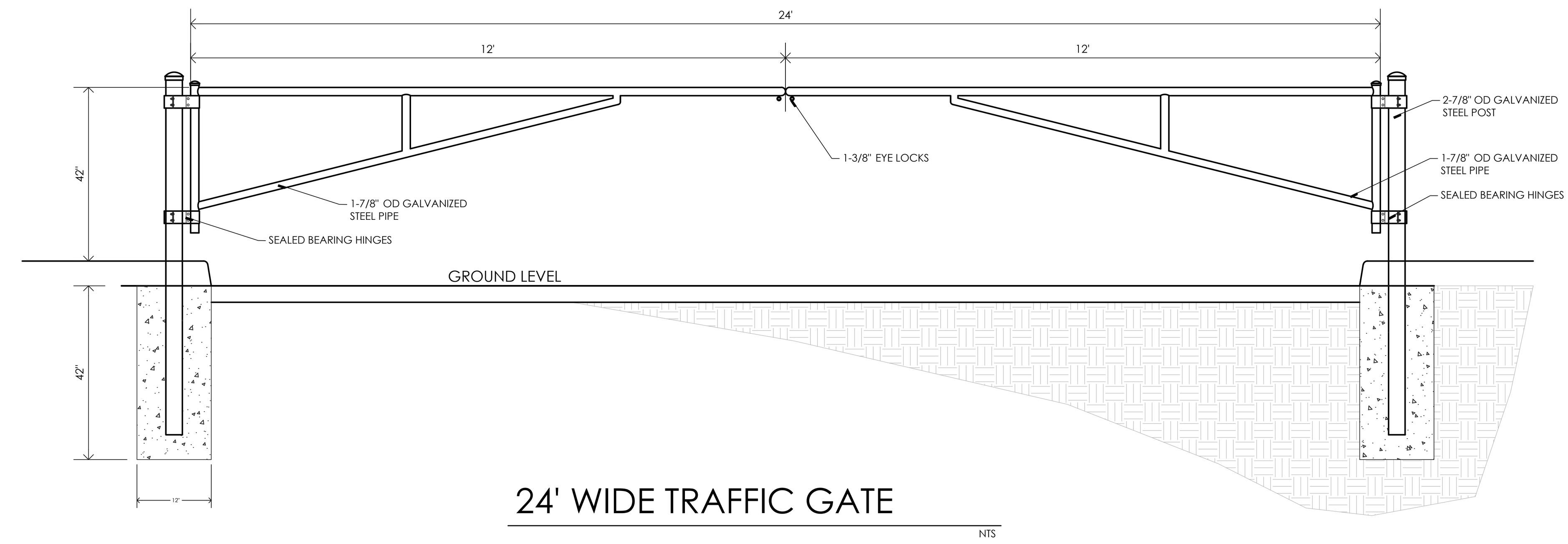
DRAWN BY:
G. Ostrowski
DESIGNED BY:
G. Ostrowski
APPROVED BY:
G. Ostrowski
DATE:
08/05/2025
SCALE: VARIES

NFE JOB NO.
O557

SHEET NO.
L17

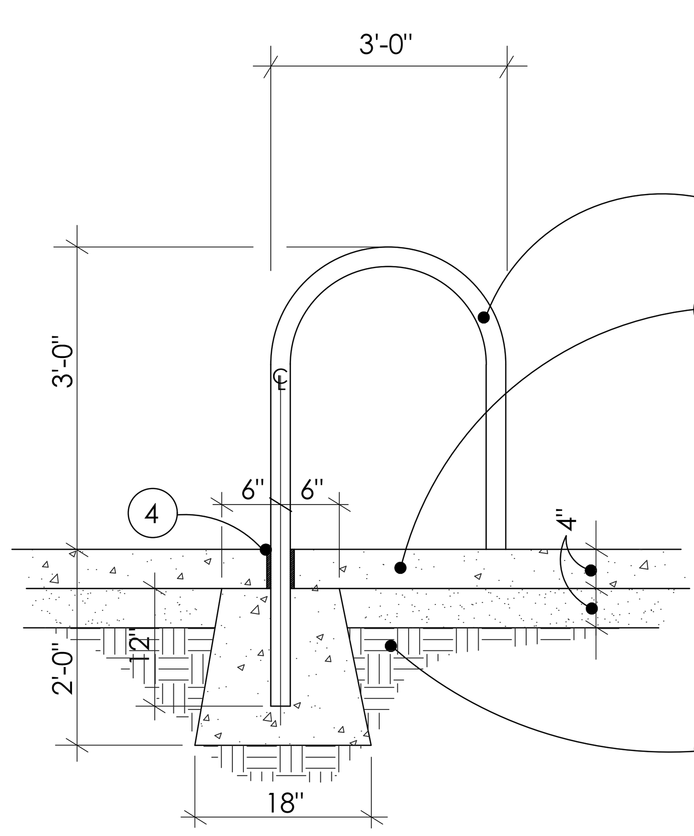


DOG PARK SHADE STRUCTURE



24' WIDE TRAFFIC GATE

NTS

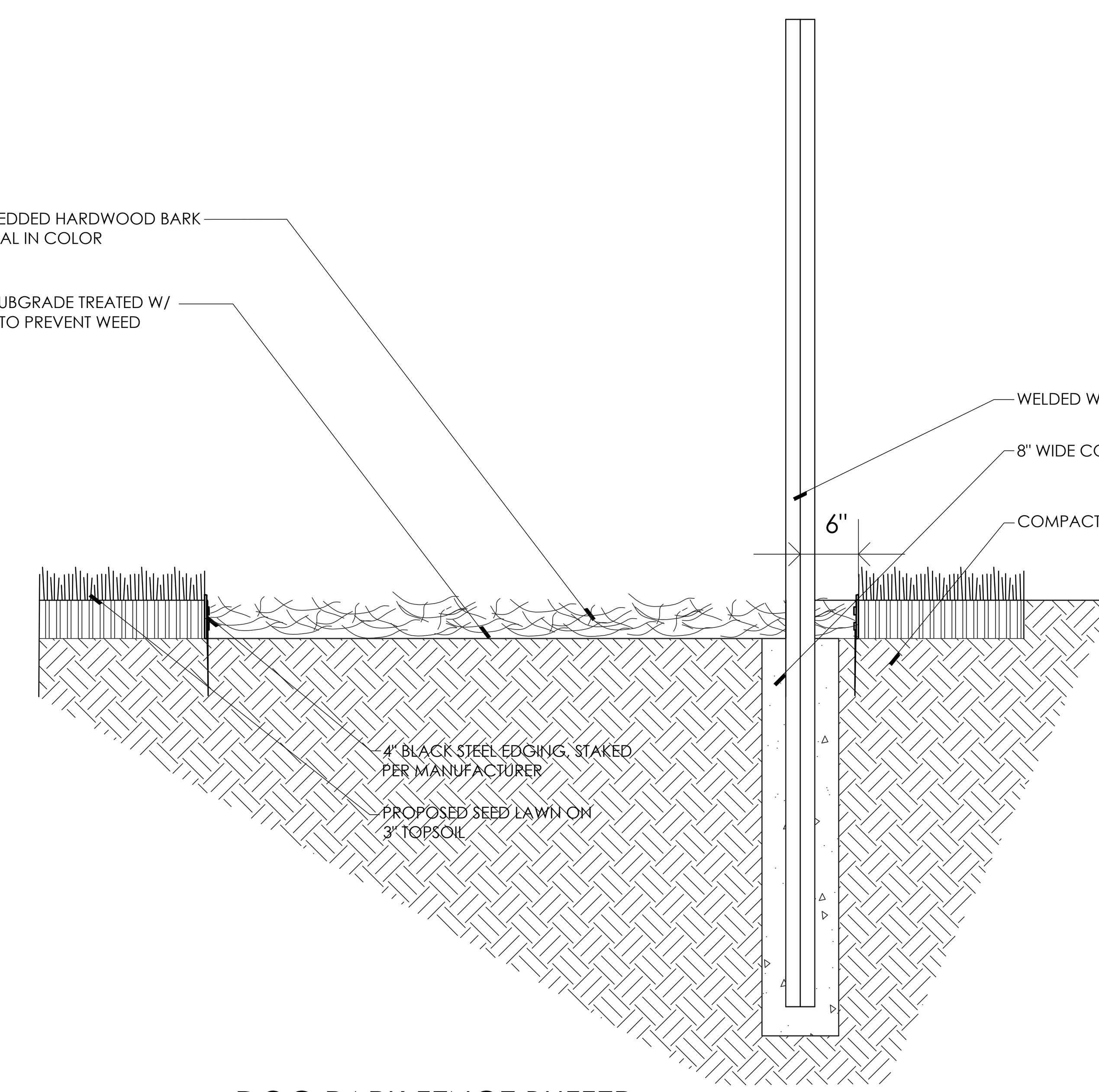


1. POWDER COATED BIKE LOOP. COLOR SHALL BE BLACK.
2. 4" CONC. SLAB THICKENED TO ACCEPT BIKE RACK INSTALLATION ON 4" COMP. SAND AS SHOWN.
3. COMP. SUBGRADE TO 95% MOD. PROC.
4. EXPANSION JOINT W/ SEALANT- SEE SPECS.

MFR:
MADRAX
MODEL NO. U190-IG W/ TGIC POWDER COAT FINISH OR APPROVED SUBSTITUTE.

HOOP BIKE RACK

NTS



DOG PARK FENCE BUFFER

NTS

ROCHESTER HILLS MICHIGAN

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

CITY FILE NO. 25-024B, SECTION #8
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PONTIAC, MI 48342-5032
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SEAL

PROJECT
Eugene Nowicki Park

CLIENT
City of Rochester Hills

PROJECT LOCATION
Part of the NE. 1/4
of Section 8
T.3N. , R.11E.
City of Rochester Hills,
Oakland County, Michigan

SHEET
Landscape Notes
and Details

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REVISIONS
2025/08/05 ISSUED FOR PRELIMINARY SP REVIEW
2025/09/12 PER CITY REVIEW

DRAWN BY:
G. Ostrowski
DESIGNED BY:
G. Ostrowski
APPROVED BY:
G. Ostrowski
DATE:
08/05/2025
SCALE: VARIES

NFE JOB NO. O557
SHEET NO. L18

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.

CONSTRUCTION NOTES:

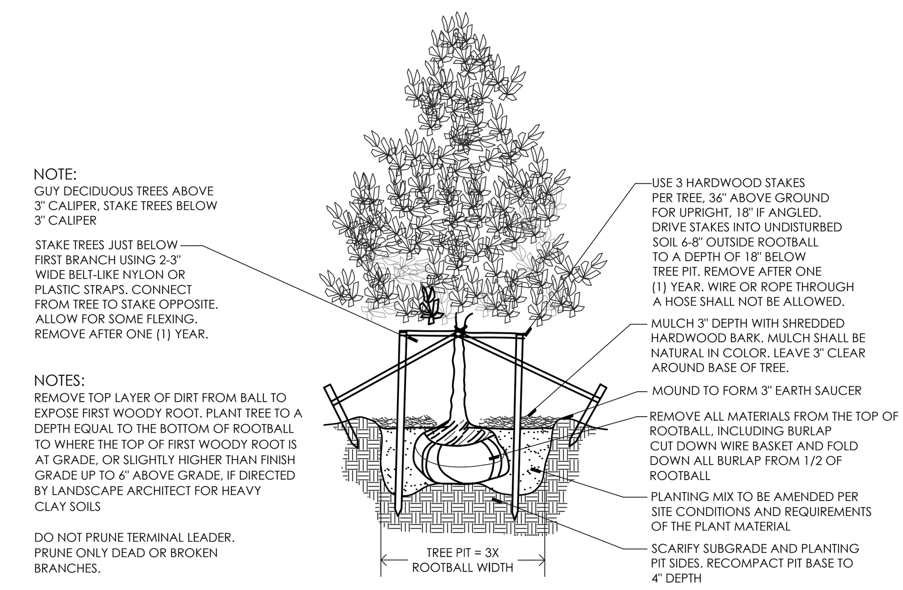
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SURVEY INFORMATION INCLUDING THE UTILITY SYSTEMS BEFORE ANY DEMOLITION OR CONSTRUCTION WORK OCCURS. ANY DISCREPANCIES WITH THE SURVEY INFORMATION SHALL BE REPORTED TO THE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.
2. CONTRACTOR 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. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND / OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CITY ENGINEER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO LACK OF SUCH NOTIFICATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
5. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
6. SEE SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS, MATERIALS, AND EXECUTION.
7. ALL PROPERTY LINES AND LOT LINES SHALL BE VERIFIED PRIOR TO COMMENCING WORK.
8. CONTRACTOR SHALL SUBMIT ALL SAMPLES PER SPECIFICATIONS. ALL SAMPLES SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
9. DIMENSIONAL FLEXIBILITY SHALL BE WITHIN PLANT BEDS ONLY.
10. CONTRACTOR SHALL COORDINATE ALL SITE LAYOUT WITH THE LANDSCAPE ARCHITECT AND REPORT ANY DIMENSIONAL DISCREPANCIES PRIOR TO CONSTRUCTION.
11. HANDICAPPED RAMPS SHALL MEET ALL CURRENT BARRIER FREE DESIGN CODES.

GRADING 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. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND / OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CITY ENGINEER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO LACK OF SUCH NOTIFICATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
5. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
6. NO CHANGE IN CONTRACT PRICE WILL BE ALLOWED FOR ACTUAL OR CLAIMED 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.
8. 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.

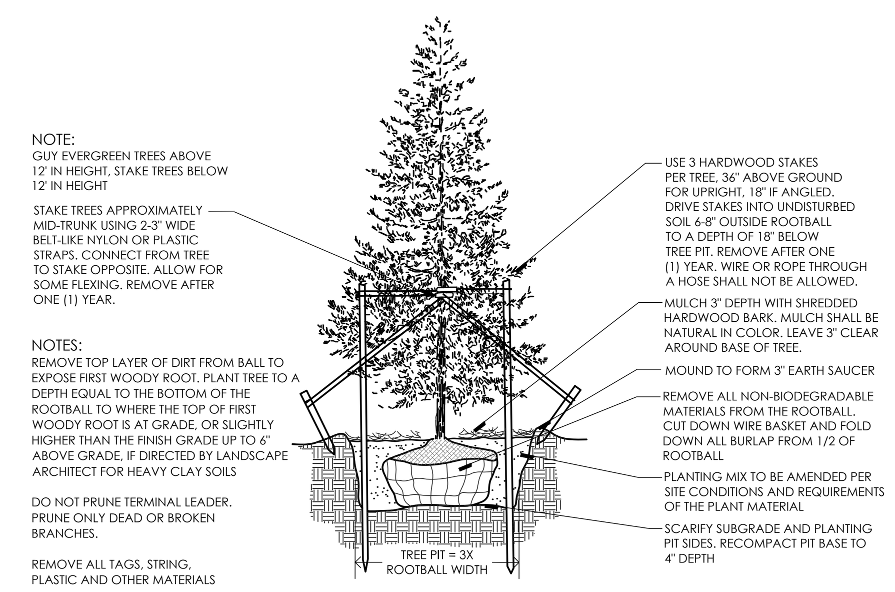
PLANTING NOTES:

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. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE LANDSCAPE ARCHITECT OR ANY DISCREPANCIES.
5. 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.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH CONSTRUCTION INSTALLATION OPERATIONS.
7. 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.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
9. SEE SPECIFICATIONS, PLANT LIST AND PLANTING DETAILS FOR PLANTING REQUIREMENTS, MATERIALS AND EXECUTION.
10. ALL TREES TO HAVE CLAY LOAM OR CLAY BALLS - TREES WITH SAND BALLS SHALL NOT BE ACCEPTED.
11. 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.
12. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
13. THE CONTRACTOR TO VERIFY PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL.
14. THE CONTRACTOR SHALL PLACE 3" DEPTH OF SHREDDED BARK MULCH IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED.



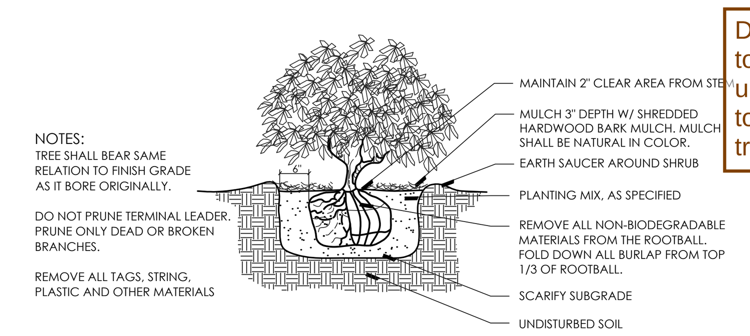
DECIDUOUS TREE PLANTING DETAIL

NTS



EVERGREEN TREE PLANTING DETAIL

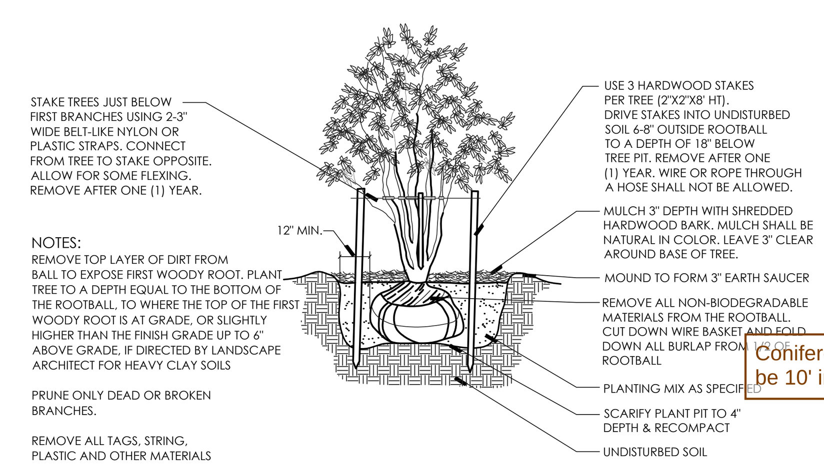
NTS



SHRUB PLANTING DETAIL

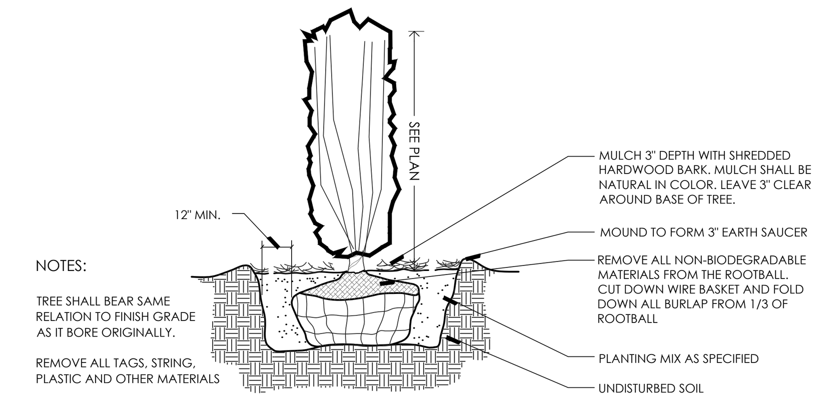
DECIDUOUS SHRUB

NTS



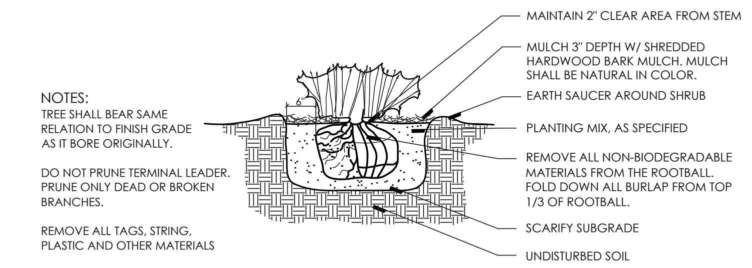
MULTI-STEM TREE PLANTING DETAIL

NTS



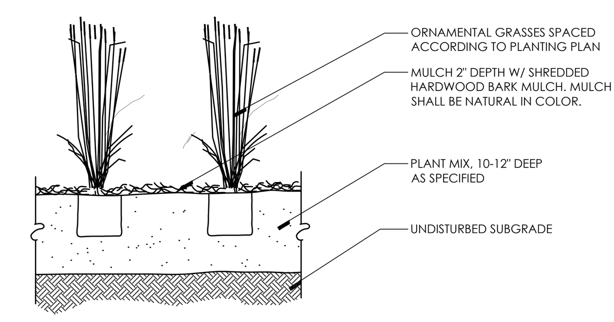
UPRIGHT EVERGREEN SHRUB PLANTING DETAIL

NTS



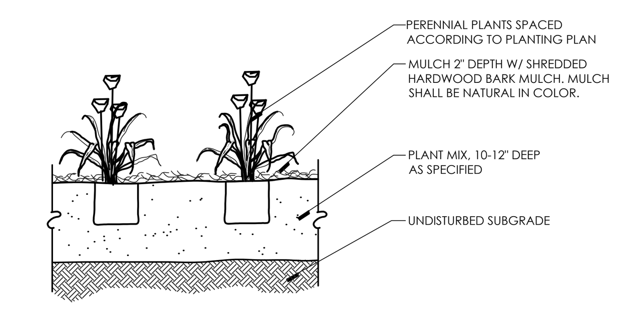
HEDGE PLANTING DETAIL

NTS



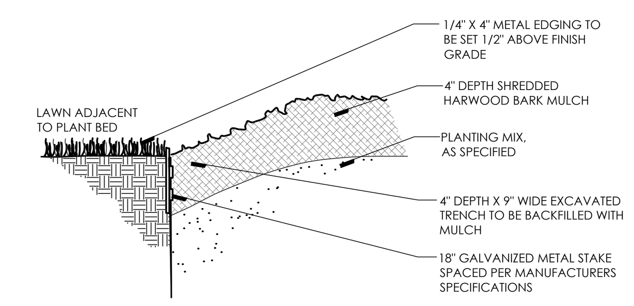
ORNAMENTAL GRASS PLANTING DETAIL

NTS



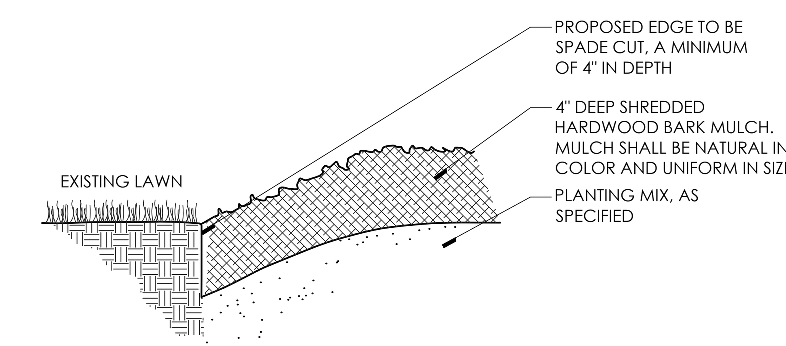
PERENNIAL PLANTING DETAIL

NTS



METAL EDGING DETAIL

NTS



SPADE CUT EDGE DETAIL

NTS

PLANT SCHEDULE

Deciduous trees are to be 3" in caliper unless counting towards replacement trees

Coniferous trees are to be 10' in height

KEY	QTY	BOTANICAL/COMMON NAME	SIZE	SPACING	ROOT	COMMENT	UNIT/TOTAL COST
DECIDUOUS TREES							
AS	33	Acer saccharum 'Green Mountain' Green Mountain Sugar Maple	3.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $10,725
AF	11	Aesculus flava Yellow Buckeye	2.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $3,575
AG	67	Amelanchier x grandiflora 'Autumn Brilliance' Autumn Brilliance Serviceberry	3" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$275 / $18,425
BN	22	Betula nigra River Birch	10' - 12' HT	SEE PLAN	B&B	CLUMP FORM, 3 - 4 CANES	$325 / $7,150
CO	13	Carya ovata Shagbark Hickory	2.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $3,900
CH	13	Celtis occidentalis Hackberry	2.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $4,225
CC	63	Cercis canadensis Eastern Redbud	8' - 10' HT	SEE PLAN	B&B	CLUMP FORM, FULL HEADS	$275 / $17,325
CK	13	Cladrastis kentukea Yellowwood	2.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $4,225
GT	23	Gleditsia triacanthos 'Shademaster' Shademaster Honeylocust	3.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $7,475
LT	18	Liriodendron tulipifera Tuliptree	2.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $5,850
NS	53	Nyssa sylvatica 'Green Gable' Green Gable Black Tupelo	3.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $17,225
OV	23	Ostrya virginiana American Hophornbeam	2.5" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $7,475
QA	12	Quercus alba White Oak	2.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $3,900
QB	30	Quercus bicolor Swamp White Oak	3.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $9,750
QM	17	Quercus macrocarpa Bur Oak	2.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $5,525
QX	5	Quercus x bebbiana Bebb's Oak	3.0" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS	$325 / $1,625
CONIFEROUS TREES							
AB	24	Abies balsamea Balsam Fir	8' - 10' HT	SEE PLAN	B&B	FULL TO GROUND	$375 / $9,000
PA	4ED	Picea abies 'Cuppressina' Columnar Norway Spruce	10' HT	SEE PLAN	B&B	FULL TO GROUND	$375 / $1,500
PD	34	Picea glauca 'Densata' Black Hills Spruce	8' - 10' HT	SEE PLAN	B&B	FULL TO GROUND	$375 / $12,750
PG	36	Picea glauca White Spruce	8' - 10' HT	SEE PLAN	B&B	FULL TO GROUND	$375 / $13,500
PS	33	Pinus strobus White Pine	8' - 10' HT	SEE PLAN	B&B	FULL TO GROUND	$375 / $12,375
TC	51	Tsuga canadensis Eastern Hemlock	8' - 10' HT	SEE PLAN	B&B	FULL TO GROUND	$375 / $19,125
TD	11	Taxodium distichum 'Shawnee Brave' Shawnee Brave Bald Cypress	8' - 10' HT	SEE PLAN	B&B	FULL TO GROUND	$375 / $4,125
SHRUBS							
CA	16	Ceanothus americanus New Jersey Tea	24" HT	SEE PLAN	CONT		$50 / $800
DL	43	Diervilla lonicera 'Michigan Sunset' Michigan Sunset Bronzeleaf Honeysuckle	30" HT	3' OC	B&B		$50 / $2,150
HQ	15	Hydrangea quercifolia Oakleaf Hydrangea	30" HT	SEE PLAN	B&B		$50 / $750
SC	14	Sambucus canadensis American Elderberry	24" HT	SEE PLAN	CONT		$50 / $700
TO	17	Thuja occidentalis 'Nigra' Dark Green Arborvitae	5' HT	5' OC	B&B		$50 / $850
GRASSES							
CF	20	Calamagrostis x acutiflora 'Karl Foerster' Karl Foerster Feather Reed Grass	3 GAL	30" OC	CONT		$30 / $600
EP	14	Echinacea purpurea 'Cheyenne Spirit' Cheyenne Spirit Coneflower	2 GAL	24" OC	CONT		$30 / $420
SH	104	Sporobolus heterolepis Prairie Dropseed	2 GAL	24" OC	CONT		$30 / $3,120

ROCHESTER HILLS MICHIGAN

PROJECT: J2025-0235/PSP2025-0014

REVISION: #1

RECIEVED: 9/11/2025

PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

CITY FILE NO. 25-0248, SECTION #8

NOT TO BE USED AS CONSTRUCTION DRAWINGS

ROCHESTER HILLS MICHIGAN

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1430 Monroe Ave NW, Suite 210
Grand Rapids, MI 49505
(616) 375-0945

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

SEAL

STATE OF MICHIGAN
GEORGE A. OSTROWSKI, JR.
REGISTERED LANDSCAPE ARCHITECT

PROJECT
Eugene Nowicki Park

CLIENT
City of Rochester Hills

PROJECT LOCATION
Part of the NE. 1/4
of Section 8
T.3N. , R.11E.
City of Rochester Hills,
Oakland County, Michigan

SHEET
Landscape Notes
and Details

811
Know what's below
Call before you dig.

REVISIONS
2025/08/05 ISSUED FOR PRELIMINARY SP REVIEW
2025/09/12 PER CITY REVIEW

DRAWN BY:
G. Ostrowski

DESIGNED BY:
G. Ostrowski

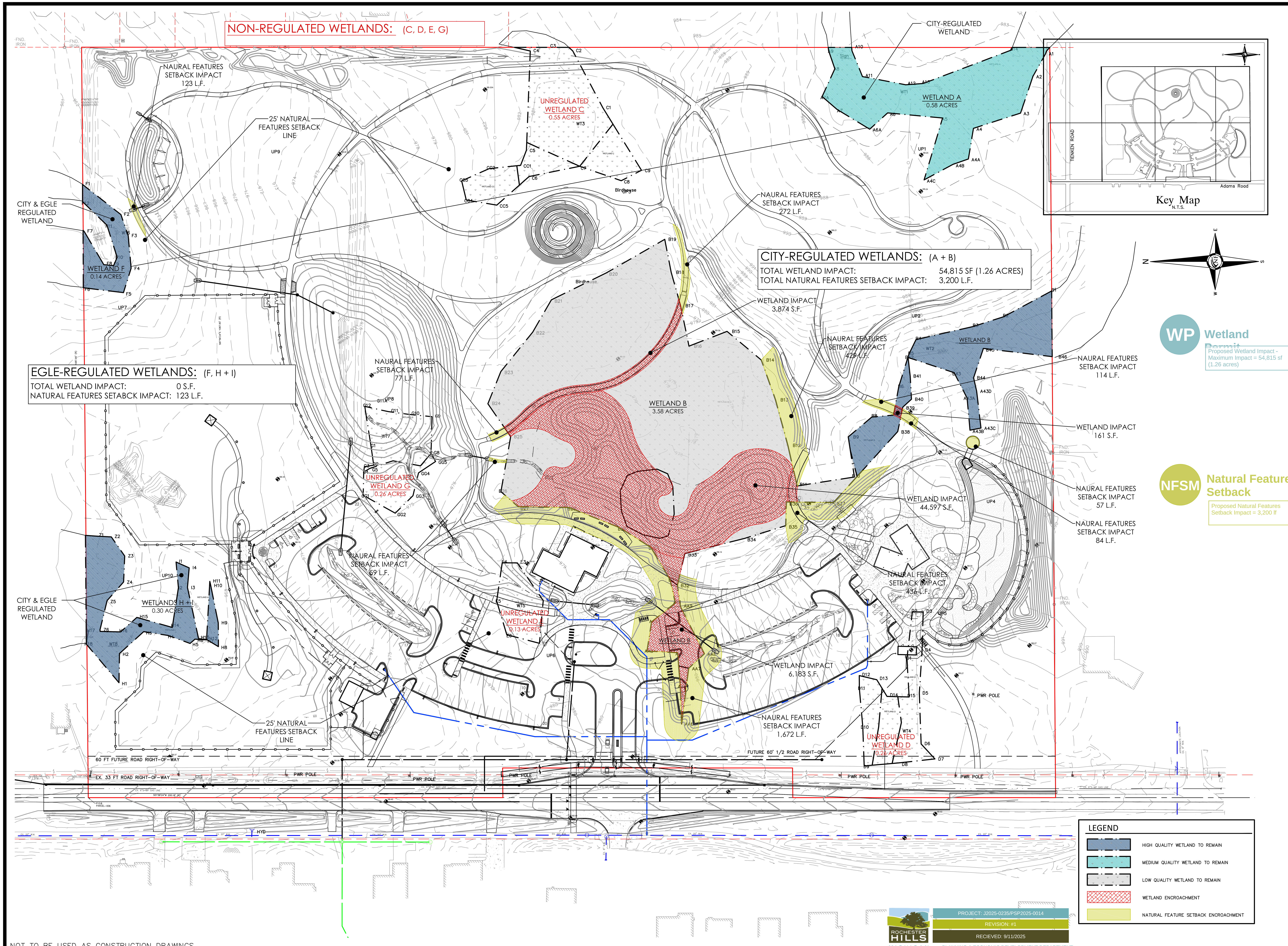
APPROVED BY:
G. Ostrowski

DATE:
08/05/2025

SCALE: VARIES

NFE JOB NO.
O557

SHEET NO.
L19



NOT TO BE USED AS CONSTRUCTION DRAWINGS

ROCHESTER HILLS MICHIGAN

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
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WWW.NOWAKFRAUS.COM

SEAL

STATE OF MICHIGAN STEVEN W. SUTTON ENGINEER NO. 6201050492 LICENSED PROFESSIONAL ENGINEER

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwert, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N , R-11-E
City of Rochester Hills,
Oakland County, Michigan

SHEET
Wetland Impacts Exhibit

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
2025-08-05	PRELIMINARY SITE PLAN
2025-09-12	PER SITE PLAN REVIEW

DRAWN BY:
M. Sandberg

DESIGNED BY:

APPROVED BY:
P. Kotrba

DATE:
2025-05-01

SCALE: 1" = 60'

60 30 0 30 60 90

NFE JOB NO. O557

SHEET NO. L20

NOT TO BE USED AS CONSTRUCTION DRAWINGS

CODE SUMMARY

		SECTION
APPLICABLE CODES:	2021 MICHIGAN BUILDING CODE (MBC 2021) 2021 MICHIGAN PLUMBING CODE (MPC 2021) 2021 MICHIGAN MECHANICAL (MMC 2021) 2023 NATIONAL ELECTRICAL CODE (NEC 2023) WITH PART 8 STATE AMENDMENTS 2017 ICC A117.1 - ACCESSIBLE & USEABLE BUILDING & FACILTIES 2021 MICHIGAN ENERGY CODE - INTERNATIONAL ENERGY CONSERVATION CODE 2021 (IECC 2021) 2018 INTERNATIONAL FIRE CODE 2019 NFPA 13 & 13R 2019 NFPA 72 FIRE ALARM CODE	
PROJECT DESCRIPTION:	NEW CONSTRUCTION - COMMUNITY BUILDING - 4,845 SF	
USE GROUPS:	B - BUSINESS AREAS (OFFICES, RESTROOMS, STORAGE, ETC.) - MIXED-USE SEPARATED A-3 - ASSEMBLY (COMMUNITY ROOM)	
MIXED USE / SEPARATION	B TO A-3 = S (1 HR)	T508.4
CONSTRUCTION TYPE:	V-B WITH AUTOMATIC SPRINKLER SYSTEM	602
ALLOWABLE BUILDING: (STORIES & HEIGHT)	B - 3 STORY 60 FEET A-3 - 2 STORY 60 FEET	504.3 & 504.4
ACTUAL BUILDING:	1 STORY 26'-0" ALLOWED	
ALLOWABLE BUILDING AREA:	B - ~~9,000 SF (NS)~~ 36,000 SF A-3 - ~~6,000 SF (NS)~~ 24,000 SF	
ACTUAL BUILDING:	B - 2,495 SF A-3 - 2,350 SF B = 2,495 / ~~9,000 = .28~~ 36,000 = .07 A-3 = 2,350 / ~~6,000 = .39~~ 24,000 = .10 SUM ~~SOME~~ OF RATIOS = ~~.67~~ .17 < 1 = ALLOWED	
FIRE RESITIVE CONST.	STRUCTURAL FRAME: 0 HOUR EXT. BEARING WALLS: 0 HOUR INT BEARING WALLS: 0 HOUR EXT NON-BRG WALLS 0 HOUR INTR NON-BRG WALLS: 0 HOUR FLOOR CONSTRUCTION: 0 HOUR ROOF CONSTRUCTION: 0 HOUR	T601 T601 T601 T601 T601 T601 T601
FIRE PROTECTION SYSTEMS:	THE COMMUNITY BUILDING WILL HAVE A AUTOMATIC SPRINKLER SYSTEM THROUGHOUT.	903
	THE COMMUNITY BUIDLING WILL NOT HAVE A AUTOMATIC FIRE ALARM SYSTEM.	907
	GROUP A - OCCUPANT LOAD IS LESS THAN 300 AND HAS 1 LEVEL OF EXIT DISCHARGE.	907.2.1
	GROUP B - OCCUPANT LOAD IS LES THAT 500 AND HAS 1 LEVEL OF EXIT DISCHARGE.	907.2.2
OCCUPANT LOAD COMMUNITY BUILDING		T1004.5

OCCUPANT LOAD

OCCUPANCY TYPE	FUNCTION OF SPACE	AREA	FLOOR AREA - SF PER	OCCUPANTS
BUSINESS (B)	BUSINESS AREAS	2,419	150	17
ASSEMBLY (A-3)	ASSEMBLY (CONCENTRATED CHAIRS ONLY - NOT FIXED)	1,856	7 NET	266
MECHANICAL RM	MECHANICAL	157	300	1
ACCESSORY STORAGE AREAS	STORAGE	413	300 GROSS	2
TOTAL COMMUNITY BUILDING		4,845 SF		286

COMMON PATH OF EGRESS TRAVEL AND EXIT ACCESS TRAVEL DISTANCE WITH AUTOMATIC SPRINKLER SYSTEM. TABLE 1006.2.1 AND 1017.2

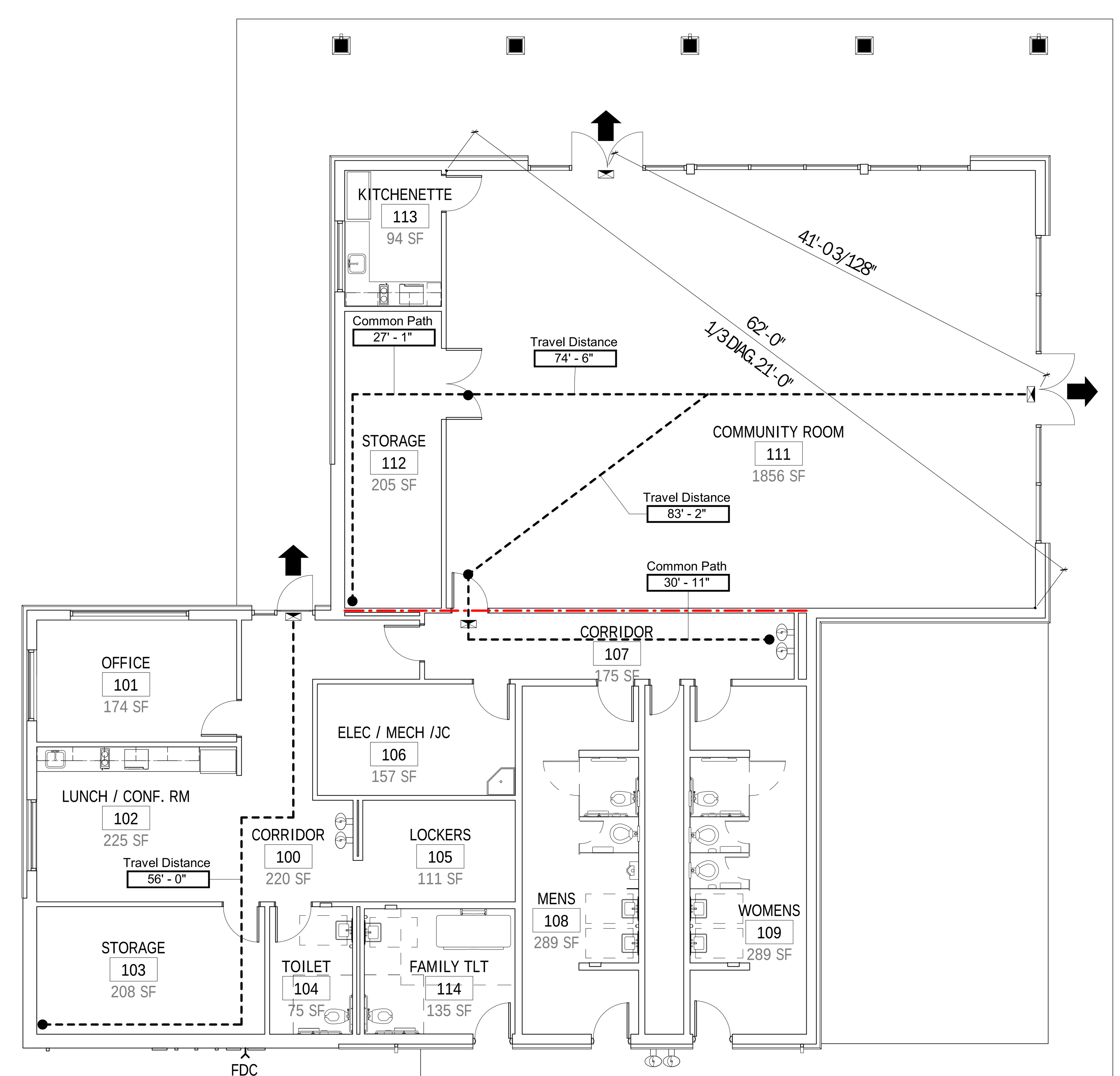
COMMON PATH OF EGRESS (WITH ONE EXIT)	OCCUPANCY GROUP B OCCUPANCY GROUP A	100 FT 75 FT	T 1006.2.1
EXIT ACCESS TRAVEL	OCCUPANCY B OCCUPANCY A-3	300 FT 250 FT	T 1017.2

CODE SUMMARY COMMUNITY BLDG SCALE: 1/2" = 1'-0" REF'D FROM:

A building permit is required for:
1. The dog park shelters (144 sf ea.) per 2021 MBC, Section 105.2(a)(i).
2. Proposed dog wash station
3. Boardwalk patio
4. All bridge structures spanning over water features, wetlands etc.
5. Site light pole bases

CODE COMPLIANCE LEGEND

- 1 HOUR RATED
- EXIT SIGN, REFER TO ELEC. FOR MORE INFOMATION
- EGRESS DOOR
- TRAVEL DISTANCE PATH
- FDC FIRE DEPARTMENT CONNECTION



CODE COMPLIANCE PLAN - COMMUNITY BUILDING SCALE: 1/8" = 1'-0" REF'D FROM: A3.21 1

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT
TRUE NORTH

ROCHESTER HILLS MICHIGAN

A3C COLLABORATIVE ARCHITECTURE
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ANN ARBOR, MI 48104
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F: (866) 732 - 2168
www.a3c.com
Architects Project No: 25021

SEAL
STATE OF MICHIGAN DONALD F. BARRY ARCHITECT No. 1301042291 LICENSED ARCHITECT

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
CODE COMPLIANCE PLAN - COMMUNITY BUILDING

811 Know what's below Call before you dig.

DATE	ISSUED / REVISED
09/12/25	PER SITE PLAN REVIEW

DRAWN BY: KLJ
DESIGNED BY: XXX
APPROVED BY: FEA
DATE: 09/10/25
SCALE: As indicated

NFE JOB NO. 0557
SHEET NO. A2.00

NOT TO BE USED AS CONSTRUCTION DRAWINGS

CODE SUMMARY

APPLICABLE CODES:	2021 MICHIGAN BUILDING CODE (MBC 2021) 2021 MICHIGAN PLUMBING CODE (MPC 2021) 2021 MICHIGAN MECHANICAL (MMC 2021) 2023 NATIONAL ELECTRICAL CODE (NEC 2023) WITH PART 8 STATE AMENDMENTS 2017 ICC A117.1 - ACCESSIBLE & USEABLE BUILDING & FACILTIES 2021 MICHIGAN ENERGY CODE - INTERNATIONAL ENERGY CONSERVATION CODE 2021 (IECC 2021) 2018 INTERNATIONAL FIRE CODE 2019 NFPA 13 & 13R 2019 NFPA 72 FIRE ALARM CODE	SECTION
PROJECT DESCRIPTION:	**NEW CONSTRUCTION - MAINTENANCE BUILDING - 768 SF**	
USE GROUP: CONSTRUCTION TYPE:	S-1 - (MODERATE-HAZARD STORAGE) V-B WITH NO AUTOMATIC SPRINKLER SYSTEM	602
ALLOWABLE BUILDING: (STORIES & HEIGHT)	S (NS) - 1 STORY 40 FEET	504.3 & 504.4
ACTUAL BUILDING:	1 STORY 15'-8" - ALLOWED	
ALLOWABLE BUILDING AREA:	S-1 - 9,000 SF (NS)	
ACTUAL BUILDING:	S-1 - 768 SF - ALLOWED	

FIRE RESITIVE CONST.	STRUCTURAL FRAME:	0 HOUR	T601
	EXT. BEARING WALLS:	0 HOUR	T601
	INT BEARING WALLS:	0 HOUR	T601
	EXT NON-BRG WALLS	0 HOUR	T601
	INTR NON-BRG WALLS:	0 HOUR	T601
	FLOOR CONSTRUCTION:	0 HOUR	T601
	ROOF CONSTRUCTION:	0 HOUR	T601
FIRE PROTECTION SYSTEMS:	THE MAINTENANCE BUILDING WILL NOT HAVE A AUTOMATIC SPRINKLER SYSTEM.		903
	GROUP S-1 LESS THAN 12,000 SF & 5,000 SF AND ONLY 1 STORY.		
	THE MAINTENANCE BUIDLING WILL NOT HAVE A AUTOMATIC FIRE ALARM SYSTEM.		907
	GROUP S - LESS THAN 3 STORIES		907.2.10

OCCUPANT LOAD MAINTENANCE BUILDING — T1004.5

OCCUPANT LOAD				
OCCUPANCY TYPE	FUNCTION OF SPACE	AREA	FLOOR AREA - SF PER	OCCUPANTS
STORAGE (S-1)	STORAGE AREAS	768	200 GROSS	4
TOTAL MAINTENANCE		768 SF		4

COMMON PATH OF EGRESS TRAVEL AND EXIT ACCESS TRAVEL DISTANCE WITHOUT AUTOMATIC SPRINKLER SYSTEM. TABLE 1006.2.1 AND 1017.2

COMMON PATH OF EGRESS (WITH ONE EXIT)	OCCUPANCY GROUP S-1, OL<30, WITHOUT SPRINKLER SYSTEM	100 FT	T 1006.2.1
EXIT ACCESS TRAVEL	OCCUPANCY S-1 WITHOUT SPRINKLER SYSTEM	200 FT	T 1017.2

PROJECT DESCRIPTION:	**NEW CONSTRUCTION - FAMILY BATHROOMS BUILDING (STAND ALONE) - 320 SF**	
USE GROUP: CONSTRUCTION TYPE:	U - (UTILITY AND MISCELLANEOUS) V-B WITH NO AUTOMATIC SPRINKLER SYSTEM	602
ALLOWABLE BUILDING: (STORIES & HEIGHT)	U (NS) - 1 STORY 40 FEET	504.3 & 504.4
ACTUAL BUILDING:	1 STORY 13'-5" - ALLOWED	
ALLOWABLE BUILDING AREA:	U - 5,500 SF (NS)	
ACTUAL BUILDING:	U - 320 SF - ALLOWED	
FIRE PROTECTION SYSTEMS:	THE BUILDING WILL NOT HAVE A AUTOMATIC SPRINKLER SYSTEM OR A AUTOMATIC FIRE ALARM SYSTEM.	903.2.11

OCCUPANT LOAD FAMILY BATHROOMS BUILDING — T1004.5

NO SPECIFIC OCCUPANT LOAD FACTOR (ASSUME MAX. OF 4 IN EACH FAMILY BATHROOM.

COMMON PATH OF EGRESS TRAVEL AND EXIT ACCESS TRAVEL DISTANCE WITHOUT AUTOMATIC SPRINKLER SYSTEM. TABLE 1006.2.1 AND 1017.2

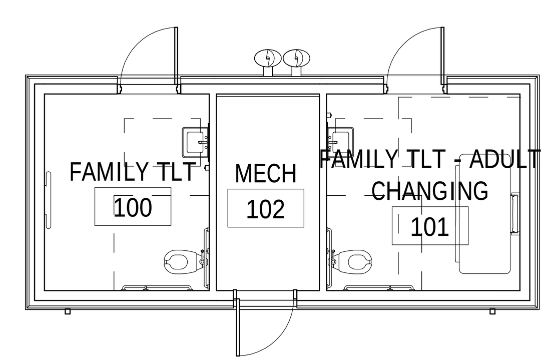
COMMON PATH OF EGRESS (WITH ONE EXIT)	OCCUPANCY GROUP U, OL<30, WITHOUT SPRINKLER SYSTEM	100 FT	T 1006.2.1
EXIT ACCESS TRAVEL	OCCUPANCY U WITHOUT SPRINKLER SYSTEM	300 FT	T 1017.2

PROJECT DESCRIPTION:	**NEW CONSTRUCTION - PAVILION BUILDING - ROOF AREA 3,062 SF (OPEN AIR STRUCTURE)**	
USE GROUP: CONSTRUCTION TYPE:	A-5 - (ASSEMBLY - OPEN AIR PAVILION) V-B WITH NO AUTOMATIC SPRINKLER SYSTEM	602
ALLOWABLE BUILDING: (STORIES & HEIGHT)	A-5 (NS) - UNLIMITED STORIES & 40 FT	T504.3 & T504.4
ACTUAL BUILDING:	1 STORY 18'-1" - ALLOWED	
ALLOWABLE BUILDING AREA:	A-5 - UNLIMITED (NS)	
ACTUAL BUILDING:	A-5 ROOF AREA 3,062 SF - ALLOWED	

OCCUPANT LOAD PAVILION BUILDING — T1004.5

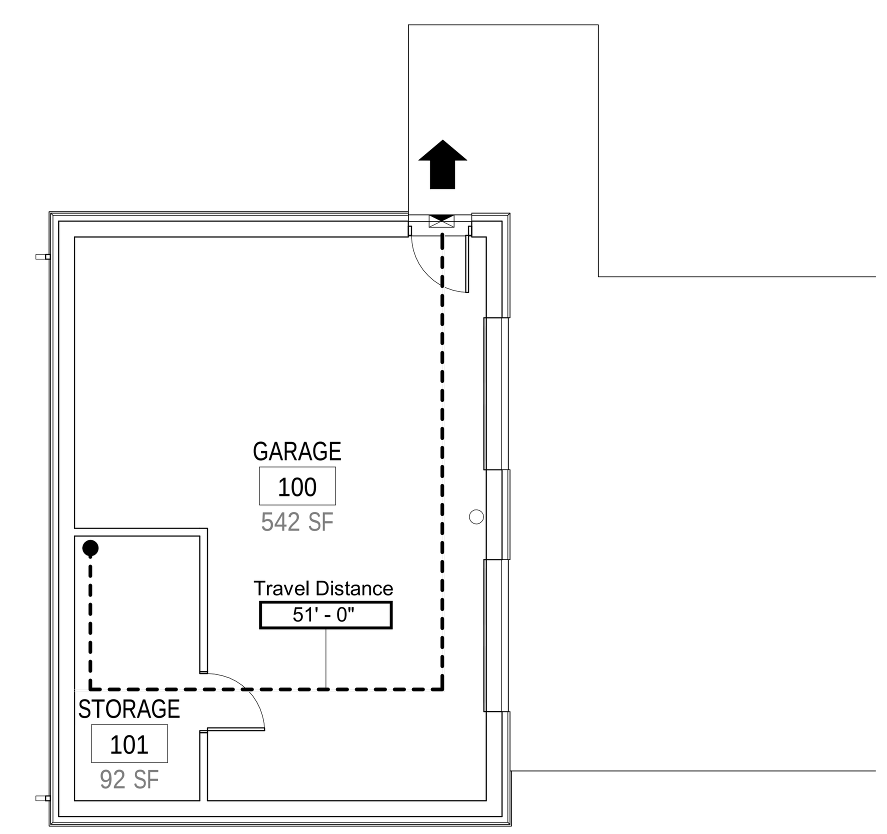
OCCUPANT LOAD				
OCCUPANCY TYPE	FUNCTION OF SPACE	AREA	FLOOR AREA - SF PER	OCCUPANTS
ASSEMBLY (A-5)	ASSEMBLY (UNCONCENTRATED (TABLES & CHAIRS))	3,062	15 NET	205

PAVILION IS SHOWING (14) 8'-0" PICNIC TABLES WITH 8 PEOPLE PER PICNIC TABLE TOTAL OCCUPANTS AT 112.



