

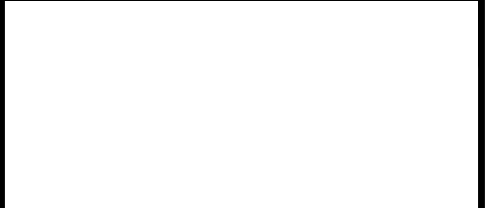


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Revisions

No.	Description



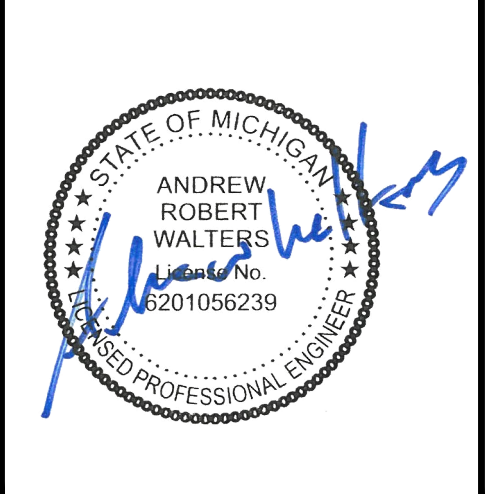
Project Number	1051-26-14321	Date	5/28/2026
P.M.	ARW	Checked by	ARW
Drawn by	KW/WS	Crew/Book	N/A

Client	BRIVAR CONSTRUCTION CO.
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Project
SAUGATUCK TWP. FIRE DISTRICT BUILDING ADDITION

Site Address
415 WEST WILEY ROAD
CITY OF DOUGLAS, MI 49406

County	ALLEGAN	Community	DOUGLAS
Township	3N	Range	16W
		Section	21



Professional Name
ANDREW R. WALTERS, PE 6/4/2026

Title
SITEPLAN COVER SHEET

Drawing Scale	1" = 80'	Sheet Number	01
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SITEPLAN

SAUGATUCK TWP. FIRE DISTRICT BUILDING ADDITION

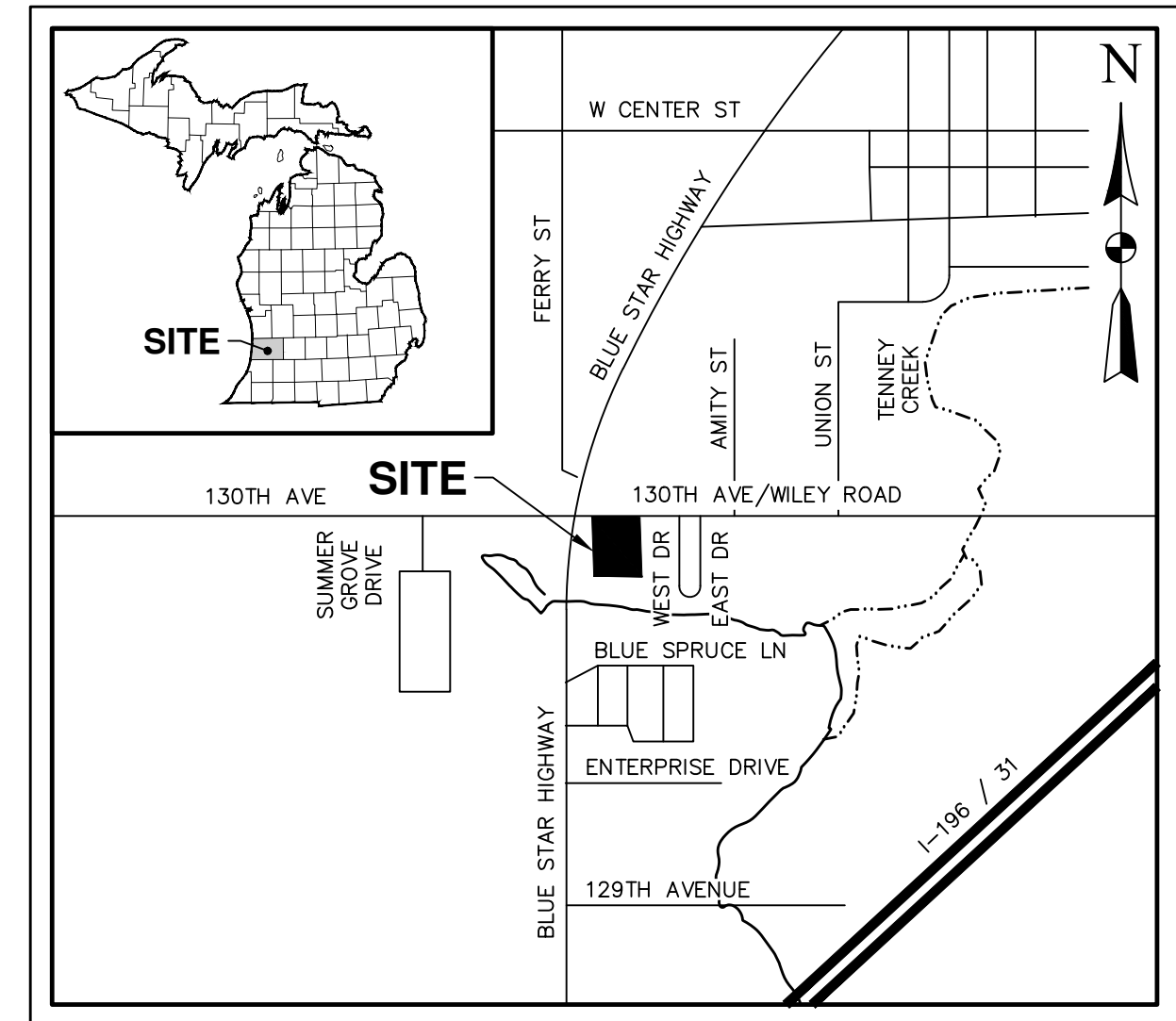
415 WEST WILEY ROAD, DOUGLAS, ALLEGAN COUNTY, MI