CODE COMPLIANCE LEGEND

- 1 HOUR RATED
- EXIT SIGN, REFER TO ELEC. FOR MORE INFOMATION
- EGRESS DOOR
- TRAVEL DISTANCE PATH



PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
ROCHESTER HILLS MICHIGAN PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

CODE SUMMARY MAINTENANCE, FAM. BATH & PAVILION — SCALE: 1/2" = 1'-0" — REF'D FROM:

CODE COMPLIANCE PLAN - FAMILY BATHROOMS BUILDING — SCALE: 1/8" = 1'-0" — REF'D FROM: A3.21 — 2

CODE COMPLIANCE PLAN - MAINTENANCE BUILDING — SCALE: 1/8" = 1'-0" — REF'D FROM: A3.21 — 1

ROCHESTER HILLS MICHIGAN

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Architects Project No: 25021

SEAL
STATE OF MICHIGAN DONALD F. BARRY ARCHITECT NO. 1301042291 LICENSED ARCHITECT

PROJECT
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Parks & Natural Resources
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Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
CODE COMPLIANCE PLAN - MAINTENANCE, FAMILY BATHROOMS BUILDING & PAVILION

811 Know what's below Call before you dig.

DATE	ISSUED / REVISED
09/12/25	PER SITE PLAN REVIEW

DRAWN BY: KLJ
DESIGNED BY: XXX
APPROVED BY: FEA
DATE: 09/10/25
SCALE: As indicated

NFE JOB NO. 0557 — SHEET NO. A2.01

C:\Users\kjock\Documents\25021-Arch_R23_Service Building_kjockX9M2A.rvt

NOT TO BE USED AS CONSTRUCTION DRAWINGS

GENERAL NEW WORK NOTES:

1. GENERAL FLOOR PLAN / PARTITION NOTES AND PARTITION TYPES APPLY TO ALL FLOOR PLANS AND ENLARGED FLOOR PLANS INCLUDED WITHIN THIS DOCUMENT SET.
2. SEE SHEET A2.02 FOR PARTITION TYPES LEGEND.
3. ALL NEW PARTITIONS SHALL BE PARTITION TYPE 3Sa, UNO.
4. COORDINATE THE PHASING AND SEQUENCING OF NEW CONSTRUCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS AND WITH CONSTRUCTION PHASING SEQUENCE AS INCLUDED WITHIN GENERAL DEMOLITION NOTES LOCATED ELSEWHERE.
5. ALL INTERIOR PARTITION DIMENSIONS ARE TO FINISH FACE, UNO.
6. MAINTAIN INTEGRITY OF ALL NEW OR EXISTING FIRE RATED PARTITIONS. REFER TO REFLECTED CEILING PLANS FOR FIRE RATED PARTITION LOCATIONS.
7. SEE FLOOR PLANS AND WALL REINFORCEMENT DETAIL FOR WALL REINFORCEMENT TO BE PROVIDED AT "OWNER/TENANT" SUPPLIED AND INSTALLED SYSTEMS FURNITURE. IN ADDITION, THE CONTRACTOR SHALL FURNISH AND INSTALL WALL REINFORCING FOR INSTALLATION OF EQUIPMENT, CASEWORK, TOILET ACCESSORIES, HANDRAILS, ETC.
8. PROVIDE ACOUSTICAL GASKETS AT FLOOR TRACKS OF ALL NEW PARTITIONS. ACOUSTICALLY ATTENUATE ALL BOXES, REGISTERS, AND OTHER PENETRATIONS, ETC. LOCATED WITHIN OR THROUGH NEW PARTITIONS TO MAINTAIN WALL SOUND RATINGS.
9. SEE SHEET A2.21 FOR DOOR SCHEDULE AND RELATED DETAILS.
10. SEE SHEET A2.31 FOR INTERIOR FINISH SCHEDULE AND KEY.
11. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR SUPPLYING MATERIALS OR COMPONENTS. LAYOUT ALL WALLS PRIOR TO COMMENCEMENT OF FRAMING AND NOTIFY ARCHITECT FOR DISPOSITION OF MAJOR DIMENSIONAL CONFLICTS.
12. PROVIDE ADDITIONAL REINFORCEMENT TO STRUCTURE AS REQUIRED FOR ANY CLG. HUNG ITEMS (I.E. TOILET PARTITIONS , FOLDING PARTITIONS, CLG. MOUNTED ITEMS.)
13. BUILDING TO MEET CURRENT MICHIGAN ENERGY CODES

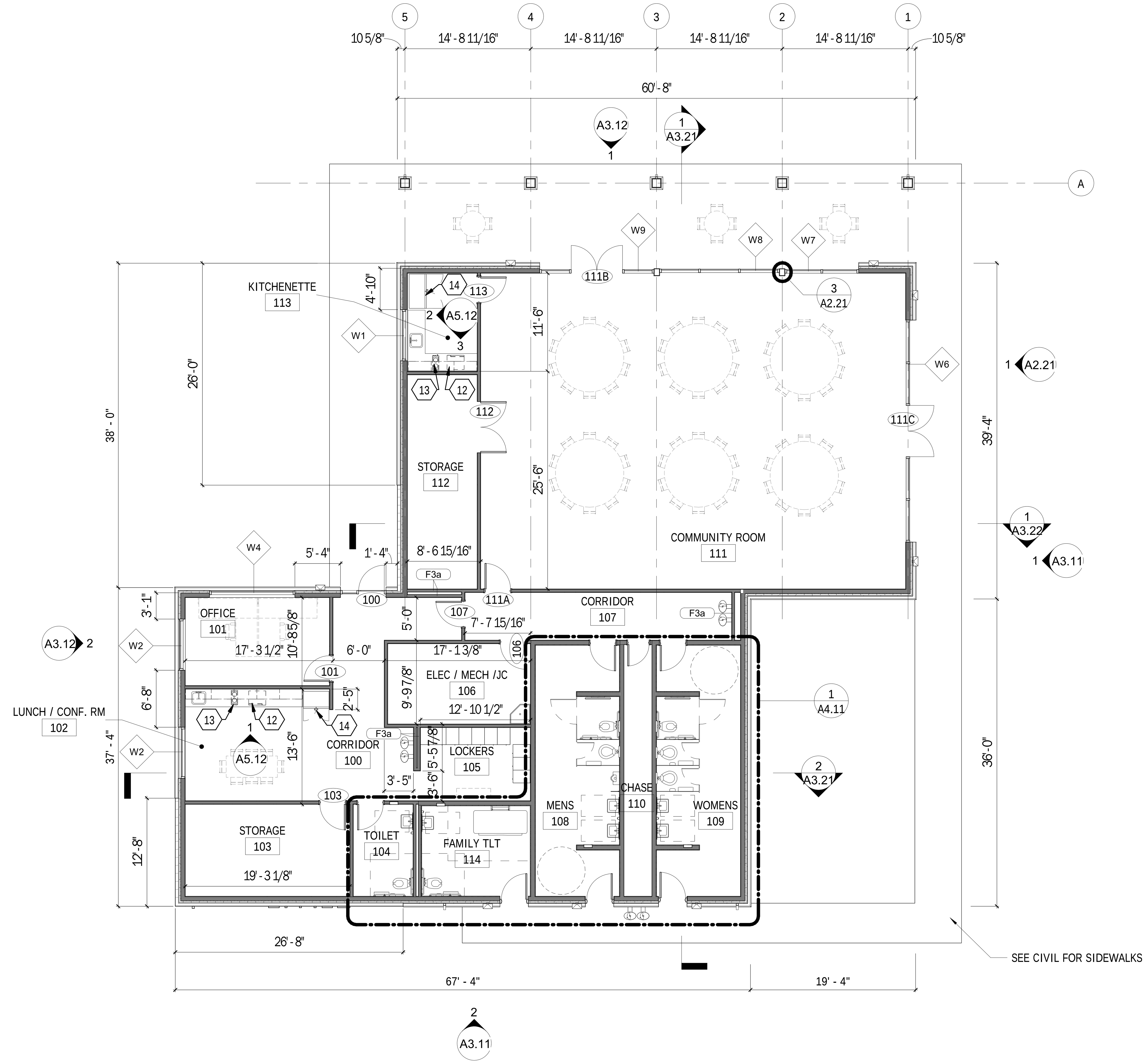
NEW WORK KEYNOTES:

1. BABY CHANGING TABLE
2. TOILET PAPER DISPENSER
3. SEAT COVER DISPENSER
4. SANITARY DISPOSAL (ONLY IN WOMENS AND UNISEX TOILET ROOMS)
5. HORIZONTAL GRAB BAR
6. VERTICAL GRAB BAR
7. MIRROR
8. WALL MOUNTED SOUP DISPENSER
9. PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
10. ADULT CHANGING TABLE
11. WALL MOUNTED LIGHT (SEE REFLECTED CEILING PLAN AND ELC. DWGS)
12. MICROWAVE
13. COFFEE MACHINE
14. COMMERCIAL REFRIGERATOR

NEW WORK LEGEND:

NEW STUD WALL	# KEYNOTE TAG
NEW DOOR	X NEW COLUMN TAG
FURNITURE	NO. DOOR TAG
	NO. WINDOW TAG
	NO. PARTITION TAG

KEYNOTES, NOTES & LEGEND — SCALE: N.T.S — REF'D FROM: — 2



NEW WORK PLAN - COMMUNITY BUILDING — SCALE: 1/8" = 1'-0" — REF'D FROM: A3.21 — 1

ROCHESTER HILLS MICHIGAN

A3C COLLABORATIVE ARCHITECTURE
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ANN ARBOR, MI 48104
T: (734) 663 - 1910
F: (866) 732 - 2168
www.a3c.com
Architects Project No: 25021

SEAL
STATE OF MICHIGAN — DONALD F. BARRY — ARCHITECT — NO. 1301042291 — LICENSED ARCHITECT

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
FLOOR PLAN, LEGEND & NOTES - COMMUNITY BUILDING

811 Know what's below Call before you dig.

DATE	ISSUED / REVISED
09/12/25	PER SITE PLAN REVIEW
08/05/25	PRELIMINARY SITE PLAN

DRAWN BY: KLJ
DESIGNED BY: XXX
APPROVED BY: FEA
DATE: 09/10/25
SCALE: As indicated

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
ROCHESTER HILLS MICHIGAN PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

TRUE NORTH

NFE JOB NO. 0557
SHEET NO. A2.11

NOT TO BE USED AS CONSTRUCTION DRAWINGS

GENERAL REFLECTED CEILING NOTES:

1. COORDINATE NEW AND EXISTING MECHANICAL AND ELECTRICAL COMPONENT QUANTITIES, TYPES, AND SIZES WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. COORDINATE THE EXACT LOCATION OF MECHANICAL AND ELECTRICAL COMPONENTS LOCATED ABOVE OR WITHIN CEILINGS AS INDICATED ON MECHANICAL AND ELECTRICAL DRAWINGS, BUT NOT SHOWN ON THIS PLAN, WITH THE ARCHITECT. GENERALLY, COMPONENTS SHALL BE CENTERED IN CEILING TILES, UNO.

2. WHERE EXISTING CEILING TILE AND GRID REQUIRE COMPLETION DUE TO PARTITION, CEILING DIFFUSER OR LIGHT FIXTURE REMOVAL, RESTORE CEILING WITH NEW TILE AND GRID COMPONENTS TO MATCH EXISTING ADJACENT CEILING AREAS TO REMAIN.

3. WHERE EXISTING FIRE RATED WALLS OR CEILINGS ARE ALTERED OR PENETRATED TO INSTALL NEW CONSTRUCTION, PATCH AND SEAL OPENINGS WITH FIRE RATED CONSTRUCTION TO MAINTAIN INTEGRITY OF EXISTING WALL OR CEILING FIRE RATING.

CEILING LEGEND:

1x4 LIGHT FIXTURE

REFLECTED CEILING PLAN KEYNOTES:

PLACE HOLDER 1

PLACE HOLDER 2

PLACE HOLDER 3

RCP KEYNOTES, NOTES & LEGEND | SCALE: N.T.S | REF'D FROM: | 4

GENERAL NEW WORK NOTES:

1. GENERAL FLOOR PLAN / PARTITION NOTES AND PARTITION TYPES APPLY TO ALL FLOOR PLANS AND ENLARGED FLOOR PLANS INCLUDED WITHIN THIS DOCUMENT SET.
2. SEE SHEET A2.02 FOR PARTITION TYPES LEGEND.
3. ALL NEW PARTITIONS SHALL BE PARTITION TYPE 3Sa, UNO.
4. COORDINATE THE PHASING AND SEQUENCING OF NEW CONSTRUCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS AND WITH CONSTRUCTION PHASING SEQUENCE AS INCLUDED WITHIN GENERAL DEMOLITION NOTES LOCATED ELSEWHERE.
5. ALL INTERIOR PARTITION DIMENSIONS ARE TO FINISH FACE, UNO.
6. MAINTAIN INTEGRITY OF ALL NEW OR EXISTING FIRE RATED PARTITIONS. REFER TO REFLECTED CEILING PLANS FOR FIRE RATED PARTITION LOCATIONS.
7. SEE FLOOR PLANS AND WALL REINFORCEMENT DETAIL FOR WALL REINFORCEMENT TO BE PROVIDED AT "OWNER/TENANT" SUPPLIED AND INSTALLED SYSTEMS FURNITURE. IN ADDITION, THE CONTRACTOR SHALL FURNISH AND INSTALL WALL REINFORCING FOR INSTALLATION OF EQUIPMENT, CASEWORK, TOILET ACCESSORIES, HANDRAILS, ETC.
8. PROVIDE ACOUSTICAL GASKETS AT FLOOR TRACKS OF ALL NEW PARTITIONS. ACOUSTICALLY ATTENUATE ALL BOXES, REGISTERS, AND OTHER PENETRATIONS, ETC. LOCATED WITHIN OR THROUGH NEW PARTITIONS TO MAINTAIN WALL SOUND RATINGS.
9. SEE SHEET A2.22 FOR DOOR SCHEDULE AND RELATED DETAILS.
10. SEE SHEET A2.32 FOR INTERIOR FINISH SCHEDULE AND KEY.
11. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR SUPPLYING MATERIALS OR COMPONENTS. LAYOUT ALL WALLS PRIOR TO COMMENCEMENT OF FRAMING AND NOTIFY ARCHITECT FOR DISPOSITION OF MAJOR DIMENSIONAL CONFLICTS.
12. PROVIDE ADDITIONAL REINFORCEMENT TO STRUCTURE AS REQUIRED FOR ANY CLG. HUNG ITEMS (I.E. TOILET PARTITIONS , FOLDING PARTITIONS, CLG. MOUNTED ITEMS.)
13. BUILDING TO MEET CURRENT MICHIGAN ENERGY CODES

NEW WORK LEGEND:

NEW STUD WALL

NEW DOOR

FURNITURE

KEYNOTE TAG

X NEW COLUMN TAG

NO. DOOR TAG

NO. WINDOW TAG

NO. PARTITION TAG

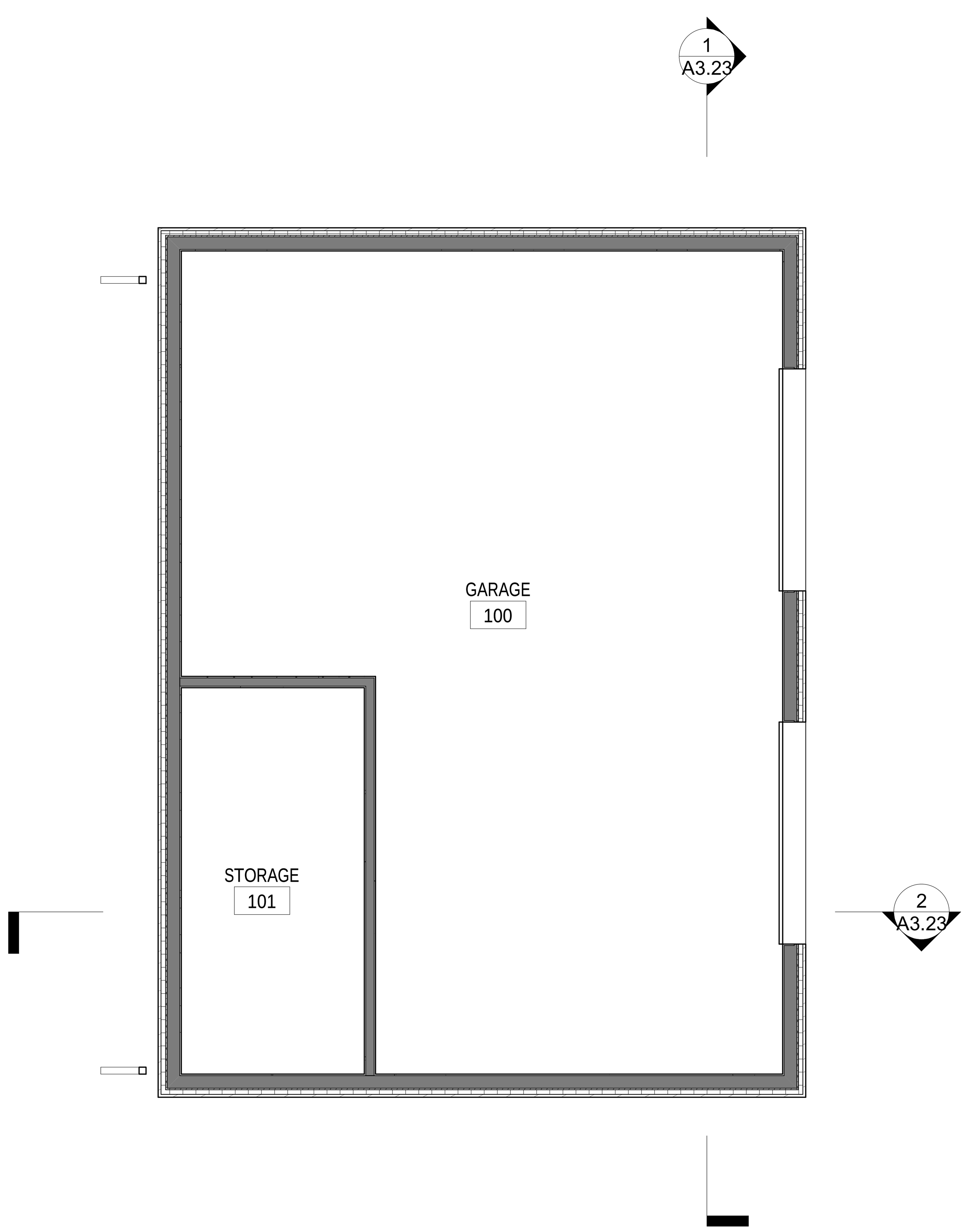
NEW WORK KEYNOTES:

PLACE HOLDER 1

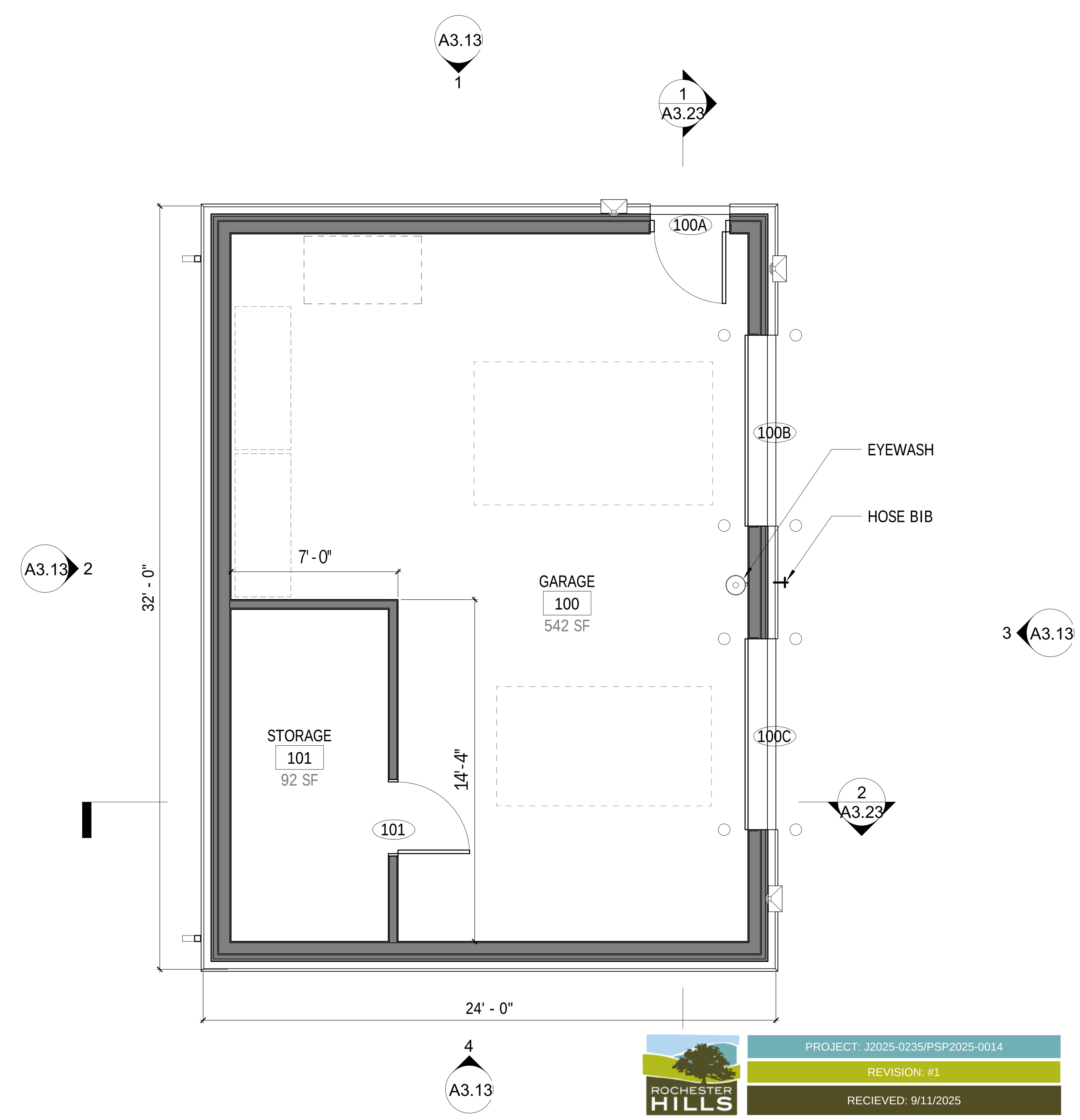
PLACE HOLDER 2

PLACE HOLDER 3

NEW WORK KEYNOTES, NOTES & LEGEND | SCALE: N.T.S | REF'D FROM: | 3



REFLECTED CEILING PLAN - MAINTENANCE BUILDING | SCALE: 1/4" = 1'-0" | REF'D FROM: A3.21 | 2



PROJECT: J2025-0235/PSP2025-0014

REVISION: #1

RECIEVED: 9/11/2025

ROCHESTER HILLS MICHIGAN PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

TRUE NORTH

NEW WORK PLAN - MAINTENANCE BUILDING | SCALE: 1/4" = 1'-0" | REF'D FROM: A3.21 | 1

ROCHESTER HILLS MICHIGAN

A3C COLLABORATIVE ARCHITECTURE

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Architects Project No: 25021

SEAL

STATE OF MICHIGAN DONALD F. BARRY ARCHITECT NO. 1301042291 LICENSED ARCHITECT

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
FLOOR & CEILING PLAN, ELEVATIONS, LEGEND & NOTES - MAINTENANCE BUILDING

811 Know what's below Call before you dig.

DATE	ISSUED / REVISED
09/12/25	PER SITE PLAN REVIEW
08/05/25	PRELIMINARY SITE PLAN

DRAWN BY: KLJ

DESIGNED BY: XXX

APPROVED BY: FEA

DATE: 09/10/25

SCALE: As indicated

NFE JOB NO. 0557

SHEET NO. A2.12

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GENERAL REFLECTED CEILING NOTES:

1. COORDINATE NEW AND EXISTING MECHANICAL AND ELECTRICAL COMPONENT QUANTITIES, TYPES, AND SIZES WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. COORDINATE THE EXACT LOCATION OF MECHANICAL AND ELECTRICAL COMPONENTS LOCATED ABOVE OR WITHIN CEILINGS AS INDICATED ON MECHANICAL AND ELECTRICAL DRAWINGS, BUT NOT SHOWN ON THIS PLAN, WITH THE ARCHITECT. GENERALLY, COMPONENTS SHALL BE CENTERED IN CEILING TILES, UNO.

2. WHERE EXISTING CEILING TILE AND GRID REQUIRE COMPLETION DUE TO PARTITION, CEILING DIFFUSER OR LIGHT FIXTURE REMOVAL, RESTORE CEILING WITH NEW TILE AND GRID COMPONENTS TO MATCH EXISTING ADJACENT CEILING AREAS TO REMAIN.

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REFLECTED CEILING PLAN KEYNOTES:

- PLACE HOLDER 1
- PLACE HOLDER 2
- PLACE HOLDER 3

CEILING LEGEND:

WALL MOUNTED LIGHT FIXTURE

RCP KEYNOTES, NOTES & LEGEND — SCALE: N.T.S — REF'D FROM: — 4

GENERAL NEW WORK NOTES:

1. GENERAL FLOOR PLAN / PARTITION NOTES AND PARTITION TYPES APPLY TO ALL FLOOR PLANS AND ENLARGED FLOOR PLANS INCLUDED WITHIN THIS DOCUMENT SET.
2. SEE SHEET A2.02 FOR PARTITION TYPES LEGEND.
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9. SEE SHEET A2.22 FOR DOOR SCHEDULE AND RELATED DETAILS.
10. SEE SHEET A2.32 FOR INTERIOR FINISH SCHEDULE AND KEY.
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13. BUILDING TO MEET CURRENT MICHIGAN ENERGY CODES

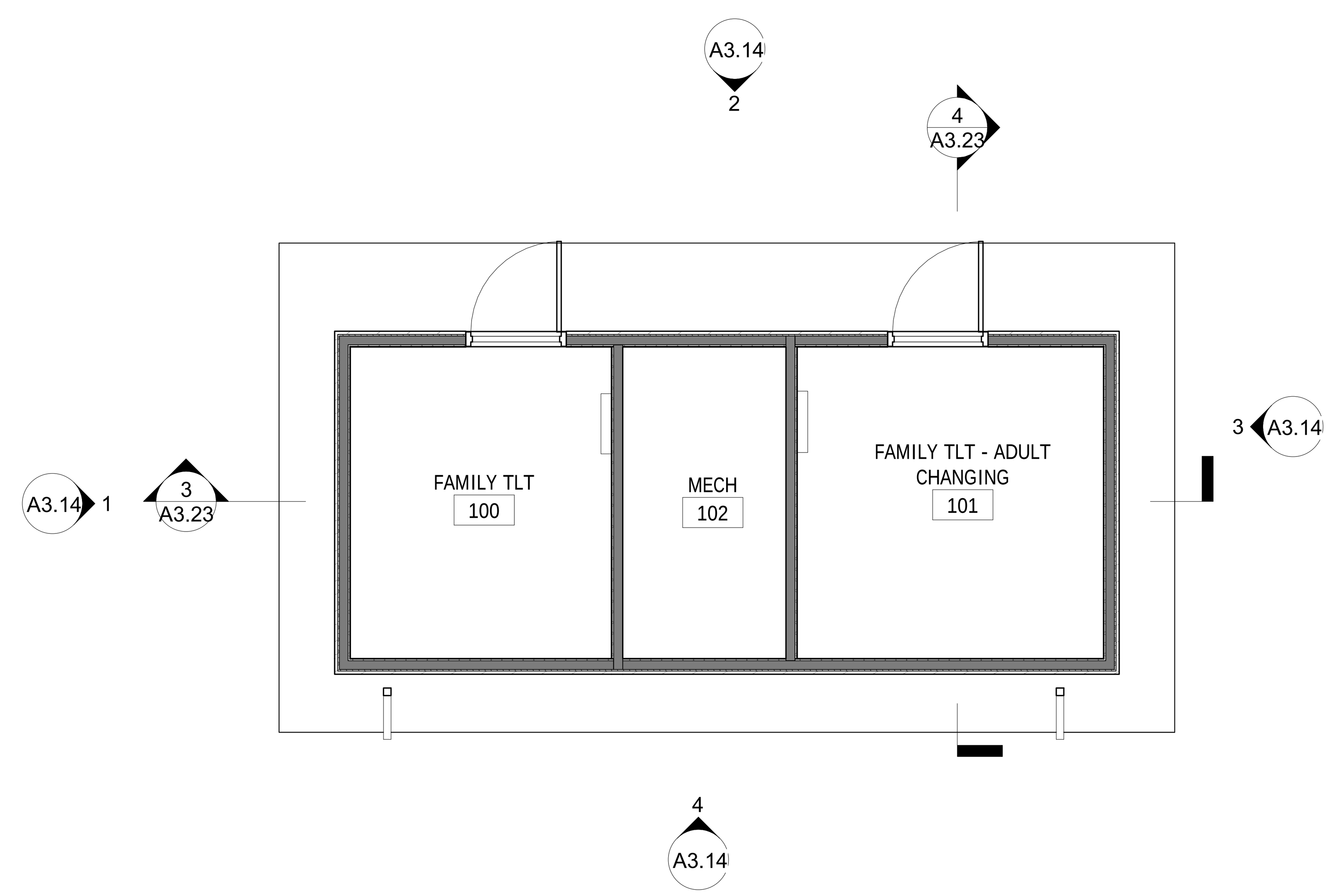
NEW WORK KEYNOTES:

- PLACE HOLDER 1
- PLACE HOLDER 2
- PLACE HOLDER 3

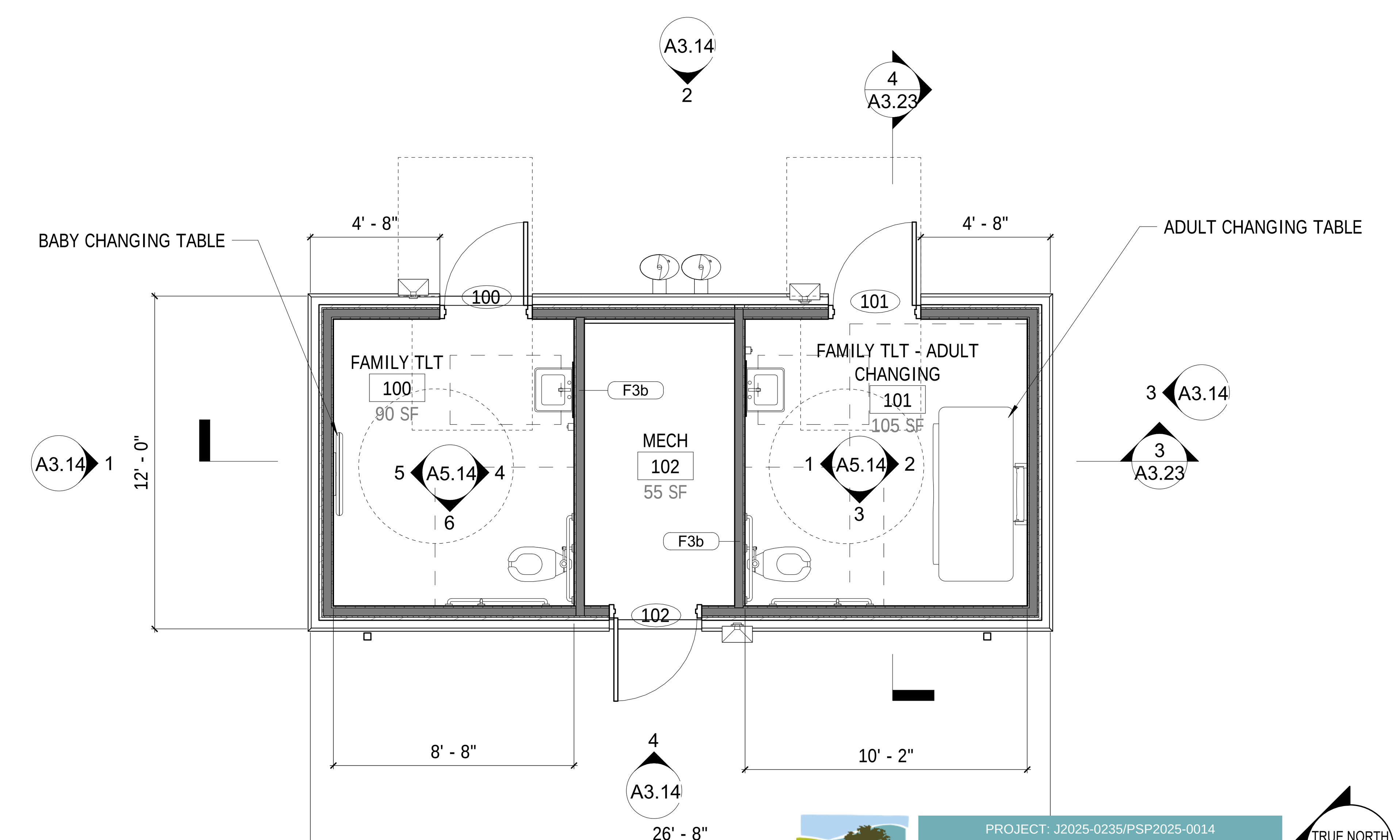
NEW WORK LEGEND:

NEW STUD WALL	# KEYNOTE TAG
	X NEW COLUMN TAG
NEW DOOR	NO. DOOR TAG
	NO. PARTITION TAG

KEYNOTES, NOTES & LEGEND — SCALE: N.T.S — REF'D FROM: — 3



REFELECTED CEILING PLAN - FAMILY BATHROOMS BUILDNG — SCALE: 1/4" = 1'-0" — REF'D FROM: A3.21 — 2



NEW WORK PLAN - FAMILY BATHROOMS BUILDING — SCALE: 1/4" = 1'-0" — REF'D FROM: A3.21 — 1

ROCHESTER HILLS MICHIGAN

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

ROCHESTER HILLS MICHIGAN

A3C COLLABORATIVE ARCHITECTURE

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T: (734) 663 - 1910
F: (866) 732 - 2168
www.a3c.com

Architects Project No: 25021

SEAL

STATE OF MICHIGAN DONALD F. BARRY ARCHITECT NO. 1301042291 LICENSED ARCHITECT

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
FLOOR & CEILING PLAN, LEGEND & NOTES - FAMILY BATHROOMS BUILDING

811 Know what's below Call before you dig.

DATE	ISSUED / REVISED
09/12/25	PER SITE PLAN REVIEW
08/05/25	PRELIMINARY SITE PLAN

DRAWN BY: KLJ
DESIGNED BY: Designer
APPROVED BY: FEA
DATE: 09/10/25
SCALE: As indicated

NFE JOB NO. 0557
SHEET NO. A2.13

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NOT TO BE USED AS CONSTRUCTION DRAWINGS

GENERAL NEW WORK NOTES:

1. GENERAL FLOOR PLAN / PARTITION NOTES AND PARTITION TYPES APPLY TO ALL FLOOR PLANS AND ENLARGED FLOOR PLANS INCLUDED WITHIN THIS DOCUMENT SET.
2. SEE SHEET A2.02 FOR PARTITION TYPES LEGEND.
3. ALL NEW PARTITIONS SHALL BE PARTITION TYPE MS1, UNO.
4. COORDINATE THE PHASING AND SEQUENCING OF NEW CONSTRUCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS AND WITH CONSTRUCTION PHASING SEQUENCE AS INCLUDED WITHIN GENERAL DEMOLITION NOTES LOCATED ELSEWHERE.
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9. SEE SHEET A2.20 FOR DOOR SCHEDULE AND RELATED DETAILS.
10. SEE SHEET A2.31 FOR INTERIOR FINISH SCHEDULE AND KEY.
11. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR SUPPLYING MATERIALS OR COMPONENTS. LAYOUT ALL WALLS PRIOR TO COMMENCEMENT OF FRAMING AND NOTIFY ARCHITECT FOR DISPOSITION OF MAJOR DIMENSIONAL CONFLICTS.
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13. BUILDING TO MEET CURRENT MICHIGAN ENERGY CODES

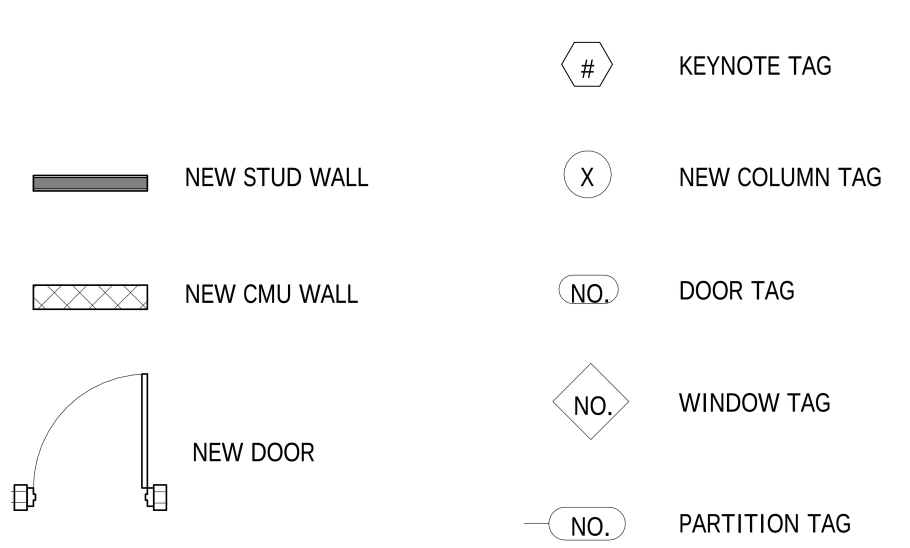
NEW WORK KEYNOTES:

PLACE HOLDER 1

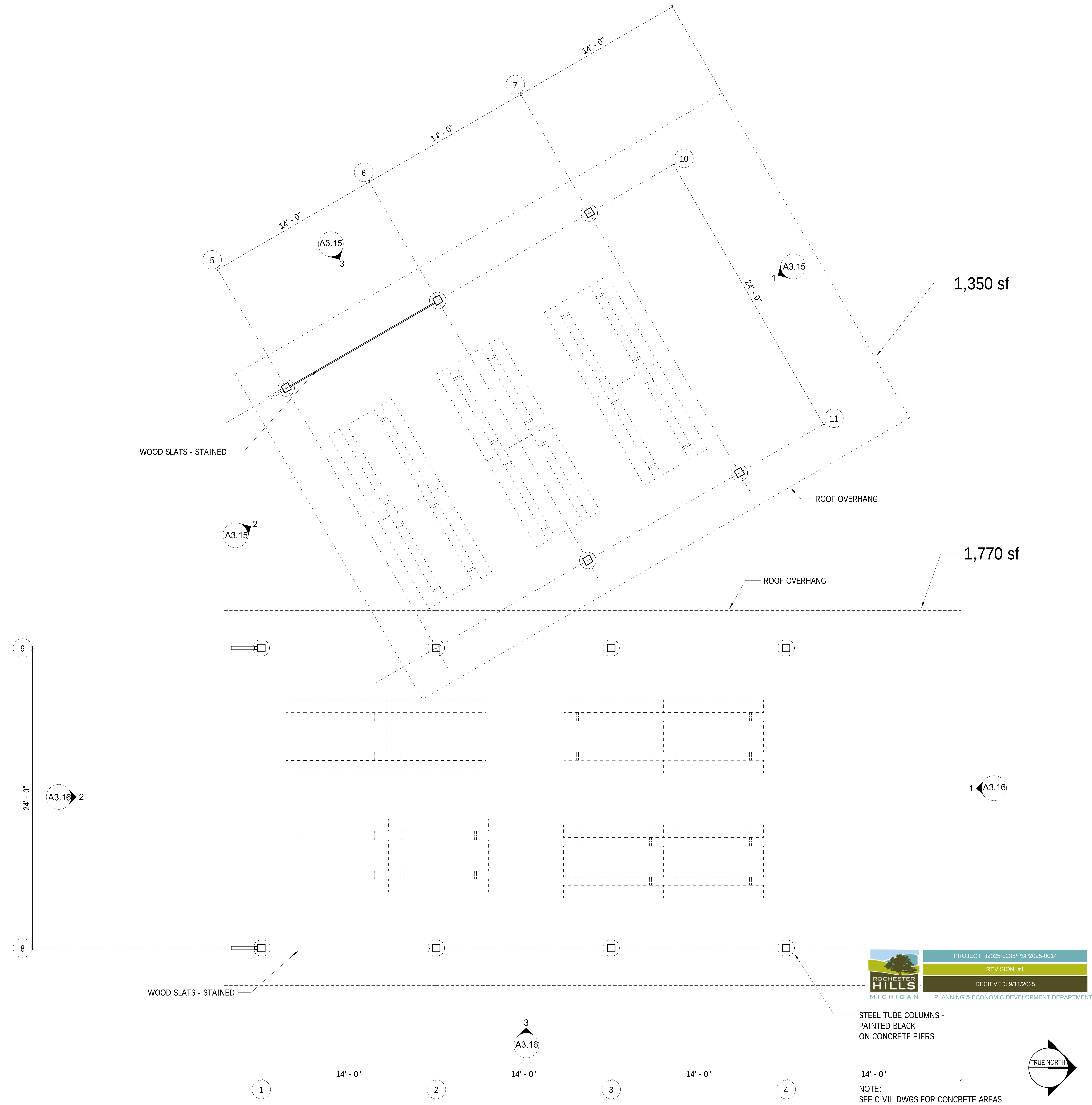
PLACE HOLDER 2

PLACE HOLDER 3

NEW WORK LEGEND:



KEYNOTES, NOTES & LEGEND | SCALE: N.T.S | REF'D FROM: | 2



PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

NOTE:
SEE CIVIL DWGS FOR CONCRETE AREAS

NEW WORK PLAN | SCALE: 1/4" = 1'-0" | REF'D FROM: | 1

ROCHESTER HILLS MICHIGAN

A3C COLLABORATIVE ARCHITECTURE
115 1/2 E. LIBERTY STREET
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F: (866) 732 - 2168
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Architects Project No: 25021

SEAL

STATE OF MICHIGAN
DONALD F. BARRY
ARCHITECT
NO. 1301042291
LICENSED ARCHITECT

PROJECT
Nowicki Park
Site Improvements

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CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
FLOOR PLAN, LEGEND & NOTES - PAVILION

811
Know what's below
Call before you dig.

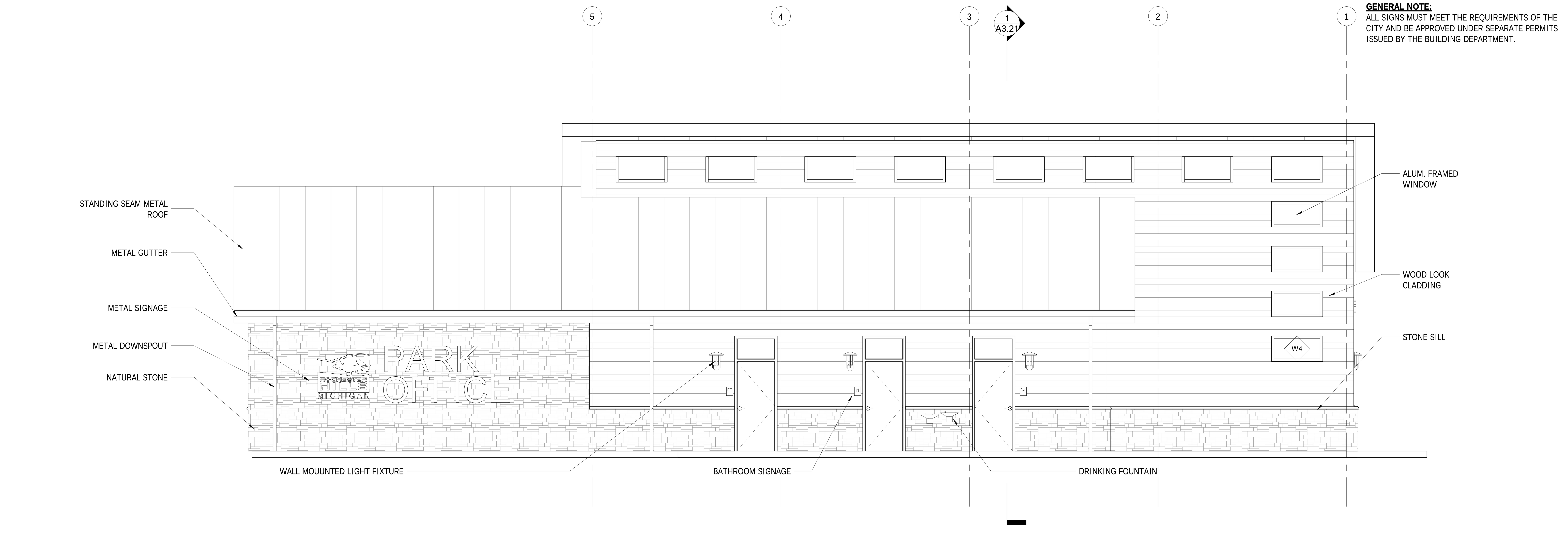
DATE	ISSUED / REVISED
09/12/25	PER SITE PLAN REVIEW
08/05/25	PRELIMINARY SITE PLAN

DRAWN BY: KLJ
DESIGNED BY: XXX
APPROVED BY: FEA
DATE: 09/10/25
SCALE: As indicated

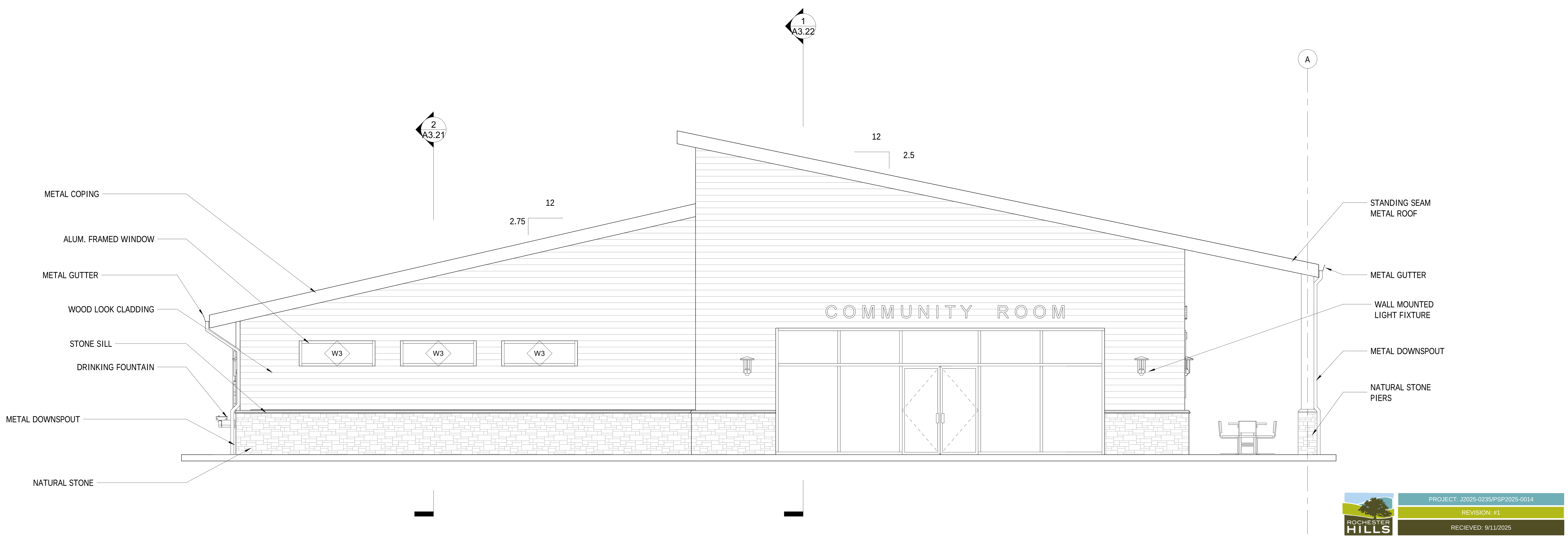
NFE JOB NO. 0557
SHEET NO. A2.14

NOT TO BE USED AS CONSTRUCTION DRAWINGS

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



WEST ELEVATION | SCALE: 1/4" = 1'-0" | REF'D FROM: A2.11 | 2



PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

SOUTH ELEVATION | SCALE: 1/4" = 1'-0" | REF'D FROM: A2.11 | 1

ROCHESTER HILLS MICHIGAN

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Architects Project No: 25021

SEAL

STATE OF MICHIGAN
DONALD F. BARRY
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PROJECT
Nowicki Park
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PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
EXTERIOR ELEVATIONS - COMMUNITY BUILDING

811 Know what's below Call before you dig.

DATE	ISSUED / REVISED
09/12/25	PER SITE PLAN REVIEW
08/05/25	PRELIMINARY SITE PLAN

DRAWN BY: KLJ
DESIGNED BY: XXX
APPROVED BY: FEA
DATE: 09/10/25
SCALE: 1/4" = 1'-0"

NFE JOB NO. 0557
SHEET NO. A3.11

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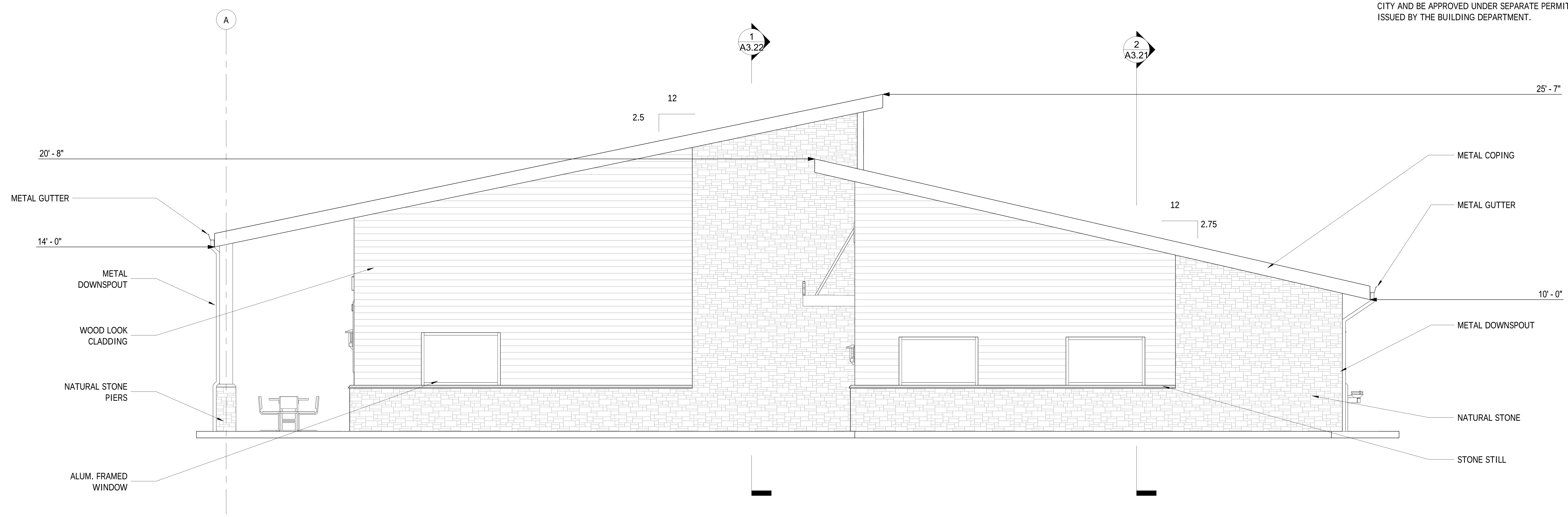

NORTH ELEVATION — SCALE: 1/4" = 1'-0" — REF'D FROM: A2.11 — 2

EAST ELEVATION — SCALE: 1/4" = 1'-0" — REF'D FROM: A2.11 — 1

ROCHESTER HILLS MICHIGAN

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Architects Project No: 25021

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STATE OF MICHIGAN — DONALD F. BARRY — ARCHITECT — NO. 1301042291 — LICENSED ARCHITECT

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
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CONTACT
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PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
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Sheet
EXTERIOR ELEVATIONS - COMMUNITY BUILDING

811 Know what's below Call before you dig.

DATE	ISSUED / REVISED
09/12/25	PER SITE PLAN REVIEW
08/05/25	PRELIMINARY SITE PLAN

DRAWN BY: KLJ
DESIGNED BY: XXX
APPROVED BY: FEA
DATE: 09/10/25
SCALE: 1/4" = 1'-0"

NFE JOB NO. 0557
SHEET NO. A3.12

ROCHESTER HILLS MICHIGAN
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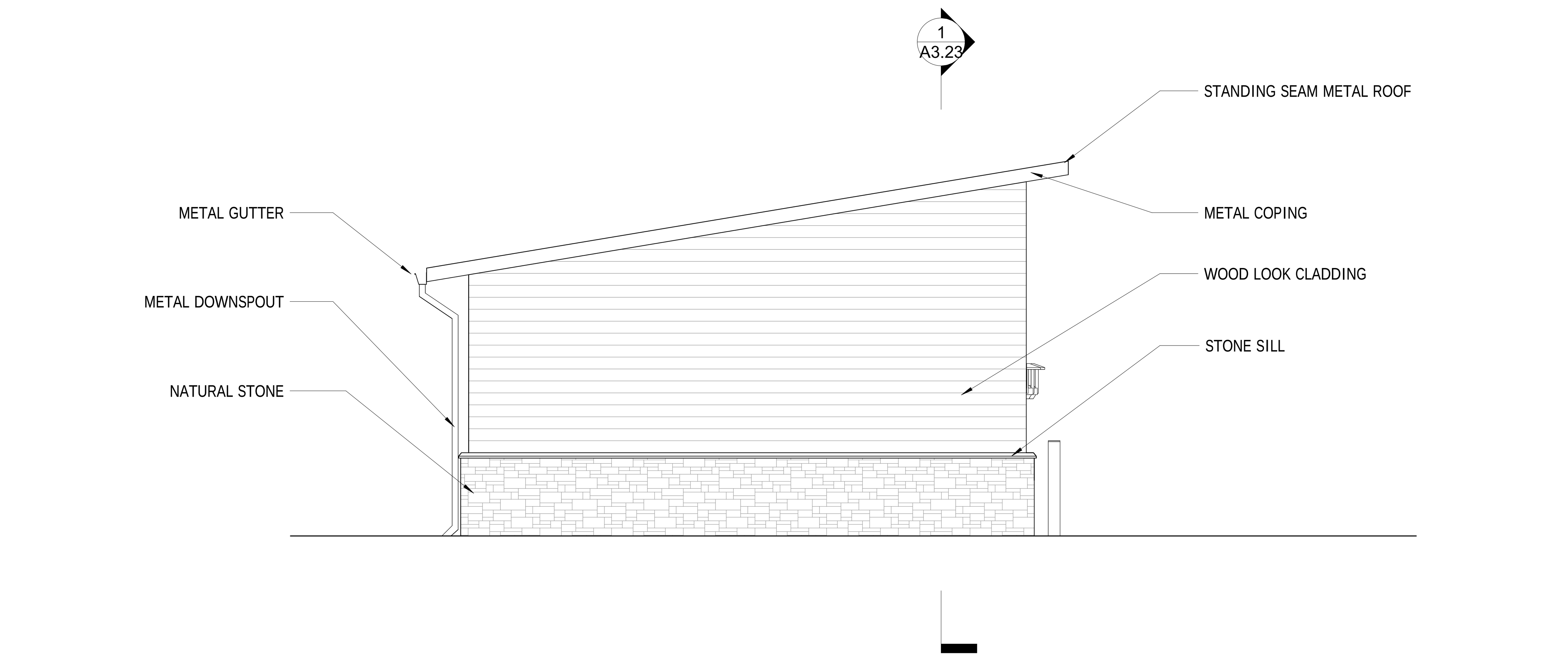
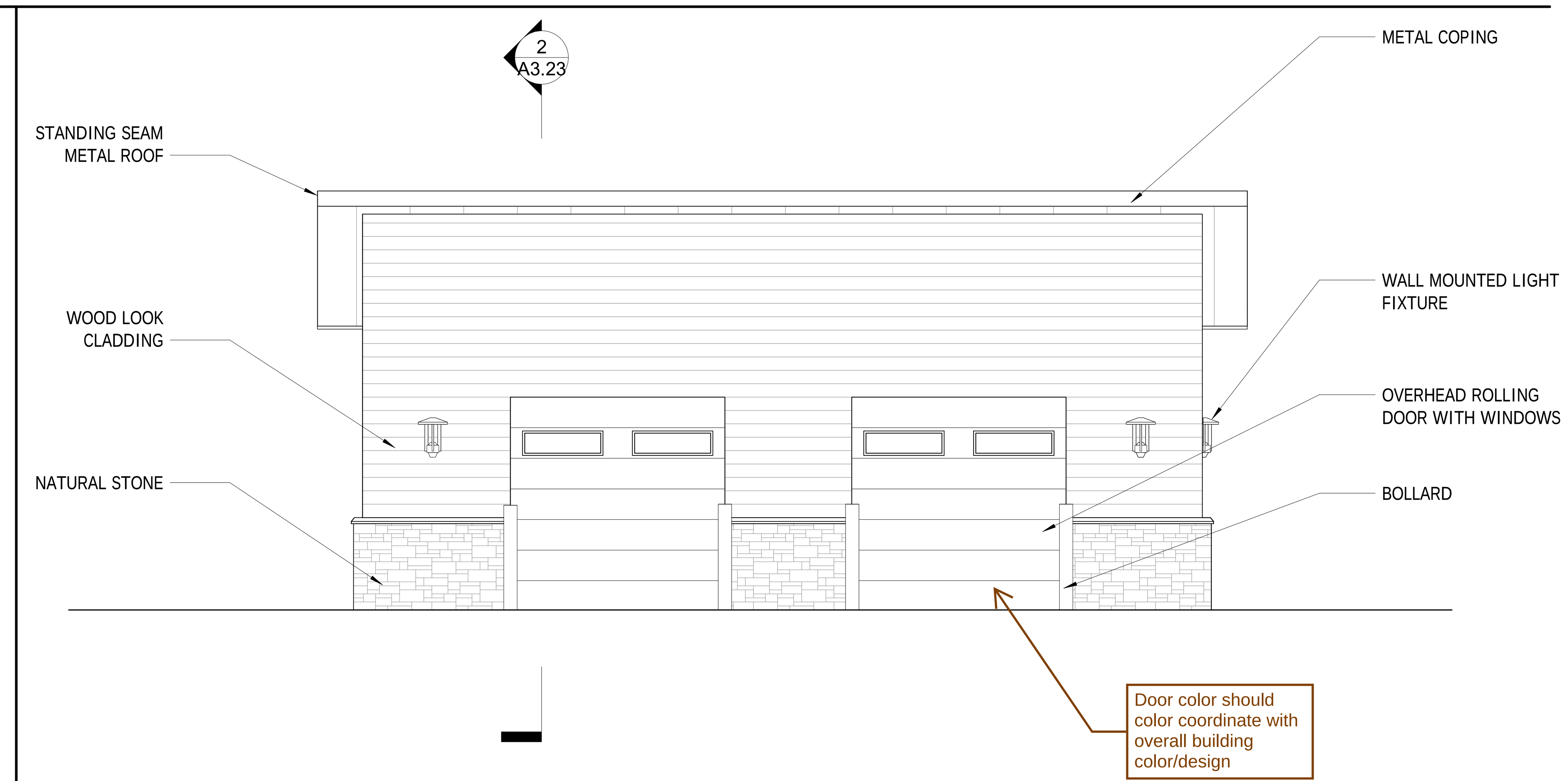


WEST ELEVATION

SCALE: 1/4" = 1'-0"
REF'D FROM: A2.12
4



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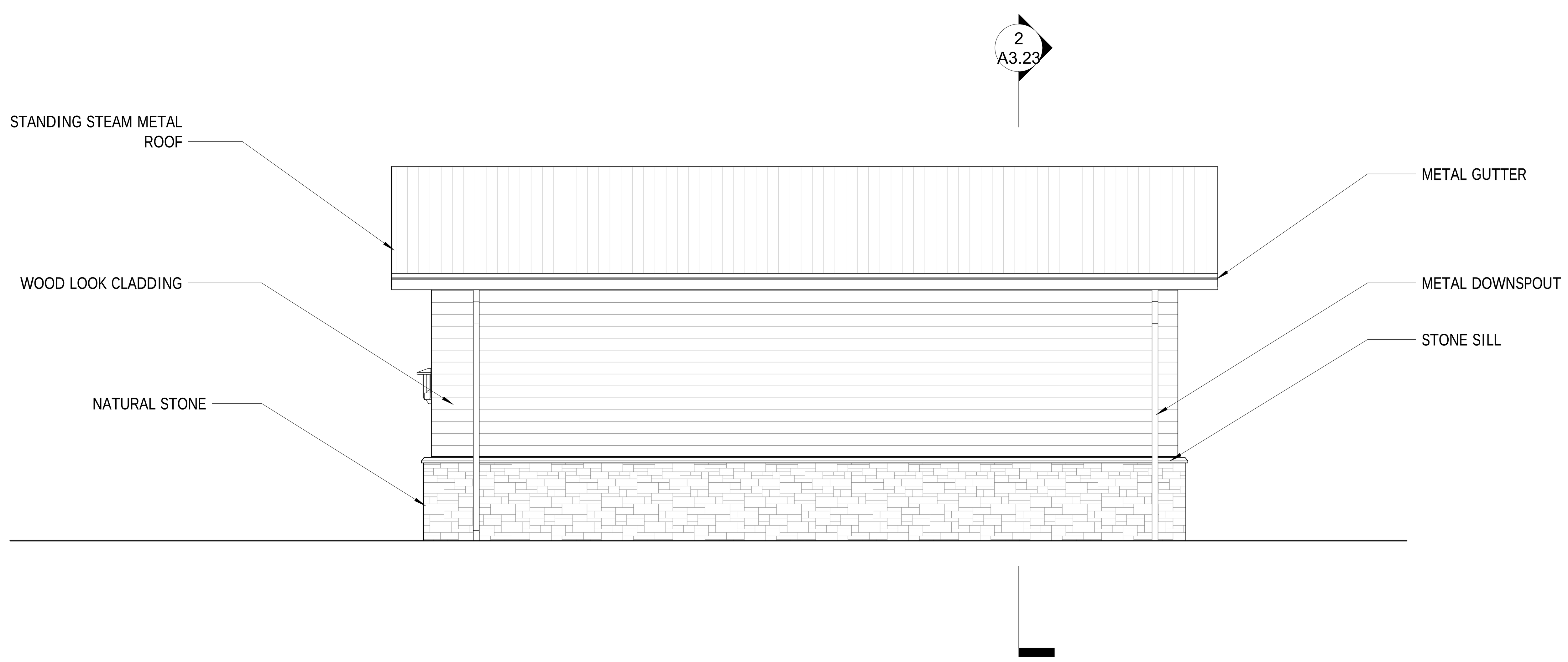
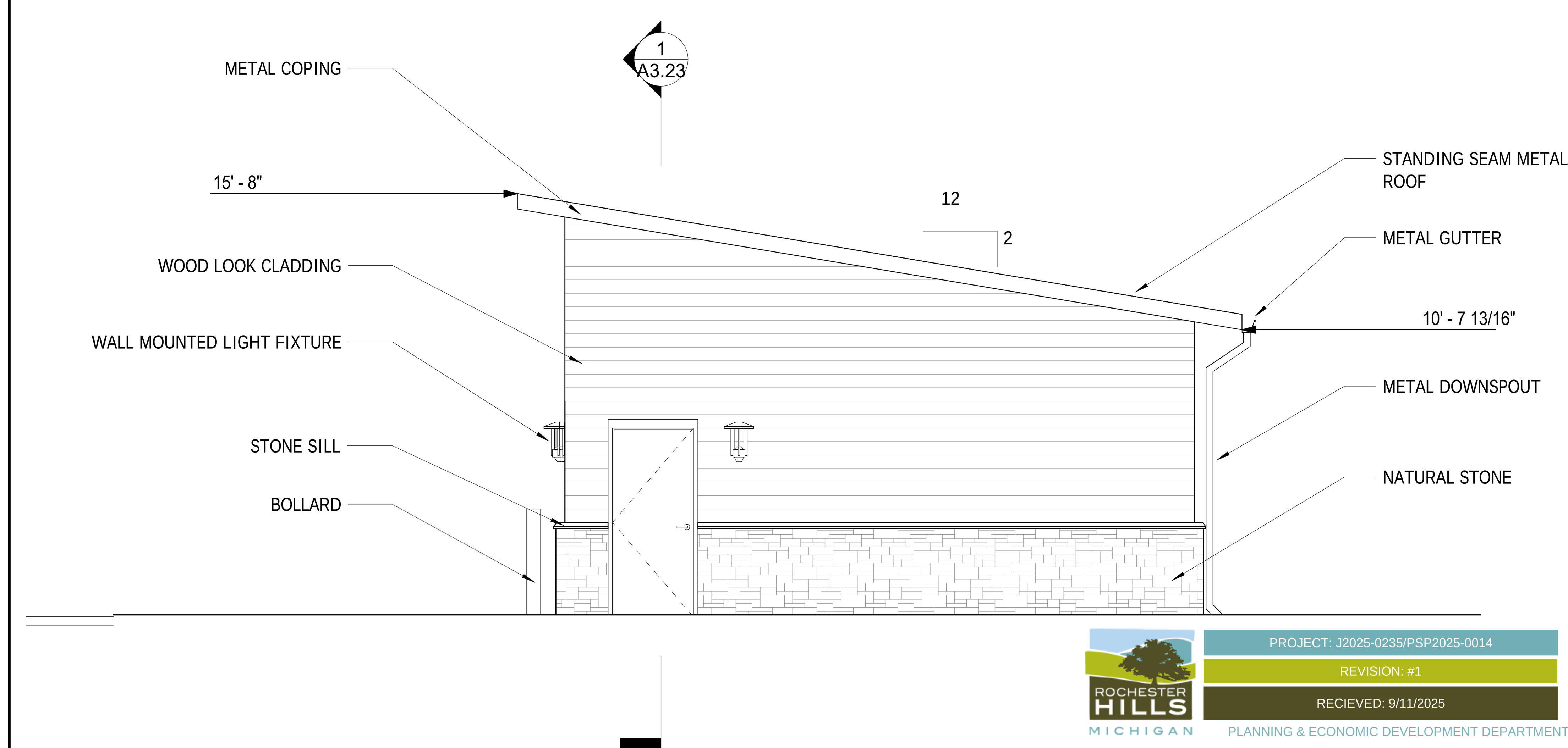
SCALE: 1/4" = 1'-0"
REF'D FROM: A2.12
3



NORTH ELEVATION

SCALE: 1/4" = 1'-0"
REF'D FROM: A2.12
2



PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
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EAST ELEVATION

SCALE: 1/4" = 1'-0"
REF'D FROM: A2.12
1

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Sheet
EXTERIOR ELEVATIONS - MAINTENANCE BUILDING

811
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DATE	ISSUED / REVISED
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08/05/25	PRELIMINARY SITE PLAN

DRAWN BY:
KLJ

DESIGNED BY:
XXX

APPROVED BY:
FEA

DATE:
09/10/25

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

NFE JOB NO.
0557

SHEET NO.
A3.13

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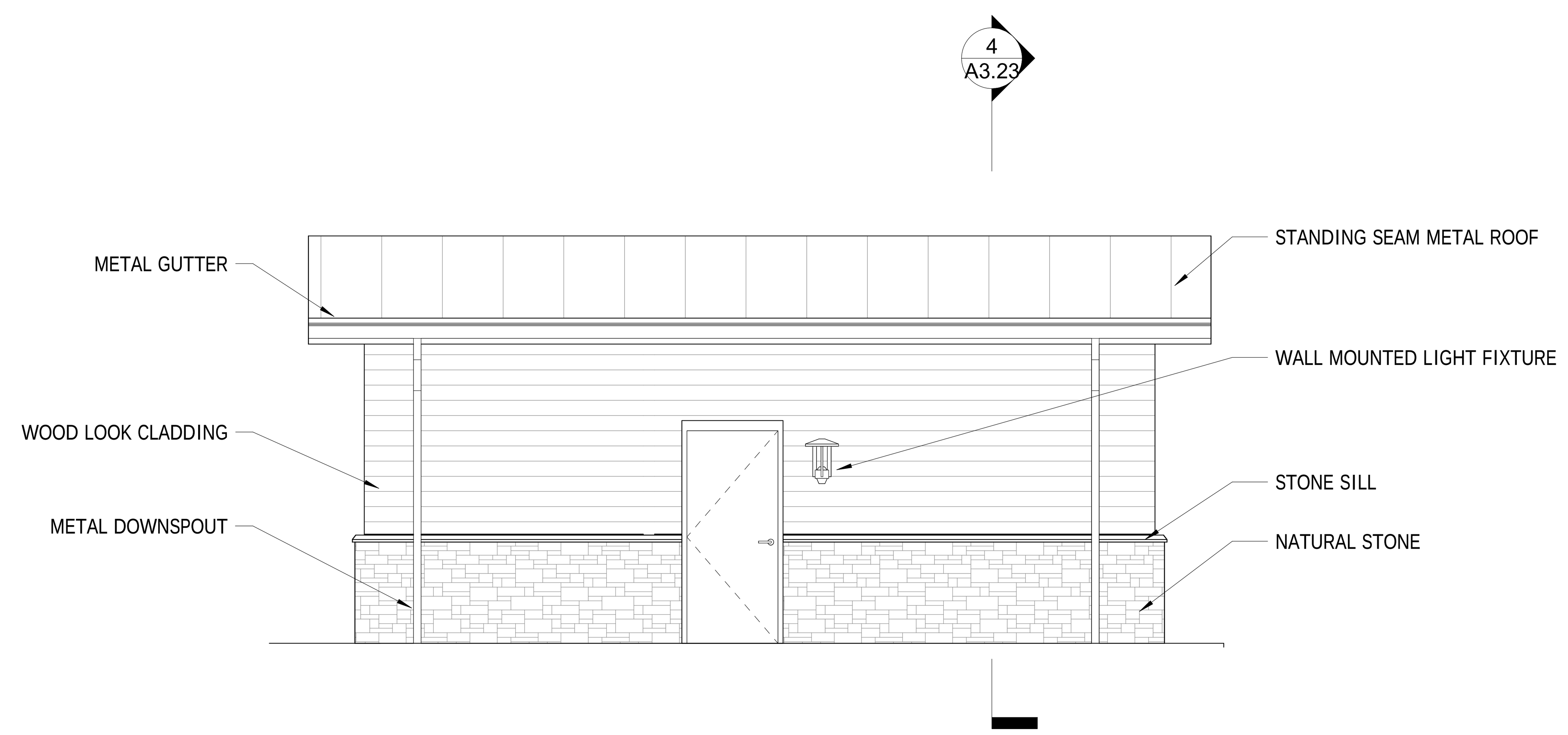
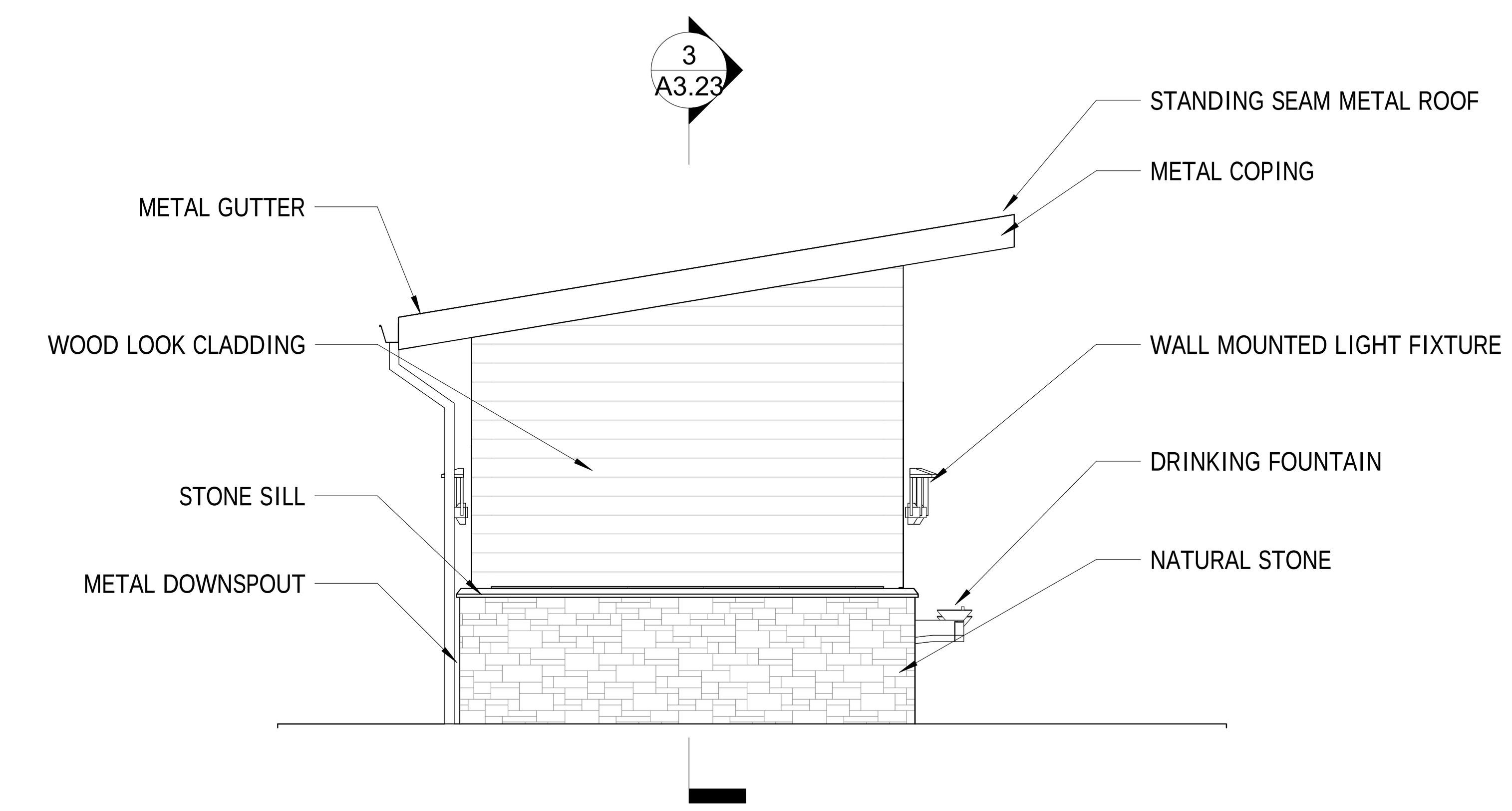


WEST ELEVATION | SCALE: 1/4" = 1'-0" | REF'D FROM: A2.13 | 4



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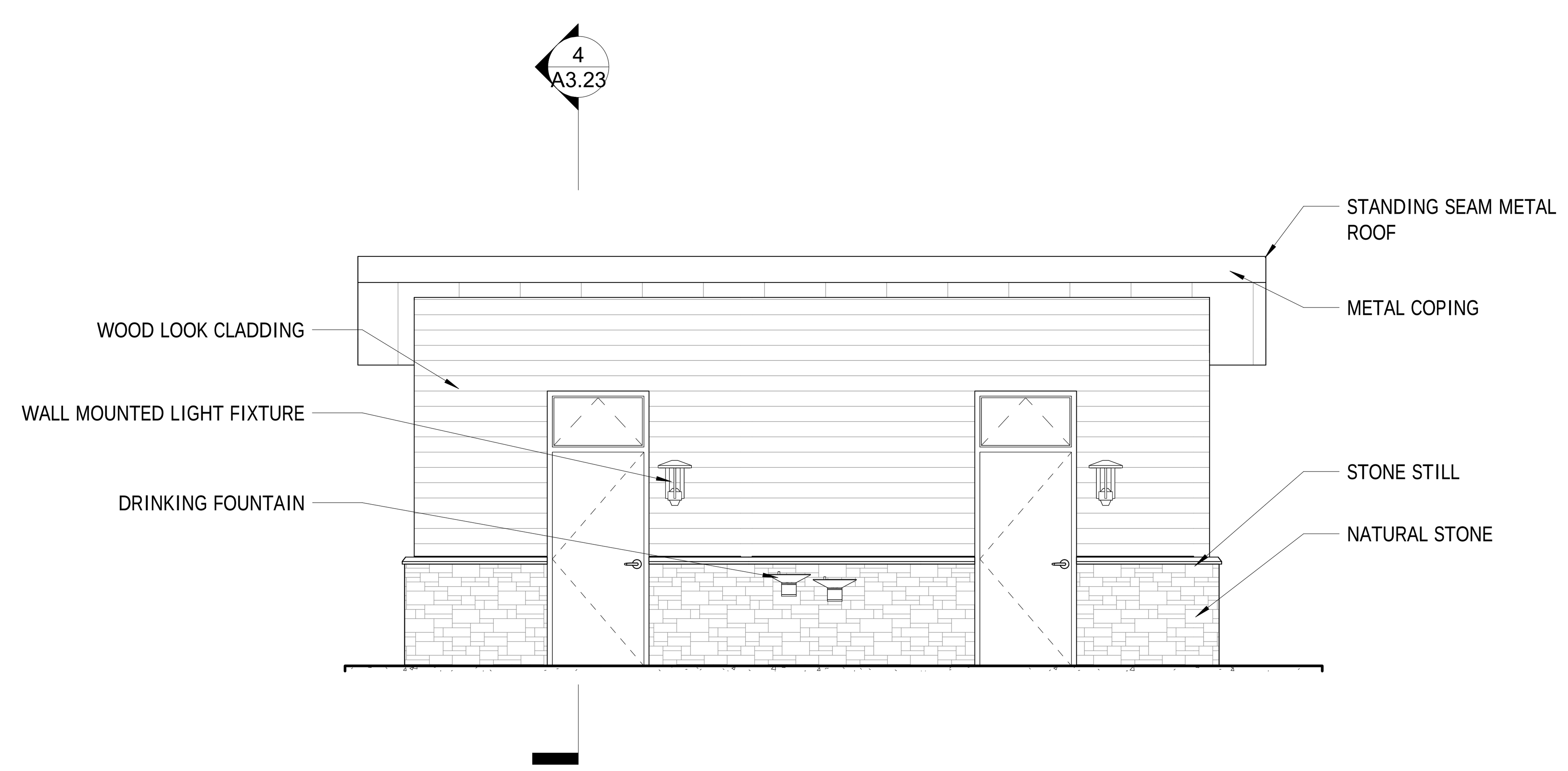
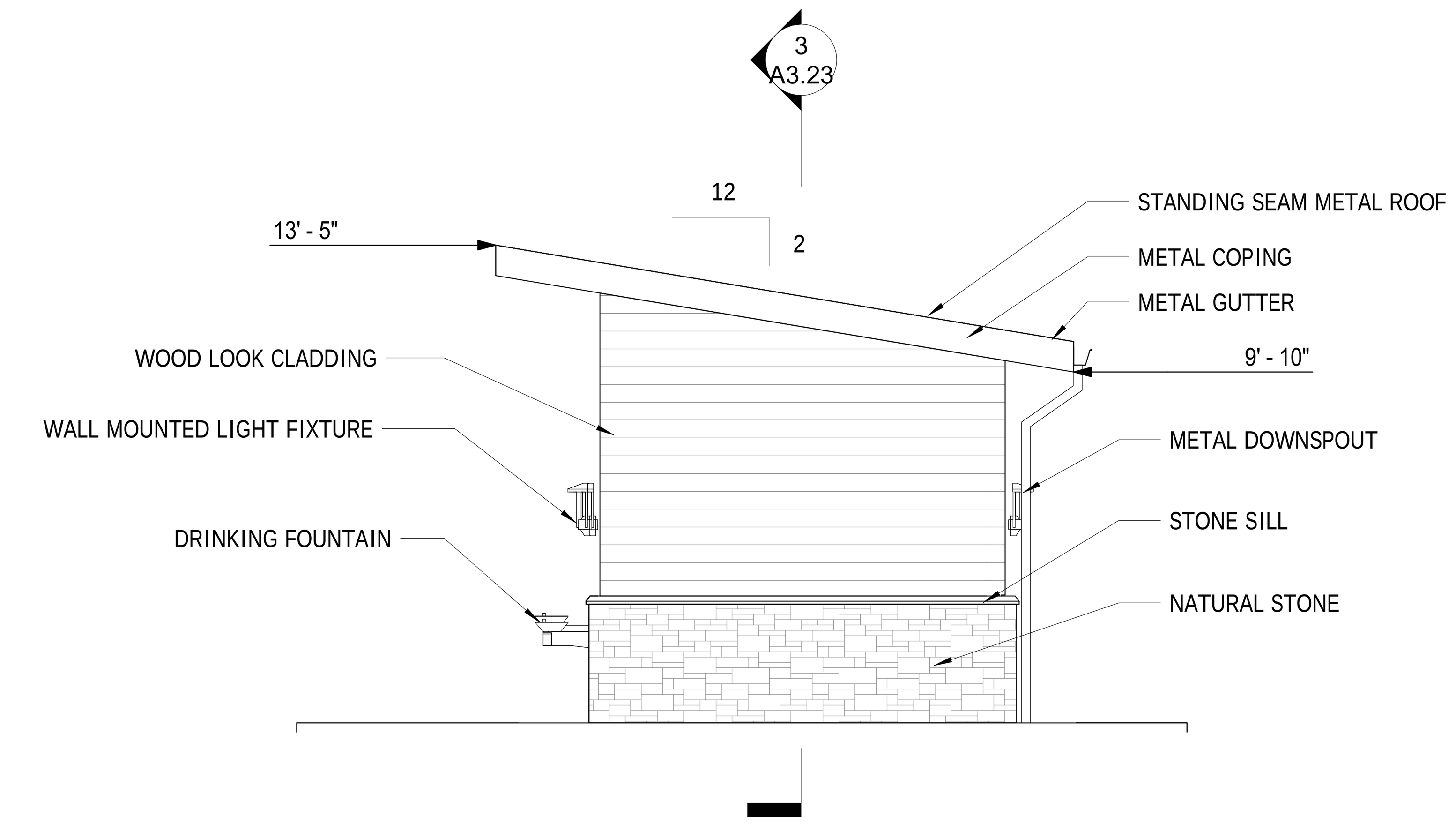


EAST ELEVATION | SCALE: 1/4" = 1'-0" | REF'D FROM: A2.13 | 2



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NORTH ELEVATION | SCALE: 1/4" = 1'-0" | REF'D FROM: A2.13 | 1

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PROJECT LOCATION
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Sheet
EXTERIOR ELEVATIONS - FAMILY BATHROOMS BUILDING

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08/05/25	PRELIMINARY SITE PLAN

DRAWN BY:
KLJ

DESIGNED BY:
XXX

APPROVED BY:
FEA

DATE:
09/10/25

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

NFE JOB NO.
0557

SHEET NO.
A3.14

C:\Users\kjock\Documents\25021-Arch_R23_Service Building_kjock59MQA.rvt

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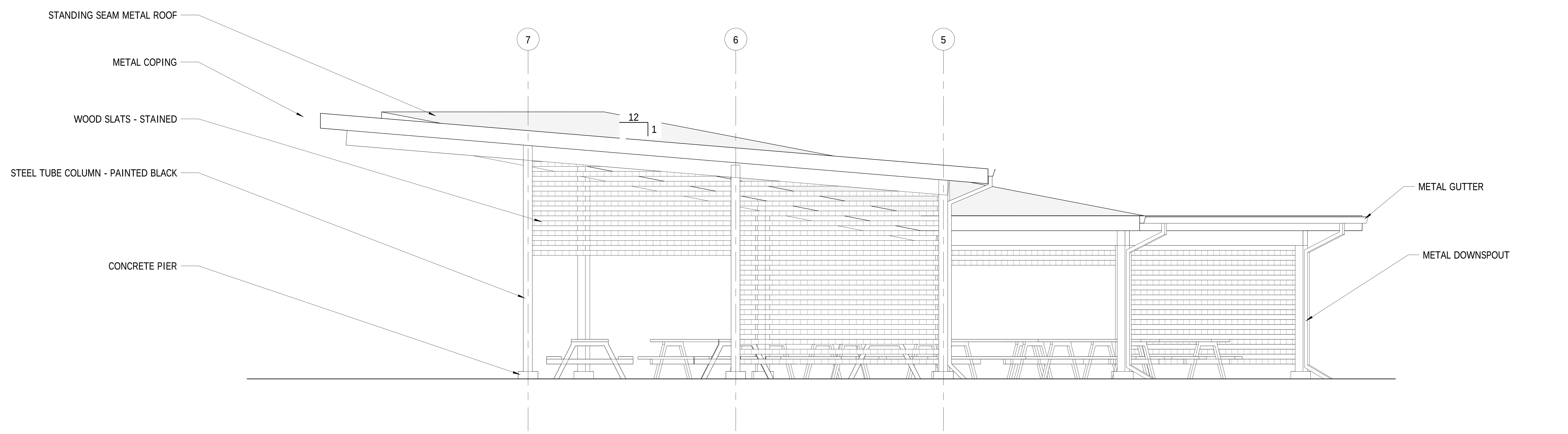
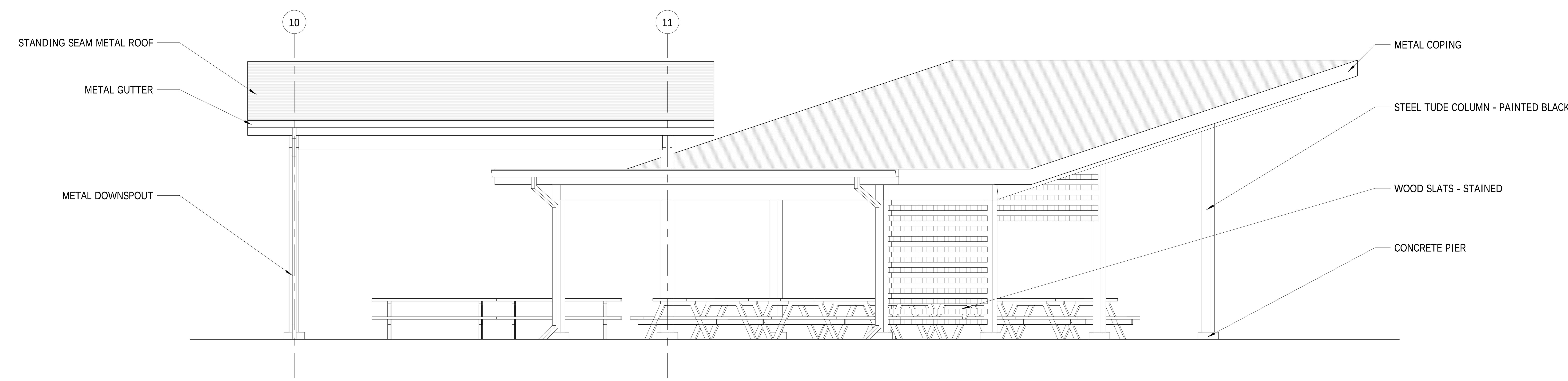
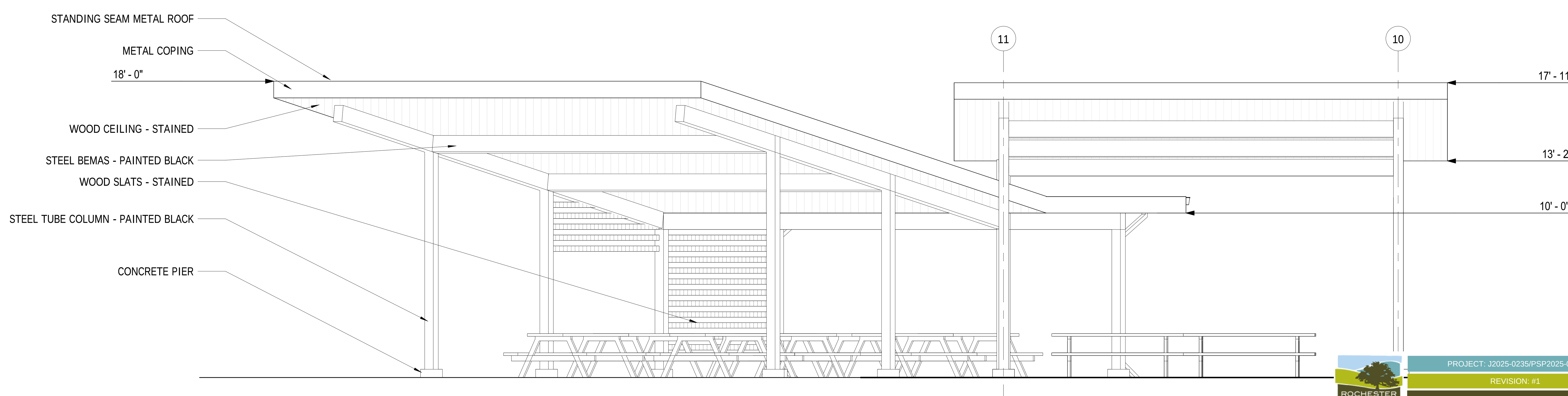


ELEVATION | SCALE: 1/4" = 1'-0" | REF'D FROM: A2.14 | 3



ELEVATION | SCALE: 1/4" = 1'-0" | REF'D FROM: A2.14 | 2



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ELEVATION | SCALE: 1/4" = 1'-0" | REF'D FROM: A2.14 | 1

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PROJECT
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PROJECT LOCATION
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Sheet
EXTERIOR ELEVATIONS
-PAVILION

811
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DRAWN BY:
KLJ

DESIGNED BY:
XXX

APPROVED BY:
FEA

DATE:
09/10/25

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

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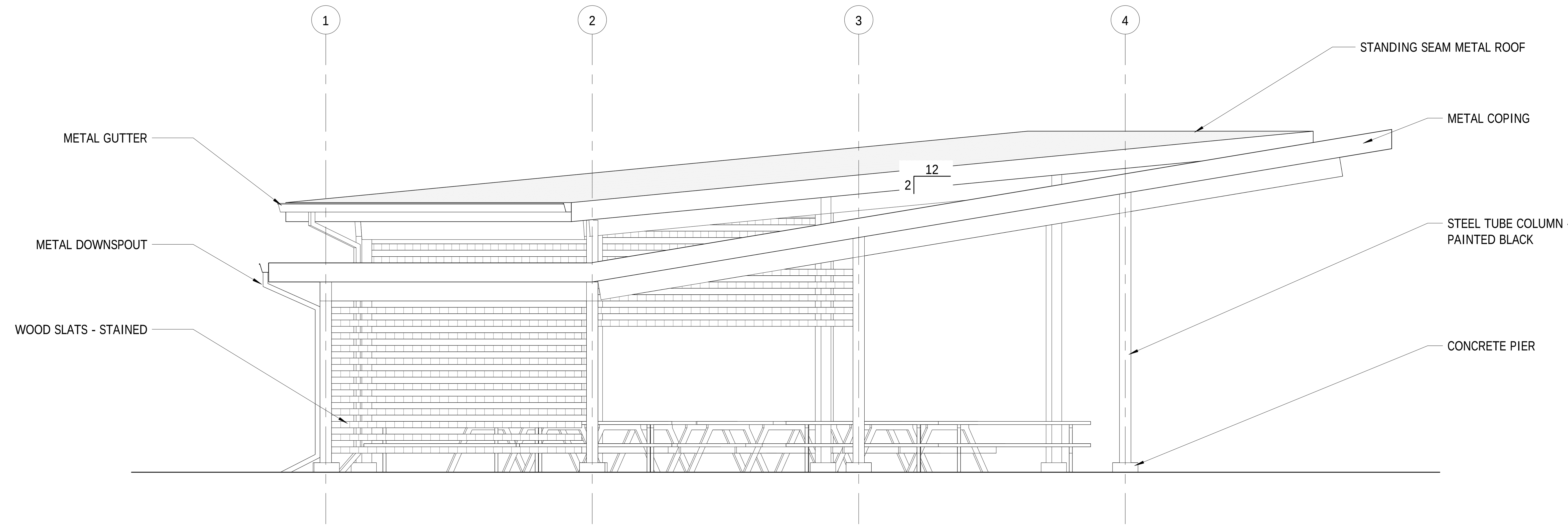

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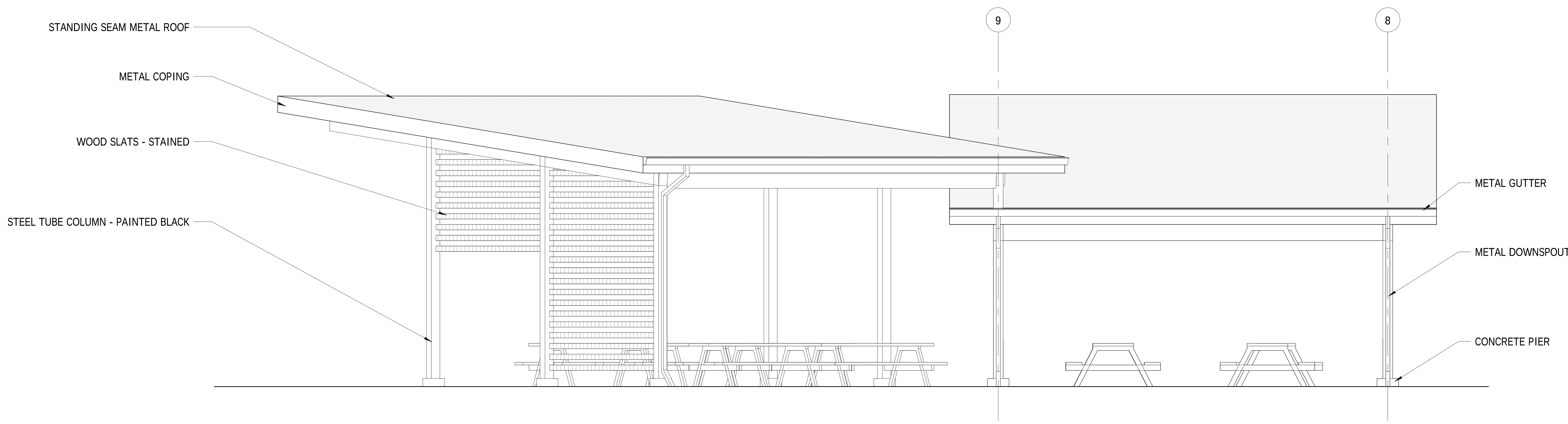

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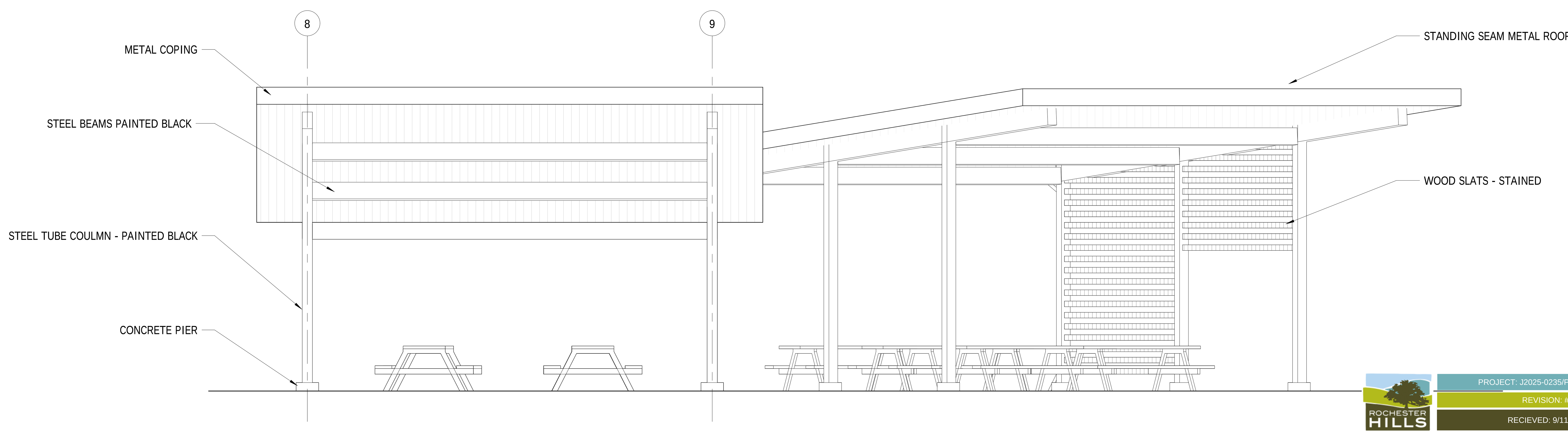

ELEVATION 1 — SCALE: 1/4" = 1'-0" — REF'D FROM: A2.14

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PROJECT: J2025-0235/PSP2025-0014
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elwertk@rochesterhill.org

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Oakland County, Michigan

Sheet
EXTERIOR ELEVATIONS - PAVILION

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08/05/25	PRELIMINARY SITE PLAN

DRAWN BY: KLJ
DESIGNED BY: XXX
APPROVED BY: FEA
DATE: 09/10/25
SCALE: 1/4" = 1'-0"

NFE JOB NO. 0557
SHEET NO. A3.16

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RENDERING - MAINTENANCE BUILDING | SCALE: | REF'D FROM: | 4

RENDERING - FAMILY BATHROOMS BUILDING | SCALE: | REF'D FROM: | 3

COMMUNITY BUILDING RENDERING - OFFICE ENTRY | SCALE: | REF'D FROM: | 2

COMMUNITY BUILDING RENDERING - COMMUNITY ROOM ENTRY | SCALE: | REF'D FROM: | 1

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Sheet
RENDERINGS - COMMUNITY, MAINTENANCE & FAMILY RESTROOMS BUILDING

811
Know what's below
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DRAWN BY:
KLJ

DESIGNED BY:
Designer

APPROVED BY:
FEA

DATE:
09/10/25

SCALE:

NFE JOB NO.
0557

SHEET NO.
A9.11

PAVILION RENDERING - INTERIOR | SCALE: | REF'D FROM: | 5

PAVILION RENDERING - WEST | SCALE: | REF'D FROM: | 4

PAVILION RENDERING - EAST | SCALE: | REF'D FROM: | 3

PAVILION RENDERING | SCALE: | REF'D FROM: | 2

PAVILION RENDERING NORTH | SCALE: | REF'D FROM: | 1

PROJECT: J2025-0235/PSP2025-0014
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SCALE:

NFE JOB NO. 0557
SHEET NO. A9.12

GENERAL NOTES:

1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ACCEPTED EDITION OF THE NATIONAL ELECTRICAL CODE, NEC, AND ALL STATE AND LOCAL CODES.
2. COORDINATE THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT AND CONNECTIONS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND EQUIPMENT DRAWINGS.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER, CONDUITS, CABLETRAY, AND OTHER COMPONENTS AS SHOWN ON THE EQUIPMENT PROVIDER DRAWINGS FOR INSTALLATION OF SYSTEM.
4. "BACK TO BACK" OR THROUGH THE WALL BOXES SHALL NOT BE USED.
5. INSTALL HANDLE LOCK-ON, ON ALL CIRCUIT BREAKERS CONTROLLING NIGHT LIGHT, EMERGENCY LIGHT AND EXIT LIGHT CIRCUITS.
6. ALL RECEPTACLES SHALL BE HARD USE, SPECIFICATION GRADE.
7. PROVIDE TAMPER RESISTANT RECEPTACLES WHERE REQUIRED BY APPLICABLE CODES.
8. RECEPTACLES INDICATED AS GROUND FAULT CIRCUIT INTERRUPTER TYPE SHALL BE MOUNTED IN AN ACCESIBLE LOCATION, PER CODE OR PROVIDED WITH A GFCI BREAKER.
9. ALL CONDUCTORS SHALL BE COPPER. ALUMINUM WIRES SHALL NOT BE USED.
10. MINIMUM CONDUIT SIZE SHALL BE 1/2" FOR POWER FEEDS AND 1" FOR DATA FEEDS.
11. FINAL CONNECTION TO ITEMS SUBJECT TO VIBRATION SHALL BE MADE WITH LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT.
12. 120/208VAC CIRCUIT WIRING FOR ANY ROOM OR AREA MAY BE GROUPED INTO RACEWAYS UNLESS SEPARATE RACEWAYS ARE REQUIRED BY THE NEC. COMPLY WITH NEC REQUIREMENTS FOR CONDUCTOR DERATING.
13. PROVIDE EQUIPMENT GROUNDING CONDUCTORS FOR ALL POWER AND LIGHTING CIRCUITS.
14. ALL LIGHTING AND POWER CONDUCTORS SHALL BE 12 AWG MINIMUM. ALL CONTROL CONDUCTORS SHALL BE 14 AWG MINIMUM OR AS SPECIFIED BY MANUFACTURER.
15. DEDICATED NEUTRAL SHALL BE PROVIDED FOR ALL CIRCUITS. SHARED NEUTRALS ARE NOT ALLOWED.
16. BASIS OF DESIGN IS FOR A COMPLETE ELECTRICAL SYSTEM, INSTALLED PER CODE REQUIREMENTS.
17. PROVIDE AN UNSWITCHED HOT TO ALL EMERGENCY BATTERY PACKS, LIGHTING INVERTERS AND EMERGENCY LIGHTING UNITS AHEAD OF AN LIGHTING CONTROLS FROM THE BRANCH CIRCUIT SERVING LIGHTING IN THE SURROUNDING AREA.

NOT TO BE USED AS CONSTRUCTION DRAWINGS

ABBREVIATIONS

A, AMP	AMPERES
AF	AMP FUSE OR AMP FRAME
AFC	AVAILABLE FAULT CURRENT (SYMMETRICAL)
A.F.F.	ABOVE FINISHED FLOOR
AIC.	AMPERE INTERRUPTING CAPACITY
AM.	AMMETER
ASYM.	ASYMMETRICAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CAP.	CAPACITY OR CAPACITOR
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT ,CCT	CIRCUIT
C.O.	CONDUIT ONLY
CONN.	CONNECT OR CONNECTION
CU	COPPER
DA	DURESS ALARM
DB	DOOR BELL
DISC.	DISCONNECT
DPST	DOUBLE POLE SINGLE THROW
EC	ELECTRICAL CONTRACTOR
EWC	ELECTRIC WATER COOLER (COORDINATE ACCESSIBILITY OF GFCI)
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATION OR ELEVATOR
EMERG, EM	EMERGENCY
EPO	EMERGENCY POWER OFF
EMT	ELECTRICAL METAL TUBING
FIXT.	FIXTURE
FLA	FULL LOAD AMPERES
FLUOR.	FLUORESCENT
GRC,GCR	GALVANIZED RIGID CONDUIT
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRD,GND,G	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HZ.	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
I.G.	ISOLATED GROUND
INCAND.	INCANDESCENT
JB	JUNCTION BOX
KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOUR
LTG	LIGHTING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	MANHOLE, METAL HALIDE OR MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
N.C.	NORMALLY CLOSED
N.E.C.	NATIONAL ELECTRICAL CODE
N.I.C.	NOT IN CONTRACT
NF	NON FUSIBLE
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OL	OVERLOADS
P	POLE
PB	PULLBOX
PH OR Ø	PHASE
PNL	PANEL
PR	PAIR
PVC	POLYVINYL CHLORIDE
PWR.	POWER
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
SOL	SOLENOID
SPDT	SINGLE POLE DOUBLE THROW
SPKR	SPEAKER
SPST	SINGLE POLE SINGLE THROW
SW.	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
TEL	TELEPHONE
XFMR	TRANSFORMER
TTB	TELEPHONE TERMINAL BACKBOARD
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT AMPERES
VD	VOLTAGE DROP
VM	VOLT METER
W	WATTS OR WIRE
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XP	EXPLOSION PROOF

GENERAL

MOUNTING HEIGHTS TO BE AS INDICATED, UON. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE FROM FINISHED FLOOR OR GRADE, UON. SEE SPECIFICATION DIV 26 FOR ADDITIONAL REQUIREMENTS.

KEY NOTE REFERENCE SYMBOL. DENOTES "SEE KEY NOTE NO. 2"

FOOT ON DEVICE INDICATES WALL MOUNTED

DEMOLITION AND REMODEL

EXISTING ELECTRICAL ITEM TO BE REMOVED, UON.

EXISTING ELECTRICAL ITEM TO REMAIN

B — EXISTING ELECTRICAL ITEM TO BE REMOVED AND PROVIDED WITH A BLANK COVERPLATE

EXISTING ELECTRICAL CIRCUIT TO BE REMOVED SHOWN ONLY WHERE CLARIFICATION BETWEEN EXISTING TO REMAIN AND REMOVED ITEMS IS REQUIRED

SEE PLANS AND NOTES FOR DEVICES INTEND FOR REUSE AND / OR REPURPOSING.

CIRCUIT DESIGNATIONS

1LN1-1

PANEL NAME

POLE NUMBERS

BRANCH CIRCUIT HOMERUN. PROVIDE PHASE, NEUTRAL AND GROUND CONDUCTORS FOR EACH INDICATED CIRCUIT OR MULTI WIRE BRANCH AS REQUIRED. PROVIDE SWITCH LEGS FOR SWITCH CIRCUITING AS REQUIRED. PROVIDE EQUIPMENT GROUND WIRE IN ALL BRANCH CIRCUIT RACEWAYS/CIRCUITS. PROVIDE SEPARATE ISOLATED GROUND WIRE TO ALL ISOLATED GROUND DEVICES.

CONDUIT SIZE	MAX QUANTITY OF CONDUCTORS PER CONDUIT		
	CONDUCTOR SIZE		
	12	10	8
3/4 INCH	5 TO 8	5 TO 6	1 TO 3
1 INCH	9 TO 13	7 TO 11	4 TO 5

SEE SPECIFICATONS FOR LIMITATIONS ON QUANTITY OF CURRENT CARRYING CONDUCTORS PER CONDUIT

CONDUIT RISER UP

CONDUIT RISER DOWN

INDICATES CIRCUIT CONTINUATION

STUB INTO ACCESSIBLE CORRIDOR CEILING SPACE UNLESS OTHERWISE NOTED

CONDUIT SEAL FITTING FOR HAZARDOUS AREAS

CONDUIT SLEEVE

CAP END OF CONDUIT

CABLE OR CORD CONNECTED

LIGHTING

NOTE A: UPPER CASE ALPHANUMERIC SUBSCRIPT DENOTES FIXTURE TYPE. SEE SCHEDULE(S)

NOTE B: LOWER CASE LETTER SUBSCRIPT PROVIDED ADJACENT TO SWITCHING DEVICE AND ASSOCIATED LIGHT FIXTURE(S) WHERE REQUIRED FOR CLARIFICATION.