PROJECT CONTACTS

APPLICANT SAUGATUCK TOWNSHIP FIRE DISTRICT CONTACT: GREG JANIK, FIRE CHIEF 3342 BLUE STAR HIGHWAY SAUGATUCK, MI 49453 PHONE: 269.857.3000 EMAIL: GJANIK@SAUGUTUCKFIRE.ORG	DEVELOPER BRIVAR CONSTRUCTION CO. CONTACT: CRAIG STOCKARD 9325 MALBY ROAD BRIGHTON, MI 48116 PHONE: 248.446.8000 EMAIL: CRAIG@BRIVAR.COM
ENGINEER METRO CONSULTING ASSOCIATES CONTACT: ANDREW WALTERS, PE 45345 FIVE MILE ROAD PLYMOUTH, MI 48170 PHONE: 800.525.6016 EMAIL: AWALTERS@METROCA.NET	ARCHITECT CREEKWOOD ARCHITECTURE, INC. CONTACT: JEFFREY VAN CAMP, AIA 1111 CREEKWOOD TR. BURTON, MI 48509 PHONE: 810.742.0480 EMAIL: JVANCAMP@CREEKWOODARCH.COM
SITE PLAN PERMITTING DOUGLAS PLANNING & ZONING DEPT. CONTACT: SEAN HOMOYEN 415 W. WILEY RD., SUITE 103 DOUGLAS, MI 49406 PHONE: 269.837.1438 EXT. 107 EMAIL: PZADMIN@DOUGLASM.I.GOV	STORMWATER ALLEGAN COUNTY DRAIN OFFICE COUNTY SERVICES BUILDING 3283 122ND AVE. ALLEGAN, MI 49010 PHONE: 269.673.0440 EMAIL: DRAIN@ALLEGANCOUNTY.ORG