CEILING LIGHT OUTLET WITH FIXTURE CONNECTED TO NORMAL SOURCE

DIRECTIONAL AIMED FIXTURE AIM IN DIRECTION OF ARROW

WALL BRACKET LIGHT OUTLET WITH FIXTURE CONNECTED TO NORMAL SOURCE

RECESSED LIGHT OUTLET WITH FIXTURE CONNECTED TO NORMAL SOURCE

WALL BRACKET LIGHT OUTLET WITH FIXTURE CONNECTED TO NORMAL SOURCE

UNDERCABINET/ COUNTER LIGHT OUTLET OR STRIP LIGHT OUTLET WITH FIXTURE CONNECTED TO NORMAL SOURCE

LINEAR PENDANT/SUSPENDED LIGHT FIXTURE CONNECTED TO NORMAL SOURCE

EXIT LIGHT OUTLET WITH FIXTURE - SHADING INDICATES LOCATION OF FACE(S). ARROWS INDICATE DIRECTIONAL ARROWS WHERE REQUIRED. WALL MOUNTED SIGNS AT +90" CENTERED ABOVE DOOR WHERE APPLICABLE

EMERGENCY LIGHT FIXTURE WITH INTEGRAL BATTERY SOURCE AND HEADS

TRACK LIGHT OUTLET WITH FIXTURE. TYPE INDICATED, QUANTITY AND LENGTH AS SHOWN OR SCHEDULED

PENDANT LIGHT FIXTURE CONNECTED TO NORMAL SOURCE

LIGHTING STANDARD POLE FIXTURE, PROVIDE QUANTITY OF HEADS AND ORIENTATION AS INDICATED

LIGHTING STANDARD WITH POST-TOP FIXTURE

BOLLARD FIXTURE

CEILING LIGHT OUTLET WITH FIXTURE CONNECTED TO EMERGENCY SOURCE

WALL SCONCE LIGHT OUTLET WITH FIXTURE CONNECTED TO EMERGENCY SOURCE

LIGHT OUTLET WITH FIXTURE CONNECTED TO EMERGENCY SOURCE

LINEAR WALL LIGHT OUTLET WITH FIXTURE CONNECTED TO EMERGENCY SOURCE

SURFACE / STRIP LIGHT OUTLET WITH FIXTURE CONNECTED TO EMERGENCY SOURCE

PENDANT LIGHT FIXTURE CONNECTED TO EMERGENCY SOURCE

LINEAR PENDANT/SUSPENDED LIGHT FIXTURE CONNECTED TO EMERGENCY SOURCE

S — SWITCH AT +48" U.O.N.

THE FOLLOWING SUBSCRIPTS ARE USED TO INDICATE VARIOUS TYPES OF SWITCHES.

NO SUBSCRIPT - SINGLE POLE

- 2 — DOUBLE POLE
- 3 — THREE WAY
- 4 — FOUR WAY
- D — DIMMER, COMPATIBLE WITH FIXTURE.
- f — FUSED
- L — PILOT LIGHT
- LV — LOW VOLTAGE/DIGITAL SWITCH
- OS — WALL SWITCH OCCUPANCY SENSOR, DUAL TECHNOLOGY.
- DOS — WALL SWITCH OCCUPANCY SENSOR W/ DIMMER, DUAL TECHNOLOGY.
- TE — MANUAL STARTER WITH THERMAL ELEMENT
- XP — EXPLOSION PROOF
- M — MOTOR RATED

WIRELESS DEVICE

PC — EXTERIOR PHOTOCELL. ON/OFF WITH ADJUSTABLE SET-POINT.

DH — DAYLIGHT HARVESTING SENSOR. ANALOG 0-10V OUTPUT WITH INTEGRAL MOTION SENSOR.

OS OS OS — CEILING / DIRECTIONAL / DIRECTIONAL WALL MOUNTED OCCUPANCY SENSOR DUAL TECHNOLOGY, WITH REQUIRED POWER PACKS.

TC — TIME CLOCK AT +48"

POWER AND DIAGRAMS

NOTE:
- A. OUTLETS IN FINISHED OR SHELL SPACES SHALL BE MOUNTED AT +18" UON.
- B. OUTLETS IN GARAGE, MECHANICAL, AND ELECTRICAL SPACES SHALL BE MOUNTED AT 48" UON.
- C. OUTLETS SHALL BE TAMPER PROOF, WHERE REQUIRED PER CODE.
- D. OUTLETS SHALL HAVE AFCI PROTECTION, WHERE REQUIRED PER CODE.
- E. OUTLETS SHALL HAVE GFCI PROTECTION, WHERE REQUIRED PER CODE.

THE FOLLOWING SUBSCRIPTS ARE USED TO INDICATE DIFFERENT TYPES OF RECEPTACLES

- WP — WEATHERPROOF, EXTRA DUTY, WITH STEEL IN-USE COVER.
- CL — CLOCK MOUNTED AT +84", REGRESSED SINGLE RECEPTACLE, WITH CLOCK HANGER.
- H — HORIZONTAL MOUNTING
- U — DUAL USB INCLUDED WITH RECEPTACLE TYPE SHOWN.

TYPICAL SYMBOLOGY:

20A, 125V, 2 POLE, 3 WIRE GROUNDING DUPLEX RECEPTACLE, NEMA 5-20R

20A, 125V, 2 POLE, 3 WIRE GROUNDING SINGLE RECEPTACLE, NEMA 5-20R

20A, 125V, 2 POLE, 3 WIRE GROUNDING DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R

250V, 2 POLE, 3 WIRE GROUNDING SINGLE RECEPTACLE, SIZE AND TYPE AS NOTED.

RECEPTACLES WITH GROUND FAULT CIRCUIT INTERRUPTOR

RECEPTACLES MOUNTED 4" ABOVE COUNTER OR BACK SPLASH AS APPLICABLE, UON.

RECEPTACLES WITH GFCI AND MOUNTED 4" ABOVE COUNTER OR BACK SPLASH AS APPLICABLE.

CEILING MOUNTED RECEPTACLE, TYPE AS INDICATED ABOVE.

CEILING MOUNTED GFCI RECEPTACLES, TYPE AS INDICATED ABOVE.

FLUSH FLOOR MOUNTED RECEPTACLE, TYPE AS INDICATED ABOVE.

FLUSH FLOOR MOUNTED RECEPTACLE, GFCI, TYPE AS INDICATED ABOVE.

PEDESTAL MOUNTED RECEPTACLE, TYPE AS INDICATED ABOVE.

SPECIAL PURPOSE RECEPTACLE. SUBSCRIPT DENOTES NEMA TYPE.

COMBINATION POWER/ COMMUNICATIONS FLOOR BOX, TYPE AND COMMUNICATIONS DEVICE AS INDICATED.

JUNCTION BOX. 4" SQUARE, UON. WALL AND CEILING MOUNTED.

PIGTAIL TO SWITCH DENOTES TOP HALF OF RECEPTACLE SWITCHED.

SURFACE RECEPTACLE STRIP, TYPE AND LENGTH AS INDICATED.

JUNCTION BOX. 4" SQUARE, UON. WALL AND CEILING MOUNTED.

208 VOLT PANELBOARD AT +72" TO TOP

480 VOLT PANELBOARD AT +72" TO TOP

M — ELECTRIC METER

CABLE TRAY OR WIREWAY

SAFETY SWITCH AT +54". CHARACTERISTICS AS INDICATED BY FRAME/POLES.

FUSED SAFETY SWITCH AT +54". CHARACTERISTICS AS INDICATED BY FRAME/FUSESIZE/POLES.

MAGNETIC MOTOR STARTER AT +54". CHARACTERISTICS AS INDICATED BY FRAME SIZE/POLES/NEMA SIZE.

COMBINATION MAGNETIC MOTOR STARTER WITH DISCONNECT AT +54". CHARACTERISTICS AS INDICATED BY FRAME/FUSE/POLES/NEMA SIZE

AFD — ADJUSTABLE FREQUENCY DRIVE WITH INTEGRAL CIRCUIT BREAKER DISCONNECT

MAGNETIC CONTACTOR AT +54". AMPS/POLES/CONTACT VOLTS/ COIL VOLTS AS INDICATED.

CB — SEPARATELY MOUNTED, ENCLOSED MOLDED CASE CIRCUIT BREAKER AT +48". FLUSH MOUNTED IN FINISHED AREAS. AMP/POLES AS INDICATED.

CIRCUIT BREAKER, AMP/POLES AS INDICATED

FUSE, SIZE AS INDICATED

FUSIBLE SWITCH, AMP/POLES/FUSE SIZE AS INDICATED

AUTOMATIC TRANSFER SWITCH +72" TO TOP OR FLOOR MOUNTED.

DISCONNECT STABS FOR DRAWOUT TYPE EQUIPMENT

TRANSFORMER

GROUND CONNECTION

MOTOR CONNECTION, HP AS INDICATED

G — GENERATOR

START-STOP PUSHBUTTON STATION AT +48"

GROUND BUS ON STANDOFFS

CONTROL PANEL:

EQUIPMENT OR TERMINAL CABINET AT +72" TO TOP

PS — POWER SUPPLY

PUSHBUTTON STATION AT +48"

FIRE DETECTION AND ALARM

FACP — CONTROL PANEL AT +72" TO TOP

FAA — FIRE ALARM ANNUNCIATOR PANEL AT +72" TO TOP

F — MANUAL STATION AT +48"

FIRE SUPPRESSION SYSTEM ABORT SWITCH STATION AT +48"

COMBINATION CARBON MONOXIDE / SMOKE DETECTOR WITH ANNUNCIATION

SD — SMOKE DETECTOR - PHOTO ELECTRIC AREA BEAM

DD — DUCT SMOKE DETECTOR

FD — FIRE/ SMOKE DAMPER

HD — AUTOMATIC HEAT DETECTOR

THE FOLLOWING SUBSCRIPTS ARE USED TO INDICATE THE VARIOUS TYPE OF HEAT DETECTORS

NO SUBSCRIPT - FIXED TEMPERATURE (155 DEGREE U.O.N.)

- R/F — COMBINATION RATE OF RISE FIXED TEMPERATURE (135 DEGREE U.O.N.)
- XP — EXPLOSION PROOF, FIXED TEMPERATURE (135 DEGREE U.O.N.) CLASS 1, GROUP C

NOTE: WALL MOUNT VISUAL AND COMBINATION AUDIO/VISUAL NOTIFICATION APPLIANCES AT +80" AFF TO BOTTOM OF FACE PLATE U.O.N.

V — VISUAL NOTIFICATION APPLIANCE

A — WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCE

AV — WALL MOUNTED COMBINATION AUDIBLE/VISUAL NOTIFICATION APPLIANCE

V — CEILING MOUNTED VISUAL NOTIFICATION APPLIANCE

A — CEILING MOUNTED AUDIBLE NOTIFICATION APPLIANCE

AV — CEILING MOUNTED COMBINATION AUDIBLE/VISUAL NOTIFICATION APPLIANCE

DH — MAGNETIC DOOR HOLDER. COORDINATE MOUNTING HEIGHT WITH DOOR MANUFACTURER.

FR — ELECTROMECHANICAL DOOR RELEASE. COORDINATE WITH DOOR MANUFACTURER.

FS — SPRINKLER OR STANDPIPE FLOW ALARM SWITCH CONNECTION

TS — VALVE TAMPER SWITCH

F — AIR PRESSURE MONITOR SWITCH FOR PRE-ACTION OR DRY PIPE SPRINKLER SYSTEM

TELECOMMUNICATION

GENERAL NOTES

NOTE A: OUTLETS IN FINISHED OR SHELL SPACES SHALL BE MOUNTED AT +18" UON.

NOTE B: OUTLETS LOCATED AT COUNTERS SHALL BE LOCATED 18"AFF IN KNEE SPACE IF PROVIDED OR 4" ABOVE COUNTER OR BACK SPLASH AS APPLICABLE IF NO KNEE SPACE IS PROVIDED UON.

NOTE C: WHERE ASTERISK (*) IS INDICATED NEXT TO OUTLET AT WORK COUNTER, OUTLET SHALL BE LOCATED ABOVE COUNTER RATHER THAN IN KNEE SPACE.

STANDARD TELECOMMUNICATIONS OUTLET - PROVIDE EXTRA DEEP DOUBLE GANG BOX WITH SINGLE GANG MUD RING AND (1) 1" CONDUIT TO ABOVE FINISHED CEILING, MOUNTED AT 18" AFF, UON. PROVIDE PLASTIC BUSHING AT THE ENDS OF THE CONDUITS. DATA DEVICES AND WIRING PROVIDED BY OTHERS, UON.

THE FOLLOWING SUBSCRIPTS ARE USED TO INDICATE THE VARIOUS (NON-STANDARD) TYPES OF OUTLETS

- FLOOR MOUNTED.
- CEILING MOUNTED.
- MOUNTED 48" AFF, UON.
- MOUNTED 72" AFF, UON.
- TELEPHONE AT 44" AFF, UON.
- TV — TELEVISION, MOUNTED AT NOTED HEIGHT.
- B — BLANK (ROUGH-IN TO ACCESSABLE CEILING SPACE) WITH BLANK COVERPLATE
- F — FIBER
- ## — THE FIRST NUMBER INDICATES THE NUMBER OF CAT6 CABLES. THE SECOND NUMBER INDICATES THE TO QUANTITY OF JACK LOCATIONS.

C — CLOCK - SEE SPECIFICATIONS FOR REQUIREMENTS.

S — SPEAKER FOR PA SYSTEM.

DO — ADA DOOR CONTROL OPENER, COORDINATE WITH DOOR REQUIREMENTS

DC — DOOR CONTROLS, COORDINATE WITH SECURITY, AUTO AND MANUAL CONTROLS

SECURITY

FIXED VIDEO SURVEILANCE CAMERA

DOOR POSITION SWITCH

CONNECTION TO ELECTRIC OR PNEUMATIC DOOR LOCK

CR — CARD READER AT +48"

PROJECT: J2025-0235/PSP2025-0014

REVISION: #1

RECIEVED: 9/11/2025

PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

NOTE:
SYMBOLS SHOWN ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE A CHECK LIST OF DEVICES REQUIRED BY THE CONTRACT

ROCHESTER HILLS MICHIGAN

MATRIX CONSULTING ENGINEERS, INC.

SEAL

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
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elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
ELECTRICAL COVER SHEET

811 Know what's below Call before you dig.

DATE	ISSUED / REVISED
2025-08-05	PRELIMINARY SITE PLAN REVIEW
2025-09-12	PER SITE PLAN REVIEW

DRAWN BY: BAE

DESIGNED BY: BAE

APPROVED BY: JFS

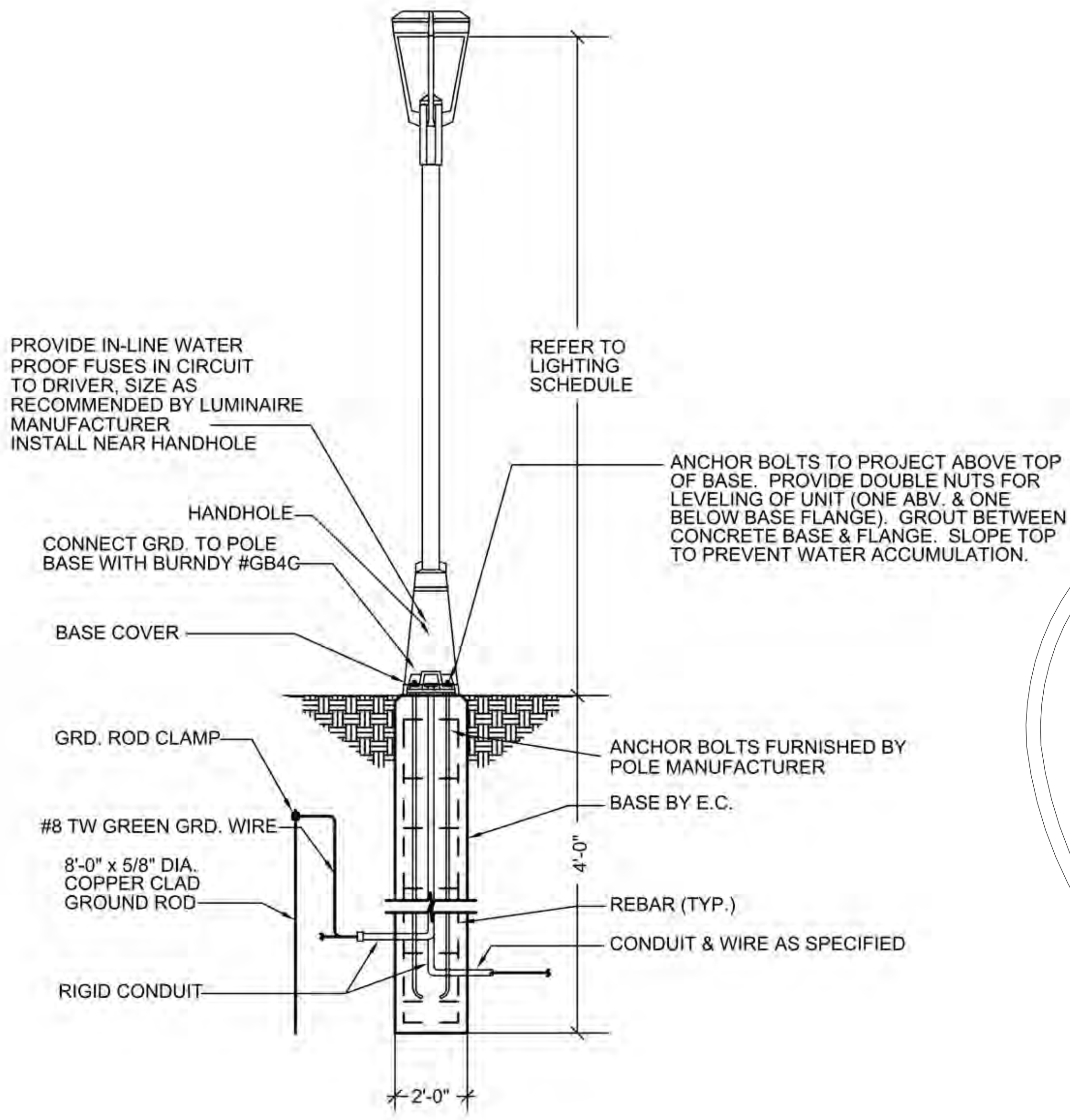
DATE: 08/05/2025

SCALE: 1/8" = 1'-0"

NFE JOB NO. 0557

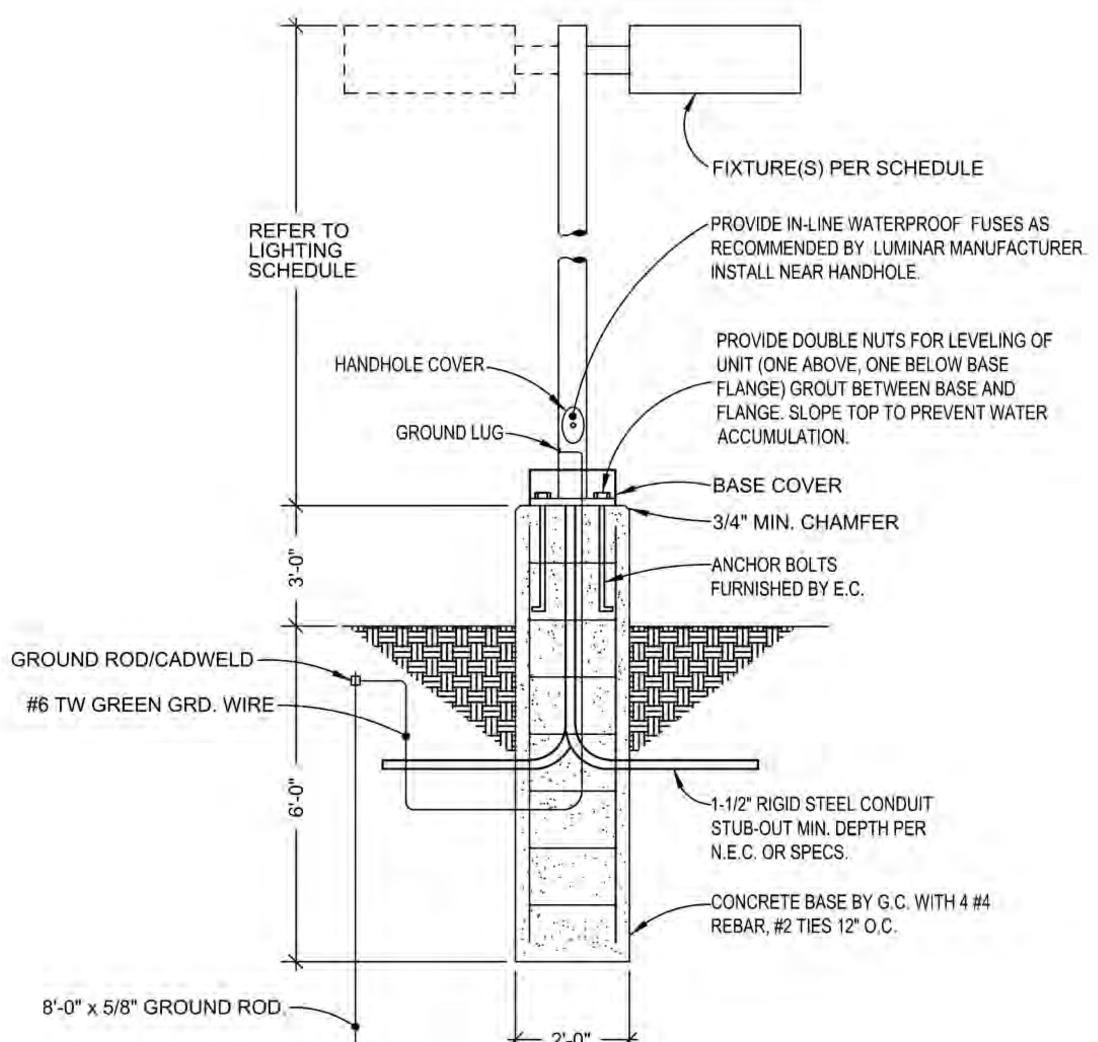
SHEET NO. E-100

Autodesk Docs://Nowicki Park/250059.00 - Nowicki Park - MEP - R23.rvt



1 POLE BASE DETAIL

SCALE: N.T.S.



2 PARKING LOT POLE BASE DETAIL

SCALE: N.T.S.

LIGHT FIXTURE SCHEDULE

ID	MANUFACTURER	MODEL NO.	VOLTAGE	REQUIRED LAMPS		DESCRIPTION	NOTES
				WATT	TYPE		
LA	COOPER LIGHTING	GALN-SA2C-830-U-T2-QU	120-277V	108 W	LED, 3000K, 11299LM,	LED SITE LIGHT WITH T2 DISTRIBUTION	MOUNTING HEIGHT: 15' AFF
LA POLE	COOPER LIGHTING	SSA-5-T-15-W-N-1	-	0 W	-	15' LIGHT POLE	
LB	COOPER LIGHTING	GALN-SA2C-830-U-T4FT-QU	120-277V	108 W	LED, 3000K, 11210LM,	LED SITE LIGHT WITH T4FT DISTRIBUTION	MOUNTING HEIGHT: 15' AFF
LB POLE	COOPER LIGHTING	SSA-5-T-15-W-N-1	-	0 W	-	15' LIGHT POLE	
LC	STERNBERG LIGHTING	PT-US660-S4-84L30T5-MDL002-SV1	120-277V	47 W	LED, 3000K, 5857LM,	LED DECORATIVE POST TOP SITE LIGHT WITH T5 DISTRIBUTION	MOUNTING HEIGHT: 12' AFF
LC POLE	STERNBERG LIGHTING	SSA12G400	-	0 W	-	12' LIGHT POLE	
LD	STERNBERG LIGHTING	US270-16L30T3-MDL003-SV1	120-277V	27 W	LED, 3000K, 3537LM,	LED DECORATIVE WALL SCONCE	MOUNTING HEIGHT: SEE SHEET E-200
LE	COOPER LIGHTING	TCRS8W-BK-7030	120-277V	8 W	LED, 3000K, 850LM	LED GROUND MOUNTED FLOODLIGHT	MOUNTING HEIGHT: 0' AFF

1 E-200 SITE PLAN - LIGHTING

SCALE = 1" = 60'-0"

NOT TO BE USED AS CONSTRUCTION DRAWINGS

Autodesk Docs://Nowicki Park/250059.00 - Nowicki Park - MEP - R23.rvt

ROCHESTER HILLS MICHIGAN

MATRIX CONSULTING ENGINEERS, INC.

SEAL

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City of Rochester Hills,
Oakland County, Michigan

Sheet
SITE PLAN - LIGHTING

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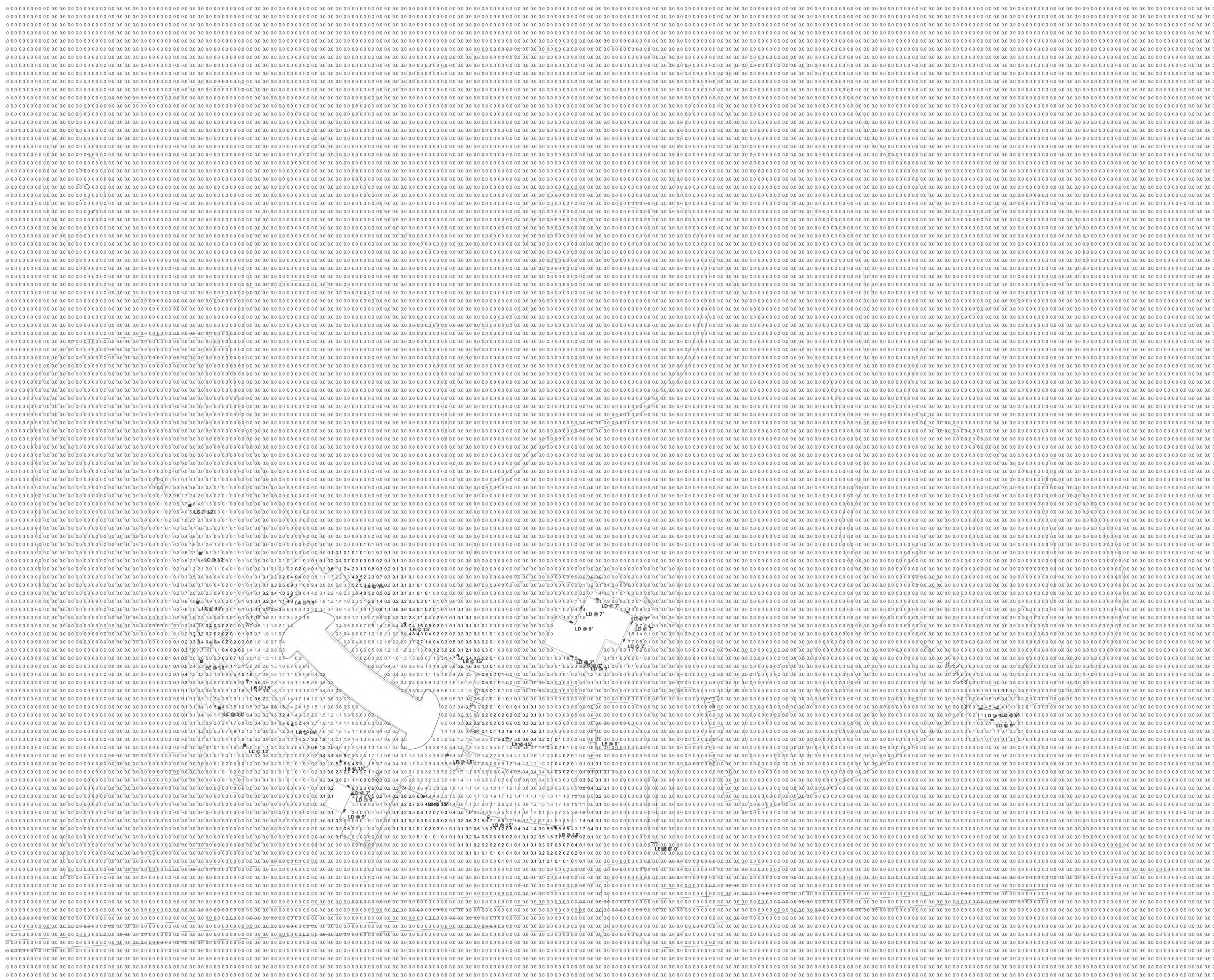
DESIGNED BY: BAE
APPROVED BY: JFS
DATE: 08/05/2025
SCALE: 1" = 60'-0"

ROCHESTER HILLS MICHIGAN
PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

NFE JOB NO. 0557

SHEET NO. E-200



1
E-201

SITE PLAN - PHOTOMETRICS

SCALE = 1" = 60'-0"

NOT TO BE USED AS CONSTRUCTION DRAWINGS

ROCHESTER HILLS
MICHIGAN

MATRIX
CONSULTING ENGINEERS, INC.

SEAL

STATE OF MICHIGAN
JOSEPH F. SOVIS, JR.
ENGINEER NO. 42247
LICENSED PROFESSIONAL ENGINEER

PROJECT
Nowicki Park
Site Improvements

CLIENT
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PROJECT LOCATION
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Sheet
SITE PLAN -
PHOTOMETRICS

811
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DATE	ISSUED / REVISED
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DRAWN BY:
BAE

DESIGNED BY:
BAE

APPROVED BY:
JFS

DATE:
08/05/2025

SCALE: 1" = 60'-0"

NFE JOB NO.
0557

SHEET NO.
E-201

ROCHESTER HILLS
MICHIGAN

PROJECT: J2025-0235/PSP2025-0014

REVISION: #1

RECIEVED: 9/11/2025

PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

LA

Project		Catalog #	GALN-SA2C-830-U-T2-QU	Type	
Prepared by		Notes		Date	

McGraw-Edison
GALN Galleon II

Area / Site Luminaire

Product Features

BABA · BAA · TAA · FADC · Light ARchitect™

Product Certifications

ISO · DLC Listed · DLC Listed Premium · 3G VIB · IP66 · UL Certified · 5 Year

Interactive Menu

Quick Facts

- Lumen packages range from 3,300 - 102,700 (33W - 658W)
- 17 optical distributions
- Efficacy up to 178 LPW

Connected Systems

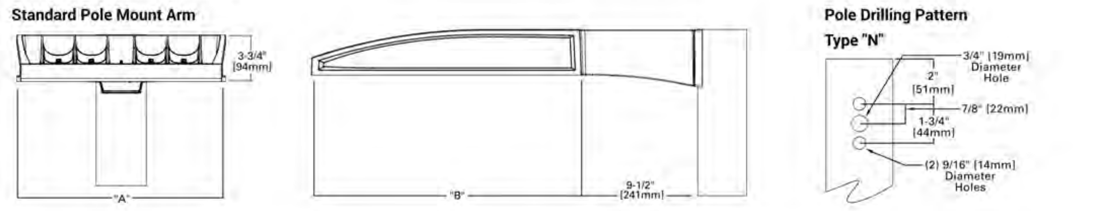
- Wavelinx LITE Wireless
- Wavelinx PRO Wireless
- AirMesh Wireless

Dimensional Details

Standard Pole Mount Arm

Pole Drilling Pattern

Type "N"



Number of Light Squares	Width "A"	Housing Length "B"	Weight with Standard or QM Arm	EPA with Standard or QM Arm
1-4	16"	22"	29 lb	0.95
5-6	22"	22"	39 lb	0.95
7-9	22"	28-1/8"	48 lb	1.1

NOTES: For arm selection requirements and additional line art, see Mounting Details section.

NOTES:
1. IDA Certified (3000K CCT and warmer only, fixed mounting options)

McGraw-Edison — GALN Galleon II

Ordering Information

SAMPLE NUMBER: **GALN-SA4C-740-U-T4FT-GM**

Product Family [1,2]	Light Engine Configuration: Light Square	Light Engine Configuration: Square Count	Light Engine Configuration: Lumen Output	Color Temperature	Voltage	Distribution	Mounting	Finish
GALN=Galleon II **BAA-GALN**=Galleon II Buy American Act Compliant [26] **TAA-GALN**=Galleon II Trade Agreements Act Compliant [26] **BABA-GALN**=Galleon II BABA/IIJA Compliant [38]	**SA**=16 LED Light Square **SB**=26 LED Light Square	**1**=1 Light Square **2**=2 Light Squares **3**=3 Light Squares **4**=4 Light Squares **5**=5 Light Squares **6**=6 Light Squares **7**=7 Light Squares **8**=8 Light Squares **9**=9 Light Squares	**A**=Output Level 1 **B**=Output Level 2 **C**=Output Level 3 **D**=Output Level 4 [4,16] **Z**=Configured Output [32]	**722**=70CRI, 2200K **727**=70CRI, 2700K **730**=70CRI, 3000K **735**=70CRI, 3500K **740**=70CRI, 4000K **750**=70CRI, 5000K **760**=70CRI, 6000K **827**=80CRI, 2700K **830**=80CRI, 3000K **835**=80CRI, 3500K **840**=80CRI, 4000K **930**=90CRI, 3000K **935**=90CRI, 3500K **940**=90CRI, 4000K **950**=90CRI, 5000K **AMB**=Amber [14,16]	**U**=120-277V **H**=347V-480V [7,29] **1**=120V **2**=208V **3**=240V **4**=277V **8**=480V [7,29] **9**=347V [7] **DV**=277V-480V DuraVolt Drivers [28,29,30]	**T1**=Type I **T2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **5NQ**=Type V Narrow **5MQ**=Type V Square Medium **5WQ**=Type V Square Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **AFL**=Automotive Frontline	**[Blank]**=Standard Pole Mount Arm **QU**=Quick Mount Universal Arm **QM**=Pole Mount Arm with Quick Mount Adaptor **PA**=Pole Mount, Adjustable **SP**=3" Slipfitter, Adjustable [8] **SP2**=2-3/8" Slipfitter, Adjustable [8] **QMA**=Quick Mount Mast Arm, Fixed **MA**=Mast Arm, Fixed **WM**=Wall Mount, Fixed **WA**=Wall Mount, Adjustable **UP**=Upswept Arm	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White **RALXX**=Custom Color

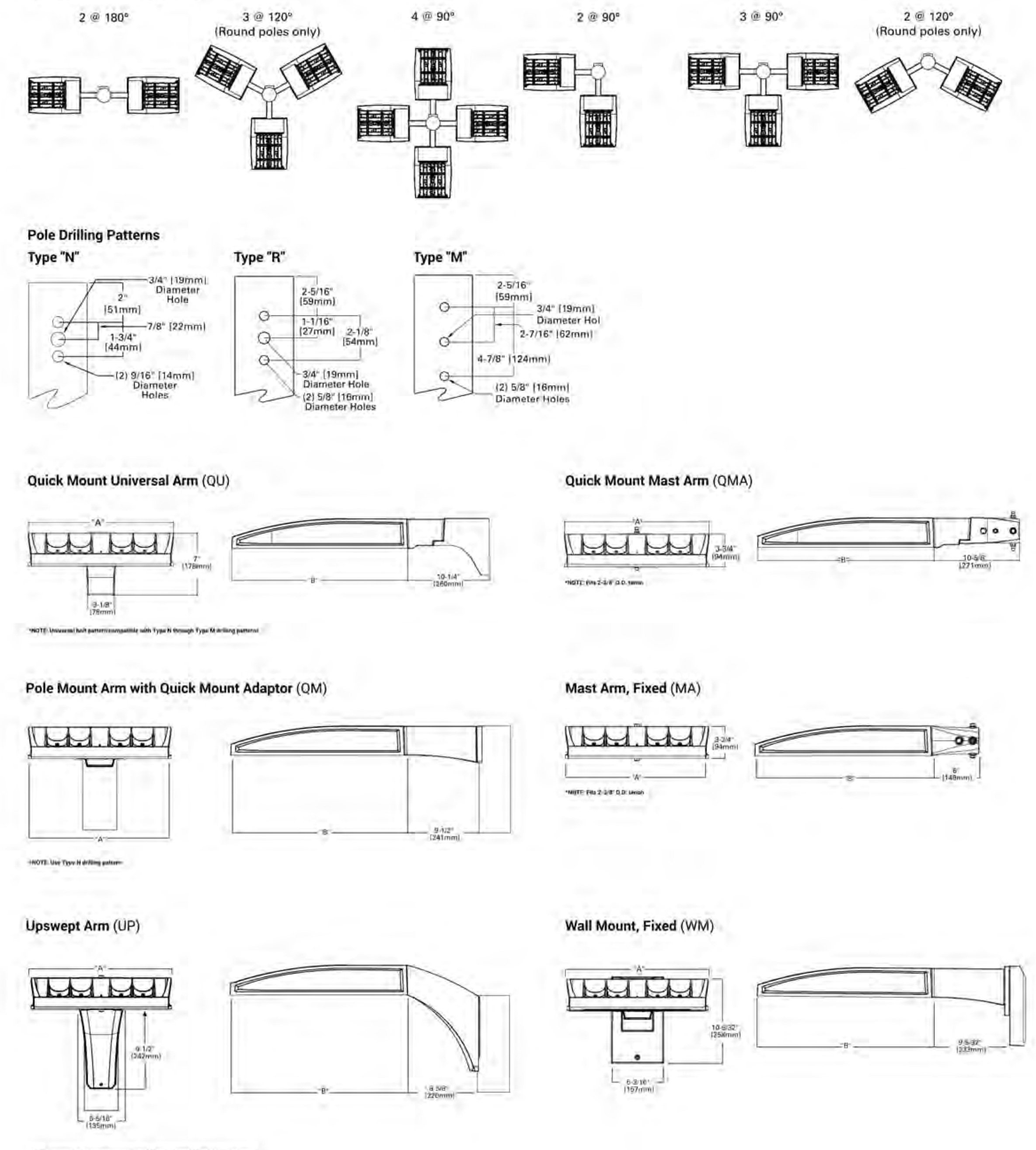
Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately) [27]
DIM=External 0-10V Dimming Leads [19] **F**=Single Fuse (120, 277 or 347V Specify Voltage) **FF**=Double Fuse (208, 240 or 480V Specify Voltage) **20K**=20kV UL 1449 fused surge protective device [10] **2L**=Two Circuits [10] **HA**=50°C High Ambient [16] **HSS**=Installed House Side Shield [17] **BCS**=Backlight Control Shield [17,37] **GRSBK**=Glare Reducing Shield, Black [22] **GRSWH**=Glare Reducing Shield, White [22] **LCF**=Light Square Trim Painted to Match Housing [25] **TH**=Tool-less Door Hardware [5] **CC**=Coastal Construction finish [3] **L90**=Optics Rotated 90° Left **R90**=Optics Rotated 90° Right **3SDCM**=3 Standard Deviation Color Matching [36] **AHD145**=After Hours Dim, 5 Hours [21] **AHD245**=After Hours Dim, 6 Hours [21] **AHD255**=After Hours Dim, 7 Hours [21] **AHD355**=After Hours Dim, 8 Hours [21] **DALI**=DALI Drivers	**BPC**=Button Type Photocontrol. Must specify voltage 120V, 208V, 240V or 277V. [6] **PR**=NEMA 3-PIN Photocontrol Receptacle **PR7**=NEMA 7-PIN Photocontrol Receptacle [20] **FADC**=Field Adjustable Dimming Controller [31] **PSC**=Photocontrol Shorting Cap **SPB2**=Dimming Motion Sensor, 9'-20' mounting [23] **SPB4**=Dimming Motion Sensor, 21'-40' mounting [23] **SPB2/X**=Dimming Motion Sensor, limited square count, 9'-20' mounting [23] **SPB4/X**=Dimming Motion Sensor, limited square count, 21'-40' mounting [23] **MS/DIM-L20**=Motion Sensor for Dimming Operation, 9'-20' Mounting [33] **MS/DIM-L40**=Motion Sensor for Dimming Operation, 21'-40' Mounting [33] **WLS2XX**=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting [12,18,34] **WLS4XX**=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting [12,18,34] **WPS2XX**=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [12,13,18,34] **WPS4XX**=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [12,13,18,34] **DIM10-L20**=AirMesh Occupancy Sensor (9'-20' Mounting) [18,35] **DIM10-L40**=AirMesh Occupancy Sensor (21'-40' Mounting) [18,35]	**OA/RA1016**=NEMA Photocontrol Multi-Tap - 105-285V **OA/RA1027**=NEMA Photocontrol - 480V **OA/RA1201**=NEMA Photocontrol - 347V **OA/RA1013**=Photocontrol Shorting Cap **OA/RA1014**=120V Photocontrol **MA1252**=10kV Surge Module Replacement **MA1036-XX**=Single Tenon Adapter for 2-3/8" O.D. Tenon **MA1037-XX**=2@180° Tenon Adapter for 2-3/8" O.D. Tenon **MA1197-XX**=3@120° Tenon Adapter for 2-3/8" O.D. Tenon **MA1188-XX**=4@90° Tenon Adapter for 2-3/8" O.D. Tenon **MA1189-XX**=2@90° Tenon Adapter for 2-3/8" O.D. Tenon **MA1190-XX**=3@90° Tenon Adapter for 2-3/8" O.D. Tenon **MA1191-XX**=2@120° Tenon Adapter for 2-3/8" O.D. Tenon **MA1038-XX**=Single Tenon Adapter for 3-1/2" O.D. Tenon **MA1039-XX**=2@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1192-XX**=3@120° Tenon Adapter for 3-1/2" O.D. Tenon **MA1193-XX**=4@90° Tenon Adapter for 3-1/2" O.D. Tenon **MA1194-XX**=2@90° Tenon Adapter for 3-1/2" O.D. Tenon **MA1195-XX**=3@90° Tenon Adapter for 3-1/2" O.D. Tenon **SRA238**=Adapter kit for mounting 3" SP arm to 2-3/8" O.D. vertical tenon **FSIR-100**=Wireless Configuration Tool for MS/DIM [33] **LS/HSS**=Field Installed House Side Shield for SA Light Squares [9,17] **LS/HSS-SB**=Field Installed House Side Shield for SB Light Squares [9,17] **LS/BCS**=Backlight Control Shield [9,17,37] **LS/GRSBK-2PK** =Glare Reducing Shield, Black [9,22] **LS/GRSWH-2PK** =Glare Reducing Shield, White [9,22] **LS/PFS**=Perimeter Shield, Black [15] **WOLC-7P-10A**=WaveLinx Outdoor Control Module [11,18,13] **TL7-G1-HV**= AirMesh 7-PIN node, 110-480V [11,18,35] **CBSSW-450-002**= AirMesh central base station with 5-button control [35]

NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
2. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. Coastal construction finish salt spray tested to over 5,000 hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option.
4. When using SA light squares, Output Level 4 not available with color temperatures 722, 727, 827, 830 or 930 when HSS is used.
5. TH option not 3G rated. Not available with Coastal Construction (CC) option.
6. Not available with voltage options H, 8 or 9.
7. Not available with SB1A or SB2A configurations. Not available in combination with HA high ambient and sensor options at Output Level 3. H voltage not available with sensor options, choose voltage 8 or 9.
8. SP arm limited to 3" O.D. vertical tenon. SP2 limited to 2-3/8" O.D. vertical tenon.
9. One required for each Light Square.
10. 2L is not available with SB light squares. Not available with SPB at 347V or 480V. Not available with WaveLinx or 20kV surge option
11. Requires PR7.
12. Replace XX with sensor color (WH, BZ or BK.).
13. WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. WAC not required for LC Bluetooth sensors.
14. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose Output Level 1; supplied at 500mA drive current only. Not available with SB light squares. Exact luminaire wattage available in IES files. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
15. Set of 4 pcs. One set required per Light Square.
16. HA option not available with Output Level 4 or AMB Amber.
17. Not for use with T1, 5NQ, 5MQ, 5WQ or RW optics.
18. Cannot be used with other control options.
19. Low voltage control lead brought out 18" outside fixture. Not available with DALI or integrated controls options.
20. Not available if any SPB, LWR, or WaveLinx sensor is selected. Motion sensor has an integral photocell.
21. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. Not available with SB light squares when using Output Level 4.
22. Not for use with T1, T4FT, T4W or SL optics. See IES files for details. Not available with SB light squares.
23. Sensor configuration mobile application required for configuration. See controls page for details.
24. Replace X with number of Light Squares controlled by the SPB, referencing the "SPB/X Availability Table" on the controls page.
25. Not available with HSS, GRSWH or GRSBK.
26. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
27. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
28. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information.
29. 480V not to be used with ungrounded or impedance grounded systems.
30. Not available with SA1A or SA1B. Not available with SB1, or any SB configuration using Output Level 1. Not available with any control option except SPB
31. Cannot be used with DALI, PR7, or other motion response control options. Not available with SB light squares when using Output Level 4.
32. Use GALN Product Configurator to specify lumen output, drive current and wattage. Not available with AMB. Not available with SB light squares.
33. Uses the FSP-211 motion sensor. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
34. Controls system is not available with photocontrol receptacles (PR , PR7) or other controls systems (FADC, SPBx).
35. Requires AirMesh central base station CBSSW-450-002 and Synapse commissioning for operation.
36. 3-step MacAdam ellipse binning. Available in 740 CRI/CCT only. Longer lead times apply; consult your lighting representative at Cooper Lighting Solutions for more information.
37. Not available with SB light squares
38. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

McGraw-Edison — GALN Galleon II

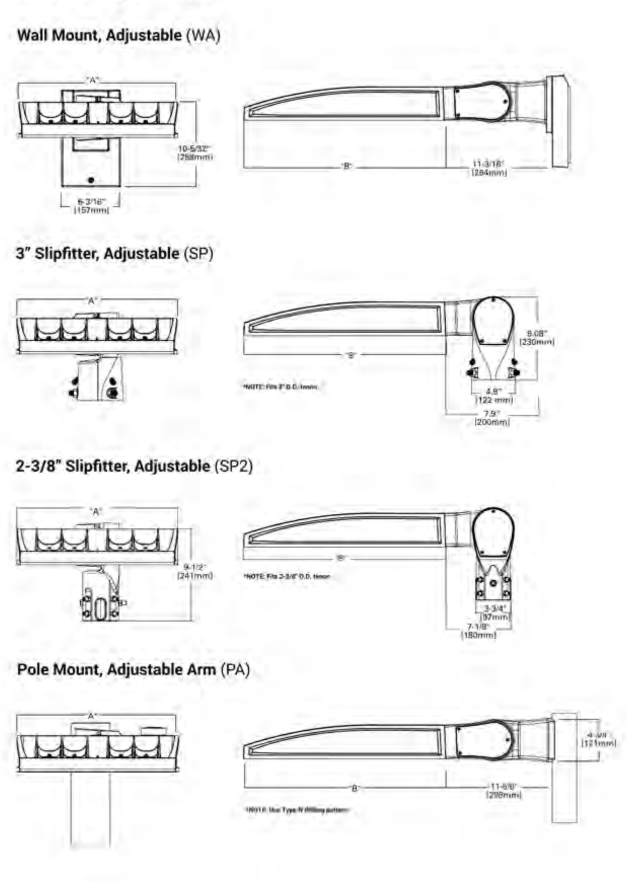
Mounting Details

Pole Configuration Options



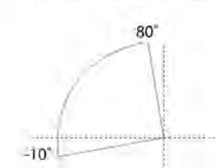
McGraw-Edison — GALN Galleon II

Mounting Details



Adjustable Arm Range of Motion

- Includes WA, SP, SP2 and PA mounting options
- Adjustable in increments of 5°
- Must maintain downward facing orientation



Fixture Weights and EPAs

Tilt Angle (Degrees)	Number of Light Squares	Weight	1 @ 90°	2 @ 180°	2 @ 90°	2 @ 120°	3 @ 90°	3 @ 120°	4 @ 90°
0°	1-4	33.5 lb (15.2 kg)	0.85	1.70	1.46	1.66	2.31	2.25	2.35
	5-6	43.5 lb (19.7 kg)	0.86	1.71	1.62	1.80	2.49	2.35	2.50
	7-9	52.5 lb (23.8 kg)	0.98	1.95	1.75	1.98	2.73	2.55	2.76
15°	1-4	33.5 lb (15.2 kg)	1.10	1.71	1.95	2.26	2.81	3.30	2.87
	5-6	43.5 lb (19.7 kg)	1.42	1.71	2.27	2.72	3.13	3.63	3.15
	7-9	52.5 lb (23.8 kg)	1.69	1.96	2.67	3.22	3.65	4.38	3.72
30°	1-4	33.5 lb (15.2 kg)	1.72	1.81	2.58	3.21	3.44	4.59	3.53
	5-6	43.5 lb (19.7 kg)	2.26	2.29	3.11	4.00	3.97	5.27	4.00
	7-9	52.5 lb (23.8 kg)	2.75	2.85	3.73	4.83	4.71	6.45	4.81
45°	1-4	33.5 lb (15.2 kg)	2.25	2.36	3.10	4.00	3.96	5.63	4.08
	5-6	43.5 lb (19.7 kg)	2.96	2.99	3.81	5.06	4.67	6.49	4.71
	7-9	52.5 lb (23.8 kg)	3.63	3.76	3.73	6.17	5.59	8.03	5.73
60°	1-4	33.5 lb (15.2 kg)	2.63	2.77	3.49	4.58	4.34	6.21	4.48
	5-6	43.5 lb (19.7 kg)	3.46	3.51	4.32	5.84	5.19	7.01	5.22
	7-9	52.5 lb (23.8 kg)	4.27	4.44	5.25	7.15	6.23	8.80	6.40

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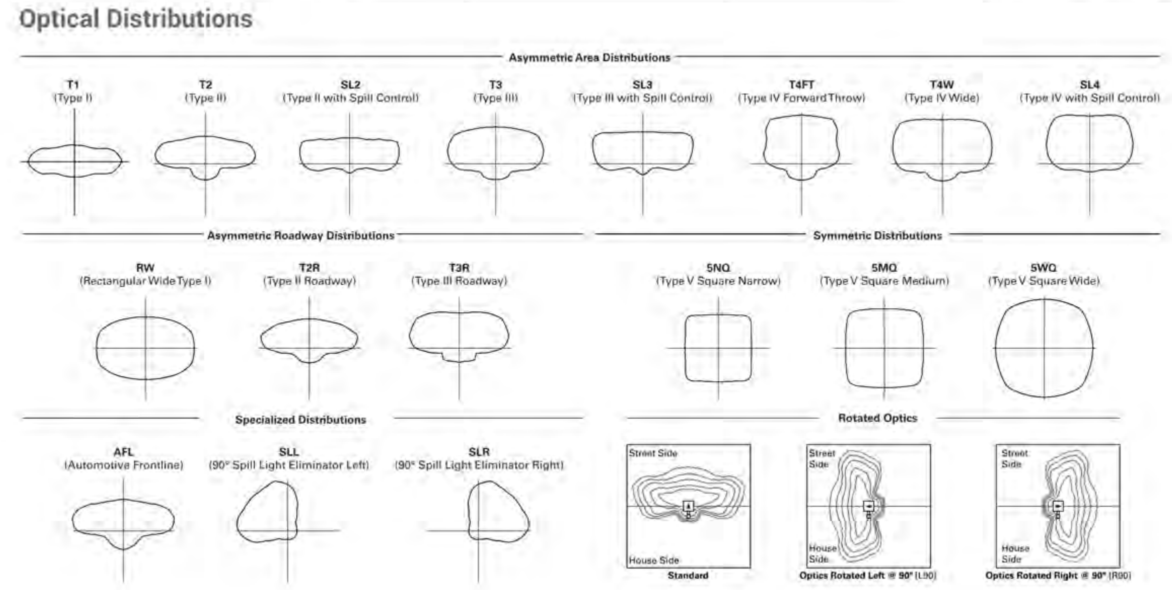
Optical Distributions



Product Specifications

Construction
- Die-cast aluminum housing and heat sink
- Three housing sizes, using 1 to 9 light squares

Optics
- High-efficiency injection-molded AccuLED Optics technology
- 17 optical distributions for area site and roadway applications
- 4 shielding options include HSS, BCS, GRS and PFS
- IDA Certified (3000K CCT and warmer only, fixed mounting options)
- 5 step MacAdam ellipse binning (5 SDCM) standard with 70CRI and 80CRI. 3SDCM option available with 740 CRI/CCT. 3 step MacAdam ellipse binning standard with 90CRI

Electrical
- Removable power tray assembly includes drivers, surge modules and control modules for ease of maintenance and serviceability
- Standard with 0-10V dimming
- Standard with 10kV surge module, optional 20kV surge module
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Comes pre-set to the highest position at the lumen output selected

Mounting
- Arms are factory installed, enabling closed-housing installation
- All arms suitable for round or square pole installation
- All arms provide clearance for multiple fixture installations at 90°

Finish
- 6 standard finishes use super durable TGIC polyester powder coat paint, providing 2.5 mil nominal thickness and salt-spray tested to 3,000 hours per ASTM B117
- RAL and custom color matches available
- Coastal Construction (CC) option salt-spray tested to 5,000 hours per ASTM B117, achieving a scribe rating of 9 per ASTM D1654

Compliance
- Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified
- IDA Certified (3000K CCT and warmer only, fixed mounting options)
- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Buy America Build America Act (BABA).BABA is the minimum Government compliance requirement for the Buy America Build America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards.
- Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements

Typical Applications
- Outdoor, Parking Lots, Walkways, Roadways, Building Areas
- Sports lighting, including tennis, pickleball, basketball courts

Warranty
- Five-year limited warranty. Consult website for details. www.cooperlighting.com/legal

McGraw-Edison — GALN Galleon II

Energy and Performance Data

Lumen Maintenance (TM-21)

Output Level	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Output Levels 1-3	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
Output Level 4	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

* Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

FADC Settings
SA1-SA3 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	25%
2	48%
3	56%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: +/-5% typical value

FADC Settings
SA4-SA6 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	14%
2	25%
3	32%
4	43%
5	49%
6	57%
7	65%
8	72%
9	80%
10	100%

Note: +/-5% typical value

FADC Settings
SA7-SA9 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	19%
2	38%
3	47%
4	63%
5	74%
6	85%
7	95%
8	97%
9	100%
10	100%

Note: +/-5% typical value

Drive Currents

Lumen Output	SA Light Squares	SB Light Squares
Output Level 1	615mA	350mA
Output Level 2	800mA	450mA
Output Level 3	1050mA	615mA
Output Level 4	1200mA	900mA

ROCHESTER HILLS MICHIGAN

MATRIX CONSULTING ENGINEERS, INC.