OVERALL AREA MAP



VICINITY MAP
NOT TO SCALE

SHEET LIST

- 01 COVER SHEET
- 02 EXISTING CONDITIONS AND DEMOLITION PLAN
- 03 EXISTING TREE INVENTORY PLAN AND LIST
- 04 LAYOUT PLAN
- 05 UTILITY PLAN
- 05 GRADING PLAN
- 07 STORM WATER MANAGEMENT PLAN
- 08 STORMWATER MANAGEMENT CALCULATIONS
- 09 SOIL EROSION AND SEDIMENTATION CONTROL PLAN
- 10 SOIL EROSION CONTROL AND SEDIMENTATION NOTES AND DETAILS
- 11 LANDSCAPE PLAN
- 12 LANDSCAPE DETAILS
- 13 DETAILS
- A1 ARCHITECTURAL COVER SHEET
- A2 COMPOSITE FLOOR PLAN
- A3 PRELIMINARY FLOOR PLAN
- A4 PRELIMINARY FLOOR PLAN
- A5 PRELIMINARY FLOOR PLAN
- A6 EXTERIOR ELEVATIONS

LEGAL DESCRIPTION:

PER WARRANTY DEED RECORDED IN LIBER 4891, PAGE 204, ALLEGAN COUNTY REGISTER OF DEEDS, MICHIGAN, PROVIDED TO HOLLAND ENGINEERING, INC. BY CLIENT.

LAND SITUATED IN THE STATE OF MICHIGAN, COUNTY OF ALLEGAN, CITY OF THE VILLAGE OF DOUGLAS:

PARCEL 1:
COMMENCING AT THE NORTHWEST CORNER OF SECTION 21, THENCE SOUTH 87 DEGREES 20 MINUTES 10 SECONDS EAST ON THE NORTH LINE OF SAID SECTION 260 FEET TO THE POINT OF BEGINNING, THENCE SOUTH 87 DEGREES 20 MINUTES 10 SECONDS EAST ON SAID NORTH SECTION LINE 93.45 FEET, THENCE SOUTH 2 DEGREES 52 MINUTES 30 SECONDS WEST 660 FEET, THENCE NORTH 87 DEGREES 20 MINUTES 10 SECONDS WEST 93.93 FEET, THENCE NORTH 2 DEGREES 55 MINUTES EAST PARALLEL WITH THE WEST LINE OF SAID SECTION 680 FEET TO POINT OF BEGINNING, SECTION 21, TOWNSHIP 3 NORTH, RANGE 16 WEST, VILLAGE OF DOUGLAS, ALLEGAN COUNTY, MICHIGAN.

PARCEL 2:
THE NORTH 333 FEET OF THE WEST 260 FEET OF SECTION 21, TOWNSHIP 3 NORTH, RANGE 16 WEST.

PARCEL 3:
COMMENCING AT THE NORTHEAST CORNER OF THE WEST 1/4 OF THE WEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 21, TOWNSHIP 3 NORTH, RANGE 16 WEST; THENCE WEST 300 FEET; THENCE SOUTH 660 FEET; THENCE EAST 300 FEET; THENCE NORTH 600 FEET TO THE POINT OF BEGINNING.

PROJECT NARRATIVE

BRIVAR, ON BEHALF OF THE SAUGATUCK TOWNSHIP FIRE DISTRICT, IS REQUESTING THE NECESSARY PERMITS AND APPROVALS TO RENOVATE A PORTION OF THE BUILDING AT 415 WILEY RD. AS WELL AS TO BUILD A 8,655 SF BUILDING ADDITION ALONG WITH THE NECESSARY DRIVES, UTILITIES AND STORMWATER MANAGEMENT. THE OVERALL EXISTING PROPERTY IS 7.49 ACRES AND IS CURRENTLY USED FOR VILLAGE OFFICES. THE SITE IS ZONED C-2, GENERAL COMMERCIAL.

WATER: WATER SERVICE TO THE PROPOSED ADDITION WILL BE EXTENDED THROUGH THE EXISTING BUILDING.

SANITARY: THE PROPOSED BUILDING ADDITION WILL BE SERVICED BY A NEW SERVICE CONNECTION TO THE EXISTING SANITARY SEWER ON THE EAST SIDE OF THE PROPERTY.

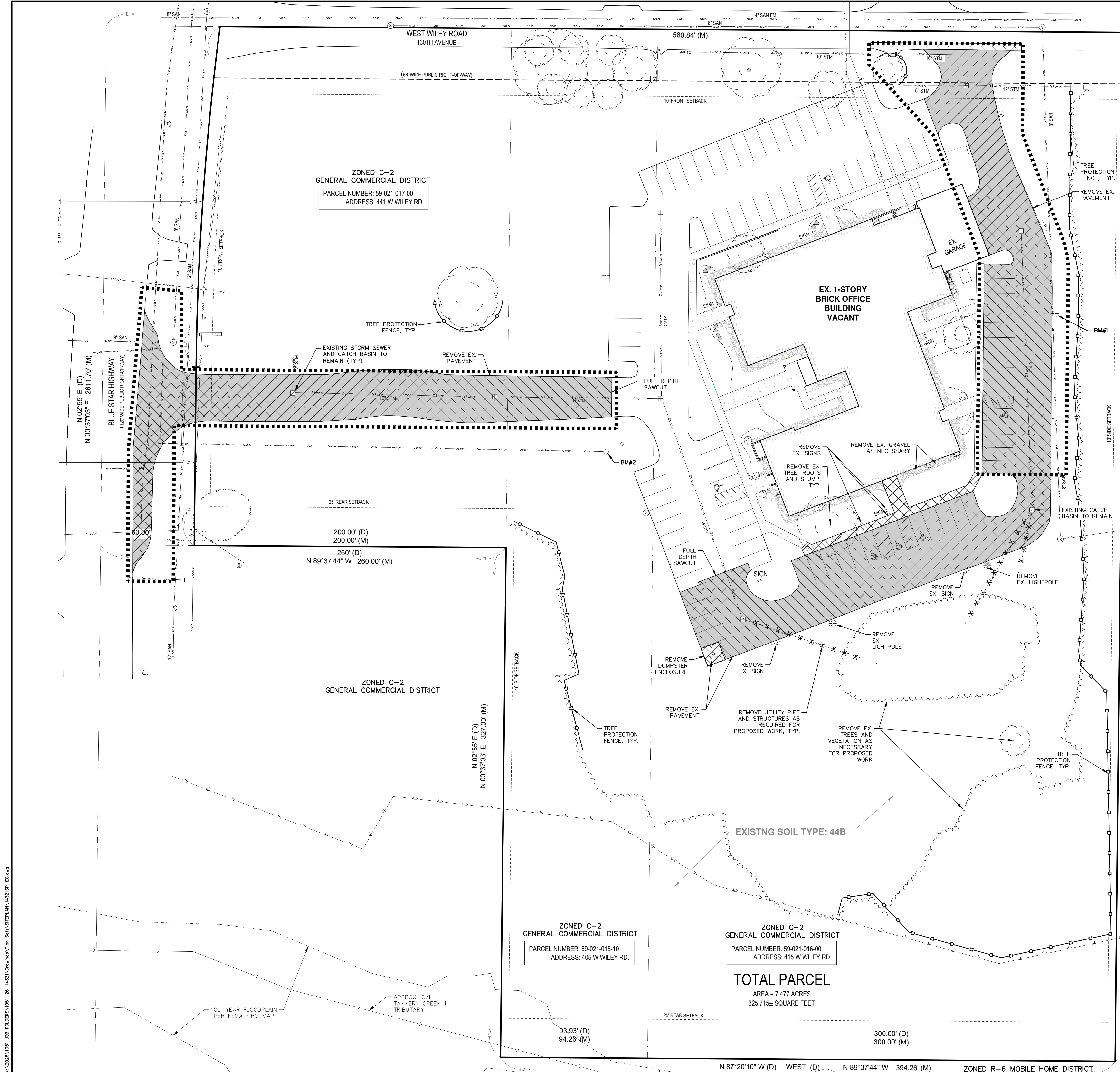
STORM WATER: RUN-OFF FROM THE SITE IS COLLECTED IN AN ON-SITE STORM SEWER SYSTEM. THE STORM SEWER SYSTEM WILL BE REVISED FOR THE PROPOSED IMPROVEMENTS AND TO ROUTE THE DRAINAGE TO A NEW RETENTION POND IN THE SOUTHEAST CORNER OF THE SITE. THE RETENTION POND HAS BEEN SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ALLEGAN COUNTY.