SEAL

STATE OF MICHIGAN
JOSEPH F. SOVIS, JR.
ENGINEER
NO.
42247
LICENSED PROFESSIONAL ENGINEER

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
ELECTRICAL FIXTURE
CUT SHEETS

811
Know what's below
Call before you dig.

DATE	ISSUED / REVISED

ROCHESTER HILLS MICHIGAN

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

DRAWN BY:
BAE

DESIGNED BY:
BAE

APPROVED BY:
JFS

DATE:
03/**/2019

SCALE:

NFE JOB NO.
0557

SHEET NO.
E-800

Specific lighting schedule for project on preceding pages show 3000k fixtures. These sheets show 4000k

Lighting to be 3,000k or less

McGraw-Edison — GALN Galleon II

SA Light Squares, Output Level 1, 4000K CCT, 70 CRI

Galleon II IES Files | Supplemental Lumen Tables

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		33	63	93	121	154	182	215	244	274
Input Current @ 120V		0.283	0.529	0.778	1.058	1.310	1.556	1.839	2.089	2.335
Input Current @ 208V		0.165	0.309	0.460	0.618	0.771	0.919	1.082	1.240	1.379
Input Current @ 240V		0.143	0.270	0.398	0.540	0.671	0.796	0.944	1.078	1.194
Input Current @ 277V		0.125	0.237	0.352	0.473	0.581	0.705	0.818	0.962	1.057
Input Current @ 347V		0.098	0.181	0.272	0.362	0.454	0.544	0.636	0.738	0.816
Input Current @ 480V		0.073	0.133	0.200	0.267	0.335	0.400	0.470	0.554	0.600
Optics										
T1	Lumens	4,619	9,180	13,628	18,059	22,861	27,070	31,796	36,863	41,385
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	140	146	147	149	148	149	148	151	151
T2	Lumens	4,654	9,249	13,730	18,194	23,032	27,273	32,034	37,138	41,694
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	141	147	148	150	150	150	149	152	152
T2R	Lumens	4,716	9,372	13,913	18,437	23,340	27,637	32,462	37,634	42,251
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
	Lumens per Watt	143	149	150	152	152	152	151	154	154
T3	Lumens	4,589	9,120	13,538	17,940	22,711	26,892	31,587	36,620	41,112
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	139	145	146	148	147	148	147	150	150
T3R	Lumens	4,735	9,411	13,970	18,513	23,436	27,751	32,596	37,790	42,425
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	143	149	150	153	152	152	152	155	155
T4FT	Lumens	4,617	9,176	13,622	18,051	22,851	27,058	31,782	36,847	41,366
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	140	146	146	149	148	149	148	151	151
T4W	Lumens	4,631	9,203	13,662	18,104	22,918	27,138	31,876	36,955	41,488
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	140	146	147	150	149	149	148	151	151
SL2	Lumens	4,619	9,180	13,627	18,058	22,860	27,069	31,795	36,861	41,383
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
	Lumens per Watt	140	146	147	149	148	149	148	151	151
SL3	Lumens	4,586	9,115	13,531	17,931	22,699	26,879	31,571	36,602	41,091
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	139	145	145	148	147	148	147	150	150
SL4	Lumens	4,529	9,002	13,363	17,708	22,417	26,544	31,178	36,146	40,580
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	137	143	144	146	146	146	145	148	148
SNQ	Lumens	4,829	9,598	14,247	18,880	23,901	28,301	33,242	38,539	43,266
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
	Lumens per Watt	146	152	153	156	155	155	155	158	158
SMQ	Lumens	4,853	9,645	14,318	18,974	24,020	28,442	33,407	38,731	43,482
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	147	153	154	157	156	156	155	159	159
SWQ	Lumens	4,843	9,625	14,288	18,934	23,969	28,382	33,337	38,649	43,390
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	147	153	154	156	156	156	155	158	158
SLL/ SLR	Lumens	3,989	7,927	11,768	15,594	19,741	23,375	27,456	31,831	35,736
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	121	126	127	129	128	128	128	130	130
RW	Lumens	4,774	9,488	14,085	18,665	23,628	27,979	32,863	38,100	42,774
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	145	151	151	154	153	154	153	156	156
AFL	Lumens	4,673	9,286	13,785	18,268	23,126	27,384	32,164	37,290	41,864
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	142	147	148	151	150	150	150	153	153

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

COOPER Lighting Solutions

Lighting to be 3,000k or less

McGraw-Edison — GALN Galleon II

SA Light Squares, Output Level 2, 4000K CCT, 70 CRI

Galleon II IES Files | Supplemental Lumen Tables

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		44	82	121	164	204	243	286	325	364
Input Current @ 120V		0.367	0.689	1.014	1.378	1.704	2.027	2.393	2.716	3.041
Input Current @ 208V		0.213	0.401	0.594	0.802	0.997	1.188	1.400	1.605	1.782
Input Current @ 240V		0.184	0.347	0.510	0.694	0.860	1.021	1.210	1.386	1.531
Input Current @ 277V		0.160	0.303	0.449	0.605	0.757	0.898	1.065	1.242	1.347
Input Current @ 347V		0.125	0.235	0.355	0.471	0.592	0.710	0.828	0.958	1.065
Input Current @ 480V		0.092	0.172	0.258	0.344	0.432	0.517	0.605	0.706	0.775
Optics										
T1	Lumens	5,748	11,423	16,957	22,470	28,446	33,683	39,563	45,867	51,494
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	131	139	140	137	139	139	138	141	141
T2	Lumens	5,790	11,508	17,083	22,638	28,658	33,935	39,859	46,210	51,879
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	132	140	141	138	140	140	139	142	143
T2R	Lumens	5,868	11,662	17,311	22,941	29,041	34,388	40,391	46,827	52,572
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
	Lumens per Watt	133	142	143	140	142	142	141	144	144
T3	Lumens	5,710	11,347	16,845	22,322	28,258	33,461	39,303	45,565	51,155
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	130	138	139	136	139	138	137	140	141
T3R	Lumens	5,892	11,710	17,383	23,035	29,161	34,530	40,558	47,020	52,788
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	134	143	144	140	143	142	142	145	145
T4FT	Lumens	5,745	11,418	16,949	22,460	28,433	33,668	39,546	45,847	51,471
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
T4W	Lumens	5,762	11,451	16,999	22,526	28,517	33,767	39,662	45,982	51,622
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	140	140	137	140	139	139	141	142
SL2	Lumens	5,747	11,422	16,956	22,469	28,444	33,681	39,561	45,865	51,491
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
SL3	Lumens	5,707	11,342	16,836	22,311	28,244	33,444	39,283	45,542	51,129
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	130	138	139	136	138	138	137	140	140
SL4	Lumens	5,636	11,201	16,627	22,034	27,893	33,028	38,794	44,976	50,493
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	128	137	137	134	137	136	136	138	139
SNQ	Lumens	6,009	11,942	17,727	23,492	29,739	35,214	41,362	47,953	53,835
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	137	146	147	143	146	145	145	148	148
SMQ	Lumens	6,039	12,001	17,816	23,609	29,887	35,389	41,568	48,191	54,103
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	137	146	147	144	147	146	145	148	149
SWQ	Lumens	6,026	11,976	17,778	23,559	29,824	35,315	41,480	48,090	53,989
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	137	146	147	144	146	145	145	148	148
SLL/ SLR	Lumens	4,963	9,863	14,642	19,403	24,563	29,085	34,163	39,607	44,465
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	113	120	121	118	120	120	119	122	122
RW	Lumens	5,940	11,806	17,526	23,224	29,400	34,813	40,891	47,407	53,222
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	135	144	145	142	144	143	143	146	146
AFL	Lumens	5,814	11,555	17,153	22,730	28,775	34,073	40,021	46,398	52,090
	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
	Lumens per Watt	132	141	142	139	141	140	140	143	143

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

COOPER Lighting Solutions

Lighting to be 3,000k or less

McGraw-Edison — GALN Galleon II

SA Light Squares, Output Level 3, 4000K CCT, 70 CRI

Galleon II IES Files | Supplemental Lumen Tables

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		57	108	160	213	269	321	377	429	481
Input Current @ 120V		0.478	0.905	1.338	1.810	2.244	2.675	3.150	3.584	4.013
Input Current @ 208V		0.279	0.532	0.780	1.064	1.313	1.559	1.845	2.093	2.339
Input Current @ 240V		0.243	0.458	0.664	0.916	1.123	1.328	1.582	1.788	1.991
Input Current @ 277V		0.213	0.404	0.582	0.808	0.997	1.164	1.401	1.589	1.745
Input Current @ 347V		0.164	0.322	0.471	0.644	0.795	0.943	1.117	1.269	1.414
Input Current @ 480V		0.121	0.235	0.341	0.469	0.579	0.681	0.814	0.923	1.022
Optics										
T1	Lumens	7,101	14,113	20,950	27,763	35,146	41,616	48,882	56,671	63,623
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	125	131	131	130	131	130	130	132	132
T2	Lumens	7,154	14,219	21,107	27,970	35,408	41,927	49,247	57,094	64,098
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	132	132	131	132	131	131	133	133
T2R	Lumens	7,250	14,408	21,389	28,344	35,881	42,487	49,905	57,857	64,954
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	127	133	134	133	133	132	132	135	135
T3	Lumens	7,054	14,020	20,812	27,580	34,914	41,342	48,560	56,297	63,203
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
T3R	Lumens	7,280	14,468	21,477	28,461	36,029	42,663	50,111	58,096	65,222
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	128	134	134	134	134	133	133	135	136
T4FT	Lumens	7,098	14,107	20,941	27,751	35,130	41,598	48,860	56,646	63,594
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	130	131	130	130	132	132
T4W	Lumens	7,119	14,148	21,003	27,832	35,233	41,720	49,004	56,812	63,781
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	131	131	130	130	132	133
SL2	Lumens	7,101	14,112	20,949	27,761	35,144	41,614	48,879	56,668	63,619
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	130	131	130	130	132	132
SL3	Lumens	7,051	14,013	20,802	27,566	34,897	41,321	48,535	56,269	63,172
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
SL4	Lumens	6,963	13,839	20,543	27,223	34,463	40,808	47,932	55,569	62,386
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	122	128	128	128	128	127	127	130	130
SNQ	Lumens	7,424	14,755	21,903	29,025	36,743	43,508	51,104	59,247	66,515
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	130	137	137	136	137	136	136	138	138
SMQ	Lumens	7,461	14,828	22,012	29,169	36,926	43,725	51,359	59,542	66,846
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	131	137	138	137	137	136	136	139	139
SWQ	Lumens	7,445	14,797	21,966	29,108	36,849	43,633	51,250	59,417	66,705
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	131	137	137	137	137	136	136	139	139
SLL/ SLR	Lumens	6,132	12,187	18,091	23,973	30,348	35,936	42,210	48,935	54,938
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	108	113	113	113	113	112	112	114	114
RW	Lumens	7,340	14,587	21,653	28,694	36,325	43,013	50,522	58,573	65,757
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	129	135	135	135	135	134	134	137	137
AFL	Lumens	7,183	14,276	21,193	28,084	35,552	42,098	49,448	57,327	64,359
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	126	132	132	132	132	131	131	134	134

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

COOPER Lighting Solutions

Lighting to be 3,000k or less

McGraw-Edison — GALN Galleon II

SA Light Squares, Output Level 4, 4000K CCT, 70 CRI

Galleon II IES Files | Supplemental Lumen Tables

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		65	125	184	245	309	368	433	493	552
Input Current @ 120V		0.546	1.041	1.535	2.082	2.578	3.070	3.619	4.114	4.605
Input Current @ 208V		0.318	0.610	0.893	1.219	1.504	1.786	2.113	2.397	2.679
Input Current @ 240V		0.276	0.523	0.758	1.046	1.282	1.516	1.806	2.041	2.274
Input Current @ 277V		0.241	0.460	0.662	0.920	1.133	1.325	1.593	1.807	1.987
Input Current @ 347V		0.187	0.370	0.543	0.740	0.915	1.085	1.285	1.459	1.628
Input Current @ 480V		0.138	0.269	0.391	0.537	0.663	0.782	0.932	1.057	1.173
Optics										
T1	Lumens	7,814	15,529	23,053	30,549	38,672	45,793	53,787	62,358	70,007
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	120	124	125	125	125	124	124	126	127
T2	Lumens	7,872	15,645	23,225	30,777	38,962	46,135	54,189	62,824	70,530
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	125	126	126	126	125	125	127	128
T2R	Lumens	7,977	15,854	23,535	31,188	39,482	46,751	54,913	63,663	71,472
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	127	128	127	128	127	127	129	129
T3	Lumens	7,762	15,427	22,901	30,348	38,418	45,491	53,433	61,947	69,546
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	123	124	124	124	124	123	126	126
T3R	Lumens	8,010	15,920	23,632	31,317	39,645	46,944	55,139	63,925	71,767
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	127	128	128	128	128	127	130	130
T4FT	Lumens	7,810	15,522	23,043	30,535	38,655	45,772	53,763	62,330	69,976
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	120	124	125	125	125	124	124	126	127
T4W	Lumens	7,833	15,568	23,110	30,625	38,769	45,907	53,921	62,513	70,182
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	125	126	125	125	125	125	127	127
SL2	Lumens	7,813	15,528	23,052	30,547	38,670	45,790	53,784	62,354	70,003
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	120	124	125	125	125	124	124	126	127
SL3	Lumens	7,758	15,419	22,889	30,332	38,398	45,468	53,406	61,916	69,511
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	123	124	124	124	124	123	126	126
SL4	Lumens	7,662	15,228	22,605	29,955	37,921	44,903	52,742	61,146	68,646
	BUG Rating	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	118	122	123	122	123	122	122	124	124
SNQ	Lumens	8,169	16,235	24,101	31,938	40,431	47,874	56,232	65,193	73,190
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	126	130	131	130	131	130	130	132	133
SMQ	Lumens	8,210	16,316	24,221	32,097	40,632	48,113	56,512	65,517	73,554
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	126	131	132	131	131	131	131	133	133
SWQ	Lumens	8,192	16,282	24,170	32,029	40,546	48,011	56,393	65,379	73,399
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	126	130	131	131	131	130	130	133	133
SLL/ SLR	Lumens	6,747	13,410	19,906	26,379	33,394	39,542	46,445	53,846	60,451
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	104	107	108	108	108	107	107	109	110
RW	Lumens	8,076	16,050	23,826	31,574	39,970	47,329	55,592	64,450	72,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	124	128	129	129	129	129	128	131	131
AFL	Lumens	7,904	15,709	23,320	30,902	39,120	46,323	54,410	63,079	70,817
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	122	126	127	126	127	126	126	128	128

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

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Lighting to be 3,000k or less

McGraw-Edison — GALN Galleon II

SB Light Squares, Output Level 1, 4000K, 70 CRI

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		31	57	85	114	142	171	199	227	256
Input Current @ 120V		0.263	0.484	0.717	0.952	1.201	1.434	1.685	1.918	2.151
Input Current @ 208V		0.154	0.280	0.420	0.552	0.700	0.839	0.979	1.119	1.259
Input Current @ 240V		0.136	0.245	0.370	0.483	0.615	0.740	0.860	0.985	1.110
Input Current @ 277V		0.122	0.216	0.330	0.425	0.546	0.660	0.762	0.876	0.989
Input Current @ 347V		-	-	0.248	0.328	0.413	0.495	0.577	0.665	0.743
Input Current @ 480V		-	-	0.182	0.238	0.304	0.364	0.426	0.493	0.547
Optics										
T1	Lumens	4,696	9,389	14,086	18,816	23,716	28,470	33,388	37,964	42,763
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
	Lumens per Watt	152	164	166	165	167	167	168	167	167
T2	Lumens	4,704	9,404	14,109	18,846	23,754	28,515	33,442	38,024	42,831
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	152	164	167	165	168	167	168	167	168
T2R	Lumens	4,835	9,667	14,503	19,373	24,418	29,313	34,377	39,087	44,029
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
	Lumens per Watt	156	169	171	170	172	172	173	172	172
T3	Lumens	4,751	9,497	14,249	19,033	23,989	28,798	33,773	38,401	43,256
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	154	166	168	167	169	169	170	169	169
T3R	Lumens	4,874	9,743	14,618	19,526	24,611	29,544	34,648	39,396	44,376
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
	Lumens per Watt	158	170	173	171	174	173	174	173	174
T4FT	Lumens	4,692	9,380	14,074	18,799	23,694	28,444	33,358	37,929	42,724
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	152	164	166	165	167	166	168	167	167
T4W	Lumens	4,738	9,472	14,211	18,983	23,926	28,723	33,685	38,300	43,142
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	153	165	168	167	169	168	169	169	169
SL2	Lumens	4,719	9,433	14,153	18,905	23,828	28,605	33,546	38,143	42,965
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	153	165	167	166	168	167	168	168	168
SL3	Lumens	4,640	9,276	13,916	18,589	23,430	28,127	32,986	37,506	42,247
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	150	162	164	163	165	165	166	165	165
SL4	Lumens	4,706	9,408	14,115	18,854	23,764	28,527	33,456	38,040	42,849
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	152	164	167	165	168	167	168	168	168
SNQ	Lumens	4,975	9,945	14,921	19,931	25,121	30,157	35,367	40,213	45,297
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	161	174	176	175	177	176	178	177	177
SMQ	Lumens	4,972	9,939	14,912	19,919	25,106	30,139	35,346	40,189	45,269
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	161	173	176	175	177	176	178	177	177
SWQ	Lumens	4,802	9,600	14,403	19,239	24,249	29,110	34,139	38,817	43,724
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	155	168	170	169	171	170	171	171	171
SLL/SLR	Lumens	4,730	9,457	14,188	18,952	23,887	28,676	33,630	38,238	43,072
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	153	165	168	166	169	168	169	168	169
RW	Lumens	4,889	9,773	14,663	19,586	24,686	29,635	34,755	39,517	44,513
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
	Lumens per Watt	158	171	173	172	174	173	175	174	174
AFL	Lumens	4,828	9,652	14,482	19,344	24,381	29,269	34,325	39,029	43,963
	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	156	168	171	170	172	171	172	172	172

COOPER Lighting Solutions

Lighting to be 3,000k or less

McGraw-Edison — GALN Galleon II

SB Light Squares, Output Level 2, 4000K, 70 CRI

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		40	74	109	147	183	220	257	293	330
Input Current @ 120V		0.330	0.627	0.919	1.255	1.547	1.838	2.174	2.466	2.758
Input Current @ 208V		0.192	0.370	0.533	0.739	0.902	1.066	1.272	1.435	1.598
Input Current @ 240V		0.169	0.327	0.467	0.655	0.794	0.933	1.121	1.260	1.400
Input Current @ 277V		0.150	0.294	0.412	0.588	0.706	0.823	1.000	1.118	1.235
Input Current @ 347V		0.112	0.215	0.316	0.431	0.531	0.632	0.746	0.847	0.947
Input Current @ 480V		0.086	0.160	0.230	0.320	0.390	0.460	0.550	0.620	0.690
Optics										
T1	Lumens	5,895	11,786	17,683	23,620	29,771	35,739	41,913	47,656	53,681
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	148	159	162	161	163	162	163	163	163
T2	Lumens	5,905	11,805	17,711	23,658	29,818	35,796	41,980	47,732	53,766
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	148	160	162	161	163	162	164	163	163
T2R	Lumens	6,070	12,135	18,206	24,319	30,652	36,797	43,154	49,067	55,270
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	153	164	167	165	168	167	168	168	168
T3	Lumens	5,963	11,922	17,887	23,892	30,114	36,151	42,396	48,206	54,300
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	150	161	164	163	165	164	165	165	165
T3R	Lumens	6,118	12,231	18,350	24,511	30,894	37,087	43,494	49,454	55,706
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	154	166	168	167	169	168	169	169	169
T4FT	Lumens	5,890	11,775	17,667	23,599	29,744	35,706	41,875	47,613	53,632
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	148	159	162	161	163	162	163	163	163
T4W	Lumens	5,948	11,891	17,840	23,830	30,035	36,056	42,285	48,079	54,157
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	149	161	163	162	164	164	165	164	164
SL2	Lumens	5,923	11,842	17,766	23,732	29,912	35,908	42,111	47,882	53,935
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	149	160	163	161	164	163	164	164	164
SL3	Lumens	5,824	11,644	17,469	23,335	29,412	35,308	41,407	47,081	53,033
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	146	158	160	159	161	160	161	161	161
SL4	Lumens	5,907	11,810	17,718	23,668	29,831	35,811	41,998	47,752	53,789
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	148	160	162	161	163	162	164	163	163
SNQ	Lumens	6,245	12,484	18,731	25,020	31,535	37,857	44,397	50,480	56,862
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	157	169	172	170	173	172	173	172	173
SMQ	Lumens	6,241	12,477	18,719	25,005	31,516	37,834	44,370	50,450	56,827
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	157	169	171	170	173	172	173	172	172
SWQ	Lumens	6,028	12,051	18,080	24,151	30,440	36,542	42,855	48,728	54,887
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	151	163	166	164	167	166	167	166	167
SLL/SLR	Lumens	5,938	11,871	17,811	23,791	29,986	35,997	42,216	48,001	54,069
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	149	161	163	162	164	163	164	164	164
RW	Lumens	6,137	12,268	18,406	24,587	30,989	37,201	43,628	49,606	55,877
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	154	166	169	167	170	169	170	169	170
AFL	Lumens	6,061	12,117	18,179	24,283	30,606	36,742	43,089	48,993	55,187
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4
	Lumens per Watt	152	164	166	165	168	167	168	167	167

COOPER Lighting Solutions

ROCHESTER HILLS
MICHIGAN

MATRIX CONSULTING ENGINEERS, INC.

SEAL

STATE OF MICHIGAN
JOSEPH F. SOVIS, JR.
ENGINEER
NO.
42247
LICENSED PROFESSIONAL ENGINEER

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
ELECTRICAL FIXTURE
CUT SHEETS

811
Know what's below. Call before you dig.

DATE	ISSUED / REVISED

DRAWN BY:
BAE

DESIGNED BY:
BAE

APPROVED BY:
JFS

DATE:
03/**/2019

SCALE:

NFE JOB NO.
0557

SHEET NO.
E-801

ROCHESTER HILLS

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025

Lighting to be 3,000k or less

McGraw-Edison — GALN Galleon II

SB Light Squares, Output Level 3, 4000K, 70 CRI

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		54	101	149	201	250	301	351	400	450
Input Current @ 120V		0.437	0.857	1.259	1.714	2.116	2.518	2.973	3.375	3.776
Input Current @ 208V		0.254	0.498	0.721	0.996	1.219	1.442	1.717	1.940	2.163
Input Current @ 240V		0.223	0.437	0.628	0.874	1.065	1.256	1.501	1.693	1.884
Input Current @ 277V		0.197	0.386	0.550	0.772	0.936	1.100	1.322	1.485	1.649
Input Current @ 347V		0.150	0.292	0.432	0.584	0.724	0.863	1.016	1.155	1.295
Input Current @ 480V		0.111	0.213	0.311	0.427	0.525	0.622	0.738	0.836	0.933
Optics										
T1	Lumens	7,841	15,675	23,517	31,414	39,594	47,531	55,743	63,381	71,393
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	144	155	158	157	159	158	159	159	159
T2	Lumens	7,853	15,700	23,555	31,464	39,657	47,607	55,832	63,482	71,507
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	144	156	158	157	159	158	159	159	159
T2R	Lumens	8,073	16,139	24,214	32,344	40,766	48,938	57,393	65,257	73,507
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	148	160	162	161	163	163	164	163	163
T3	Lumens	7,931	15,856	23,789	31,776	40,051	48,080	56,386	64,112	72,217
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	146	157	160	158	161	160	161	160	161
T3R	Lumens	8,137	16,267	24,405	32,599	41,088	49,325	57,846	65,773	74,087
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	150	161	164	162	165	164	165	165	165
T4FT	Lumens	7,834	15,661	23,496	31,385	39,558	47,488	55,692	63,324	71,329
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	144	155	158	156	159	158	159	158	159
T4W	Lumens	7,910	15,814	23,726	31,693	39,946	47,953	56,238	63,944	72,027
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	145	157	159	158	160	159	160	160	160
SL2	Lumens	7,878	15,749	23,629	31,562	39,781	47,756	56,006	63,681	71,731
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	145	156	158	157	159	159	160	159	159
SL3	Lumens	7,746	15,486	23,234	31,035	39,117	46,958	55,070	62,616	70,532
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	142	153	156	155	157	156	157	157	157
SL4	Lumens	7,857	15,707	23,565	31,477	39,674	47,627	55,855	63,509	71,538
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	144	156	158	157	159	158	159	159	159
5NQ	Lumens	8,305	16,604	24,911	33,275	41,940	50,348	59,046	67,137	75,624
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	153	165	167	166	168	167	168	168	168
5MQ	Lumens	8,300	16,594	24,896	33,255	41,915	50,318	59,010	67,097	75,578
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	153	164	167	166	168	167	168	168	168
5WQ	Lumens	8,017	16,027	24,046	32,120	40,484	48,600	56,996	64,806	72,998
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	147	159	161	160	162	162	163	162	162
SLL/SLR	Lumens	7,897	15,788	23,687	31,641	39,880	47,875	56,146	63,839	71,909
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	145	156	159	158	160	159	160	160	160
RW	Lumens	8,162	16,317	24,480	32,699	41,215	49,476	58,024	65,975	74,315
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	150	162	164	163	165	164	166	165	165
AFL	Lumens	8,061	16,115	24,177	32,295	40,705	48,865	57,307	65,160	73,397
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	148	160	162	161	163	162	164	163	163

Lighting to be 3,000k or less

McGraw-Edison — GALN Galleon II

SB Light Squares, Output Level 4, 4000K, 70 CRI

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		80	148	218	294	365	440	513	585	658
Input Current @ 120V		0.638	1.234	1.840	2.469	3.094	3.680	4.349	4.934	5.519
Input Current @ 208V		0.367	0.705	1.045	1.410	1.779	2.090	2.513	2.824	3.135
Input Current @ 240V		0.320	0.614	0.913	1.227	1.567	1.827	2.220	2.480	2.740
Input Current @ 277V		0.280	0.537	0.813	1.075	1.402	1.626	1.992	2.215	2.439
Input Current @ 347V		0.219	0.430	0.640	0.897	1.089	1.280	1.537	1.729	1.920
Input Current @ 480V		0.160	0.313	0.479	0.700	0.829	0.958	1.179	1.308	1.437
Optics										
T1	Lumens	10,654	21,299	31,955	42,684	53,800	64,585	75,742	86,121	97,008
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	144	147	145	147	147	148	147	147
T2	Lumens	10,671	21,333	32,006	42,752	53,886	64,688	75,863	86,258	97,162
	BUG Rating	B2-U0-G2	B3-U0-G3	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	145	147	146	148	147	148	147	148
T2R	Lumens	10,969	21,929	32,901	43,948	55,392	66,496	77,984	88,670	99,879
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	149	151	150	152	151	152	152	152
T3	Lumens	10,777	21,545	32,324	43,177	54,420	65,329	76,616	87,114	98,127
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	135	146	148	147	149	148	149	149	149
T3R	Lumens	11,056	22,103	33,161	44,295	55,830	67,022	78,600	89,371	100,668
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	139	150	152	151	153	152	153	153	153
T4FT	Lumens	10,644	21,280	31,926	42,646	53,751	64,526	75,674	86,043	96,920
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	144	146	145	147	147	148	147	147
T4W	Lumens	10,748	21,488	32,239	43,063	54,277	65,158	76,414	86,885	97,869
	BUG Rating	B2-U0-G2	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	135	146	148	147	149	148	149	149	149
SL2	Lumens	10,704	21,400	32,106	42,886	54,054	64,890	76,100	86,528	97,467
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	145	147	146	148	147	148	148	148
SL3	Lumens	10,525	21,042	31,570	42,169	53,151	63,805	74,828	85,082	95,837
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	132	143	145	144	146	145	146	145	146
SL4	Lumens	10,675	21,342	32,020	42,771	53,908	64,715	75,895	86,295	97,204
	BUG Rating	B2-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	145	147	146	148	147	148	148	148
5NQ	Lumens	11,285	22,561	33,849	45,214	56,988	68,412	80,230	91,224	102,756
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	142	153	155	154	156	155	156	156	156
5MQ	Lumens	11,278	22,547	33,828	45,187	56,954	68,371	80,182	91,169	102,694
	BUG Rating	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	142	153	155	154	156	155	156	156	156
5WQ	Lumens	10,893	21,778	32,673	43,644	55,009	66,037	77,445	88,057	99,189
	BUG Rating	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	137	148	150	149	151	150	151	151	151
SLL/SLR	Lumens	10,731	21,453	32,186	42,993	54,189	65,051	76,290	86,743	97,709
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	135	145	148	146	149	148	149	148	148
RW	Lumens	11,090	22,171	33,263	44,431	56,001	67,228	78,842	89,645	100,978
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	139	150	153	151	153	153	154	153	153
AFL	Lumens	10,953	21,897	32,852	43,882	55,309	66,397	77,868	88,538	99,730
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	148	151	149	152	151	152	151	152

McGraw-Edison — GALN Galleon II

Control Options

0-10V (DIM)
This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (BPC, PR and PR7)
Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

After Hours Dim (AHD)
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (SPB and MS/DIM-LXX)
These passive infrared (PIR) sensors are factory installed in the luminaire housing. When the SPB (FSP-321 or FSP-311) or MS/DIM (FSP-211) sensor options are selected, the occupancy sensor is connected to a dimming driver and the luminaire dims when no motion is detected. After a set period of time, the luminaire turns off, and when motion is detected, the luminaire returns to full light output. Both sensors are factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM sensor requires the FSIR-100 programming tool to adjust factory defaults. The SPB sensor default parameters are listed in the table below and can be configured utilizing the Sensor Configuration mobile application for iOS and Android devices. The SPB/X is configured to control only the specified number of light squares (See SPB/X Availability Table below.) An integral photocontrol can be activated with the app for "dusk-to-dawn" control or daylight harvesting - the factory default is off. Four sensor colors are available; Bronze, Black, Gray and White, and are automatically selected based on the luminaire finish as indicated by the table below.

SPB sensor finish matched to luminaire finish		
Luminaire Finish		SPB Sensor Finish*
WH	White	White
BK	Black	Black
GM	Graphite Metallic	Black
BZ	Bronze	Bronze
AP	Gray	Gray
DP	Dark Platinum	Gray

*SPB bezel color automatically selected based on luminaire finish

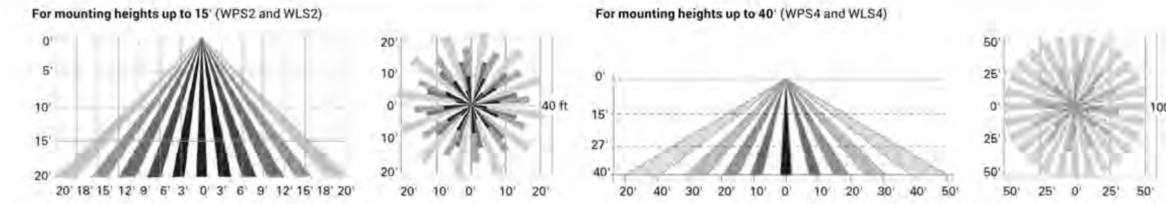
SPB/X Availability Table	
Fixture Square Count	Available SPB/X Square Count
1	Not Available
2	Not Available
3	Not Available
4	2
5	2 or 3
6	3
7	2, 3, 4 or 5
8	2, 3, 5 or 6
9	3 or 6

Default Program Settings (Out of the Box Functionality)

Occupancy Sensor				
Setting	MS/DIM	SPB	WaveLinx Lite (WLS4 / WLS2)	WaveLinx (WPS)
High Mode %	100%	100%	100%	100%
Low Mode %	10%	10%	50%	50%
Time Delay	5 min	5 min	15 min	15 min
Cut Off Delay	1 hr	1 hr	Disabled	Disabled
Photocell Enabled	No	No	Yes	Yes

WaveLinx Wireless Control and Monitoring System
Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinx (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinx Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx Lite mobile application for set-up and configuration. WAC not required. WaveLinx Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

For mounting heights up to 15' (WPS2 and WLS2) — **For mounting heights up to 40'** (WPS4 and WLS4)



AirMesh (DIM10)
AirMesh integrated wireless controls system includes factory installed DIM10 Synapse control module and FSP-201 motion sensor; requires additional AirMesh components for operation. Contact Synapse at www.synapsewireless.com for product support, warranty and terms and conditions.

This is 3000k based on abutting table.

LB

Project		Catalog #	GALN-SA2C-830-U-T4FT-QU	Type	
Prepared by		Notes		Date	

McGraw-Edison
GALN Galleon II

Area / Site Luminaire

Product Features

BABA · BAA · TAA · FADC · Light ARchitect™

Product Certifications

ISO CERTIFIED · DLC LISTED · DLC LISTED PREMIUM · 3G VIB · IP66 · UL CERTIFIED · 5 YEAR · RoHS

Interactive Menu

Quick Facts

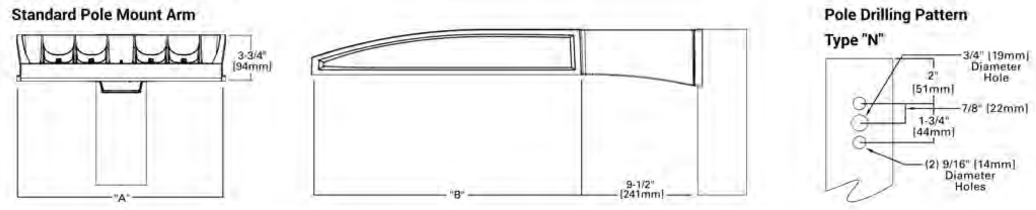
- Lumen packages range from 3,300 - 102,700 (33W - 658W)
- 17 optical distributions
- Efficacy up to 178 LPW

Connected Systems

- Wavelinx LITE Wireless
- Wavelinx PRO Wireless
- AirMesh Wireless

Dimensional Details

Standard Pole Mount Arm — **Pole Drilling Pattern** Type "N"



Number of Light Squares	Width "A"	Housing Length "B"	Weight with Standard or QM Arm	EPA with Standard or QM Arm
1-4	16"	22"	29 lb	0.95
5-6	22"	22"	39 lb	0.95
7-9	22"	28-1/8"	48 lb	1.1

NOTES: For arm selection requirements and additional line art, see Mounting Details section.

NOTES:
1. IDA Certified (3000K CCT and warmer only, fixed mounting options)

McGraw-Edison — GALN Galleon II

Ordering Information

Lighting to be 3,000k or less

SAMPLE NUMBER: GALN-SA4C-740-U-T4FT-GM

Light Engine Configuration: Product Family · Light Squares · Square Count · Lumen Output · Color Temperature · Voltage · Distribution · Mounting · Finish

Options (Add as Suffix) · Controls and Systems Options (Add as Suffix) · Accessories (Order Separately)

McGraw-Edison — GALN Galleon II

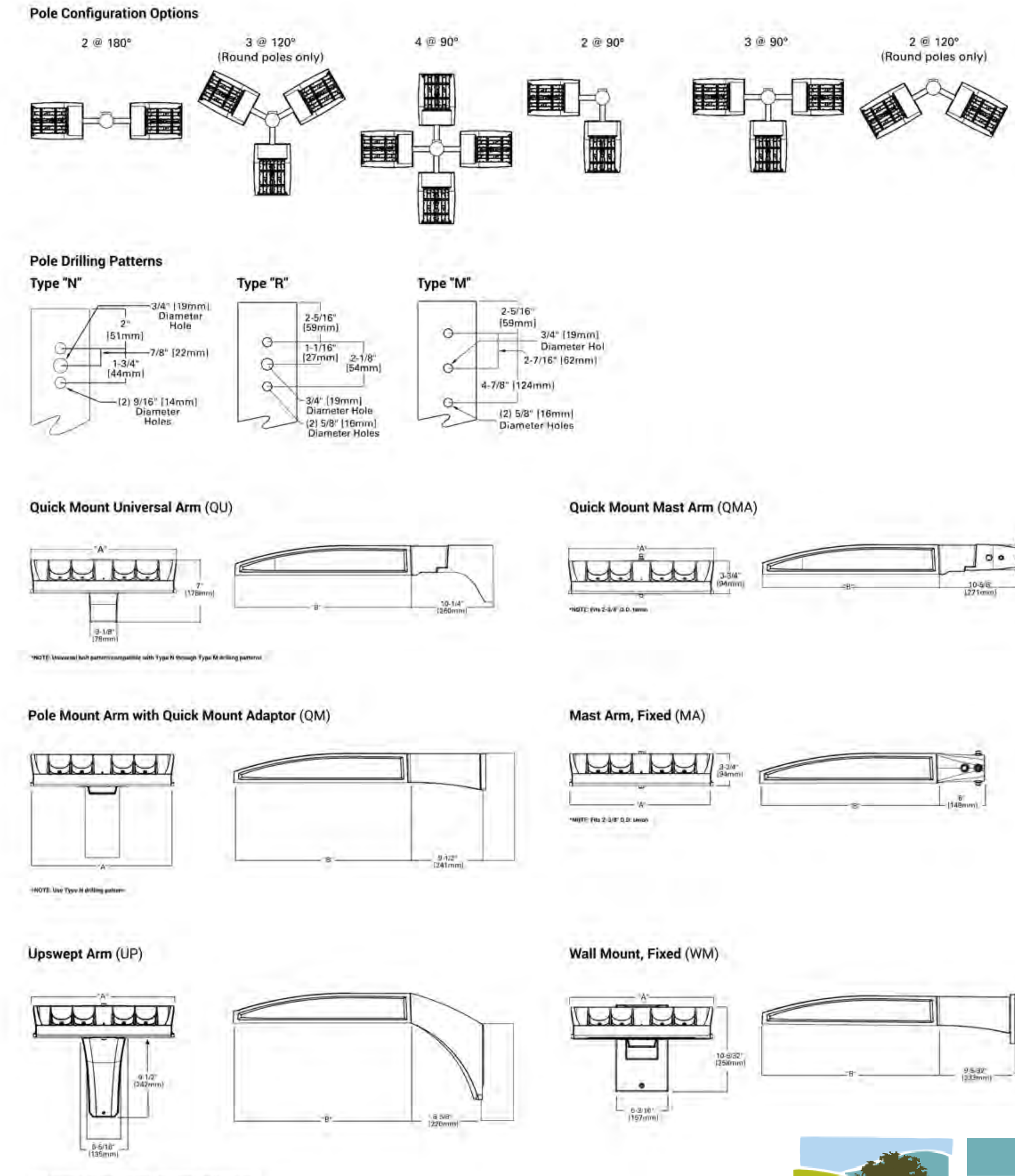
Mounting Details

Pole Configuration Options

2 @ 180° · 3 @ 120° (Round poles only) · 4 @ 90° · 2 @ 90° · 3 @ 90° · 2 @ 120° (Round poles only)

Pole Drilling Patterns Type "N" · Type "R" · Type "M"

Quick Mount Universal Arm (QU) · Quick Mount Mast Arm (QMA) · Pole Mount Arm with Quick Mount Adaptor (QM) · Mast Arm, Fixed (MA) · Upswept Arm (UP) · Wall Mount, Fixed (WM)



ROCHESTER HILLS MICHIGAN

MATRIX CONSULTING ENGINEERS, INC.

SEAL

STATE OF MICHIGAN — JOSEPH F. SOVIS, JR. — ENGINEER NO. 42247 — LICENSED PROFESSIONAL ENGINEER

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
ELECTRICAL FIXTURE
CUT SHEETS

811 Know what's below Call before you dig.

DATE — ISSUED / REVISED

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
ROCHESTER HILLS MICHIGAN — PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

DRAWN BY:
BAE

DESIGNED BY:
BAE

APPROVED BY:
JFS

DATE:
03/**/2019

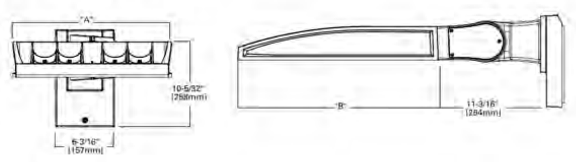
SCALE:

NFE JOB NO.
0557

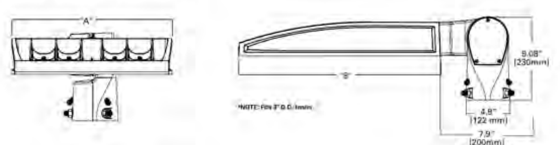
SHEET NO.
E-802

Mounting Details

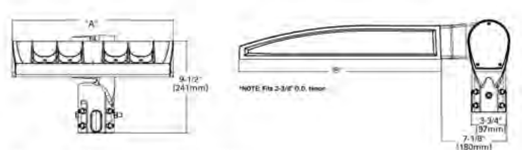
Wall Mount, Adjustable (WA)



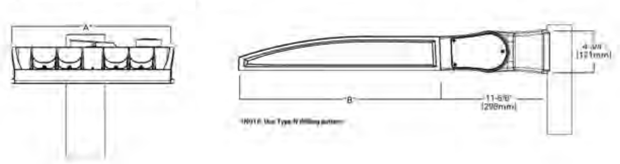
3" Slipfitter, Adjustable (SP)



2-3/8" Slipfitter, Adjustable (SP2)

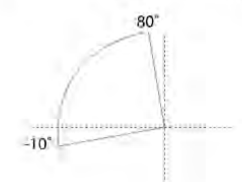


Pole Mount, Adjustable Arm (PA)



Adjustable Arm Range of Motion

- Includes WA, SP, SP2 and PA mounting options
- Adjustable in increments of 5°
- Must maintain downward facing orientation

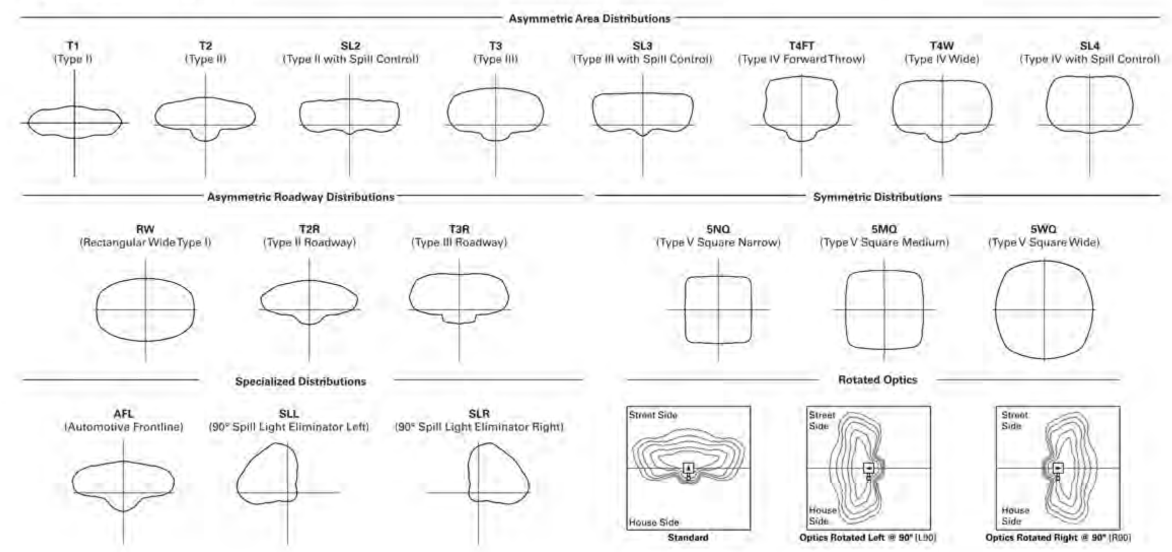


Fixture Weights and EPAs

Tilt Angle (Degrees)	Number of Light Squares	Weight	1 @ 90°	2 @ 180°	2 @ 90°	2 @ 120°	3 @ 90°	3 @ 120°	4 @ 90°
0°	1-4	33.5 lb (15.2 kg)	0.85	1.70	1.46	1.66	2.31	2.25	2.35
	5-6	43.5 lb (19.7 kg)	0.86	1.71	1.62	1.80	2.49	2.35	2.50
	7-9	52.5 lb (23.8 kg)	0.98	1.95	1.75	1.98	2.73	2.55	2.76
15°	1-4	33.5 lb (15.2 kg)	1.10	1.71	1.95	2.26	2.81	3.30	2.87
	5-6	43.5 lb (19.7 kg)	1.42	1.71	2.27	2.72	3.13	3.63	3.15
	7-9	52.5 lb (23.8 kg)	1.69	1.96	2.67	3.22	3.65	4.38	3.72
30°	1-4	33.5 lb (15.2 kg)	1.72	1.81	2.58	3.21	3.44	4.59	3.53
	5-6	43.5 lb (19.7 kg)	2.26	2.29	3.11	4.00	3.97	5.27	4.00
	7-9	52.5 lb (23.8 kg)	2.75	2.85	3.73	4.83	4.71	6.45	4.81
45°	1-4	33.5 lb (15.2 kg)	2.25	2.36	3.10	4.00	3.96	5.63	4.08
	5-6	43.5 lb (19.7 kg)	2.96	2.99	3.81	5.06	4.67	6.49	4.71
	7-9	52.5 lb (23.8 kg)	3.63	3.76	3.73	6.17	5.59	8.03	5.73
60°	1-4	33.5 lb (15.2 kg)	2.63	2.77	3.49	4.58	4.34	6.21	4.48
	5-6	43.5 lb (19.7 kg)	3.46	3.51	4.32	5.84	5.19	7.01	5.22
	7-9	52.5 lb (23.8 kg)	4.27	4.44	5.25	7.15	6.23	8.80	6.40

Lighting to be 3,000k or less

Optical Distributions



Product Specifications

Construction

- Die-cast aluminum housing and heat sink
- Three housing sizes, using 1 to 9 light squares

Optics

- High-efficiency injection-molded AccuLED Optics technology
- 17 optical distributions for area site and roadway applications
- 4 shielding options include HSS, BCS, GRS and PFS
- IDA Certified (3000K CCT and warmer only, fixed mounting options)
- 5 step MacAdam ellipse binning (5 SDCM) standard with 70CRI and 80CRI. 3SDCM option available with 740 CRI/CCT. 3 step MacAdam ellipse binning standard with 90CRI

Electrical

- Removable power tray assembly includes drivers, surge modules and control modules for ease of maintenance and serviceability
- Standard with 0-10V dimming
- Standard with 10kV surge module, optional 20kV surge module
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Comes pre-set to the highest position at the lumen output selected

Mounting

- Arms are factory installed, enabling closed-housing installation
- All arms suitable for round or square pole installation
- All arms provide clearance for multiple fixture installations at 90°

Finish

- 6 standard finishes use super durable TGIC polyester powder coat paint, providing 2.5 mil nominal thickness and salt-spray tested to 3,000 hours per ASTM B117
- RAL and custom color matches available
- Coastal Construction (CC) option salt-spray tested to 5,000 hours per ASTM B117, achieving a scribe rating of 9 per ASTM D1654

Compliance

- Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified
- IDA Certified (3000K CCT and warmer only, fixed mounting options)
- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Buy America Build America Act (BABA).BABA is the minimum Government compliance requirement for the Buy America Build America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards.
- Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements

Typical Applications

- Outdoor, Parking Lots, Walkways, Roadways, Building Areas
- Sports lighting, including tennis, pickleball, basketball courts

Warranty

- Five-year limited warranty. Consult website for details. www.cooperlighting.com/legal

Lighting to be 3,000k or less

Energy and Performance Data

Lumen Maintenance (TM-21)

Output Level	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Output Levels 1-3	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
Output Level 4	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

* Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

FADC Settings
SA1-SA3 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	25%
2	48%
3	56%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: +/-5% typical value

FADC Settings
SA4-SA6 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	14%
2	25%
3	32%
4	43%
5	49%
6	57%
7	65%
8	72%
9	80%
10	100%

Note: +/-5% typical value

FADC Settings
SA7-SA9 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	19%
2	38%
3	47%
4	63%
5	74%
6	85%
7	95%
8	97%
9	100%
10	100%

Note: +/-5% typical value

Drive Currents

Lumen Output	SA Light Squares	SB Light Squares
Output Level 1	615mA	350mA
Output Level 2	800mA	450mA
Output Level 3	1050mA	615mA
Output Level 4	1200mA	900mA

Lighting to be 3,000k or less

SA Light Squares, Output Level 1, 4000K CCT, 70 CRI

Galleon II IES Files | Supplemental Lumen Tables

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		33	63	93	121	154	182	215	244	274
Input Current @ 120V		0.283	0.529	0.778	1.058	1.310	1.556	1.839	2.089	2.335
Input Current @ 208V		0.165	0.309	0.460	0.618	0.771	0.919	1.082	1.240	1.379
Input Current @ 240V		0.143	0.270	0.398	0.540	0.671	0.796	0.944	1.078	1.194
Input Current @ 277V		0.125	0.237	0.352	0.473	0.581	0.705	0.818	0.962	1.057
Input Current @ 347V		0.098	0.181	0.272	0.362	0.454	0.544	0.636	0.738	0.816
Input Current @ 480V		0.073	0.133	0.200	0.267	0.335	0.400	0.470	0.554	0.600
Optics										
T1	Lumens	4,619	9,180	13,628	18,059	22,861	27,070	31,796	36,863	41,385
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	140	146	147	149	148	149	148	151	151
T2	Lumens	4,654	9,249	13,730	18,194	23,032	27,273	32,034	37,138	41,694
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	141	147	148	150	150	150	149	152	152
T2R	Lumens	4,716	9,372	13,913	18,437	23,340	27,637	32,462	37,634	42,251
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
	Lumens per Watt	143	149	150	152	152	152	151	154	154
T3	Lumens	4,589	9,120	13,538	17,940	22,711	26,892	31,587	36,620	41,112
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	139	145	146	148	147	148	147	150	150
T3R	Lumens	4,735	9,411	13,970	18,513	23,436	27,751	32,596	37,790	42,425
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	143	149	150	153	152	152	152	155	155
T4FT	Lumens	4,617	9,176	13,622	18,051	22,851	27,058	31,782	36,847	41,366
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	140	146	146	149	148	149	148	151	151
T4W	Lumens	4,631	9,203	13,662	18,104	22,918	27,138	31,876	36,955	41,488
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	140	146	147	150	149	149	148	151	151
SL2	Lumens	4,619	9,180	13,627	18,058	22,860	27,069	31,795	36,861	41,383
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
	Lumens per Watt	140	146	147	149	148	149	148	151	151
SL3	Lumens	4,586	9,115	13,531	17,931	22,699	26,879	31,571	36,602	41,091
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	139	145	145	148	147	148	147	150	150
SL4	Lumens	4,529	9,002	13,363	17,708	22,417	26,544	31,178	36,146	40,580
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	137	143	144	146	146	146	145	148	148
5NQ	Lumens	4,829	9,598	14,247	18,880	23,901	28,301	33,242	38,539	43,266
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
	Lumens per Watt	146	152	153	156	155	155	155	158	158
5MQ	Lumens	4,853	9,645	14,318	18,974	24,020	28,442	33,407	38,731	43,482
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	147	153	154	157	156	156	155	159	159
5WQ	Lumens	4,843	9,625	14,288	18,934	23,969	28,382	33,337	38,649	43,390
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	147	153	154	156	156	156	155	158	158
SLL/SLR	Lumens	3,989	7,927	11,768	15,594	19,741	23,375	27,456	31,831	35,736
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	121	126	127	129	128	128	128	130	130
RW	Lumens	4,774	9,488	14,085	18,665	23,628	27,979	32,863	38,100	42,774
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	145	151	151	154	153	154	153	156	156
AFL	Lumens	4,673	9,286	13,785	18,268	23,126	27,384	32,164	37,290	41,864
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	142	147	148	151	150	150	150	153	153

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

SA Light Squares, Output Level 2, 4000K CCT, 70 CRI

Galleon II IES Files | Supplemental Lumen Tables

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		44	82	121	164	204	243	286	325	364
Input Current @ 120V		0.367	0.689	1.014	1.378	1.704	2.027	2.393	2.716	3.041
Input Current @ 208V		0.213	0.401	0.594	0.802	0.997	1.188	1.400	1.605	1.782
Input Current @ 240V		0.184	0.347	0.510	0.694	0.860	1.021	1.210	1.386	1.531
Input Current @ 277V		0.160	0.303	0.449	0.605	0.757	0.898	1.065	1.242	1.347
Input Current @ 347V		0.125	0.235	0.355	0.471	0.592	0.710	0.828	0.958	1.065
Input Current @ 480V		0.092	0.172	0.258	0.344	0.432	0.517	0.605	0.706	0.775
Optics										
T1	Lumens	5,748	11,423	16,957	22,470	28,446	33,683	39,563	45,867	51,494
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	131	139	140	137	139	139	138	141	141
T2	Lumens	5,790	11,508	17,083	22,638	28,658	33,935	39,859	46,210	51,879
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	132	140	141	138	140	140	139	142	143
T2R	Lumens	5,868	11,662	17,311	22,941	29,041	34,388	40,391	46,827	52,572
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
	Lumens per Watt	133	142	143	140	142	142	141	144	144
T3	Lumens	5,710	11,347	16,845	22,322	28,258	33,461	39,303	45,565	51,155
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	130	138	139	136	139	138	137	140	141
T3R	Lumens	5,892	11,710	17,383	23,035	29,161	34,530	40,558	47,020	52,788
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	134	143	144	140	143	142	142	145	145
T4FT	Lumens	5,745	11,418	16,949	22,460	28,433	33,668	39,546	45,847	51,471
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
T4W	Lumens	5,762	11,451	16,999	22,526	28,517	33,767	39,662	45,982	51,622
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	140	140	137	140	139	139	141	142
SL2	Lumens	5,747	11,422	16,956	22,469	28,444	33,681	39,561	45,865	51,491
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
SL3	Lumens	5,707	11,342	16,836	22,311	28,244	33,444	39,283	45,542	51,129
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	130	138	139	136	138	138	137	140	140
SL4	Lumens	5,636	11,201	16,627	22,034	27,893	33,028	38,794	44,976	50,493
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	128	137	137	134	137	136	136	138	139
5NQ	Lumens	6,009	11,942	17,727	23,492	29,739	35,214	41,362	47,953	53,835
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	137	146	147	143	146	145	145	148	148
5MQ	Lumens	6,039	12,001	17,816	23,609	29,887	35,389	41,568	48,191	54,103
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	137	146	147	144	147	146	145	148	149
5WQ	Lumens	6,026	11,976	17,778	23,559	29,824	35,315	41,480	48,090	53,989
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	137	146	147	144	146	145	145	148	148
SLL/SLR	Lumens	4,963	9,863	14,642	19,403	24,563	29,085	34,163	39,607	44,465
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	113	120	121	118	120	120	119	122	122
RW	Lumens	5,940	11,806	17,526	23,224	29,400	34,813	40,891	47,407	53,222
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	135	144	145	142	144	143	143	146	146
AFL	Lumens	5,814	11,555	17,153	22,730	28,775	34,073	40,021	46,398	52,090
	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
	Lumens per Watt	132	141	142	139	141	140	140	143	143

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

SA Light Squares, Output Level 3, 4000K CCT, 70 CRI

Galleon II IES Files | Supplemental Lumen Tables

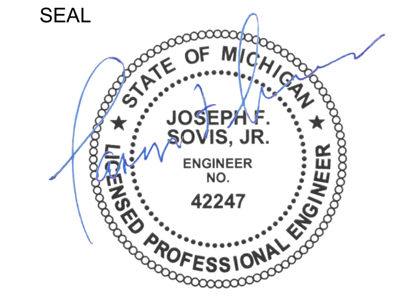
Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		57	108	160	213	269	321	377	429	481
Input Current @ 120V		0.478	0.905	1.338	1.810	2.244	2.675	3.150	3.584	4.013
Input Current @ 208V		0.279	0.532	0.780	1.064	1.313	1.559	1.845	2.093	2.339
Input Current @ 240V		0.243	0.458	0.664	0.916	1.123	1.328	1.582	1.788	1.991
Input Current @ 277V		0.213	0.404	0.582	0.808	0.997	1.164	1.401	1.589	1.745
Input Current @ 347V		0.164	0.322	0.471	0.644	0.795	0.943	1.117	1.269	1.414
Input Current @ 480V		0.121	0.235	0.341	0.469	0.579	0.681	0.814	0.923	1.022
Optics										
T1	Lumens	7,101	14,113	20,950	27,763	35,146	41,616	48,882	56,671	63,623
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	125	131	131	130	131	130	130	132	132
T2	Lumens	7,154	14,219	21,107	27,970	35,408	41,927	49,247	57,094	64,098
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	132	132	131	132	131	131	133	133
T2R	Lumens	7,250	14,408	21,389	28,344	35,881	42,487	49,905	57,857	64,954
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	127	133	134	133	133	132	132	135	135
T3	Lumens	7,054	14,020	20,812	27,580	34,914	41,342	48,560	56,297	63,203
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
T3R	Lumens	7,280	14,468	21,477	28,461	36,029	42,663	50,111	58,096	65,222
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	128	134	134	134	134	133	133	135	136
T4FT	Lumens	7,098	14,107	20,941	27,751	35,130	41,598	48,860	56,646	63,594
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	130	131	130	130	132	132
T4W	Lumens	7,119	14,148	21,003	27,832	35,233	41,720	49,004	56,812	63,781
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	131	131	130	130	132	133
SL2	Lumens	7,101	14,112	20,949	27,761	35,144	41,614	48,879	56,668	63,619
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	130	131	130	130	132	132
SL3	Lumens	7,051	14,013	20,802	27,566	34,897	41,321	48,535	56,269	63,172
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
SL4	Lumens	6,963	13,839	20,543	27,223	34,463	40,808	47,932	55,569	62,386
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	122	128	128	128	128	127	127	130	130
5NQ	Lumens	7,424	14,755	21,903	29,025	36,743	43,508	51,104	59,247	66,515
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	130	137	137	136	137	136	136	138	138
5MQ	Lumens	7,461	14,828	22,012	29,169	36,926	43,725	51,359	59,542	66,846
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	131	137	138	137	137	136	136	139	139
5WQ	Lumens	7,445	14,797	21,966	29,108	36,849	43,633	51,250	59,417	66,705
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	131	137	137	137	137	136	136	139	139
SLL/SLR	Lumens	6,132	12,187	18,091	23,973	30,348	35,936	42,210	48,935	54,938
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	108	113	113	113	113	112	112	114	114
RW	Lumens	7,340	14,587	21,653	28,694	36,325	43,013	50,522	58,573	65,757
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	129	135	135	135	135	134	134	137	137
AFL	Lumens	7,183	14,276	21,193	28,084	35,552	42,098	49,448	57,327	64,359
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	126	132	132	132	132	131	131	134	134

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

ROCHESTER HILLS MICHIGAN

MATRIX CONSULTING ENGINEERS, INC.