RIGHT-OF-WAY: ALL WORK WITHIN THE BLUE STAR HWY. AND W. WILEY RD. RIGHT-OF-WAY WILL BE CONDUCTED UNDER THE REQUIREMENTS OF THE CITY OF THE VILLAGE OF DOUGLAS.

SOIL EROSION CONTROL: A PERMIT FROM ALLEGAN COUNTY WILL BE REQUIRED.

FLOODPLAINS: ACCORDING TO FEMA FIRM MAP 26005C0164G, DATED 6/21/2023 THE SOUTHERN EDGE OF THE PROPERTY IS WITHIN THE 100-YEAR FLOODPLAIN OF TANNERY CREEK1 TRIBUTARY1. THE PROPOSED IMPROVEMENTS ARE NOT ANTICIPATED TO IMPACT THE FLOODPLAIN.

K:\2026\1051-26-14321\Drawings\Site Plan\SDP\1051-26-14321\Drawings\Site Plan\SDP\1051-26-14321_CV.dwg



LEGEND

	EX. SPOT ELEVATION
	EX. CONTOUR
	EX. BOUNDARY LINE
	EX. WETLAND LIMITS
	EX. ADJACENT PROPERTY LINE
	EX. RIGHT-OF-WAY
	EX. SECTION LINE
	EX. EASEMENT LINE
	EX. SETBACK LINE
	EX. CURB/PAVEMENT
	EX. FENCE
	EX. GRAVEL
	EX. TREELINE
	EX. TREE (CONIFEROUS)
	EX. TREE (DECIDUOUS)
	EX. SIGN
	EX. MAILBOX
	EX. FOUND IRON PIPE
	EX. SECTION CORNER
	EX. WATER MAIN
	EX. HYDRANT
	EX. WATER MANHOLE
	EX. STORM SEWER
	EX. STORM INLET/CATCH BASIN
	EX. STORM MANHOLE
	EX. STORM END SECTION
	EX. SANITARY SEWER
	EX. SANITARY MANHOLE
	EX. UNDERGROUND GAS
	EX. GAS VALVE
	EX. UNDERGROUND CABLE
	EX. UNDERGROUND FIBER
	EX. TELEPHONE MANHOLE
	EX. TELEPHONE RISER
	EX. OVERHEAD ELECTRIC
	EX. UNDERGROUND ELECTRIC
	EX. LIGHT POLE
	EX. UTILITY POLE
	EX. GUY WIRE
	EX. TRAFFIC SIGNAL BOX
	EX. UNIDENTIFIED MANHOLE
	TREE PROTECTION FENCE, TYP.
	DEMO UTILITY / CURB
	DEMO PAVEMENT AND CURB
	DEMO BUILDING
	DEMO EXISTING TREE
	SILT FENCE
	LIMITS OF DISTURBANCE
	PR. INLET FILTER
	PR. STONE / RIP-RAP
	SOIL LIMITS
	SOIL TYPE

BENCHMARK LIST:

- BM1 CHISLED " " ON WEST TOP OF CONCRETE LIGHT POLE BASE
ELEV. = 649.77' (NAVD'88)
- BM2 NORTHWEST FLANGE BOLT ON HYDRANT UNDER "E"
ELEV. = 650.26' (NAVD'88)

EXISTING SOIL TYPE:

44B - CHELSEA LOAMY FINE SAND, 0 TO 6 PERCENT SLOPES

EXISTING CONDITIONS NOTES:

- THIS PLAN IS BASED ON THE TOPOGRAPHIC SURVEY PREPARED BY HOLLAND ENGINEERING, DATED 9/10/2024.
- ELEVATIONS SHOWN HEREIN ARE BASED ON NAVD88 DATUM.
- THE SURVEY IS ON A LOCAL HORIZONTAL DATUM.
- THE PARCEL SHOWN IS NOT WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO FEMA FIRM MAP 26000C164G, DATED 5/21/2023. A PORTION OF THE SITE MAY BE IN SPECIAL FLOOD HAZARD ZONE A, NO BASE FLOOD ESTABLISHED.