SEAL



PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
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PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
ELECTRICAL FIXTURE
CUT SHEETS

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DRAWN BY: BAE
DESIGNED BY: BAE
APPROVED BY: JFS
DATE: 03/**/2019
SCALE:

NFE JOB NO. 0557
SHEET NO. E-803

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
ROCHESTER HILLS MICHIGAN
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

McGraw-Edison — GALN Galleon II

SA Light Squares, Output Level 4, 4000K CCT, 70 CRI

Galleon II IES Files | Supplemental Lumen Tables

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		65	125	184	245	309	368	433	493	552
Input Current @ 120V		0.546	1.041	1.535	2.082	2.578	3.070	3.619	4.114	4.605
Input Current @ 208V		0.318	0.610	0.893	1.219	1.504	1.786	2.113	2.397	2.679
Input Current @ 240V		0.276	0.523	0.758	1.046	1.282	1.516	1.806	2.041	2.274
Input Current @ 277V		0.241	0.460	0.662	0.920	1.133	1.325	1.593	1.807	1.987
Input Current @ 347V		0.187	0.370	0.543	0.740	0.915	1.085	1.285	1.459	1.628
Input Current @ 480V		0.138	0.269	0.391	0.537	0.663	0.782	0.932	1.057	1.173
Optics										
T1	Lumens	7,814	15,529	23,053	30,549	38,672	45,793	53,787	62,358	70,007
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	120	124	125	125	125	124	124	126	127
T2	Lumens	7,872	15,645	23,225	30,777	38,962	46,135	54,189	62,824	70,530
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	125	126	126	126	125	125	127	128
T2R	Lumens	7,977	15,854	23,535	31,188	39,482	46,751	54,913	63,663	71,472
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	127	128	127	128	127	127	129	129
T3	Lumens	7,762	15,427	22,901	30,348	38,418	45,491	53,433	61,947	69,546
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	123	124	124	124	124	123	126	126
T3R	Lumens	8,010	15,920	23,632	31,317	39,645	46,944	55,139	63,925	71,767
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	127	128	128	128	128	127	130	130
T4FT	Lumens	7,810	15,522	23,043	30,535	38,655	45,772	53,763	62,330	69,976
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	120	124	125	125	125	124	124	126	127
T4W	Lumens	7,833	15,568	23,110	30,625	38,769	45,907	53,921	62,513	70,182
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	125	126	125	125	125	125	127	127
SL2	Lumens	7,813	15,528	23,052	30,547	38,670	45,790	53,784	62,354	70,003
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	120	124	125	125	125	124	124	126	127
SL3	Lumens	7,758	15,419	22,889	30,332	38,398	45,468	53,406	61,916	69,511
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	123	124	124	124	124	123	126	126
SL4	Lumens	7,662	15,228	22,605	29,955	37,921	44,903	52,742	61,146	68,646
	BUG Rating	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	118	122	123	122	123	122	122	124	124
5NQ	Lumens	8,169	16,235	24,101	31,938	40,431	47,874	56,232	65,193	73,190
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	126	130	131	130	131	130	130	132	133
5MQ	Lumens	8,210	16,316	24,221	32,097	40,632	48,113	56,512	65,517	73,554
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	126	131	132	131	131	131	131	133	133
5WQ	Lumens	8,192	16,282	24,170	32,029	40,546	48,011	56,393	65,379	73,399
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	126	130	131	131	131	130	130	133	133
SLL/ SLR	Lumens	6,747	13,410	19,906	26,379	33,394	39,542	46,445	53,846	60,451
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	104	107	108	108	108	107	107	109	110
RW	Lumens	8,076	16,050	23,826	31,574	39,970	47,329	55,592	64,450	72,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	124	128	129	129	129	129	128	131	131
AFL	Lumens	7,904	15,709	23,320	30,902	39,120	46,323	54,410	63,079	70,817
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	122	126	127	126	127	126	126	128	128

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

McGraw-Edison — GALN Galleon II

SB Light Squares, Output Level 1, 4000K, 70 CRI

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		31	57	85	114	142	171	199	227	256
Input Current @ 120V		0.263	0.484	0.717	0.952	1.201	1.434	1.685	1.918	2.151
Input Current @ 208V		0.154	0.280	0.420	0.552	0.700	0.839	0.979	1.119	1.259
Input Current @ 240V		0.136	0.245	0.370	0.483	0.615	0.740	0.860	0.985	1.110
Input Current @ 277V		0.122	0.216	0.330	0.425	0.546	0.660	0.762	0.876	0.989
Input Current @ 347V		-	-	0.248	0.328	0.413	0.495	0.577	0.665	0.743
Input Current @ 480V		-	-	0.182	0.238	0.304	0.364	0.426	0.493	0.547
Optics										
T1	Lumens	4,696	9,389	14,086	18,816	23,716	28,470	33,388	37,964	42,763
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
	Lumens per Watt	152	164	166	165	167	167	168	167	167
T2	Lumens	4,704	9,404	14,109	18,846	23,754	28,515	33,442	38,024	42,831
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	152	164	167	165	168	167	168	167	168
T2R	Lumens	4,835	9,667	14,503	19,373	24,418	29,313	34,377	39,087	44,029
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
	Lumens per Watt	156	169	171	170	172	172	173	172	172
T3	Lumens	4,751	9,497	14,249	19,033	23,989	28,798	33,773	38,401	43,256
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	154	166	168	167	169	169	170	169	169
T3R	Lumens	4,874	9,743	14,618	19,526	24,611	29,544	34,648	39,396	44,376
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
	Lumens per Watt	158	170	173	171	174	173	174	173	174
T4FT	Lumens	4,692	9,380	14,074	18,799	23,694	28,444	33,358	37,929	42,724
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	152	164	166	165	167	166	168	167	167
T4W	Lumens	4,738	9,472	14,211	18,983	23,926	28,723	33,685	38,300	43,142
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	153	165	168	167	169	168	169	169	169
SL2	Lumens	4,719	9,433	14,153	18,905	23,828	28,605	33,546	38,143	42,965
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	153	165	167	166	168	167	168	168	168
SL3	Lumens	4,640	9,276	13,916	18,589	23,430	28,127	32,986	37,506	42,247
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	150	162	164	163	165	165	166	165	165
SL4	Lumens	4,706	9,408	14,115	18,854	23,764	28,527	33,456	38,040	42,849
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	152	164	167	165	168	167	168	168	168
5NQ	Lumens	4,975	9,945	14,921	19,931	25,121	30,157	35,367	40,213	45,297
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	161	174	176	175	177	176	178	177	177
5MQ	Lumens	4,972	9,939	14,912	19,919	25,106	30,139	35,346	40,189	45,269
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	161	173	176	175	177	176	178	177	177
5WQ	Lumens	4,802	9,600	14,403	19,239	24,249	29,110	34,139	38,817	43,724
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	155	168	170	169	171	170	171	171	171
SLL/SLR	Lumens	4,730	9,457	14,188	18,952	23,887	28,676	33,630	38,238	43,072
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	153	165	168	166	169	168	169	168	169
RW	Lumens	4,889	9,773	14,663	19,586	24,686	29,635	34,755	39,517	44,513
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
	Lumens per Watt	158	171	173	172	174	173	175	174	174
AFL	Lumens	4,828	9,652	14,482	19,344	24,381	29,269	34,325	39,029	43,963
	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	156	168	171	170	172	171	172	172	172

McGraw-Edison — GALN Galleon II

SB Light Squares, Output Level 2, 4000K, 70 CRI

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		40	74	109	147	183	220	257	293	330
Input Current @ 120V		0.330	0.627	0.919	1.255	1.547	1.838	2.174	2.466	2.758
Input Current @ 208V		0.192	0.370	0.533	0.739	0.902	1.066	1.272	1.435	1.598
Input Current @ 240V		0.169	0.327	0.467	0.655	0.794	0.933	1.121	1.260	1.400
Input Current @ 277V		0.150	0.294	0.412	0.588	0.706	0.823	1.000	1.118	1.235
Input Current @ 347V		0.112	0.215	0.316	0.431	0.531	0.632	0.746	0.847	0.947
Input Current @ 480V		0.086	0.160	0.230	0.320	0.390	0.460	0.550	0.620	0.690
Optics										
T1	Lumens	5,895	11,786	17,683	23,620	29,771	35,739	41,913	47,656	53,681
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	148	159	162	161	163	162	163	163	163
T2	Lumens	5,905	11,805	17,711	23,658	29,818	35,796	41,980	47,732	53,766
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	148	160	162	161	163	162	164	163	163
T2R	Lumens	6,070	12,135	18,206	24,319	30,652	36,797	43,154	49,067	55,270
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	153	164	167	165	168	167	168	168	168
T3	Lumens	5,963	11,922	17,887	23,892	30,114	36,151	42,396	48,206	54,300
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	150	161	164	163	165	164	165	165	165
T3R	Lumens	6,118	12,231	18,350	24,511	30,894	37,087	43,494	49,454	55,706
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	154	166	168	167	169	168	169	169	169
T4FT	Lumens	5,890	11,775	17,667	23,599	29,744	35,706	41,875	47,613	53,632
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	148	159	162	161	163	162	163	163	163
T4W	Lumens	5,948	11,891	17,840	23,830	30,035	36,056	42,285	48,079	54,157
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	149	161	163	162	164	164	165	164	164
SL2	Lumens	5,923	11,842	17,766	23,732	29,912	35,908	42,111	47,882	53,935
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	149	160	163	161	164	163	164	164	164
SL3	Lumens	5,824	11,644	17,469	23,335	29,412	35,308	41,407	47,081	53,033
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	146	158	160	159	161	160	161	161	161
SL4	Lumens	5,907	11,810	17,718	23,668	29,831	35,811	41,998	47,752	53,789
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	148	160	162	161	163	162	164	163	163
5NQ	Lumens	6,245	12,484	18,731	25,020	31,535	37,857	44,397	50,480	56,862
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	157	169	172	170	173	172	173	172	173
5MQ	Lumens	6,241	12,477	18,719	25,005	31,516	37,834	44,370	50,450	56,827
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	157	169	171	170	173	172	173	172	172
5WQ	Lumens	6,028	12,051	18,080	24,151	30,440	36,542	42,855	48,728	54,887
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	151	163	166	164	167	166	167	166	167
SLL/SLR	Lumens	5,938	11,871	17,811	23,791	29,986	35,997	42,216	48,001	54,069
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	149	161	163	162	164	163	164	164	164
RW	Lumens	6,137	12,268	18,406	24,587	30,989	37,201	43,628	49,606	55,877
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	154	166	169	167	170	169	170	169	170
AFL	Lumens	6,061	12,117	18,179	24,283	30,606	36,742	43,089	48,993	55,187
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4
	Lumens per Watt	152	164	166	165	168	167	168	167	167

McGraw-Edison — GALN Galleon II

SB Light Squares, Output Level 3, 4000K, 70 CRI

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		54	101	149	201	250	301	351	400	450
Input Current @ 120V		0.437	0.857	1.259	1.714	2.116	2.518	2.973	3.375	3.776
Input Current @ 208V		0.254	0.498	0.721	0.996	1.219	1.442	1.717	1.940	2.163
Input Current @ 240V		0.223	0.437	0.628	0.874	1.065	1.256	1.501	1.693	1.884
Input Current @ 277V		0.197	0.386	0.550	0.772	0.936	1.100	1.322	1.485	1.649
Input Current @ 347V		0.150	0.292	0.432	0.584	0.724	0.863	1.016	1.155	1.295
Input Current @ 480V		0.111	0.213	0.311	0.427	0.525	0.622	0.738	0.836	0.933
Optics										
T1	Lumens	7,841	15,675	23,517	31,414	39,594	47,531	55,743	63,381	71,393
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	144	155	158	157	159	158	159	159	159
T2	Lumens	7,853	15,700	23,555	31,464	39,657	47,607	55,832	63,482	71,507
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	144	156	158	157	159	158	159	159	159
T2R	Lumens	8,073	16,139	24,214	32,344	40,766	48,938	57,393	65,257	73,507
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	148	160	162	161	163	163	164	163	163
T3	Lumens	7,931	15,856	23,789	31,776	40,051	48,080	56,386	64,112	72,217
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	146	157	160	158	161	160	161	160	161
T3R	Lumens	8,137	16,267	24,405	32,599	41,088	49,325	57,846	65,773	74,087
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	150	161	164	162	165	164	165	165	165
T4FT	Lumens	7,834	15,661	23,496	31,385	39,558	47,488	55,692	63,324	71,329
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	144	155	158	156	159	158	159	158	159
T4W	Lumens	7,910	15,814	23,726	31,693	39,946	47,953	56,238	63,944	72,027
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	145	157	159	158	160	159	160	160	160
SL2	Lumens	7,878	15,749	23,629	31,562	39,781	47,756	56,006	63,681	71,731
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	145	156	158	157	159	159	160	159	159
SL3	Lumens	7,746	15,486	23,234	31,035	39,117	46,958	55,070	62,616	70,532
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	142	153	156	155	157	156	157	157	157
SL4	Lumens	7,857	15,707	23,565	31,477	39,674	47,627	55,855	63,509	71,538
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	144	156	158	157	159	158	159	159	159
5NQ	Lumens	8,305	16,604	24,911	33,275	41,940	50,348	59,046	67,137	75,624
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	153	165	167	166	168	167	168	168	168
5MQ	Lumens	8,300	16,594	24,896	33,255	41,915	50,318	59,010	67,097	75,578
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	153	164	167	166	168	167	168	168	168
5WQ	Lumens	8,017	16,027	24,046	32,120	40,484	48,600	56,996	64,806	72,998
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	147	159	161	160	162	162	163	162	162
SLL/SLR	Lumens	7,897	15,788	23,687	31,641	39,880	47,875	56,146	63,839	71,909
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	145	156	159	158	160	159	160	160	160
RW	Lumens	8,162	16,317	24,480	32,699	41,215	49,476	58,024	65,975	74,315
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	150	162	164	163	165	164	166	165	165
AFL	Lumens	8,061	16,115	24,177	32,295	40,705	48,865	57,307	65,160	73,397
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	148	160	162	161	163	162	164	163	163

McGraw-Edison — GALN Galleon II

SB Light Squares, Output Level 4, 4000K, 70 CRI

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		80	148	218	294	365	440	513	585	658
Input Current @ 120V		0.638	1.234	1.840	2.469	3.094	3.680	4.349	4.934	5.519
Input Current @ 208V		0.367	0.705	1.045	1.410	1.779	2.090	2.513	2.824	3.135
Input Current @ 240V		0.320	0.614	0.913	1.227	1.567	1.827	2.220	2.480	2.740
Input Current @ 277V		0.280	0.537	0.813	1.075	1.402	1.626	1.992	2.215	2.439
Input Current @ 347V		0.219	0.430	0.640	0.897	1.089	1.280	1.537	1.729	1.920
Input Current @ 480V		0.160	0.313	0.479	0.700	0.829	0.958	1.179	1.308	1.437
Optics										
T1	Lumens	10,654	21,299	31,955	42,684	53,800	64,585	75,742	86,121	97,008
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	144	147	145	147	147	148	147	147
T2	Lumens	10,671	21,333	32,006	42,752	53,886	64,688	75,863	86,258	97,162
	BUG Rating	B2-U0-G2	B3-U0-G3	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	145	147	146	148	147	148	147	148
T2R	Lumens	10,969	21,929	32,901	43,948	55,392	66,496	77,984	88,670	99,879
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	149	151	150	152	151	152	152	152
T3	Lumens	10,777	21,545	32,324	43,177	54,420	65,329	76,616	87,114	98,127
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	135	146	148	147	149	148	149	149	149
T3R	Lumens	11,056	22,103	33,161	44,295	55,830	67,022	78,600	89,371	100,668
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	139	150	152	151	153	152	153	153	153
T4FT	Lumens	10,644	21,280	31,926	42,646	53,751	64,526	75,674	86,043	96,920
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	144	146	145	147	147	148	147	147
T4W	Lumens	10,748	21,488	32,239	43,063	54,277	65,158	76,414	86,885	97,869
	BUG Rating	B2-U0-G2	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	135	146	148	147	149	148	149	149	149
SL2	Lumens	10,704	21,400	32,106	42,886	54,054	64,890	76,100	86,528	97,467
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	145	147	146	148	147	148	148	148
SL3	Lumens	10,525	21,042	31,570	42,169	53,151	63,805	74,828	85,082	95,837
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	132	143	145	144	146	145	146	145	146
SL4	Lumens	10,675	21,342	32,020	42,771	53,908	64,715	75,895	86,295	97,204
	BUG Rating	B2-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	145	147	146	148	147	148	148	148
5NQ	Lumens	11,285	22,561	33,849	45,214	56,988	68,412	80,230	91,224	102,756
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	142	153	155	154	156	155	156	156	156
5MQ	Lumens	11,278	22,547	33,828	45,187	56,954	68,371	80,182	91,169	102,694
	BUG Rating	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	142	153	155	154	156	155	156	156	156
5WQ	Lumens	10,893	21,778	32,673	43,644	55,009	66,037	77,445	88,057	99,189
	BUG Rating	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	137	148	150	149	151	150	151	151	151
SLL/SLR	Lumens	10,731	21,453	32,186	42,993	54,189	65,051	76,290	86,743	97,709
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	135	145	148	146	149	148	149	148	148
RW	Lumens	11,090	22,171	33,263	44,431	56,001	67,228	78,842	89,645	100,978
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	139	150	153	151	153	153	154	153	153
AFL	Lumens	10,953	21,897	32,852	43,882	55,309	66,397	77,868	88,538	99,730
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	148	151	149	152	151	152	151	152

McGraw-Edison — GALN Galleon II

Control Options

0-10V (DIM)
This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (BPC, PR and PR7)
Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

After Hours Dim (AHD)
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (SPB and MS/DIM-LXX)
These passive infrared (PIR) sensors are factory installed in the luminaire housing. When the SPB (FSP-321 or FSP-311) or MS/DIM (FSP-211) sensor options are selected, the occupancy sensor is connected to a dimming driver and the luminaire dims when no motion is detected. After a set period of time, the luminaire turns off, and when motion is detected, the luminaire returns to full light output. Both sensors are factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM sensor requires the FSIR-100 programming tool to adjust factory defaults. The SPB sensor default parameters are listed in the table below and can be configured utilizing the Sensor Configuration mobile application for iOS and Android devices. The SPB/X is configured to control only the specified number of light squares (See SPB/X Availability Table below.) An integral photocontrol can be activated with the app for "dusk-to-dawn" control or daylight harvesting - the factory default is off. Four sensor colors are available; Bronze, Black, Gray and White, and are automatically selected based on the luminaire finish as indicated by the table below.

SPB sensor finish matched to luminaire finish		
Luminaire Finish		SPB Sensor Finish*
WH	White	White
BK	Black	Black
GM	Graphite Metallic	Black
BZ	Bronze	Bronze
AP	Gray	Gray
DP	Dark Platinum	Gray

*SPB bezel color automatically selected based on luminaire finish

SPB/X Availability Table	
Fixture Square Count	Available SPB/X Square Count
1	Not Available
2	Not Available
3	Not Available
4	2
5	2 or 3
6	3
7	2, 3, 4 or 5
8	2, 3, 5 or 6
9	3 or 6

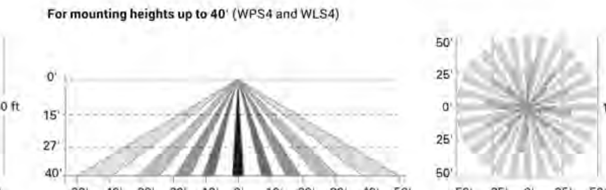
Default Program Settings (Out of the Box Functionality)

Occupancy Sensor				
Setting	MS/DIM	SPB	WaveLinx Lite (WLS4 / WLS2)	WaveLinx (WPS)
High Mode %	100%	100%	100%	100%
Low Mode %	10%	10%	50%	50%
Time Delay	5 min	5 min	15 min	15 min
Cut Off Delay	1 hr	1 hr	Disabled	Disabled
Photocell Enabled	No	No	Yes	Yes

WaveLinx Wireless Control and Monitoring System
Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinx (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinx Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx Lite mobile application for set-up and configuration. WAC not required. WaveLinx Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

For mounting heights up to 15' (WPS2 and WLS2)

For mounting heights up to 40' (WPS4 and WLS4)



AirMesh (DIM10)
AirMesh integrated wireless controls system includes factory installed DIM10 Synapse control module and FSP-201 motion sensor; requires additional AirMesh components for operation. Contact Synapse at www.synapsewireless.com for product support, warranty and terms and conditions.

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

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LICENSED PROFESSIONAL ENGINEER

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
ELECTRICAL FIXTURE
CUT SHEETS

811
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DATE	ISSUED / REVISED

DRAWN BY: BAE
DESIGNED BY: BAE
APPROVED BY: JFS
DATE: 03/**/2019
SCALE:

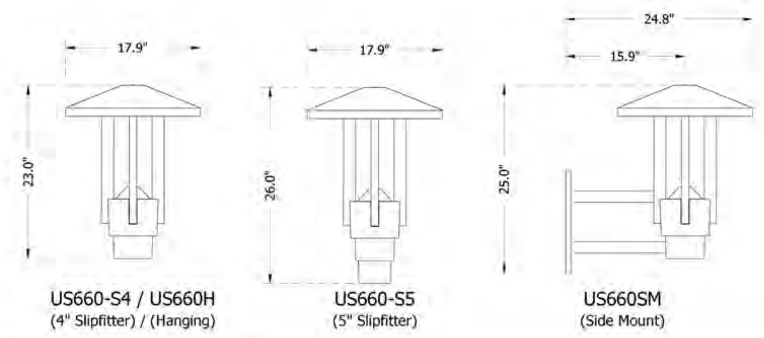
NFE JOB NO. 0557
SHEET NO. E-804

Specification Sheet

Usonia
US660 Medium

LC

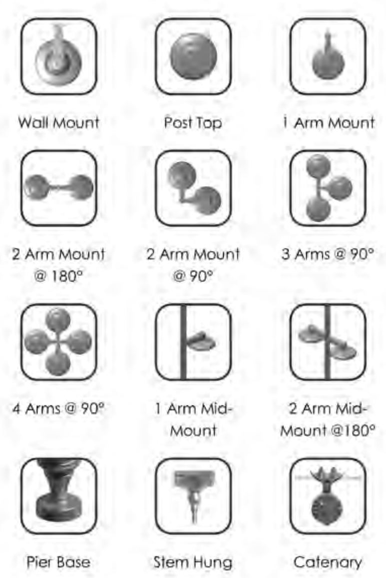
Project Name ______ Qty ______
Type ______ Catalog / Part Number PT-US660-S4-84L30T5-MDL002-SV1



Certifications

IP 66

Mounting Configuration



Description

The US660 Usonia luminaire illuminates pedestrian walkways and smaller roadways with minimalist elegance. Its open-body design and clean lines, inspired by classic architectural principles, deliver bold, timeless illumination.

EPA: 1.08 (ft²) | WEIGHT: 35 LBS

Features

Mounting Configuration	**1W:** Wall Mount **PT:** Post Top **1A:** 1 Arm Mount **2A:** 2 Arm Mount @ 180° **2A90:** 2 Arm Mount @ 90° **3A90:** 3 Arms @ 90° **4A:** 4 Arms @ 90° **1AM:** 1 Arm Mid-Mount **2AM:** 2 Arm Mid-Mount @180° **P2PB:** Pier Base **SH77:** Stem Hung **CAT:** Catenary
Optional Control Receptacle	**R7:** 7-Pin control receptacle only
Optional Control	**PE:** Twist-Lock Photocontrol (120V-277V) **PE4:** Twist-Lock Photocontrol (347V-480V) **SC:** Shorting Cap **PEC:** Electronic Button Photocontrol (120V-277V) **PEC4:** Electronic Button Photocontrol (480V)
Optional Fuse	**FHD:** Double Fuse and Holder
Optional Hangstraight	**HSHS:** Standard Horizontal Hangstraight, Spike Finial **HSHN:** Standard Horizontal Hangstraight, No Finial **HSHB:** Standard Horizontal Hangstraight, Ball Finial **EZ:** Vertical Hangstraight, Large, "EZ" Mount
Optional House Side Shield	**BLOC:** Back Light Optical Control
Optional Fixed Dimming Resistor Board	**FDRB:** Fixed Dimming Resistor Board

Specification Sheet

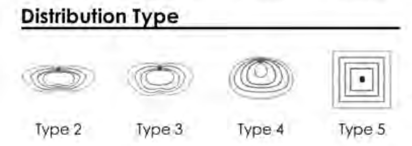
Usonia
US660 Medium

Finish

CCT - Color Temp (K)

2,700K 3,000K 4,000K 5,000K

Distribution Type



Physical

Luminaire	**US660:** Usonia, Medium Post Top **US660H:** Usonia, Medium Hanging **US660SM:** Usonia, Medium Side Mount
Fitter	**S4:** To EXTERNALLY slip fit 4" SQ pole **S5:** To EXTERNALLY slip fit 5" SQ pole
Lens	**SV1:** Flat SoftVue™ Light Diffused Acrylic **SV2:** Flat SoftVue™ Moderate Diffused Acrylic **SV4:** Flat SoftVue™ Maximum Diffused Acrylic
Finish	**UGMT:** Urban Gun Metal Textured **UGM:** Urban Gun Metal Matte **UBT:** Urban Bronze Textured **UB:** Urban Bronze Matte **USLT:** Urban Silver Textured **USL:** Urban Silver Matte **UWHT:** Urban White Textured **UWH:** Urban White Matte **BKT:** Black Textured **OWGT:** Old World Gray Tex **CD:** Cedar **CM:** Custom Match

Light Source

LED	**84L:** 84 LEDs
CCT - Color Temp (K)	**27:** 2,700K **30:** 3,000K **40:** 4,000K **50:** 5,000K
Distribution Type	**T2:** Type 2 **T3:** Type 3 **T4:** Type 4 **T5:** Type 5

Electrical and control

Driver	**MDL001:** 120V-277V, 10mA **MDH001:** 347V-480V, 10mA **MDL002:** 120V-277V, 20mA **MDH002:** 347V-480V, 20mA **MDL003:** 120V-277V, 30mA **MDH003:** 347V-480V, 30mA **MDL005:** 120V-277V, 50mA **MDH005:** 347V-480V, 50mA

Specification Sheet

Usonia
US660 Medium

How to Order

PT		US660	S4	84L	30	T5	MDL002	SV1
Mounting Configuration	**Overall Drop Length (In Inches)** (5)	**Luminaire**	**Fitter** (2)	**LED**	**CCT - Color Temp (K)**	**Distribution Type**	**Driver**	**Lens**
1W Wall Mount **PT** Post Top **1A** 1 Arm Mount (1) **2A** 2 Arm Mount @ 180° (1) **2A90** 2 Arm Mount @ 90° (1) **3A90** 3 Arms @ 90° (1) **4A** 4 Arms @ 90° (1) **1AM** 1 Arm Mid-Mount (1) **2AM** 2 Arm Mid-Mount @180° (1) **P2PB** Pier Base (2) **SH77** Stem Hung **CAT** Catenary (3)(4)		**US660** Usonia, Medium Post Top **US660H** Usonia, Medium Hanging **US660SM** Usonia, Medium Side Mount	**S4** To EXTERNALLY slip fit 4" SQ pole **S5** To EXTERNALLY slip fit 5" SQ pole	**84L** 84 LEDs	**27** 2,700K **30** 3,000K **40** 4,000K **50** 5,000K	**T2** Type 2 **T3** Type 3 **T4** Type 4 **T5** Type 5	**MDL001** 120V-277V, 10mA **MDH001** 347V-480V, 10mA **MDL002** 120V-277V, 20mA **MDH002** 347V-480V, 20mA **MDL003** 120V-277V, 30mA **MDH003** 347V-480V, 30mA **MDL005** 120V-277V, 50mA **MDH005** 347V-480V, 50mA	**SV1** Flat SoftVue™ Light Diffused Acrylic **SV2** Flat SoftVue™ Moderate Diffused Acrylic **SV4** Flat SoftVue™ Maximum Diffused Acrylic

Notes:
1. For use with hanging (H) or side mount (SM) fixture only.
2. For use with Post Top fixture only.
3. For use with hanging (H) fixture only.
4. Requires EZ hang straight.
5. Minimum 29" Overall Drop Length.

Lighting to be 3,000k or less

Specification Sheet

Usonia
US660 Medium

How to Order

Optional Control Receptacle (4) (7)	**Optional Control**	**Optional Fuse** (10)	**Optional Hangstraight** (3)	**Optional House Side Shield** (11)	**Optional Fixed Dimming Resistor Board** (9)	**Finish**
R7 7-Pin control receptacle only	**PE** Twist-Lock Photocontrol (120V-277V) (6) **PE4** Twist-Lock Photocontrol (347V-480V) (6) **SC** Shorting Cap (8) **PEC** Electronic Button Photocontrol (120V-277V) (9) **PEC4** Electronic Button Photocontrol (480V) (9)	**FHD** Double Fuse and Holder	**HSHS** Standard Horizontal Hangstraight, Spike Finial **HSHN** Standard Horizontal Hangstraight, No Finial **HSHB** Standard Horizontal Hangstraight, Ball Finial **EZ** Vertical Hangstraight, Large, "EZ" Mount (9)	**BLOC** Back Light Optical Control	**FDRB** Fixed Dimming Resistor Board	**UGMT** Urban Gun Metal Textured **UGM** Urban Gun Metal Matte **UBT** Urban Bronze Textured **UB** Urban Bronze Matte **USLT** Urban Silver Textured **USL** Urban Silver Matte **UWHT** Urban White Textured **UWH** Urban White Matte **BKT** Black Textured **OWGT** Old World Gray Tex **CD** Cedar **CM** Custom Match

Notes:
3. For use with hanging (H) fixture only.
6. Not for use with FDRB.
7. Not for use with STEM, CAT, or EZ mounting style.
8. Requires control receptacle.
9. Not for use with R7.
10. Ships loose for installation in base.
11. Not for use with T5 optic.

Specification Sheet

Usonia
US660 Medium

Specifications

Housing	The housing is constructed utilizing precision cast aluminum parts.
LED Module	The field replaceable internal LED module comes factory sealed with an IP66 rating. The internal heat sink is sealed to the lens to protect the LED platform from the outside elements.
Fitter	This "Post Top" style includes a fitter to slip a pole/tenon, mechanically attaching to the tenon with included hardware.. **S4** - Externally slip fits a 4" square x 2.75" tall pole/tenon **S5** - Internally slip fits a 5" square and extending 3" into the pole/tenon **(.250 maximum wall thickness)**
Hang-Straight	A hang-straight transition is required for most hanging mounting configurations. The Standard **(HSHx)** is an aluminum ball and swivel horizontal hang-straight. Available with a spike **(S)**, a ball **(B)**, or no finial **(N)**. The hang-straight slips a **4" long by 2-3/8" OD** horizontal tenon. The **(EZ)** is a cast stainless steel ball and swivel vertical hang-straight. The special 2-part design allows for easy installation. It is factory installed under an arm and on the fixture.
Side Mount	The side mount variant can be used on wall and pole mounting configurations. The arm is constructed and shipped integral to the luminaire and constructed of 1.5" extruded aluminum. The **Post Mount** version includes a 2.5"x15.25" cast aluminum backplate welded to the pole shaft. The **Wall Mount** version includes a 4.75"x15.25" cast aluminum backplate for mounting, requiring wall mounting hardware by others.
Catenary Mount	The Catenary mount option includes a cast aluminum span wire clamp, which accommodates cables **1/4"-5/8"** in diameter. Below the clamp is a decorative cast aluminum wire box and cover which transitions to the **EZ** vertical Hangstraight for fixture attachment. **Aircraft Cable by others.**
Hardware	Includes Stainless steel hardware. Most finishes will include hardware with a Black Oxide conversion coating. Light finishes will get non-color coated hardware **(Whites and Silvers)**
Lens	Optional glare reducing SoftVue™ lens provides optimal visual comfort. Uses a .125" thick acrylic lens. Offered with Soft Vue Medium Diffused Acrylic **(SV1)**, Soft Vue Heavy Diffused Acrylic **(SV2)** or Soft Vue Maximum Diffused Acrylic **(SV4)**.
Serviceability	Removable leg allows for easy access to the driver compartment for maintenance.
UL Listing	UL listed per UL1598 and CSA C22.2 No. 250.0 for the United States and Canada. Suitable for Wet Locations.
Electronic Driver	The LED driver is UL recognized and will be securely mounted inside the fixture, for optimized performance and longevity. It will be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections for fixture installation and maintenance. It will have DC voltage output and be a constant current design. It runs at 50/60HZ and will have overload, overheat, and short circuit protection. It will be supplied with a supplemental line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines. It will be a high efficiency driver with a THD less than 20% and a high-power factor greater than .9. It will be dimming capable using a 0-10V signal, consult factory for more information.
NightSky® Friendly	Dark sky design properties with a U0 BUG rating.
IP Rating	IP66 rated optical module for enhanced protection against dust and water intrusion.
Finish	Our 6 Stage Polyester Powder coat paint system offers a beautiful high-end finish that holds up to even the most extreme environments. Each part is inspected for quality and consistency before being released for shipment. Our system exceeds AAMA 2604, AAMA 2605, ASTM D523 and ASTM D4214 requirements.
Urban Finish	The Urban finish palette was created to highlight a modern, elegant aesthetic. All finishes are a 1 part powder coat with metallic flakes for a superior appearance. Finishes are available in textured or matte. Available finishes include: **Black Textured, Urban Gun Metal, Urban Bronze, Urban Silver and Urban White**
Custom Finish	Custom finishes are offered to adapt to any application. **Custom Match** option is available to blend sternberg product with the site, consult factory for more information.
Warranty	7-year limited warranty. See Website for Terms and Conditions.

Specification Sheet

Usonia
US660 Medium

LEDs	The LEDs in this system will be fully shielded in a direct downward position to maximize efficiency. The LEDs are mounted to maximize thermal transfer to the heat sink surface. The LEDs shall be 100% recyclable; not contain lead, mercury or any other hazardous substances and shall be RoHS compliant. Lumen maintenance shall be determined in accordance with IESNA TM-21, based on LED manufacturer LM-80 test data of no less than 6,000 hours and in-situ testing of the luminaire by an NVLAP accredited Energy Efficient Lighting Products lab. The high-performance white LEDs will have a predicted lumen depreciation of approximately 100,000 hours with greater than 70% of initial output at 25°C. The high brightness, high-output white LEDs shall be 4000K nominal (2700K, 3000K, 3500K or 5000K optional) correlated color temperature (CCT) with a 70 (minimum) color rendering index (CRI). Consult factory for custom CCT or CRI. The luminaire shall have a minimum ______ (see table) delivered initial lumens when operated at steady state with an average ambient temperature of 25°C (77°F). **CCT Lumen Derate Values from 4,000K** 2,700K (70+ CRI)=**.85** 3,000K (70+ CRI)=**.92** 3,500K (70+ CRI)=**1.00** 5,000K (70+ CRI)=**1.00**
Optics	The luminaire shall be provided with individual, refractor type optics applied to each LED. The luminaire shall provide Type ___ (2, 3, 4 or 5) light distribution per the IESNA classifications. Testing shall be done in accordance with IESNA LM-79.
Backlight Optical Control	**BLOC Optic (BLOC):** An optional "Back Light Optical Control" shield can be provided at the factory. This is an internal optic level "House Side Shield" offering significantly reduced backlight and glare while maintaining the original design aesthetics of the luminaire.
Fixed Dimming Resistor Board (FDRB)	Optional numbered 10-step selector switch allows for fine adjustment of the light levels in the field, repeatable from location to location. Offers dimming from 25% to 100% of the original output. Enclosure is composite material, sealed to protect components for the life of the product.
Photocontrols	**Button Photocell:** The photocontrol shall be mounted on the fixture and pre-wired to driver. The electronic button type photocontrol is instant on and will turn on at 1.5 footcandles and will turn off at 2-3 footcandles. See pole spec sheet for pole mounted version. **Twist-Lock Style (Hangstraight Mount):** The photocontrol shall be mounted externally on the hangstraight and pre-wired to driver. The twist lock type photocontrol is instant on with a 3-6 second turn off, and shall turn on at 1.5 footcandles with a turn-off at 2-3 footcandles. If an **R7** is specified alongside a **BALL** or **SPIKE** style finial on hang-straight, a decorative cap (with window) is included to cover a **STANDARD** photocell. Use the **NO FINIAL** hangstraight option if the **R7** is used with a **WIRELESS CONTROLLER** . **Twist-Lock Style (Roof Mount):** The photocontrol shall be mounted on the roof and prewired to driver. The twist lock type photocontrol is instant on with a 3-6 second turn off, and shall turn on at 1.5 footcandles with a turnoff at 2-3 footcandles. Photocontrol is 120-277 volt.

Lumen Chart(s)

Tested with SV1 lens

Model #	T2 DELIVERED LUMENS	BUG	EFFICACY (LPW)	T3 DELIVERED LUMENS	BUG	EFFICACY (LPW)	T4 DELIVERED LUMENS	BUG	EFFICACY (LPW)	T5 DELIVERED LUMENS	BUG	EFFICACY (LPW)	WATTAGE
84L-40-T_-MDL005	11815	B2U0G2	120.6	10620	B2U0G2	108.4	11255	B2U0G2	114.8	11840	B3U0G1	120.8	98
84L-30-T_-MDL005	10905	B2U0G2	111.3	9805	B2U0G2	100.1	10390	B2U0G2	106.0	10930	B3U0G1	111.5	98
84L-27-T_-MDL005	9995	B2U0G2	102.0	8985	B2U0G2	91.7	9525	B2U0G2	97.2	10020	B3U0G1	102.2	98
84L-40-T_-MDL003	8115	B2U0G1	124.8	7285	B2U0G2	112.1	7715	B2U0G2	118.7	8125	B3U0G1	125.0	65
84L-30-T_-MDL003	7490	B2U0G1	115.2	6725	B2U0G2	103.5	7120	B2U0G2	109.5	7500	B3U0G1	115.4	65
84L-27-T_-MDL003	6865	B2U0G1	105.6	6165	B2U0G2	94.8	6530	B2U0G2	100.5	6875	B3U0G1	105.8	65
84L-40-T_-MDL002	5835	B1U0G1	124.1	5245	B1U0G1	111.6	5555	B1U0G1	118.2	5845	B2U0G1	124.4	47
84L-30-T_-MDL002	5385	B1U0G1	114.6	4840	B1U0G1	103.0	5130	B1U0G1	109.1	5395	B2U0G1	114.8	47
84L-27-T_-MDL002	4935	B1U0G1	105.0	4440	B1U0G1	94.5	4700	B1U0G1	100.0	4945	B2U0G1	105.2	47
84L-40-T_-MDL001	3645	B1U0G1	121.5	3290	B1U0G1	109.7	3480	B1U0G1	116.0	3655	B2U0G1	121.8	30
84L-30-T_-MDL001	3365	B1U0G1	112.2	3035	B1U0G1	101.2	3210	B1U0G1	107.0	3375	B2U0G1	112.5	30
84L-27-T_-MDL001	3085	B1U0G1	102.8	2785	B1U0G1	92.8	2945	B1U0G1	98.2	3095	B2U0G1	103.2	30

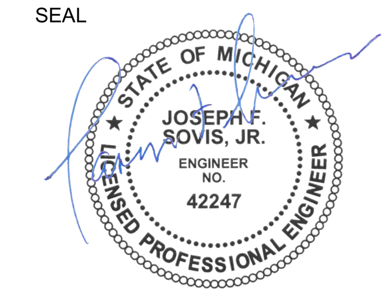
ROCHESTER HILLS
MICHIGAN

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

ROCHESTER HILLS
MICHIGAN

MATRIX
CONSULTING ENGINEERS, INC.

SEAL



PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
ELECTRICAL FIXTURE
CUT SHEETS

811
Know what's below
Call before you dig.

DATE	ISSUED / REVISED

DRAWN BY: BAE
DESIGNED BY: BAE
APPROVED BY: JFS
DATE: 03/**/2019
SCALE:

NFE JOB NO. 0557
SHEET NO. E-805

Autodesk Docs://Nowicki Park/250059.00 - Nowicki Park - MEP - R23.rvt

Specification Sheet

Usonia
US660 Medium

Hangstraight

Horizontal Hang-straights slip fit 4" long by 2-3/8" OD horizontal tenon

Standard Horizontal Hangstraight, Spike Finial **(HSHS)** · Standard Horizontal Hangstraight, Ball Finial **(HSHB)** · Standard Horizontal Hangstraight, No Finial **(HSHN)** · "EZ" Vertical hangstraight **(EZ)**

Fitters

(S4) 4" Slipfitter
Externally slip fits a 4" square x 2.75" tall pole/tenon

(S5) 5" Slipfitter
Internally slip fits a 5" square and extending 3" into the pole/tenon (.250 maximum wall thickness)

Specification Sheet

Usonia
US660 Medium

Options

Button Photocell **(PEC/PEC4)** · 7-Pin NEMA Twist-Lock Receptacle and Photocell **(R7-PE)** · Fixed Dimming Resistor Board **(FDRB)**

Double Fuse Holder & (2) 3A Fuses **(FHD)** · Back Light Optical Control **(BLOC)**

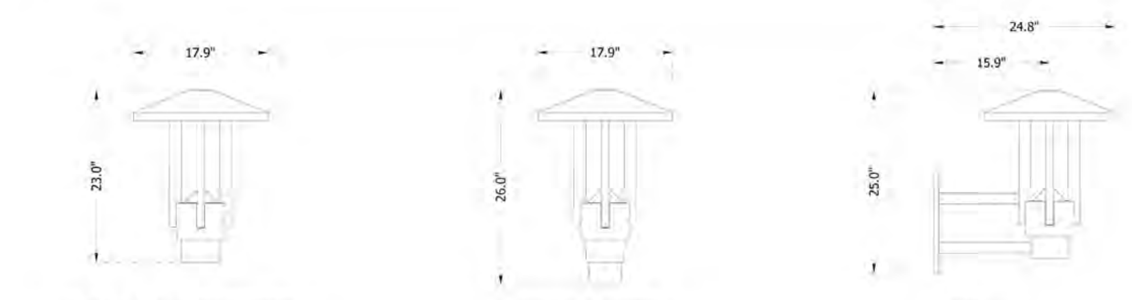
Arm Examples

Arm: 480 | **Hangstraight:** EZ · **Arm:** HM | **Hangstraight:** EZ · **Arm:** OD | **Hangstraight:** EZ · **Side Mount Luminaire**

Specification Sheet

Usonia
US660 Medium

Dimensions



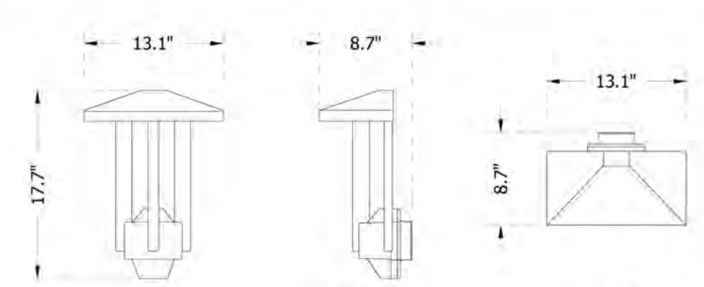
Post Top, 4" Slipfitter & Hanging **(US660-S4 & US660H)** · Post Top, 5" Slipfitter **(US660-S5)** · Side Mount **(US660SM)**

Pier Base **(P2PB-US660-S4)** · Stem Hung **(SH77-US660H)** · Catenary **(CAT-US660H)**

Specification Sheet

LD **Usonia**
US270 Sconce

Project Name ______ **Qty** ______
Type ______ **Catalog / Part Number** US270-16L40T3-MDL003-SV1



Certifications

Finish

Urban Gun Metal Textured · Urban Gun Metal Matte · Urban Bronze Textured · Urban Bronze Matte · Urban Silver Textured · Urban Silver Matte · Urban White Textured · Urban White Matte · Black Textured · Old World Gray Tex · Cedar · Custom Match

CCT - Color Temp (K)

2,700K · 3,000K · 4,000K · 5,000K

Description

The US270 Usonia wall sconce elevates building facades with its refined, open-body design. Delivering uniform illumination, it creates a striking yet subtle architectural presence.

WEIGHT: 16.14 LBS

Physical

Model	**US270:** Usonia Sconce
Lens	**SV1:** Flat SoftVue™ Light Diffused Acrylic **SV2:** Flat SoftVue™ Moderate Diffused Acrylic **SV4:** Flat SoftVue™ Maximum Diffused Acrylic
Finish	**UGMT:** Urban Gun Metal Textured **UGM:** Urban Gun Metal Matte **UBT:** Urban Bronze Textured **UB:** Urban Bronze Matte **USLT:** Urban Silver Textured **USL:** Urban Silver Matte **UWHT:** Urban White Textured **UWH:** Urban White Matte **BKT:** Black Textured **OWGT:** Old World Gray Tex **CD:** Cedar **CM:** Custom Match

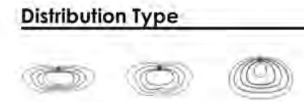
Light Source

LED	**16L:** 16 LEDs
CCT - Color Temp (K)	**27:** 2,700K **30:** 3,000K **40:** 4,000K **50:** 5,000K

Specification Sheet

Usonia
US270 Sconce

Distribution Type



Type 2 · Type 3 · Type 4

Distribution Type	**T2:** Type 2 **T3:** Type 3 **T4:** Type 4

Electrical and control

Driver	**MDL001:** 120V-277V, 10mA **MDL002:** 120V-277V, 20mA **MDL003:** 120V-277V, 30mA **MDL004:** 120V-277V, 37mA

Features

Optional Control	**PEC:** Electronic Button Photocontrol (120V-277V)
Optional Fixed Dimming Resistor Board	**FDRB:** Fixed Dimming Resistor Board

Lighting to be 3,000k or less

Specification Sheet

Usonia
US270 Sconce

How to Order

US270	16L	40	T3	MDL003	SV1			
Model	**LED**	**CCT - Color Temp (K)**	**Distribution Type**	**Driver**	**Lens**	**Optional Control** (1)	**Optional Fixed Dimming Resistor Board** (2)	**Finish**
US270 Usonia Sconce	**16L** 16 LEDs	**27** 2,700K **30** 3,000K **40** 4,000K **50** 5,000K	**T2** Type 2 **T3** Type 3 **T4** Type 4	**MDL001** 120V-277V, 10mA **MDL002** 120V-277V, 20mA **MDL003** 120V-277V, 30mA **MDL004** 120V-277V, 37mA	**SV1** Flat SoftVue™ Light Diffused Acrylic **SV2** Flat SoftVue™ Moderate Diffused Acrylic **SV4** Flat SoftVue™ Maximum Diffused Acrylic	**PEC** Electronic Button Photocontrol (120V-277V)	**FDRB** Fixed Dimming Resistor Board	**UGMT** Urban Gun Metal Textured **UGM** Urban Gun Metal Matte **UBT** Urban Bronze Textured **UB** Urban Bronze Matte **USLT** Urban Silver Textured **USL** Urban Silver Matte **UWHT** Urban White Textured **UWH** Urban White Matte **BKT** Black Textured **OWGT** Old World Gray Tex **CD** Cedar **CM** Custom Match

Notes:
1. Not for use with FDRB.
2. Not for use with PEC.

ROCHESTER HILLS MICHIGAN

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

MATRIX CONSULTING ENGINEERS, INC.

SEAL
STATE OF MICHIGAN
JOSEPH F. SOVIS, JR.
ENGINEER
NO. 42247
LICENSED PROFESSIONAL ENGINEER

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
ELECTRICAL FIXTURE
CUT SHEETS

Know what's below
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DATE	ISSUED / REVISED

DRAWN BY: BAE
DESIGNED BY: BAE
APPROVED BY: JFS
DATE: 03/**/2019
SCALE:

NFE JOB NO. 0557
SHEET NO. E-806

Specifications

Housing	The housing is constructed utilizing precision cast aluminum parts.
LED Module	The field replaceable internal LED module is available for simplified maintenance. The internal heat sink is sealed to the lens to protect the LED platform from the outside elements.
Installation	Features a stainless steel wedge plate for mounting. 2 stainless steel set screws on the underside securely fasten the luminaire to the wall.
Hardware	Includes Stainless steel hardware. Most finishes will include hardware with a Black Oxide conversion coating. Light finishes will get non-color coated hardware **(Whites and Silvers)**
Lens	Optional glare reducing SoftVue™ lens provides optimal visual comfort. Uses a .125" thick acrylic lens. Offered with Soft Vue Medium Diffused Acrylic **(SV1)**, Soft Vue Heavy Diffused Acrylic **(SV2)** or Soft Vue Maximum Diffused Acrylic **(SV4)**.
UL Listing	UL listed per UL1598 and CSA C22.2 No. 250.0 for the United States and Canada. Suitable for Wet Locations.
Electronic Driver	The LED driver is UL recognized and will be securely mounted inside the fixture, for optimized performance and longevity. It will have DC voltage output and be a constant current design. It runs at 50/60HZ and will have overload, overheat, and short circuit protection. It will be supplied with a supplemental line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines. It will be a high efficiency driver with a THD less than 20% and a high-power factor greater than .9. It will be dimming capable using a 0-10V signal, consult factory for more information.
NightSky® Friendly	Dark sky design properties with a U0 BUG rating.
IP Rating	IP66 rated luminaire for enhanced protection against dust and water intrusion.
Finish	Our 6 Stage Polyester Powder coat paint system offers a beautiful high-end finish that holds up to even the most extreme environments. Each part is inspected for quality and consistency before being released for shipment. Our system exceeds AAMA 2604, AAMA 2605, ASTM D523 and ASTM D4214 requirements.
Urban Finish	The Urban finish palette was created to highlight a modern, elegant aesthetic. All finishes are a 1 part powder coat with metallic flakes for a superior appearance. Finishes are available in textured or matte. Available finishes include: **Black Textured, Urban Gun Metal, Urban Bronze, Urban Silver and Urban White**
Custom Finish	Custom finishes are offered to adapt to any application. **Custom Match** option is available to blend sternberg product with the site, consult factory for more information.
Warranty	7-year limited warranty. See Website for Terms and Conditions.
LEDs	The LEDs in this system will be fully shielded in a direct downward position to maximize efficiency. The LEDs are mounted to maximize thermal transfer to the heat sink surface. The LEDs shall be 100% recyclable; not contain lead, mercury or any other hazardous substances and shall be RoHS compliant. Lumen maintenance shall be determined in accordance with IESNA TM-21, based on LED manufacturer LM-80 test data of no less than 6,000 hours and in-situ testing of the luminaire by an NVLAP accredited Energy Efficient Lighting Products lab. The high-performance white LEDs will have a predicted lumen depreciation of approximately 100,000 hours with greater than 70% of initial output at 25°C. The high brightness, high-output white LED's shall be 4000K nominal (2700K, 3000K or 5000K optional) correlated color temperature (CCT) with a 70 (minimum) color rendering index (CRI). Consult factory for custom CCT or CRI. The luminaire shall have a minimum ______ (see table) delivered initial lumens when operated at steady state with an average ambient temperature of 25°C (77°F). **CCT Lumen Derate Values from 4,000K** 2,700K (70+ CRI)=**.85** 3,000K (70+ CRI)=**.92** 5,000K (70+ CRI)=**1.00**
Optics	The luminaire shall be provided with individual, refractor type optics applied to each LED. The luminaire shall provide Type ___ (2, 3 or 4) light distribution per the IESNA classifications. Testing shall be done in accordance with IESNA LM-79.
Fixed Dimming Resistor Board (FDRB)	Optional numbered 10-step selector switch allows for fine adjustment of the light levels in the field, repeatable from location to location. Offers dimming from 25% to 100% of the original output. Enclosure is composite material, sealed to protect components for the life of the product.

Photocontrols	**Button Photocell:** The photocontrol will be mounted on the fixture and pre-wired to driver. The electronic button type photocontrol is instant on and will turn on at 1.5 footcandles and will turn off at 2-3 footcandles. Bottom of sconce to be at least 5' away from reflective surfaces to minimize photocontrol cycling.

Lumen Chart(s)

Tested with SV1 lens

Model #	T2 DELIVERED LUMENS	BUG	EFFICACY (LPW)	T3 DELIVERED LUMENS	BUG	EFFICACY (LPW)	T4 DELIVERED LUMENS	BUG	EFFICACY (LPW)	WATTAGE
16L-40-T_-MDL004	1840	B0U0G0	108.2	1735	B0U0G1	102.1	1865	B0U0G1	109.7	17
16L-30-T_-MDL004	1700	B0U0G0	100.0	1600	B0U0G0	94.1	1720	B0U0G1	101.2	17
16L-27-T_-MDL004	1555	B0U0G0	91.5	1470	B0U0G0	86.5	1580	B0U0G1	92.9	17
16L-40-T_-MDL003	1475	B0U0G0	105.4	1390	B0U0G1	99.3	1495	B0U0G1	106.8	14
16L-30-T_-MDL003	1360	B0U0G0	97.1	1285	B0U0G1	91.8	1380	B0U0G1	98.6	14
16L-27-T_-MDL003	1250	B0U0G0	89.3	1175	B0U0G1	83.9	1265	B0U0G1	90.4	14
16L-40-T_-MDL002	1055	B0U0G0	105.5	995	B0U0G0	99.5	1075	B0U0G0	107.5	10
16L-30-T_-MDL002	975	B0U0G0	97.5	920	B0U0G0	92.0	990	B0U0G0	99.0	10
16L-27-T_-MDL002	895	B0U0G0	89.5	840	B0U0G0	84.0	910	B0U0G0	91.0	10
16L-40-T_-MDL001	545	B0U0G0	90.8	515	B0U0G0	85.8	550	B0U0G0	91.7	6
16L-30-T_-MDL001	505	B0U0G0	84.2	475	B0U0G0	79.2	510	B0U0G0	85.0	6
16L-27-T_-MDL001	460	B0U0G0	76.7	435	B0U0G0	72.5	465	B0U0G0	77.5	6

Options


Button Photocell **(PEC)**
(installed on backside of unit)

Fixed Dimming Resistor Board
(FDRB)

LE **Lumark**

DESCRIPTION

Combining value and performance in a unique, patent-pending durable design, the Tracer LED floodlight luminaire delivers superior uniformity and excellent illumination to the targeted application. The rugged, die-cast housing is IP66 rated for exceptional durability and long-term reliability. The Tracer floodlight provides design flexibility for applications such as landscape, accent, facade, or sign lighting.

Catalog #	TCRS8W-BK-7030	Type	
Project			
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

Construction
Heavy-duty, die-cast aluminum housing provides durability and an IP66 rating to protect against moisture and contaminants. Clear tempered glass lens protects optics and encloses the front cover of the luminaire.

Optics
The discrete LED optics provide illumination that has been precisely designed to shape the distribution as spot, medium, or wide. Multiple lumen packages ranging from 550 up to 2,900 lumens. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 5000K CCT or 3000K CCT available. Removable, pre-installed standard symmetric snoot as well included and field-replaceable with included extended visor for more cut-off applications.

Electrical
LED driver is internally mounted for optimal heat sinking. 120-277V 50/60Hz standard operation. Integral 4kV surge is standard. 0-10V dimming is standard with external purple and grey leads. Suitable for ambient temperatures from -40°C to 40°C. 90% lumen maintenance greater than 60,000 hours per IESNA TM-21.

Mounting
Heavy-duty, die-cast aluminum knuckle base utilizes tooth-lock adjustment with visual 15° adjustment indicators that allow for precise rotation of the luminaire. Knuckle fits 1/2" NPS available mounting junction box cover (supplied by others) and is secured with supplied locking nut.

Finish
Housing and cast parts finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard color is carbon bronze. Additional colors available in summit white, black, and verde green. Consult your lighting representitive at Cooper Lighting Solutions for a complete selection of standard colors.

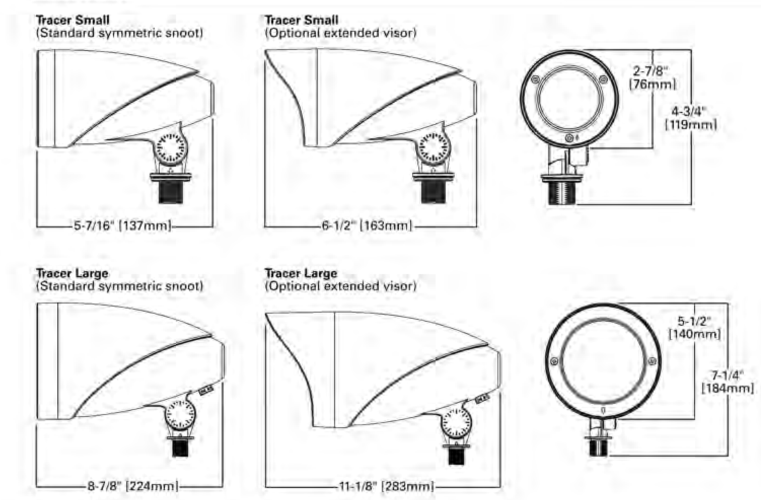
Warranty
Five-year warranty.

TCRS / TCRL
TRACER

Solid State LED

FLOODLIGHT

DIMENSIONS



CERTIFICATION DATA
UL/cUL Wet Location Listed
DesignLights Consortium® Qualified*
IP66 Fixture and Optical Chamber
LM79/LM80 Compliant
FCC Class A
1.5G Vibration Rated
RoHS Compliant

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz
-40°C Min. Ambient Temperature Rating
+40°C Max. Ambient Temperature Rating

EPA
Effective Projected Area (Sq. Ft.): 0.55

SHIPPING DATA
Approximate Net Weight:
Small fixture=2 lbs. (0.91kgs.)
Large fixture=5 lbs. (2.27kgs.)

POWER AND LUMENS

Light Engine		TCRS5	TCRS8	TCRL15	TCRL20	TCRL26
Power (Watts)		5.0	8.0	12.0	17.6	25.1
Input Current @ 120V (A)		0.04	0.07	0.10	0.15	0.22
Input Current @ 277V (A)		0.02	0.03	0.05	0.07	0.10
Configuration						
Spot (20°)	4000K/5000K Lumens	530	812	1,500	2,039	2,718
	3000K Lumens	512	785	1,450	1,971	2,628
Medium (30°)	4000K/5000K Lumens	552	846	1,630	2,215	2,953
	3000K Lumens	533	818	1,575	2,141	2,854
Wide (50°)	4000K/5000K Lumens	561	860	1,657	2,251	3,002
	3000K Lumens	542	831	1,602	2,176	2,902

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
Up to 40°C	90%	153,000

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.97

ORDERING INFORMATION

Sample Number: TCRS5S-WH-7050

Product Family [1]	Light Engine	Distribution
TCRS=Tracer Flood Small LED **TCRL**=Tracer Flood Large LED	**TCRS** **5**=5W, 550 Nominal Lumens **8**=8W, 850 Nominal Lumens **TCRL** **15**=15W, 1,600 Nominal Lumens **20**=20W, 2,200 Nominal Lumens **26**=26W, 2,900 Nominal Lumens	**S**=Spot **M**=Medium **W**=Wide

Options (Add as Suffix) [2]
[blank]=Carbon Bronze (Standard)
BK=Black
VG=Verde Green
WH=White
7030=70 CRI / 3000K CCT
7050=70 CRI / 5000K CCT

NOTES: 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2. Extended lead times apply to any options selected.

STOCK ORDERING INFORMATION

Stock SKUs

Small
TCRS5S=Tracer Small 5W, 550 lumens, Spot Distribution
TCRS5M=Tracer Small 5W, 550 lumens, Medium Distribution
TCRS5W=Tracer Small 5W, 550 lumens, Wide Distribution
TCRS8S=Tracer Small 8W, 850 lumens, Spot Distribution
TCRS8M=Tracer Small 8W, 850 lumens, Medium Distribution
TCRS8W=Tracer Small 8W, 850 lumens, Wide Distribution

Large
TCRL15S=Tracer Large 15W, 1,600 lumens, Spot Distribution
TCRL15M=Tracer Large 15W, 1,600 lumens, Medium Distribution
TCRL20M=Tracer Large 20W, 2,200 lumens, Medium Distribution
TCRL26S=Tracer Large 26W, 2,900 lumens, Spot Distribution
TCRL26M=Tracer Large 26W, 2,900 lumens, Medium Distribution

NOTES: Options not available with stock products. Refer to standard ordering information to add options. Stock fixture is 4000K, dimming, 120-277V, carbon bronze only.

ROCHESTER HILLS MICHIGAN

MATRIX CONSULTING ENGINEERS, INC.

SEAL
STATE OF MICHIGAN
JOSEPH F. SOVIS, JR.
ENGINEER NO. 42247
LICENSED PROFESSIONAL ENGINEER

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
ELECTRICAL FIXTURE
CUT SHEETS

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

DATE	ISSUED / REVISED

DRAWN BY:
BAE

DESIGNED BY:
BAE

APPROVED BY:
JFS

DATE:
03/**/2019

SCALE:

ROCHESTER HILLS MICHIGAN
PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

NFE JOB NO.
0557

SHEET NO.
E-807

LA POLE

Aluminum Poles

SSA SQUARE STRAIGHT ALUMINUM

Catalog #	SSA-5-T-15-W-N-1	Type
Project		
Comments		Date
Prepared by		

FEATURES
- Straight square shaft 6005-T6 aluminum alloy polished
- 356-T6 cast aluminum alloy base with aluminum knock-in bolt covers
- 8'-35' mounting heights
- Drilled or tenon (specify)

DESIGN CONSIDERATIONS - VIBRATIONS AND NON-GROUND MOUNTED INSTALLATIONS

The information contained herein is for general guidance only and is not a replacement for professional judgment. Design considerations for wind-induced vibrations and non-ground mounted installations (e.g., installations on bridges or buildings) are not included in this document. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Refer to the Cooper Lighting Solutions Light Pole White Paper for risk factors and design considerations. Learn more.

NOTE: The Limited Warranty for this product specifically excludes fatigue failure or similar damage resulting from vibration, harmonic oscillation or resonance.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutinos or visit www.cooperlighting.com for available options, accessories and ordering information.

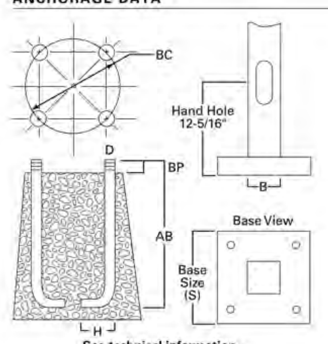
ORDERING INFORMATION

SAMPLE NUMBER: SSA4T08WXM1G

Product Family	Shaft Size (Inches)[1]	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Options (Add as Suffix)
SSA=Square Straight Aluminum	**4**=4" **5**=5" **6**=6" **9**=9" Steel; 6-3/4" Aluminum	**T**=0.125" **M**=0.188" **X**=0.250"	**08**=8' **10**=10' **12**=12' **15**=15' **18**=18' **20**=20' **25**=25' **30**=30' **35**=35'	**W**=Aluminum	**A**=Satin Brushed Aluminum **B**=Clear Anodized **C**=Dark Bronze Anodized **D**=Black Anodized **E**=Medium Bronze Anodized **F**=Dark Bronze **J**=Summit White **K**=Carbon Bronze **L**=Dark Platinum **R**=Hartford Green **S**=Silver **T**=Graphite Metallic **V**=Grey **W**=White **X**=Custom Color **BK**=Black Smooth **BT**=Black Textured	**2**=2-3/8" O.D. Tenon (4" Long) **3**=3-1/2" O.D. Tenon (5" Long) **4**=4" O.D. Tenon (6" Long) **9**=3" O.D. Tenon (4" Long) **6**=2-3/8" O.D. Tenon (6" Long) **7**=4" O.D. Tenon (10" Long) **A**=Type A Drilling **C**=Type C Drilling **E**=Type E Drilling **F**=Type F Drilling **G**=Type G Drilling **J**=Type J Drilling **K**=Type K Drilling **M**=Type M Drilling **N**=Type N Drilling **R**=Type R Drilling	**1**=Single **2**=2 at 180° **3**=Triple[2] **4**=4 at 90° **5**=2 at 90° **X**=None	**A**=1/2" Tapped Hub[3] **B**=3/4" Tapped Hub[3] **C**=Convenience Outlet[4] **E**=GFCI Convenience Outlet[4] **F**=Vibration Pad **G**=Ground Lug **H**=Additional Hand Hole[5] **V**=Vibration Dampener

NOTES: 1. All shaft sizes nominal. **2.** Square poles are 3 at 90°, round poles are 3 at 120°. **3.** Tapped Hub is located 6' below the pole top and on the same side of pole as hand hole, unless specified otherwise. **4.** Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. **5.** Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

ANCHORAGE DATA



See technical information.

Pole	Anchor Bolt and Template Package	Template Only	Bolt Circle (Inches)	Number of Bolts	Anchor Bolt Size (Inches)
SSA4TxxW	317QB404	229354D	9	4	3/4 x 17 x 3
SSA4MxxW	317QB404	229354D	9	4	3/4 x 17 x 3
SSA5TxxW	317QB405	229357D	11	4	3/4 x 17 x 3
SSA5MxxW	317QB405	229357D	11	4	3/4 x 17 x 3
SSA6MxxW	436QB406	229243D	12-1/2	4	1 x 36 x 4
SSA6XxxW	436QB406	229243D	12-1/2	4	1 x 36 x 4
SSA9XxxW	436QB468	228520D	14-1/4	4	1 x 36 x 4

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number[1,2]	Wall Thickness (Inches)	Base Square[3] (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection[3] (Inches)	Shaft Size[3] (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet)[4]				Max. Fixture Load - Includes Bracket (Pounds)
MH			S	BC	BP	B	D x AB x H		70 mph	80 mph	90 mph	100 mph	
8	SSA4T08W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	23	26.6	19.9	15.2	11.9	350
12	SSA4T12W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	32	16.0	11.5	8.5	6.3	260
15	SSA4T15W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	39	9.1	6.2	4.2	2.8	200
15	SSA4M15W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	55	14.8	10.6	7.7	5.6	200
15	SSA5T15W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	52	16.0	11.3	8.1	5.8	260
18	SSA4T18W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	46	6.4	4.0	2.3	1.1	100
18	SSA4M18W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	66	11.0	7.4	5.0	3.3	150
18	SSA5T18W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	61	11.8	7.8	5.1	3.2	150
18	SSA5M18W	0.188	11-9/16	11	3-1/4	5	3/4 x 17 x 3	85	19.2	13.5	9.6	6.8	260
20	SSA4M20W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	72	8.8	5.6	3.5	1.9	150
20	SSA5T20W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	66	9.5	5.9	3.5	1.7	100
20	SSA5M20W	0.188	11-9/16	11-1/8	3-1/4	5	3/4 x 17 x 3	94	16.4	11.2	7.6	5.0	150
25	SSA5M25W	0.188	11-1/2	11	3-1/4	5	3/4 x 17 x 3	115	10.2	6.0	3.2	1.1	100
25	SSA6M25W	0.188	12-3/4	12-1/2	4	6	1 x 36 x 4	140	16.6	10.6	6.5	3.5	260
30	SSA6X30W	0.250	12-3/4	12-1/2	4	6	1 x 36 x 4	215	14.8	9.0	5.0	2.1	260
30	SSA9X30W[5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	237	21.1	13.5	8.2	4.5	260
35	SSA9X35W[5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	274	14.1	7.6	3.1	--	150

Effective Projected Area (18" Above Pole Top)

Mounting Height (Feet)	Catalog Number[1,2]	Wall Thickness (Inches)	Base Square[3] (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection[3] (Inches)	Shaft Size[3] (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet)[4]				Max. Fixture Load - Includes Bracket (Pounds)
MH			S	BC	BP	B	D x AB x H		70 mph	80 mph	90 mph	100 mph	
8	SSA4T08W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	23	22.2	16.6	12.7	10	350
12	SSA4T12W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	32	14.1	10.1	7.4	5.5	260
15	SSA4T15W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	39	8.2	5.6	3.8	2.5	200
15	SSA4M15W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	55	13.4	9.6	6.9	5.1	200
15	SSA5T15W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	52	14.4	10.2	7.3	5.2	260
18	SSA4T18W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	46	5.9	3.6	2.1	0.9	100
18	SSA4M18W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	66	10.0	6.8	4.6	3.0	150
18	SSA5T18W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	61	10.8	7.2	4.7	2.9	150
18	SSA5M18W	0.188	11-9/16	11	3-1/4	5	3/4 x 17 x 3	85	17.6	12.4	8.8	6.2	260
20	SSA4M20W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	72	8.1	5.2	3.2	1.7	150
20	SSA5T20W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	66	8.8	5.5	3.2	1.5	100
20	SSA5M20W	0.188	11-9/16	11-1/8	3-1/4	5	3/4 x 17 x 3	94	15.2	10.3	7.0	4.7	150
25	SSA5M25W	0.188	11-1/2	11	3-1/4	5	3/4 x 17 x 3	115	9.5	5.6	3.0	1.0	100
25	SSA6M25W	0.188	12-3/4	12-1/2	4	6	1 x 36 x 4	140	15.6	9.9	6.1	3.3	260
30	SSA6X30W	0.250	12-3/4	12-1/2	4	6	1 x 36 x 4	215	14.0	8.5	4.7	2.0	260
30	SSA9X30W[5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	237	20.0	12.8	7.8	4.3	260
35	SSA9X35W[5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	274	13.5	7.2	2.9	--	150

NOTES:
1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.
2. Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.
5. Factory installed vibration damper.

VIBRATION

Vibrations may cause damage to structures, including poles. Vibrations are unpredictable, and there are many factors and variables that can cause damaging vibrations. Many wind conditions exist that can create damaging vibrations to poles and luminaires, such as constant winds between 10-30 mph. Although all pole types can experience vibration, straight square poles seem to be most prone. Vibration dampers and/or a round tapered design may be used to mitigate damage from vibrations, but there is no guarantee damaging vibrations will be prevented. Vibration dampers are not included with this pole but can be ordered separately. Consult with a professional, and local and federal standards, to ensure this pole is appropriate for the intended purpose and installation location. Refer to Cooper Lighting Solutions' Light Pole White Paper for risk factors and design considerations.

MAINTENANCE

Perform inspections periodically. A prudent inspection schedule would be: one week after installation, one month after installation, yearly after installation, and following any major wind event. During the inspection, check the poles for cracks. If cracks are detected, remedial action is required. Recheck anchor bolt torques and re-tighten according to the recommended torque values. Check for missing covers and pole caps and replace as necessary. Check the pole for corrosion and deterioration of the finish. Should there be corrosion or deterioration, take remedial action to correct.

WARNING: Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to pole white paper WP513001EN for additional support information. Before installing, make sure proper anchor bolts and templates are obtained. The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty and may result in pole failure causing serious injury or property damage. Information regarding total loading capacity can be supplied upon request. The pole warranty is void unless poles are used and installed as a complete pole and luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutions or visit www.cooperlighting.com for available options, accessories and ordering information.

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Canada Sales
5925 McLaughlin Road
Mississauga, Ontario L5R 1B8
P: 905-501-3000
F: 905-501-3172

Specifications and dimensions subject to change without notice.

LB POLE

Aluminum Poles

SSA SQUARE STRAIGHT ALUMINUM

Catalog #	SSA-5-T-15-W-N-1	Type
Project		
Comments		Date
Prepared by		

FEATURES
- Straight square shaft 6005-T6 aluminum alloy polished
- 356-T6 cast aluminum alloy base with aluminum knock-in bolt covers
- 8'-35' mounting heights
- Drilled or tenon (specify)

DESIGN CONSIDERATIONS - VIBRATIONS AND NON-GROUND MOUNTED INSTALLATIONS

The information contained herein is for general guidance only and is not a replacement for professional judgment. Design considerations for wind-induced vibrations and non-ground mounted installations (e.g., installations on bridges or buildings) are not included in this document. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Refer to the Cooper Lighting Solutions Light Pole White Paper for risk factors and design considerations. Learn more.

NOTE: The Limited Warranty for this product specifically excludes fatigue failure or similar damage resulting from vibration, harmonic oscillation or resonance.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutinos or visit www.cooperlighting.com for available options, accessories and ordering information.

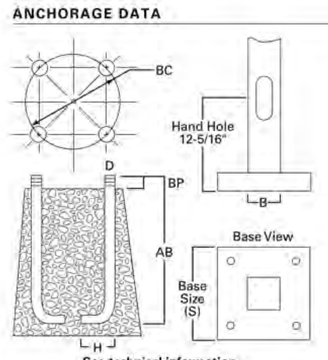
ORDERING INFORMATION

SAMPLE NUMBER: SSA4T08WXM1G

Product Family	Shaft Size (Inches)[1]	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Options (Add as Suffix)
SSA=Square Straight Aluminum	**4**=4" **5**=5" **6**=6" **9**=9" Steel; 6-3/4" Aluminum	**T**=0.125" **M**=0.188" **X**=0.250"	**08**=8' **10**=10' **12**=12' **15**=15' **18**=18' **20**=20' **25**=25' **30**=30' **35**=35'	**W**=Aluminum	**A**=Satin Brushed Aluminum **B**=Clear Anodized **C**=Dark Bronze Anodized **D**=Black Anodized **E**=Medium Bronze Anodized **F**=Dark Bronze **J**=Summit White **K**=Carbon Bronze **L**=Dark Platinum **R**=Hartford Green **S**=Silver **T**=Graphite Metallic **V**=Grey **W**=White **X**=Custom Color **BK**=Black Smooth **BT**=Black Textured	**2**=2-3/8" O.D. Tenon (4" Long) **3**=3-1/2" O.D. Tenon (5" Long) **4**=4" O.D. Tenon (6" Long) **9**=3" O.D. Tenon (4" Long) **6**=2-3/8" O.D. Tenon (6" Long) **7**=4" O.D. Tenon (10" Long) **A**=Type A Drilling **C**=Type C Drilling **E**=Type E Drilling **F**=Type F Drilling **G**=Type G Drilling **J**=Type J Drilling **K**=Type K Drilling **M**=Type M Drilling **N**=Type N Drilling **R**=Type R Drilling	**1**=Single **2**=2 at 180° **3**=Triple[2] **4**=4 at 90° **5**=2 at 90° **X**=None	**A**=1/2" Tapped Hub[3] **B**=3/4" Tapped Hub[3] **C**=Convenience Outlet[4] **E**=GFCI Convenience Outlet[4] **F**=Vibration Pad **G**=Ground Lug **H**=Additional Hand Hole[5] **V**=Vibration Dampener

NOTES: 1. All shaft sizes nominal. **2.** Square poles are 3 at 90°, round poles are 3 at 120°. **3.** Tapped Hub is located 6' below the pole top and on the same side of pole as hand hole, unless specified otherwise. **4.** Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. **5.** Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

ANCHORAGE DATA



See technical information.

Pole	Anchor Bolt and Template Package	Template Only	Bolt Circle (Inches)	Number of Bolts	Anchor Bolt Size (Inches)
SSA4TxxW	317QB404	229354D	9	4	3/4 x 17 x 3
SSA4MxxW	317QB404	229354D	9	4	3/4 x 17 x 3
SSA5TxxW	317QB405	229357D	11	4	3/4 x 17 x 3
SSA5MxxW	317QB405	229357D	11	4	3/4 x 17 x 3
SSA6MxxW	436QB406	229243D	12-1/2	4	1 x 36 x 4
SSA6XxxW	436QB406	229243D	12-1/2	4	1 x 36 x 4
SSA9XxxW	436QB468	228520D	14-1/4	4	1 x 36 x 4

COOPER Lighting Solutions
TD513009EN
April 14, 2021 9:31 AM

page 2 SSA SQUARE STRAIGHT ALUMINUM

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number[1,2]	Wall Thickness (Inches)	Base Square[3] (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection[3] (Inches)	Shaft Size[3] (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet)[4]				Max. Fixture Load - Includes Bracket (Pounds)
MH			S	BC	BP	B	D x AB x H		70 mph	80 mph	90 mph	100 mph	
8	SSA4T08W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	23	26.6	19.9	15.2	11.9	350
12	SSA4T12W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	32	16.0	11.5	8.5	6.3	260
15	SSA4T15W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	39	9.1	6.2	4.2	2.8	200
15	SSA4M15W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	55	14.8	10.6	7.7	5.6	200
15	SSA5T15W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	52	16.0	11.3	8.1	5.8	260
18	SSA4T18W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	46	6.4	4.0	2.3	1.1	100
18	SSA4M18W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	66	11.0	7.4	5.0	3.3	150
18	SSA5T18W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	61	11.8	7.8	5.1	3.2	150
18	SSA5M18W	0.188	11-9/16	11	3-1/4	5	3/4 x 17 x 3	85	19.2	13.5	9.6	6.8	260
20	SSA4M20W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	72	8.8	5.6	3.5	1.9	150
20	SSA5T20W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	66	9.5	5.9	3.5	1.7	100
20	SSA5M20W	0.188	11-9/16	11-1/8	3-1/4	5	3/4 x 17 x 3	94	16.4	11.2	7.6	5.0	150
25	SSA5M25W	0.188	11-1/2	11	3-1/4	5	3/4 x 17 x 3	115	10.2	6.0	3.2	1.1	100
25	SSA6M25W	0.188	12-3/4	12-1/2	4	6	1 x 36 x 4	140	16.6	10.6	6.5	3.5	260
30	SSA6X30W	0.250	12-3/4	12-1/2	4	6	1 x 36 x 4	215	14.8	9.0	5.0	2.1	260
30	SSA9X30W[5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	237	21.1	13.5	8.2	4.5	260
35	SSA9X35W[5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	274	14.1	7.6	3.1	--	150

Effective Projected Area (18" Above Pole Top)

Mounting Height (Feet)	Catalog Number[1,2]	Wall Thickness (Inches)	Base Square[3] (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection[3] (Inches)	Shaft Size[3] (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet)[4]				Max. Fixture Load - Includes Bracket (Pounds)
MH			S	BC	BP	B	D x AB x H		70 mph	80 mph	90 mph	100 mph	
8	SSA4T08W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	23	22.2	16.6	12.7	10	350
12	SSA4T12W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	32	14.1	10.1	7.4	5.5	260
15	SSA4T15W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	39	8.2	5.6	3.8	2.5	200
15	SSA4M15W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	55	13.4	9.6	6.9	5.1	200
15	SSA5T15W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	52	14.4	10.2	7.3	5.2	260
18	SSA4T18W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	46	5.9	3.6	2.1	0.9	100
18	SSA4M18W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	66	10.0	6.8	4.6	3.0	150
18	SSA5T18W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	61	10.8	7.2	4.7	2.9	150
18	SSA5M18W	0.188	11-9/16	11	3-1/4	5	3/4 x 17 x 3	85	17.6	12.4	8.8	6.2	260
20	SSA4M20W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	72	8.1	5.2	3.2	1.7	150
20	SSA5T20W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	66	8.8	5.5	3.2	1.5	100
20	SSA5M20W	0.188	11-9/16	11-1/8	3-1/4	5	3/4 x 17 x 3	94	15.2	10.3	7.0	4.7	150
25	SSA5M25W	0.188	11-1/2	11	3-1/4	5	3/4 x 17 x 3	115	9.5	5.6	3.0	1.0	100
25	SSA6M25W	0.188	12-3/4	12-1/2	4	6	1 x 36 x 4	140	15.6	9.9	6.1	3.3	260
30	SSA6X30W	0.250	12-3/4	12-1/2	4	6	1 x 36 x 4	215	14.0	8.5	4.7	2.0	260
30	SSA9X30W[5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	237	20.0	12.8	7.8	4.3	260
35	SSA9X35W[5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	274	13.5	7.2	2.9	--	150

NOTES:
1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.
2. Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.
5. Factory installed vibration damper.

COOPER Lighting Solutions
TD513009EN
April 14, 2021 9:31 AM

page 3 SSA SQUARE STRAIGHT ALUMINUM

VIBRATION

Vibrations may cause damage to structures, including poles. Vibrations are unpredictable, and there are many factors and variables that can cause damaging vibrations. Many wind conditions exist that can create damaging vibrations to poles and luminaires, such as constant winds between 10-30 mph. Although all pole types can experience vibration, straight square poles seem to be most prone. Vibration dampers and/or a round tapered design may be used to mitigate damage from vibrations, but there is no guarantee damaging vibrations will be prevented. Vibration dampers are not included with this pole but can be ordered separately. Consult with a professional, and local and federal standards, to ensure this pole is appropriate for the intended purpose and installation location. Refer to Cooper Lighting Solutions' Light Pole White Paper for risk factors and design considerations.

MAINTENANCE

Perform inspections periodically. A prudent inspection schedule would be: one week after installation, one month after installation, yearly after installation, and following any major wind event. During the inspection, check the poles for cracks. If cracks are detected, remedial action is required. Recheck anchor bolt torques and re-tighten according to the recommended torque values. Check for missing covers and pole caps and replace as necessary. Check the pole for corrosion and deterioration of the finish. Should there be corrosion or deterioration, take remedial action to correct.

WARNING: Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to pole white paper WP513001EN for additional support information. Before installing, make sure proper anchor bolts and templates are obtained. The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty and may result in pole failure causing serious injury or property damage. Information regarding total loading capacity can be supplied upon request. The pole warranty is void unless poles are used and installed as a complete pole and luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutions or visit www.cooperlighting.com for available options, accessories and ordering information.

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Canada Sales
5925 McLaughlin Road
Mississauga, Ontario L5R 1B8
P: 905-501-3000
F: 905-501-3172

Specifications and dimensions subject to change without notice.

COOPER Lighting Solutions
TD513009EN
April 14, 2021 9:31 AM

ROCHESTER HILLS MICHIGAN

MATRIX CONSULTING ENGINEERS, INC.

SEAL

STATE OF MICHIGAN
JOSEPH F. SOVIS, JR.
ENGINEER NO. 42247
LICENSED PROFESSIONAL ENGINEER

PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
ELECTRICAL POLE CUT SHEETS

811 Know what's below Call before you dig.

DATE	ISSUED / REVISED

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
ROCHESTER HILLS MICHIGAN
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

DRAWN BY: BAE
DESIGNED BY: BAE
APPROVED BY: JFS
DATE: 03/**/2019
SCALE:

NFE JOB NO. 0557
SHEET NO. E-808

LC POLE

urbanline

SternbergLighting
ESTABLISHED 1923

10' TO 30' SQUARE STRAIGHT ALUMINUM POLES (SSA)

Job Name
Client Name
Job Location
Created By
Date
Product SSA12G400
Quote
Customer Approval
Date

Sternberg Model	Pole Height	Shaft Size	Wall Thick-ness	Slotted SQ Base Width	Base Thick-ness	Handhole Size	Weight LBS	Bolt Circle	Bolt Proj +/-.25	DBL Nutted Anchor bolt ASTM F1554 GRADE 55 Galv Thread	Max Loading Capacities								Base Cover Options
											90 MPH 1.3-SEC. Gust		110 MPH 1.3-SEC GUST		130 MPH 1.3-SEC GUST		150 MPH 1.3-SEC Gust		
											MAX EPA 1 (SQ FT)	MAX WEIGHT (lbs)	MAX EPA 1 (SQ FT)	MAX WEIGHT (lbs)	MAX EPA 1 (SQ FT)	MAX WEIGHT (lbs)	MAX EPA 1 (SQ FT)	MAX WEIGHT (lbs)	
SSA10G400	10	4	0.125	9.94	0.375	2"x4"	39	8.5"-9.63"	3.13	3/4"	8.7	260	5.1	260	3.1	260	1.8	260	2403-4, ML900-4
SSA12G400	12	4	0.125	9.94	0.375	2"x4"	43	8.5"-9.63"	3.13	3/4"	6.5	260	3.5	260	1.8	260	0.7	260	2403-4, ML900-4
SSA14G400	14	4	0.125	9.94	0.375	2"x4"	48	8.5"-9.63"	3.13	3/4"	4	200	1.9	200	0.7	200	-	200	2403-4, ML900-4
SSA16G400	16	4	0.125	9.94	0.375	2"x4"	52	8.5"-9.63"	3.13	3/4"	2.7	200	0.8	200	-	200	-	200	2403-4, ML900-4
SSA16T400	16	4	0.188	9.94	0.375	2"x4"	61	8.5"-9.63"	3.13	3/4"	5.4	200	2.6	200	1	200	-	200	2403-4, ML900-4
SSA18G400	18	4	0.125	9.94	0.375	2"x4"	57	8.5"-9.63"	3.13	3/4"	1.8	100	-	100	-	100	-	100	2403-4, ML900-4
SSA18T400	18	4	0.188	9.94	0.375	2"x4"	68	8.5"-9.63"	3.13	3/4"	4.1	150	1.6	150	-	150	-	150	2403-4, ML900-4
SSA18T500	18	5	0.188	11.56	0.500	2"x4"	87	10.5"-11.5"	3.25	3/4"	8.1	260	4	260	1.6	260	-	260	2403-5, ML900-5
SSA20T400	20	4	0.188	9.94	0.375	2"x4"	75	8.5"-9.63"	3.13	3/4"	2.8	150	-	150	-	150	-	150	2403-4, ML900-4
SSA20T500	20	5	0.188	11.56	0.500	2"x4"	96	10.5"-11.5"	3.25	3/4"	6.5	150	2.7	150	-	150	-	150	2403-5, ML900-5
SSA20T600	20	6	0.188	12.75	0.563	2-5/8"x5"	151	12"-13"	4.00	1.0"	11.4	150	5.6	150	2.2	150	-	150	2404-6
SSA20E600	20	6	0.250	12.75	0.563	2-5/8"x5"	184	12"-13"	4.00	1.0"	16.4	260	8.9	260	4.6	260	1.9	260	2404-6
SSA25T500	25	5	0.188	11.56	0.500	2"x4"	118	10.5"-11.5"	3.25	3/4"	2.7	100	-	100	-	100	-	100	2403-5, ML900-5
SSA25T600	25	6	0.188	12.75	0.563	2-5/8"x5"	177	12"-13"	4.00	1.0"	5.7	260	1.1	260	-	260	-	260	2404-6
SSA25E600	25	6	0.250	12.75	0.563	2-5/8"x5"	219	12"-13"	4.00	1.0"	9.9	260	3.9	260	-	260	-	260	2404-6
SSA30E600 *	30	6	0.250	12.75	0.563	2-5/8"x5"	253	12"-13"	4.00	1.0"	4.4	260	-	260	-	260	-	260	2404-6

CROSS SECTION
SSA

SSA = Square Straight Aluminum

MODEL NUMBER

SSA10G400 SSA20T400
SSA12G400 SSA20T500
SSA14G400 SSA20T600
SSA16G400 SSA20E600
SSA16T400 SSA25T500
SSA18G400 SSA25T600
SSA18T400 SSA25E600
SSA18T500 SSA30E600*

* Indicates vibration dampener installed

FIXTURE MOUNTING

Drill Mounting
D1 = 1 Luminaire
D2 = 2 @ 180°
D4 = 4 @ 90°
D5 = 2 @ 90°
D6 = 3 @ 90°

Tenon Mounting
P2 = 2.38" OD x 4.00"
P3 = 3.00" OD x 3.00"
P4 = 4.00" OD x 6.00"

BASE COVER

2403-4
2403-5
2404-6
ML900-4
ML900-5

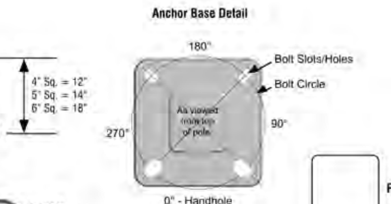
OPTIONS

See Accessories at www.sternberglighting.com (Please specify with code)

COLOR

UGMT - Urban Gun Metal Textured
UGM - Urban Gun Metal Matte
UBT - Urban Bronze Textured
USLT - Urban Silver Textured
UWHT - Urban White Textured
UB - Urban Bronze Matte
USL - Urban Silver Matte
UWH - Urban White Matte
BKT - Black Textured

Anchor Base Detail



4", 5" or 6" Rounded Corner Profile .75" Corner Radius

CLICK FOR FAQ's

OPTIONAL BASE COVERS

Square 2403
13" Sq. x 6-1/2" H
Throat Size 4" or 5" Sq.
2403-4
2403-5

Square 2404
14-1/2" Sq. x 7-1/4" H
Throat Size 6" Sq.
2404-6

Square ML900
17.4" Sq. x 5.9" H
Throat Size 4" or 5" Sq.
ML900-4
ML900-5

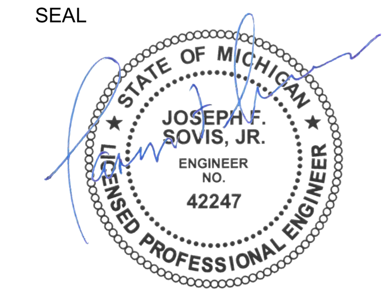
800-621-3376 | 555 Lawrence Ave., Roselle, IL 60172 | contactus@sternberglighting.com | www.sternberglighting.com

* Factory installed vibration damper.

ROCHESTER HILLS
MICHIGAN

MATRIX
CONSULTING ENGINEERS, INC.

SEAL



PROJECT
Nowicki Park
Site Improvements

CLIENT
City of Rochester Hills
Parks & Natural Resources
1000 Rochester Hills Dr.
Rochester Hills, MI 48309

CONTACT
Mr. Ken Elwet, CPRE
Ph.: 248-656-4673
elwertk@rochesterhill.org

PROJECT LOCATION
Part of the NW 1/4
Section 8
T-3-N, R-11-E
City of Rochester Hills,
Oakland County, Michigan

Sheet
ELECTRICAL POLE CUT SHEETS

811
Know what's below
Call before you dig.

DATE	ISSUED / REVISED

DRAWN BY: BAE
DESIGNED BY: BAE
APPROVED BY: JFS
DATE: 03/**/2019
SCALE:

PROJECT: J2025-0235/PSP2025-0014
REVISION: #1
RECIEVED: 9/11/2025
ROCHESTER HILLS MICHIGAN
PLANNING & ECONOMIC DEVELOPMENT DEPARTMENT

NFE JOB NO. 0557
SHEET NO. E-809

Autodesk Docs://Nowicki Park/250059.00 - Nowicki Park - MEP - R23.rvt

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Fax: 810.225.3800

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September 16, 2025

Chris McLeod, Planning Manager
Department of Planning and
Economic Development
City of Rochester Hills
1000 Rochester Hills Drive
Rochester Hills, MI 48309-3033

Subject: **Nowicki Park Development**
Sidwell Nos. 15-08-100-006, -007, -008, -151-001, & -151-002
Wetland Site Plan Review #2
Site Plans dated September 9, 2025
ASTI File No. A25-0125.05

Applicant: **Nowak and Fraus Engineers c/o Steven Sutton, P.E.**

Dear Mr. McLeod:

The above-referenced project proposes to construct four public buildings, a walking trail system, a public parking area, and a dog park area on approximately 40 acres of land located along Adams Road, south of Tienken Road, at the Nowicki Park facility. The site includes wetland regulated by the City of Rochester Hills and also likely regulated by the Michigan Department of Environment, Great Lakes, and Energy (EGLE).

ASTI has reviewed the site plans received by the City dated September 9, 2025 (Current Plans) for conformance to the Wetland and Watercourse Protection Ordinance and the Natural Features Setback Ordinance and offers the following comments for your consideration.

COMMENTS

1. **Applicability of Chapter (§126-500).** The Wetland and Watercourse Protection Ordinance is applicable to the subject site because the subject site is not included within a site plan which has received final approval, or a preliminary subdivision plat which received approval prior to January 17, 1990, which approval remains in effect and in good standing, and the proposed activity has not been previously authorized.

2. **Wetland and Watercourse Determinations (§126-531).** This Section lists specific requirements for completion of a Wetland and Watercourse Boundary Determination.

   a. This review has been undertaken in the context of a valid Wetland and Watercourse Boundary Determination completed on the site, which was finalized by ASTI on April 21, 2025. The Current Plans show all wetland areas accurately, show wetland flagging alpha-numeric labeling, and are labeled per the ASTI report. The applicant is advised that wetland delineations are only considered valid by EGLE and the City for a period of three years.

b. Eight wetlands were found on-site as shown on the Current Plans (Wetlands A, B, C, D, E, F, G, and H/I). Their quality assessments are below.

Wetland A Quality Assessment

Wetland A, which is regulated by the City, is a forested wetland in the southeastern portion of the site. Wetland A was dominated by the native tree species of red maple (*Acer rubrum*) with supporting native tree species of silver maple (*Acer saccharinum),* cottonwood (*Populus deltoides*), and American elm (*Ulmus americana*); the majority of the trees observed within Wetland A were moderately mature. The shrub layer was sparse and included the common native species of green ash (*Fraxinus pennsylvanica)* and gray dogwood (*Cornus racemosa*). Invasive shrub species observed within Wetland A included multiflora rose (*Rosa multiflora*), which was a minor component in the shrub layer. Herbaceous vegetation coverage was sparse and was dominated the common native species of riverbank wild rye (*Elymus riparius*) and poison ivy (*Toxicodendron radicans*). Overall, vegetation within Wetland A was dominated by native species with minor invasive species inclusions.

Soils within Wetland A were comprised of sandy loams and appeared to be a natural and undisturbed state. No surface water was observed within Wetland A on the days of the site inspections. Wetland A is a part of a larger wetland system that continues off-site to the east but, based on its estimated total size (~3 acres) and because it is within a highly urbanized area, does not have the potential to provide significant wildlife habitat beyond typical backyard urban species. Based on these factors, it is ASTI's opinion that Wetland A is of medium ecological quality and should be considered a valuable natural resource to the City.

Wetland B Quality Assessment

Wetland B, which is regulated by the City, is a forested and emergent wetland in the south-central portion of the site. The forested portion was dominated by the native tree species of silver maple and cottonwood with supporting native species of green ash and box elder (*Acer negundo*); the majority of the trees observed within Wetland B were mature to moderately mature. The shrub layer was sparse and included the common native species of green ash and cottonwood. Invasive shrub species observed within Wetland B included multiflora rose, which was a minor component in the shrub layer. Herbaceous vegetation coverage was sparse and was dominated the native species of riverbank wild rye, calico aster (*Symphyotrichum lateriflorum*), and poison ivy.

Surface water was observed within the forested portion of Wetland B on the days of the site inspections. Overall, vegetation within the forested portion of Wetland B was dominated by native species with little non-native species.

The emergent portion of Wetland B was observed north of the forested portion; two small, forested areas were also located in this area. The emergent portion of Wetland B was dominated by the non-native species of creeping bentgrass (*Agrostis stolonifera*), purple loosestrife (*Lythrum salicaria*), and reed canary grass (*Phalaris arundinacea),* which comprised approximately 95% of all vegetation within the emergent portion of Wetland B. Herbaceous coverage was thick at the time of the inspection by ASTI. The two small, forested areas of Wetland B within the emergent portion were dominated by very young stands of cottonwood, which is a common native succession species. Shrub coverage across the emergent portion of Wetland B was sparse and sporadic and was comprised of the common native species of gray dogwood, cottonwood, and box elder. Overall, vegetation within the emergent portion of Wetland B was dominated by non-native species (~95%). ASTI observed multiple areas of sporadic surface water within the emergent portion along with multiple areas of saturated soils.

Overall soils within Wetland B were comprised of sandy clayey loams in the forested portion and sandy loams in the emergent portion (including the small, forested portion within the emergent portion) and appeared to be in a natural state.

The forested portion of Wetland B was of high-quality as it was dominated by native species that included multiple mature wetland trees; the emergent portion of Wetland B was dominated by non-native species (~95%). Wetland B extends off-site to the south but to a minimal extent making its estimated total acreage approximately four acres in size (3.58 on-site) making it a relatively small wetland. For all the reasons described above and for the fact Wetland B is surrounded by urban development, it has low potential to provide locally diverse wildlife habitat but does offer adequate ecological functions associated with wetlands (water detainment, infiltration, etc.). Based on these factors, it is ASTI's opinion that the forested portion of Wetland B should be considered a high-quality wetland area and should be considered a valuable natural resource to the City. Conversely, the emergent portion of Wetland B (including the two small, forested portions observed within) is of low-ecological quality and should not be considered a valuable natural resource to the City.

Wetland C Quality Assessment

Wetland C, which is not regulated by the City, is a forested and emergent wetland in the east-central portion of the site. The forested portion was dominated by the native tree species of silver maple and cottonwood with supporting native species of green ash; the trees observed within Wetland B were young. The shrub layer was sparse and included the common native species of green ash and cottonwood. Herbaceous vegetation coverage was very sparse and was dominated the native species of fowl manna grass (*Glyceria striata*). Surface water was observed within the forested portion of Wetland C on the days of the site inspections. Overall, vegetation within the forested portion of Wetland C was dominated by native species with little non-native species.

The emergent portion of Wetland C was dominated by the non-native species of creeping bentgrass, purple loosestrife, and reed canary grass (approximately 95% of all vegetation within the emergent portion of Wetland C). Herbaceous coverage was thick at the time of the inspection by ASTI. Shrub coverage across the emergent portion of Wetland C was very sparse and included individuals of gray dogwood and cottonwood. Overall, vegetation within the emergent portion of Wetland C was dominated by non-native species (~95%). ASTI did not observe any areas of surface water within the emergent portion.

Overall, soils within Wetland C were comprised of sandy clayey loams that appeared to be in a natural state.

The forested portion of Wetland C was of medium-quality vegetation-wise as it was dominated by native species including young wetland trees; the emergent portion of Wetland C was dominated by non-native species (~95%) and of low ecological quality. Wetland B extends off-site to the east but to a minimal extent making its estimated total acreage approximately 0.6 acres in size (0.55 acres on-site) making it a very small wetland. For all the reasons described above and for the fact Wetland C is surrounded by urban development, it has low potential to provide locally diverse wildlife habitat and can only offer minimal ecological functions associated with wetlands. Based on the factors stated above, it is ASTI's opinion that Wetland C should not be considered a valuable resource to the City.

Wetland D Quality Assessment

Wetland D, which is not regulated by the City, is a forested and emergent wetland in the southwestern portion of the site. The forested portion was dominated by the native tree species of green ash; trees observed within Wetland D were young. The shrub layer was sparse and included the common native species of green ash and cottonwood. Herbaceous vegetation coverage was very sparse and was dominated the non-native species of creeping bentgrass. Surface water was not observed within the forested portion of Wetland D on the days of the site inspections, but ASTI did observe saturated soils. Overall, vegetation within the forested portion of Wetland D was dominated by common young native tree species with the emergent layer dominated by non-native species.

The emergent portion of Wetland D was dominated by the non-native species of creeping bentgrass and curly dock (*Rumex cripus*) along with the common native species of fox sedge (*Carex vulpinoidea*); coverages of non-native and native species were generally equal (50% each). Herbaceous coverage was thick at the time of the inspection by ASTI. Tree and shrub coverage across the emergent portion of Wetland D was absent. Overall, vegetation within the emergent portion of Wetland D was distributed equally between non-native and common native species. ASTI did not observe any areas of surface water within the emergent portion.

Overall soils within Wetland D were comprised of sandy clayey loams that appeared to be in a natural state.