DEMOLITION NOTES:

- THE CONTRACTOR SHALL CALL 811 "MISS DIG" AT LEAST THREE WORKING DAYS PRIOR TO CONSTRUCTION.
- A SOIL EROSION CONTROL PERMIT FROM THE AUTHORITY HAVING JURISDICTION IS REQUIRED AND SOIL EROSION CONTROL BMP'S SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF DEMOLITION ACTIVITIES.
- THE CONTRACTOR SHALL INDEPENDENTLY VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DEMOLISH OR RELOCATE ANY SITE FEATURES AS ACCORDING TO PLAN AND/OR AS APPROPRIATE TO FACILITATE THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- PRIOR TO REMOVING, RELOCATING, OR PERFORMING ANY WORK ON A UTILITY, THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY OWNER.
- ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGALLY DESIGNATED DISPOSAL AREA. PERMITS AND FEES FOR DISPOSAL OF DEMOLITION MATERIAL SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- COORDINATE WITH THE UTILITY PLAN REGARDING DEMOLITION OR RELOCATION OF EXISTING UTILITIES.
- REMOVE BUILDING FOOTINGS TO A MINIMUM OF TWO FEET BELOW FINISHED GRADE AND, WHERE UNDER PROPOSED BUILDINGS OF PAVED AREAS, BACKFILL WITH ENGINEERED MATERIAL.
- REMOVAL OF EXISTING LIGHT POLES SHALL INCLUDE THE REMOVAL OF THE POLE BASE AND CONDUIT BETWEEN LIGHTS.
- REMOVAL OF CONCRETE SIDEWALK AND/OR CURB SHALL BE TO THE NEAREST JOINT UNLESS OTHERWISE NOTED.
- PAVEMENTS TO BE REMOVED SHALL BE SAW CUT TO THE FULL DEPTH OF THE PAVEMENT. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN A CLEAN EDGE OF PAVEMENT.

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Revisions



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 P.M. Checked by: ARW Drawn by: ARW Crew/Book: ARW | KW/WS | N/A

Client: BRIVAR CONSTRUCTION CO.

Project: SAUGATUCK TWP. FIRE DISTRICT BUILDING ADDITION

Site Address: 415 WEST WILEY ROAD
 CITY OF DOUGLAS, MI 49406
 County: ALLEGAN Community: DOUGLAS
 Township: 3N Range: 16W Section: 21

Professional Name: ANDREW R. WALTERS, PE Date: 6/4/2026

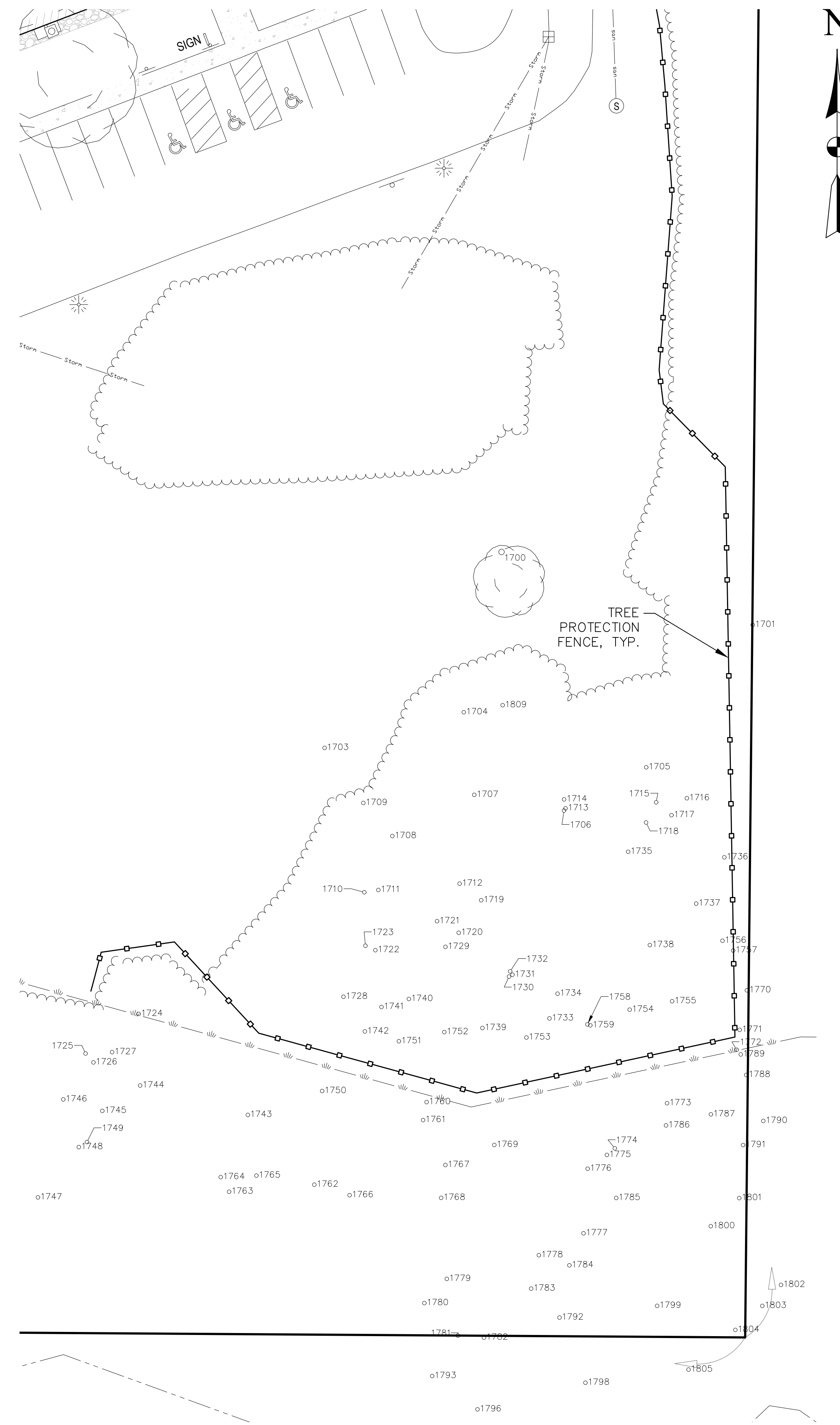
Title: SITEPLAN
 EXISTING CONDITIONS AND DEMOLITION PLAN

Drawing Scale: 1" = 30'
 Sheet Number: 02

EXISTING TREE INVENTORY:

Tree #	D.B.H.	Common Name	Scientific Name	Condition
1700				
1701	12, 12.7, 13.4, 10.7 11.9	White mulberry	<i>Morus alba</i>	Good
1702	18.55	Red pine	<i>Pinus resinosa</i>	Poor
1703	6.85	Honey locust	<i>Gleditsia triacanthos</i>	Very good
1704	6	Red pine	<i>Pinus resinosa</i>	Good
1705	6	N/A	N/A	Dead
1706	9.8	Black oak	<i>Quercus velutina</i>	Very good
1707	8.5	Red pine	<i>Pinus resinosa</i>	Moderate
1708	7.5	Red pine	<i>Pinus resinosa</i>	Moderate
1709	7.35	Red pine	<i>Pinus resinosa</i>	Poor
1710	6.7	Black cherry	<i>Prunus serotina</i>	Good
1711	9	Black cherry	<i>Prunus serotina</i>	Very good
1712	9.85	Red pine	<i>Pinus resinosa</i>	Poor
1713	7.5	Green ash	<i>Fraxinus pennsylvanica</i>	Moderate
1714	6.3	Black cherry	<i>Prunus serotina</i>	Very good
1715	8.5	Black cherry	<i>Prunus serotina</i>	Very good
1716	16.6	Black cherry	<i>Prunus serotina</i>	Very good
1717	10.6	Black cherry	<i>Prunus serotina</i>	Very good
1718	6.9	Green ash	<i>Fraxinus pennsylvanica</i>	Good
1719	9.85	Red pine	<i>Pinus resinosa</i>	Poor
1720	6.55	Red pine	<i>Pinus resinosa</i>	Poor
1721	7.6	Red oak	<i>Quercus rubra</i>	Very good
1722	12.5	Red pine	<i>Pinus resinosa</i>	Very poor
1723	18.7	Red pine	<i>Pinus resinosa</i>	Poor
1724	6.5	Black walnut	<i>Juglans nigra</i>	Very good
1725	6.6	