The forested portion of Wetland D was of low-quality vegetation-wise as it was dominated by native species including young wetland trees; the emergent portion of Wetland D was dominated by common native and non-native species (50% each) and of low ecological quality. Wetland D does not extend outside the site and was 0.26 acres in size, making it a very small wetland. For all the reasons described above and for the fact Wetland D is surrounded by urban development, it has low potential to provide locally diverse wildlife habitat and can only offer minimal ecological functions associated with wetlands. Based on the factors above, it is ASTI's opinion Wetland D should not be considered a valuable resource to the City.

Wetland E Quality Assessment

Wetland E, which is not regulated by the City, is a forested wetland in the west-central portion of the site. Wetland E was dominated by the common species of green ash, which were young, with inclusions of the non-native species of European buckthorn (*Rhamnus cathartica)* at approximately 15%. The shrub layer was sparse and included the same species in similar distribution. Herbaceous vegetation coverage was very sparse and was dominated green ash and European buckthorn saplings. Water was not observed within Wetland E, but surface water indicators (water marks on trees) were observed. Overall, vegetation within Wetland E was dominated by native species with non-native inclusions (~15%). Soils within Wetland E were comprised of sandy loams that appeared to be in a natural state.

Wetland E was comprised of low-quality vegetation as it was dominated by common native species within non-native inclusions and is of low ecological quality. Wetland E is located completely on-site and very small (0.26 acres). For all the reasons described above and for the fact Wetland E is surrounded by urban development, it has low potential to provide locally diverse wildlife habitat and can only offer minimal ecological functions associated with wetlands. Based on the factors above, it is ASTI's opinion Wetland E should not be considered a valuable resource to the City.

Wetlands F and H/I Quality Assessment
Wetlands F and H/I are connected off-site to the north and are a portion of the same wetland complex and are of similar composition, and, thus, will be discussed together for qualitative purposes. Both Wetlands F and H/I are regulated by the City and likely EGLE. These wetlands are both forested wetlands located in the northern portion of the site. They were dominated by the native tree species of silver maple, cottonwood, and green ash and were young to moderately mature. The shrub layer was dominated by green ash and American elm saplings with inclusions of the non-native species glossy buckthorn (*Frangula alnus*), which comprised approximately 20% of the shrub layer. Herbaceous vegetation coverage was sparse and was dominated the native species of calico aster, panicled aster (*Symphyotrichum lanceolatum*) with significant inclusions of the non-native species of reed canary grass, especially in Wetland F. Surface water was observed within these wetlands during ASTI's site inspections. Overall, vegetation within these wetlands was dominated by native species with non-native inclusions (~15%). Soils within Wetlands F and H/I were comprised of sands and sandy clayey loams that appeared to be in a natural state.

Wetlands F and H/I were of medium-quality vegetation-wise as they were dominated by native species including young to moderately mature wetland trees. Wetlands F and H/I both extend into the same wetland complex approximately 2-4 aces in size that is part of a small riparian corridor to the north of the site that provides shade/water cooling and natural buffering to a small off-site watercourse off-site to the north. However, because it is surrounded by urban development, it has low potential to provide locally diverse wildlife habitat. Although it is small, it does provide water filtration, clarification, and other realized functions to the off-site water course. Based on the factors above, it is ASTI's opinion that Wetlands F and H/I are of medium to high ecological quality and function and should considered valuable natural resources to the City.

Wetland G Quality Assessment
Wetland G, which is not regulated by the City, is a forested and emergent wetland in the central portion of the site. The forested portion was dominated by the native tree species of green ash; trees observed within Wetland G were young. The shrub layer was sparse and included the common native species of green ash and cottonwood. Herbaceous vegetation coverage was very sparse and was dominated the non-native species of reed canary grass. Surface water was not observed within the forested portion of Wetland G on the days of the site inspections, but ASTI did observe saturated soils. Overall, vegetation within the forested portion of Wetland G was dominated by common young native tree species with the emergent layer dominated by non-native species.

The emergent portion of Wetland G was dominated by the non-native species of purple loosestrife and reed canary grass, which comprised approximately 95% of all vegetation within the emergent portion of Wetland G. Herbaceous coverage was thick at the time of the inspection by ASTI. Shrub coverage across the emergent portion of Wetland G was sparse and sporadic and was comprised of the common native species of cottonwood. Overall, vegetation within the emergent portion of Wetland G was dominated by non-native species (~95%). ASTI observed multiple areas of sporadic saturated soils in this area.

Overall soils within Wetland G were comprised of sandy clayey loams that appeared to be in a natural state.

The forested portion of Wetland G was of low-quality vegetation-wise as it was dominated by native species comprised of young wetland trees; the emergent portion of Wetland G was dominated by non-native species (~95%) and of low ecological quality. Wetland G does not extend outside the site and was 0.26 acres in size, making it a very small wetland. For all the reasons described above and for the fact Wetland G is surrounded by urban development, it has low potential to provide locally diverse wildlife habitat and can only offer minimal ecological functions associated with wetlands. Based on the factors above, it is ASTI's opinion Wetland G should not be considered a valuable resource to the City.

3. **Use Permit Required (§126-561).** This Section establishes general parameters for activity requiring permits, as well as limitations on nonconforming activity. This review of the Current Plans has been undertaken in the context of those general parameters, as well as the specific requirements listed below.

   a. On-site wetland boundaries are shown accurately on the Current Plans as inspected in the field by ASTI on April 21, 2025, for the purposes of this review.

      -Wetlands H/I and F are regulated by the City and likely EGLE because they are within, or directly connected to, a watercourse off-site to the north of the property that meets the definition of a stream under Part 301.

      -Wetlands A and B are regulated by the City and not likely regulated by EGLE because they are both greater than two acres in size but less than five acres total size including off-site extents.

      -Wetlands C, E, D, and G, are not regulated by the City and not likely regulated by EGLE because they are all isolated and less than two acres in total size.

   b. The Current Plans include a "Wetlands Impacts Exhibit" sheet that provide some detail pertaining to proposed wetland impacts. This sheet shows that no impacts are proposed to City-and EGLE-regulated Wetlands A, F, or H/I and that 1.26 acres of impacts will occur within City-regulated Wetland B. Wetlands C, D, E, and G are not regulated by the City and any proposed impacts are not required to be shown on revised plans. The Current Plans also now show all proposed individual City-regulated wetland impacts in square feet. This is to ASTI's satisfaction.

c. The Current Plans indicate that 44,597[2] (1.02 acres) of the western portion of Wetland B will be impacted from the construction of a wetland viewing platform and from an open water area, which is proposed to be excavated to a depth of approximately six feet. Although this impact is proposed in a low-quality portion of Wetland B, this impact is significant and entails the excavation of approximately 7,500 cubic yards (cyds) of wetland soils and subsoils, all of which could be below the existing groundwater levels on-site. Construction of the open water area within Wetland B has the potential to have adverse effects on the remaining portion of Wetland B. Based on information supplied by the Applicant and from on-site inspection data, ASTI's opinion on this matter is expressed below:

-The soils within Wetland B are comprised of sand and sandy loams; these types of soils have high hydraulic conductivity rates for water. The excavation of Wetland B in the proposed open water pond area could direct and concentrate groundwater through the sandy soils to the proposed open water area and thereby effectively draining portions of Wetland B not proposed for impact and, thus, potentially losing additional City-regulated wetland acreage. The Current Plans have raised impact amounts to Wetland B by 0.22 acres more (~21% more) within the low-quality emergent portion for pond creation, raising the proposed impacts to Wetland B for this action to 1.02 acres. This assumption is prudent in ASTI's opinion based on reviewed data and on-site inspections.

-The applicant also provided soil boring log data along with the Current Plans. These logs were reviewed to determine if the high-quality area of Wetland B was up or down gradient of the low-quality area of Wetland B and if the creation of the proposed pond in the low-quality area of Wetland B would adversely affect the current hydrology of the high-quality area of Wetland B. The soil boring logs collected show a clay layer approximately two feet below ground surface overlain by sandy soils in the southern portion of Wetland B within the high-quality area. The low-quality area of Wetland B within the proposed pond creation area exhibits a much deeper clay layer (approximately seven feet below ground surface) with the upper seven feet of the soil profile being a sandy layer. The shallower clay layer within the high-quality portion of Wetland B indicated it is up gradient of any surface water or ground water movement and also indicates that surface and/or groundwater flow is from the south to north within Wetland B and, thus, the low-quality portion of Wetland B receives hydrological inputs from the high-quality portion of Wetland B. Moreover, topographic data also indicates the high-quality portion of Wetland B is at a higher topographic elevation than the low-quality area (approximately two to four feet higher). Thus, it is ASTI's opinion that the hydrology of the high-quality portion of Wetland B will not be adversely affected from the creation of the pond area in the low-quality portion of Wetland B. No hydrological monitoring will be necessary within Wetland B going forward.

-These proposed impacts to Wetland B are significant. However, the portion of Wetland B to be impacted as described above is of low ecological quality and dominated by invasive species. Moreover, the Applicant has assumed that some additional wetland may be impacted from the construction of the pond (0.22 more than the proposed pond of 0.80 acres, which is a prudent assumption based on Wetland B soils and surrounding soils (as described by supplies soil boring logs) and on-site hydrology as observed by ASTI. Soil boring logs also indicate no impacts to wetland hydrology from the pond construction will occur to the higher quality portion of Wetland B to the south. Furthermore, the benefit to the City residents outweighs preserving the low-quality portion of Wetland B in its existing form. Lastly, the proposed pond area may also attract wildlife (waterfowl, other birds and mammals, etc.) thereby increasing the ecological value of Wetland B and, along with the proposed viewing platform, increase aesthetic values of the park development for City residents. All of these impacts to Wetland B are shown on the Current Plans to ASTI's satisfaction. Therefore, ASTI recommends the City allow for these impacts as proposed.

d. The Current Plans do not indicate where the approximately 7,500 cubic yards of excavated material from Wetland B are proposed to be deposited. The Applicant has stated that all dredged wetland soils will remain on-site and will be utilized as part of the construction of the Nowicki Park developments within upland areas and/or within wetland areas proposed to be impacted; no additional fill will be deposited within any remaining City-regulated wetlands on-site. This is to ASTI's satisfaction.

e. The Current Plans show that 4,035 ft^2 of Wetland B will be impacted from the construction of three boardwalk crossings within the north/northeastern and southern portions of Wetland B. It is ASTI's opinion that the proposed boardwalks represent only temporary impacts to Wetland B and will promote foot traffic over Wetland B, not through it, which could cause unforeseen impacts. These impacts are shown on the Current plans to ASTI's satisfaction. Therefore, ASTI recommends the City allow for these impacts.

f. The Current Plans show that 6,183 ft^2 of permanent impacts to Wetland B will occur from the construction of a parking area in the southwestern portion of the site. These impacts are small and should not adversely affect any of the remaining portions of Wetland B. Moreover, this portion of Wetland B is of low quality being comprised of a very young successional forest, which was dominated by the common native species of box elder, green ash and the non-native species of glossy buckthorn, generally in equal distribution. Moreover, it is ASTI opinion these impacts are proposed in the most logical area for this portion of the infrastructure to be constructed (directly off Adams Road) and are acceptable when compared to the community benefits from the overall construction of the Nowicki Park infrastructure. These impacts are shown on the Current Plans to ASTI's satisfaction. Therefore, ASTI recommends the City allow for these impacts.

g. Post construction, a City-approved wetland seed mix comprised of native Michigan species must be installed in any areas of unplanned impacts to any City-regulated wetlands on-site. This is shown on the Current Plans to ASTI's satisfaction.

4. **Use Permit Approval Criteria (§126-565).** This Section lists criteria that shall govern the approval or denial of an application for a Wetland Use Permit. The following items must be addressed on a revised and dated Wetland Use Permit application and additional documentation submitted for further review:

   a. A Wetland Use Permit from the City is required for this project as proposed per the Current Plans. It is ASTI's opinion that an EGLE permit will not be required for this project as proposed. However, EGLE should be contacted to confirm this assertion. Any applicable permits from EGLE and any other applicable agencies must be obtained by the applicant prior to construction activities.

5. **Natural Features Setback (§21.23).** This Section establishes the general requirements for Natural Features Setbacks and the review criteria for setback reductions and modifications.

   a. The Current Plans show Natural Features Setback areas associated with City-regulated wetland accurately and all individual impacts to these Natural Features Setback areas are now shown in linear feet. This is to ASTI's satisfaction. Wetlands C, D, E, and G are not regulated by the City and any proposed impacts to their respective Natural Features Setback areas are not required to be shown.

   b. This review is based on calculated Natural Features Setback impacts as shown on the Current Plans. Natural Features Setback areas and impacts to them were only assessed to those Natural Features Setback areas associated with City-regulated wetlands (Wetlands A, B, H/I, and F). Quality assessments of those Natural Features Setback areas are below:

   Wetland A Natural Features Setback Quality Assessment
   The Natural Features Setback around Wetland A was comprised of moderately mature forest vegetation. Vegetation in the tree layer was dominated by the native species of white oak (*Quercus alba*), red oak (*Quercus rubra*), linden (*Tilia americana*), cottonwood, and silver maple. The tree canopy in this area was thick and estimated at 80-90%. The shrub layer was sparse and was dominated by the native species of white ash (*Fraxinus americana*). The herbaceous layer was also sparse at the time of the site inspection and was dominated by the common native species of pretty sedge (*Carex woodi*), avens (*Geum canadense*), with sparse inclusions of the non-native species of multiflora rose.

   The Natural Features Setback around Wetland A was dominated by common to high-quality native species (95%) with non-native species inclusions (5%) and, thus, it should be considered a high-quality buffer to Wetland A.

Wetland B Natural Features Setback Quality Assessment
The Natural Features Setback around Wetland B was comprised of old-field herbaceous vegetation. Vegetation in the herbaceous layer was dominated by the non-native species of smooth brome (*Bromus inermis*), wild carrot (*Daucus carota*), Kentucky blue grass (*Poa pratensis*), multiflora rose, and orchard grass (*Dactylis glomerata*), along with the common native species of tall goldenrod (*Solidago altissma*), heath aster (*Symphyotrichum ericoides*), and red raspberry (*Rubs ideaus*); the shrub layer was sporadic and was dominated by the non-native species of glossy buckthorn, autumn olive (*Elaeagnus umbellata*) and Callery pear (*Pyrus calleryana*); the tree layer was very sparse and was dominated by the common native species of box elder and black cherry (*Prunus serotina*). The Natural Features Setback around Wetland B was dominated by non-native species (75%) with common native species inclusions (25%). Due to the Natural Features Setback being generally dominated by non-native species, it should be considered a low-quality buffer to Wetland B.

Wetland F Natural Features Setback Quality Assessment
The Natural Features Setback around Wetland F was comprised of regularly mowed lawn area and young forest area. The regularly mowed area was dominated by typical lawn species such as Kentucky bluegrass, clover species (*Trifolium* spp.), common plantain (*Plantago major*), and ground ivy (*Glechoma hederacea).* Trees and shrubs were absent in this portion of Wetland F's Natural Features Setback. The young, forested area portion was dominated by the common native tree species of box elder and black walnut. The tree canopy in this area was sparse and estimated at 50%. The shrub layer was moderate (40%) and was dominated by the non-native species of Callery pear and autumn olive. The herbaceous layer was also moderate at the time of the site inspection and was dominated by the common native species of prunella (*Prunella vulgaris*), tall goldenrod, Kentucky bluegrass, and smooth brome.

The Natural Features Setback around Wetland F was dominated by non-native species (60%) with significant common native species inclusions (40%). Due to the Natural Features Setback being dominated by non-native species, it should be considered a low-quality buffer to Wetland F.

Wetland H/I Natural Features Setback Quality Assessment
The Natural Features Setback around Wetland H/I was comprised of young to moderately mature forest vegetation. Vegetation in the tree layer was dominated by the common native species of black walnut (*Juglans nigra*), silver maple, American elm (*Ulmus americana*), and box elder. The tree canopy in this area was thick and estimated at 75%. The shrub layer was thick and was dominated by the non-native species of glossy buckthorn and Amur honeysuckle (*Lonicera maacki*), and the common native species of green ash, generally in equal distribution. The herbaceous layer was also sparse at the time of the site inspection and was dominated by the common native species of red raspberry and Virginia stickseed (*Hackelia virginiana*).

The Natural Features Setback around Wetland H/I was dominated by common native species (75%) with significant non-native species inclusions (25%) and, thus, it should be considered a medium-quality buffer to Wetland H/I.

c. The Current Plans show 702 linear feet of Natural Features Setback associated with western and northern portions of Wetland B will be permanently impacted by the construction of a portion of the proposed walking trail system, the construction of a portion of the proposed public parking areas, and from grading activities associated with a proposed public building. These impacts are significant. Although the Natural Features Setback in this area is of low-quality, it does provide at least minimal buffering to Wetland B. Therefore, in the previous review, ASTI recommended that steps should be taken to minimize impacts to the Natural Features Setback in this area if possible. This has been addressed on the Current Plans as detailed below:

-Previous plan submittals included impacts to the Natural Features Setback in the northern portion of Wetland B, south of Wetland G (which is not City-regulated nor is Wetland G's Natural Features Setback). This impact has been removed from the Current Plans.,

-The Current Plans show that 272 linear feet of Natural Features Setback will occur in the in the eastern portion of Wetland B near Wetland C. This is a reduction of Natural Features Setback impacts.

-The Current Plans show that 429 linear feet of Natural Features Setback will occur in the in the south-central portion of Wetland B. This is a reduction of Natural Features Setback impacts.

-The redesign of the Current Plans shows a reduction in approximately 700 linear feet of Natural Features Setback impacts in these areas, representing a minimization of impacts to this regulated resource. These impacts are also shown on the Current Plans to ASTI's satisfaction. Therefore, ASTI recommends the City allow for these impacts as proposed.

d. The remaining impacts to the Natural Features Setback area of Wetland B, namely from the construction of a portion of a public parking lot, grading from the construction of a public building, and the western portion of the proposed trail system, are still significant and total 1,672 linear feet. However, it is ASTI opinion these impacts are proposed in the most logical area for this portion of the infrastructure to be constructed (directly off Adams Road) and are acceptable when compared to the community benefits from the overall construction of the Nowicki Park infrastructure and because the Natural Features Setback is of low ecological quality in this area. These impacts are shown on the Current Plans to ASTI's satisfaction. Therefore, ASTI recommends the City allow for these impacts.

e. The Current Plans show that 123 linear feet of Natural Features Setback associated with Wetland F will be impacted from the construction of a portion of a proposed nature trail and fencing installation associated with a proposed dog park area. The portions of the Natural Features Setback in this area are of very low quality and have been maintained as mowed lawn for at least 20 years and, thus, only provides nominal buffering for Wetland F. These impacts are shown on the Current Plans to ASTI's satisfaction. Thus, ASTI recommends the City allow for these impacts.

RECOMMENDATION

ASTI recommends the City approve the Current Plans.

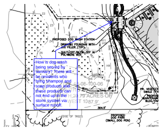
Respectfully submitted,

ASTI ENVIRONMENTAL

Kyle Hottinger
Wetland Ecologist
Professional Wetland Scientist #2927

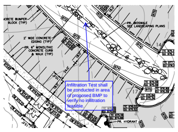
SITE PLAN.pdf Markup Summary

Angie (13)



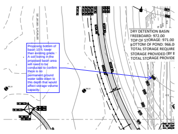
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 10:43:01 AM
Status:

How is dog wash being served by sanitary? There will be residents who bring shampoo and soap products and these products can not end up in the storm system via surface runoff.



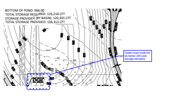
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 12:44:24 PM
Status:

Infiltration Test shall be conducted in area of proposed BMP to verify no infiltration feasible.



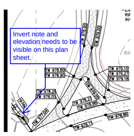
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 12:42:10 PM
Status:

Proposing bottom of basin 10 ft. lower than existing grade. A soil boring in the proposed basin area will need to be conducted to confirm there is no permanent ground water table down to this depth that would affect storage volume capacity.



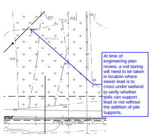
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 11:15:11 AM
Status:

Outlet invert shall not be below 100-year storage elevation.



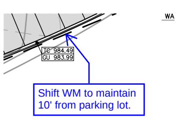
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 11:24:37 AM
Status:

Invert note and elevation needs to be visible on this plan sheet.



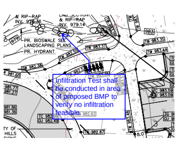
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 11:31:55 AM
Status:

At time of engineering plan review, a soil boring will need to be taken in location where sewer lead is to cross under wetland to verify whether soils can support lead or not without the addition of pile supports.



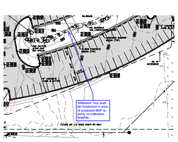
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 11:34:23 AM
Status:

Shift WM to maintain 10' from parking lot.



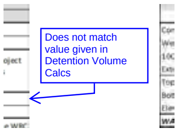
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 12:45:29 PM
Status:

Infiltration Test shall be conducted in area of proposed BMP to verify no infiltration feasible.



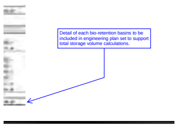
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 12:45:39 PM
Status:

Infiltration Test shall be conducted in area of proposed BMP to verify no infiltration feasible.



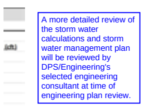
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 12:47:08 PM
Status:

Does not match value given in Detention Volume Calcs



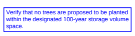
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 12:47:51 PM
Status:

Detail of each bio-retention basins to be included in engineering plan set to support total storage volume calculations.



Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 12:48:01 PM
Status:

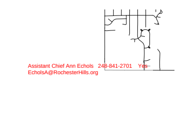
A more detailed review of the storm water calculations and storm water management plan will be reviewed by DPS/Engineering's selected engineering consultant at time of engineering plan review.



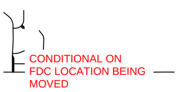
Subject: Underground Utilities
Author: Angie
Date: 9/16/2025 12:25:48 PM
Status:

Verify that no trees are proposed to be planted within the designated 100-year storage volume space.

Ann Echols (8)

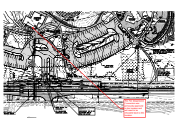


Subject: Fire Department
Author: Ann Echols
Date: 9/15/2025 8:27:45 AM
Status:



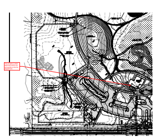
Subject: Fire Department
Author: Ann Echols
Date: 9/15/2025 8:28:15 AM
Status:

CONDITIONAL ON
FDC LOCATION BEING
MOVED



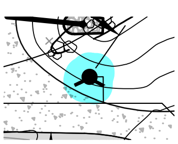
Subject: Fire Department
Author: Ann Echols
Date: 9/12/2025 8:40:05 AM
Status:

The Fire Department Connection was previously approved in this location and will need to be relocated back to this location.

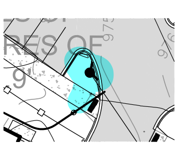


Subject: Fire Department
Author: Ann Echols
Date: 9/12/2025 8:40:46 AM
Status:

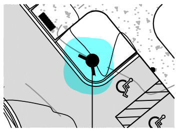
This location is NOT approved and is not accessible to the fire department.



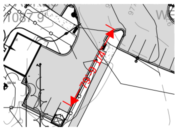
Subject: Highlight
Author: Ann Echols
Date: 9/12/2025 8:41:09 AM
Status:



Subject: Highlight
Author: Ann Echols
Date: 9/12/2025 8:41:24 AM
Status:



Subject: Highlight
Author: Ann Echols
Date: 9/12/2025 8:41:32 AM
Status:



Subject: Fire Department
Author: Ann Echols
Date: 9/12/2025 8:44:38 AM
Status:

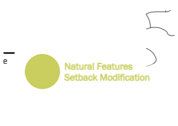
79'-9 1/4"

C.McLeod (129)

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:52:44 AM
Status:

WP

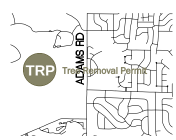
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:52:48 AM
Status:



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:52:53 AM
Status:

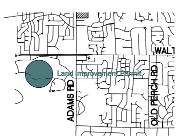
NFSM

Subject: Group
Author: C.McLeod
Date: 9/15/2025 4:00:55 PM
Status:



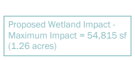
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:53:12 AM
Status:

Tree Removal Permit



Subject: Group
Author: C.McLeod
Date: 9/15/2025 11:42:10 AM
Status:

LIP



Subject: Planning Department
Author: C.McLeod
Date: 9/16/2025 12:31:41 PM
Status:

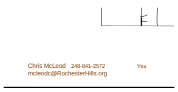
Proposed Wetland Impact - Maximum Impact = 54,815 sf (1.26 acres)

Subject: Planning Department
Author: C.McLeod
Date: 9/16/2025 12:31:39 PM
Status:

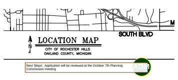
Proposed Natural Features Setback Impact = 3,200 lf

Subject: Planning Department
Author: C.McLeod
Date: 9/16/2025 9:39:26 AM
Status:

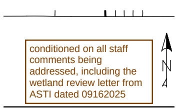
Assessing Yes



Subject: Planning Department
Author: C.McLeod
Date: 9/16/2025 12:17:19 PM
Status:



Subject: Group
Author: C.McLeod
Date: 9/16/2025 12:18:08 PM
Status:



Subject: Planning Department
Author: C.McLeod
Date: 9/16/2025 12:19:08 PM
Status:

conditioned on all staff comments being addressed, including the wetland review letter from ASTI dated 09162025

Subject: Group
Author: C.McLeod
Date: 9/15/2025 10:00:13 AM
Status:

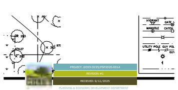
REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 10:00:09 AM
Status:

REVISION: #1

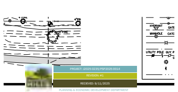
Subject: Group
Author: C.McLeod
Date: 9/15/2025 10:00:05 AM
Status:

REVISION: #1



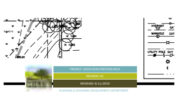
Subject: Group
Author: C.McLeod
Date: 9/15/2025 10:00:00 AM
Status:

REVISION: #1



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:56 AM
Status:

REVISION: #1



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:51 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:48 AM
Status:

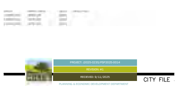
REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:44 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:40 AM
Status:

REVISION: #1



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:36 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:32 AM
Status:

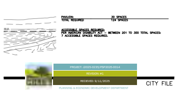
REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:28 AM
Status:

REVISION: #1

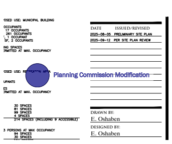
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:24 AM
Status:

REVISION: #1



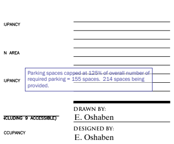
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:19 AM
Status:

REVISION: #1



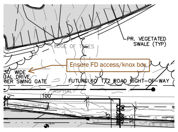
Subject: Group
Author: C.McLeod
Date: 9/15/2025 10:19:17 AM
Status:

PCM



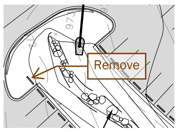
Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 10:22:45 AM
Status:

Parking spaces capped at 125% of overall number of required parking = 155 spaces. 214 spaces being provided.



Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 10:23:56 AM
Status:

Ensure FD access/knox box

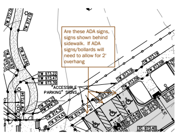


Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 10:25:20 AM
Status:

Remove

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:14 AM
Status:

REVISION: #1



Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 10:28:00 AM
Status:

Are these ADA signs, signs shown behind sidewalk. If ADA signs/bollards will need to allow for 2' overhang

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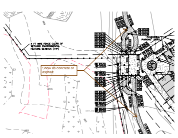
Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 10:32:23 AM
Status:

Provide sidewalk extension and ramp to connect to sidewalk leading to main park building

---



Subject: Planning Department
Author: C.McLeod
Date: 9/16/2025 9:10:52 AM
Status:

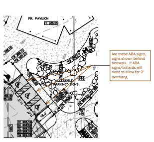
Show as concrete or asphalt

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:10 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:05 AM
Status:

REVISION: #1



Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 10:57:55 AM
Status:

Are these ADA signs, signs shown behind sidewalk. If ADA signs/bollards will need to allow for 2' overhang

---

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:59:01 AM
Status:

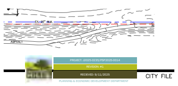
REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:58:57 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:58:53 AM
Status:

REVISION: #1

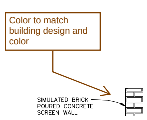


Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:58:49 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:58:45 AM
Status:

REVISION: #1



Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 3:57:04 PM
Status:

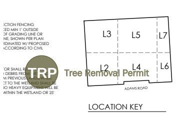
Color to match building design and color

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:58:41 AM
Status:

REVISION: #1

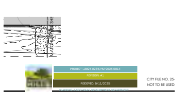
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:58:19 AM
Status:

REVISION: #1



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:58:33 AM
Status:

Tree Removal Permit



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:58:12 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:58:07 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:58:00 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:57:55 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:57:50 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:57:41 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:57:34 AM
Status:

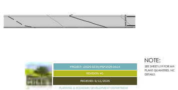
REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:57:29 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:57:24 AM
Status:

REVISION: #1



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:57:19 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:57:14 AM
Status:

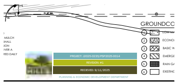
REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:57:10 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:57:06 AM
Status:

REVISION: #1



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:57:02 AM
Status:

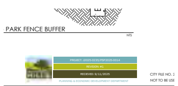
REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:56:57 AM
Status:

REVISION: #1

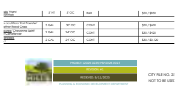
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:56:50 AM
Status:

REVISION: #1



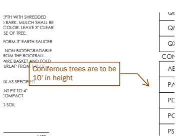
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:56:45 AM
Status:

REVISION: #1



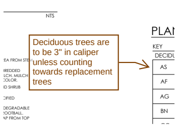
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:56:40 AM
Status:

REVISION: #1



Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:45:19 PM
Status:

Coniferous trees are to be 10' in height



Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:45:48 PM
Status:

Deciduous trees are to be 3" in caliper unless counting towards replacement trees

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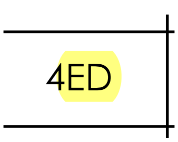
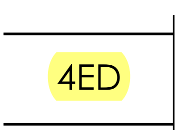


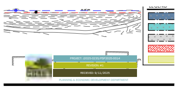
Subject: Contractor
Author: C.McLeod
Date: 9/15/2025 1:46:32 PM
Status:

ED



Subject: Contractor
Author: C.McLeod
Date: 9/15/2025 1:46:33 PM
Status:

4ED

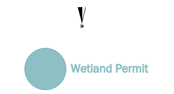


Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:56:22 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 1:25:43 PM
Status:

NFSM



Subject: Group
Author: C.McLeod
Date: 9/15/2025 1:25:40 PM
Status:

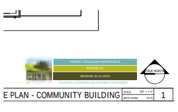
WP

Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:27:41 PM
Status:

Proposed Wetland Impact - Maximum Impact = 54,815 sf (1.26 acres)

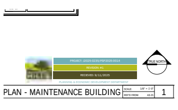
Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:28:45 PM
Status:

Proposed Natural Features Setback Impact = 3,200 lf



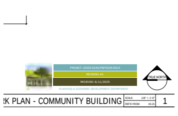
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:56:17 AM
Status:

REVISION: #1



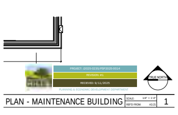
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:56:12 AM
Status:

REVISION: #1



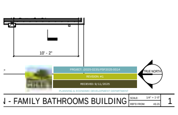
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:56:08 AM
Status:

REVISION: #1



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:56:04 AM
Status:

REVISION: #1



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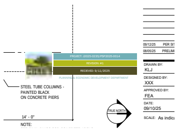
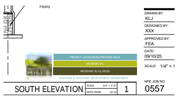
Author: C.McLeod
Date: 9/15/2025 9:56:00 AM
Status:

REVISION: #1



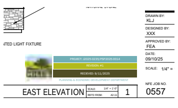
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:55:53 AM
Status:

REVISION: #1



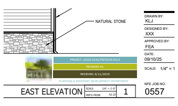
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:55:47 AM
Status:

REVISION: #1



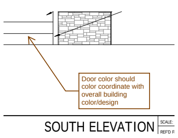
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:55:43 AM
Status:

REVISION: #1



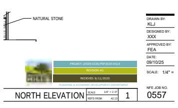
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:55:37 AM
Status:

REVISION: #1



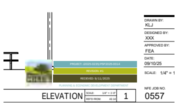
Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:22:02 PM
Status:

Door color should color coordinate with overall building color/design



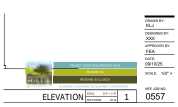
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:55:30 AM
Status:

REVISION: #1



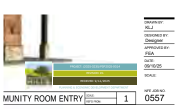
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:55:25 AM
Status:

REVISION: #1



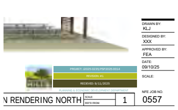
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:55:19 AM
Status:

REVISION: #1



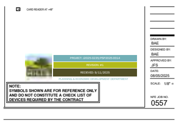
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:55:14 AM
Status:

REVISION: #1



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:55:08 AM
Status:

REVISION: #1



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:54:58 AM
Status:

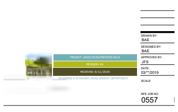
REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:54:53 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:54:47 AM
Status:

REVISION: #1



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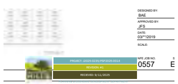
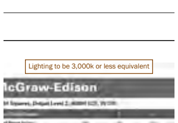
Author: C.McLeod
Date: 9/15/2025 9:54:43 AM
Status:

REVISION: #1



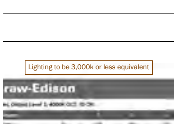
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:54:37 AM
Status:

REVISION: #1



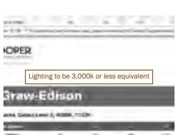
Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:15:03 PM
Status:

Lighting to be 3,000k or less equivalent



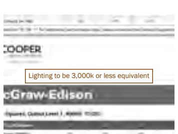
Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:15:15 PM
Status:

Lighting to be 3,000k or less equivalent



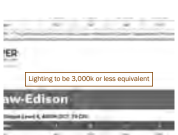
Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:15:22 PM
Status:

Lighting to be 3,000k or less equivalent



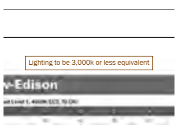
Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:15:26 PM
Status:

Lighting to be 3,000k or less equivalent



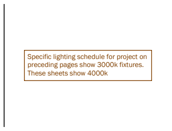
Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:15:31 PM
Status:

Lighting to be 3,000k or less equivalent



Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:18:03 PM
Status:

Lighting to be 3,000k or less equivalent

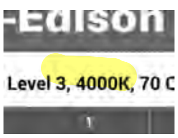


Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:19:36 PM
Status:

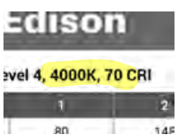
Specific lighting schedule for project on preceding pages show 3000k fixtures. These sheets show 4000k

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:54:32 AM
Status:

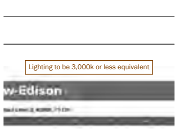
REVISION: #1



Subject: Contractor
Author: C.McLeod
Date: 9/15/2025 1:05:56 PM
Status:

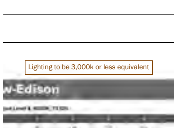


Subject: Contractor
Author: C.McLeod
Date: 9/15/2025 1:05:57 PM
Status:



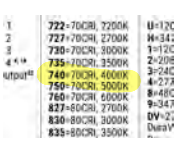
Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:06:03 PM
Status:

Lighting to be 3,000k or less equivalent

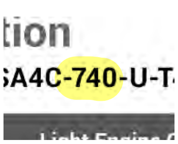


Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:06:07 PM
Status:

Lighting to be 3,000k or less equivalent



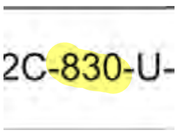
Subject: Contractor
Author: C.McLeod
Date: 9/15/2025 1:07:06 PM
Status:



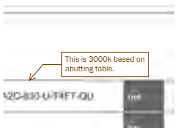
Subject: Contractor
Author: C.McLeod
Date: 9/15/2025 1:07:08 PM
Status:

Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:07:16 PM
Status:

Lighting to be 3,000k or less equivalent



Subject: Contractor
Author: C.McLeod
Date: 9/15/2025 1:14:13 PM
Status:

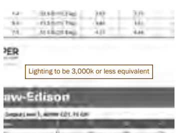


Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:14:45 PM
Status:

This is 3000k based on abutting table.

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:54:24 AM
Status:

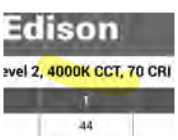
REVISION: #1



Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:04:51 PM
Status:

Lighting to be 3,000k or less equivalent

Subject: Contractor
Author: C.McLeod
Date: 9/15/2025 1:04:58 PM
Status:



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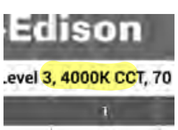
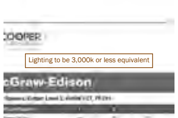
Author: C.McLeod
Date: 9/15/2025 1:04:59 PM
Status:

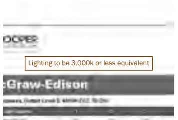


Subject: Contractor
Author: C.McLeod
Date: 9/15/2025 1:05:01 PM
Status:



Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:05:08 PM
Status:

Lighting to be 3,000k or less equivalent

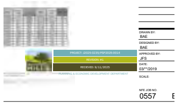


Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:05:12 PM
Status:

Lighting to be 3,000k or less equivalent

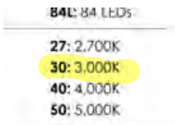
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:54:16 AM
Status:

REVISION: #1



Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:54:10 AM
Status:

REVISION: #1



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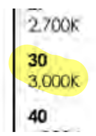
Author: C.McLeod
Date: 9/15/2025 1:02:12 PM
Status:



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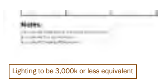
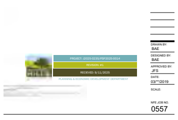
Author: C.McLeod
Date: 9/15/2025 1:02:28 PM
Status:



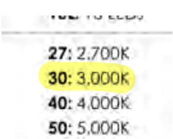
Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:02:47 PM
Status:

Lighting to be 3,000k or less equivalent

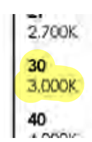


Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:54:03 AM
Status:

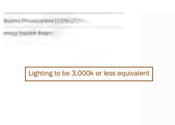
REVISION: #1



Subject: Contractor
Author: C.McLeod
Date: 9/15/2025 1:00:08 PM
Status:



Subject: Contractor
Author: C.McLeod
Date: 9/15/2025 1:00:24 PM
Status:

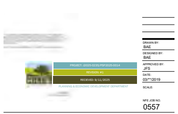


Subject: Planning Department
Author: C.McLeod
Date: 9/15/2025 1:01:09 PM
Status:

Lighting to be 3,000k or less equivalent

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:53:59 AM
Status:

REVISION: #1



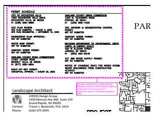
Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:53:55 AM
Status:

REVISION: #1

Subject: Group
Author: C.McLeod
Date: 9/15/2025 9:53:49 AM
Status:

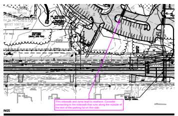
REVISION: #1

Emira Barrette (21)



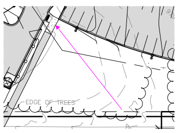
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 7:49:18 AM
Status:

Consider having this on a table with the following columns a) Permit type, b) agency responsible for issuing permit, c) submission date (or estimated submission date)

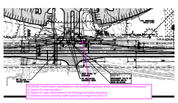


Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 11:00:08 AM
Status:

This sidewalk and ramp lead to nowhere. Consider connecting to the sidewalk that runs along the outside of the rest of the parking lot on this side.

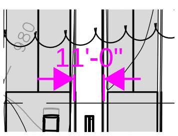


Subject: Arrow
Author: Emira Barrette
Date: 9/15/2025 10:59:56 AM
Status:



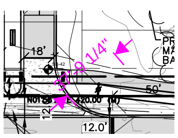
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 2:14:42 PM
Status:

Per RCOC Permit Rules, Specifications, and Guidelines (granted, these are for commercial driveways):
a) Typical 35' entering radius.
b) Typical 16' wide island between the entering and exiting driveways.
c) Entrance and exit driveway width: typical 22 ft, range from 20 to 27'



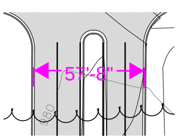
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 1:49:37 PM
Status:

11'-0"



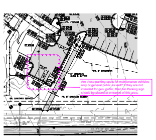
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 1:51:03 PM
Status:

37'-9 1/4"



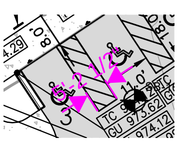
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 1:52:50 PM
Status:

57'-8"



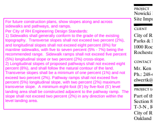
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 12:39:38 PM
Status:

Are these parking spots for maintenance vehicles only or general public as well? If they are not intended for gen. public, then No Parking sign should be placed at entrance of this area.



Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 12:48:35 PM
Status:

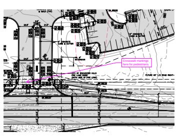
5'-2 1/2"



Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 2:22:13 PM
Status:

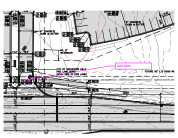
For future construction plans, show slopes along and across sidewalks and pathways, and ramps. Per City of RH Engineering Design Standards:
1) Sidewalks shall generally conform to the grade of the existing topography. Transverse slopes shall not exceed two percent (2%), and longitudinal slopes shall not exceed eight percent (8%) for mainline sidewalks, with five to seven percent (5% - 7%) being the recommended range. Sidewalk ramps shall not exceed five percent (5%) longitudinal slope or two percent (2%) cross-slope.

2) Longitudinal slopes of proposed pathways shall not exceed eight percent (8%), and shall follow the natural contour of the land. Transverse slopes shall be a minimum of one percent (1%) and not exceed two percent (2%). Pathway ramps shall not exceed five percent (5%) longitudinal slope, with two percent (2%) maximum transverse slope. A minimum eight-foot (8’) by five-foot (5’) level landing area shall be constructed adjacent to the pathway ramp. The slope shall not exceed two percent (2%) in any direction within the level landing area.



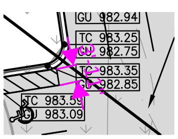
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 12:52:38 PM
Status:

Crosswalk markings here for pedestrians.



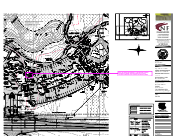
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 12:44:37 PM
Status:

And here



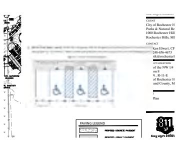
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 12:50:31 PM
Status:

3'-11"

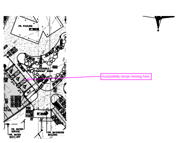


Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 12:58:17 PM
Status:

Barrier free access isles should be 5 ft wide and have a ramp for accessibility to sidewalk. See Figure below from City of RH Ordinances. Additionally, sign for barrier free parking is needed.

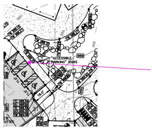


Subject: Image
Author: Emira Barrette
Date: 9/15/2025 12:57:13 PM
Status:

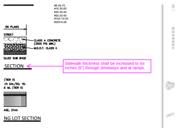


Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 12:59:43 PM
Status:

Accessibility ramps missing here

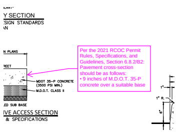


Subject: Arrow
Author: Emira Barrette
Date: 9/15/2025 12:59:58 PM
Status:



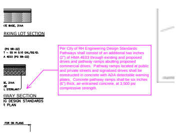
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 2:38:33 PM
Status:

Sidewalk thickness shall be increased to six inches (6”) through driveways and at ramps.



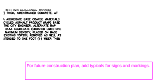
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 4:01:29 PM
Status:

Per the 2021 RCOC Permit Rules, Specifications, and Guidelines, Section 6.8.2/B2:
Pavement cross-section should be as follows:
• 9 inches of M.D.O.T. 35-P concrete over a suitable base



Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 4:05:09 PM
Status:

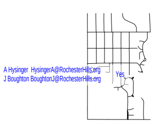
Per City of RH Engineering Design Standards: Pathways shall consist of an additional two inches (2”) of HMA 4E03 through existing and proposed drives and pathway ramps abutting proposed commercial drives. Pathway ramps located at public and private streets and signalized drives shall be constructed in concrete with ADA detectable warning plates. Concrete pathway ramps shall be six inches (6”) thick, air-entrained concrete, at 3,500 psi compressive strength.



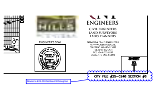
Subject: Traffic
Author: Emira Barrette
Date: 9/15/2025 4:07:37 PM
Status:

For future construction plan, add typicals for signs and markings.

Jason Boughton (4)

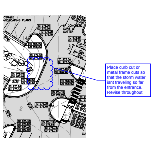


Subject: Engineering Department
Author: Jason Boughton
Date: 9/15/2025 11:34:03 AM
Status:



Subject: Underground Utilities
Author: Jason Boughton
Date: 9/16/2025 10:23:34 AM
Status:

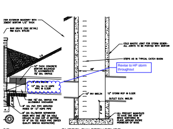
Revise to E24-008 Section #8 throughout



Subject: Underground Utilities
Author: Jason Boughton
Date: 9/15/2025 11:20:31 AM
Status:

Place curb cut or metal frame cuts so that the storm water isnt traveling so far from the entrance. Revise throughout

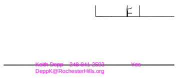
---



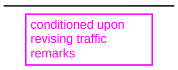
Subject: Underground Utilities
Author: Jason Boughton
Date: 9/15/2025 11:32:19 AM
Status:

Revise to HP storm throughout

Keith (2)



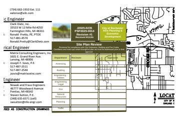
Subject: Traffic
Author: Keith
Date: 9/16/2025 9:35:08 AM
Status:



Subject: Traffic, Pathways, Sidewalks
Author: Keith
Date: 9/16/2025 9:35:48 AM
Status:

conditioned upon revising traffic remarks

macdonaldj (1)



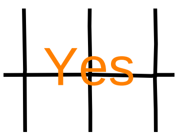
Subject: Group
Author: macdonaldj
Date: 9/11/2025 1:40:30 PM
Status:

City of Rochester Hills Planning & Economic Development

Mark Artinian (39)

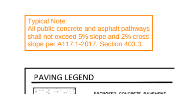
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:47:56 PM
Status:

Mark Artinian 248-841-2446
ArtinianM@RochesterHills.org



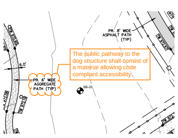
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:48:33 PM
Status:

Yes



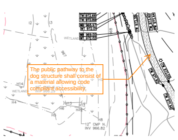
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:30:42 PM
Status:

Typical Note:
All public concrete and asphalt pathways shall not exceed 5% slope and 2% cross slope per A117.1-2017, Section 403.3.



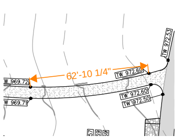
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:42:23 PM
Status:

The public pathway to the dog structure shall consist of a material allowing code compliant accessibility.



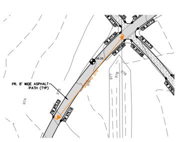
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:43:49 PM
Status:

The public pathway to the dog structure shall consist of a material allowing code compliant accessibility.



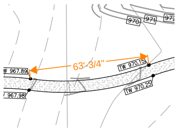
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 12:59:14 PM
Status:

62'-10 1/4"



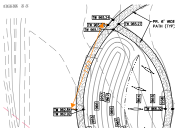
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:01:54 PM
Status:

103'-8 3/4"



Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:03:00 PM
Status:

63'-3/4"

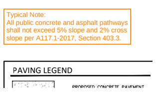


Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:03:58 PM
Status:

77'-3"

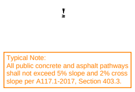
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:05:24 PM
Status:

89'-1/2"



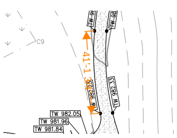
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:31:00 PM
Status:

Typical Note:
All public concrete and asphalt pathways shall not exceed 5% slope and 2% cross slope per A117.1-2017, Section 403.3.



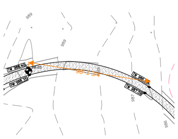
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:31:42 PM
Status:

Typical Note:
All public concrete and asphalt pathways shall not exceed 5% slope and 2% cross slope per A117.1-2017, Section 403.3.



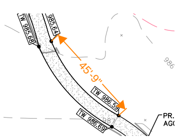
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:09:30 PM
Status:

41'-1 3/4"



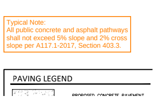
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:10:20 PM
Status:

98'-1 3/4"



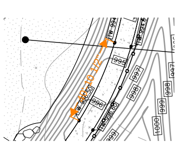
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:13:54 PM
Status:

45'-9"



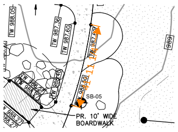
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:31:59 PM
Status:

Typical Note:
All public concrete and asphalt pathways shall not exceed 5% slope and 2% cross slope per A117.1-2017, Section 403.3.



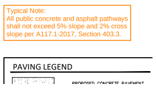
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:25:11 PM
Status:

40'-10 1/2"



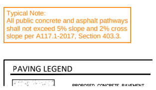
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:26:13 PM
Status:

41'-11 1/4"



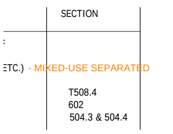
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:32:08 PM
Status:

Typical Note:
All public concrete and asphalt pathways shall not exceed 5% slope and 2% cross slope per A117.1-2017, Section 403.3.



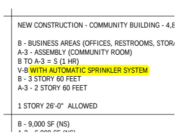
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 1:32:20 PM
Status:

Typical Note:
All public concrete and asphalt pathways shall not exceed 5% slope and 2% cross slope per A117.1-2017, Section 403.3.



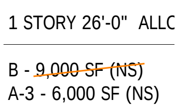
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:01:01 PM
Status:

- MIXED-USE SEPARATED

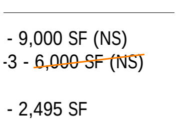


Subject: Highlight
Author: Mark Artinian
Date: 9/15/2025 2:07:18 PM
Status:

WITH AUTOMATIC SPRINKLER SYSTEM



Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:07:28 PM
Status:



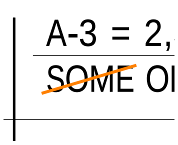
Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:07:35 PM
Status:

Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:08:24 PM
Status:

36,000 SF

Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:08:49 PM
Status:

24,000 SF



Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:11:57 PM
Status:

Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:12:22 PM
Status:

SUM

Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:12:57 PM
Status:

Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:13:01 PM
Status:

Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:15:33 PM
Status:

24,000 = .10

Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:13:42 PM
Status:

Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:14:53 PM
Status:

36,000 = .07

Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:15:37 PM
Status:

Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:15:56 PM
Status:

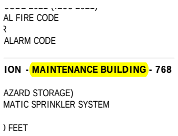
.17

Subject: Building Department
Author: Mark Artinian
Date: 9/15/2025 2:44:39 PM
Status:

A building permit is required for:
1. The dog park shelters (144 sf ea.) per 2021 MBC, Section 105.2(a)(i).
2. Proposed dog wash station
3. Boardwalk patio
4. All bridge structures spanning over water features, wetlands etc.
5. Site light pole bases

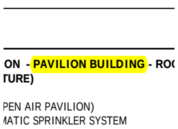
Subject: Highlight
Author: Mark Artinian
Date: 9/15/2025 2:04:32 PM
Status:

FAMILY BATHROOMS



Subject: Highlight
Author: Mark Artinian
Date: 9/15/2025 2:04:37 PM
Status:

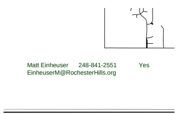
MAINTENANCE BUILDING



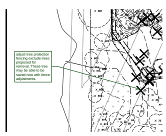
Subject: Highlight
Author: Mark Artinian
Date: 9/15/2025 2:04:42 PM
Status:

PAVILION BUILDING

Matt Einheuser (4)

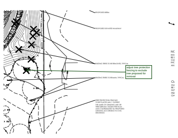


Subject: Natural Resouces
Author: Matt Einheuser
Date: 9/12/2025 11:35:42 AM
Status:



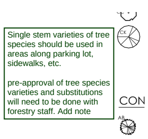
Subject: Natural Resources
Author: Matt Einheuser
Date: 9/12/2025 11:31:10 AM
Status:

adjust tree protection fencing exclude trees proposed for removal. These tree may be able to be saved now with fence adjustments.



Subject: Natural Resources
Author: Matt Einheuser
Date: 9/12/2025 11:32:37 AM
Status:

adjust tree protection fencing to exclude tree proposed for removal

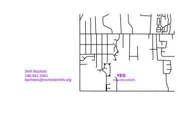


Subject: Natural Resources
Author: Matt Einheuser
Date: 9/12/2025 11:35:10 AM
Status:

Single stem varieties of tree species should be used in areas along parking lot, sidewalks, etc.

pre-approval of tree species varieties and substitutions will need to be done with forestry staff. Add note

Seth Bucholz (1)



Subject: Jenny McGuckin - YES
Author: Seth Bucholz
Date: 9/16/2025 3:01:37 PM
Status: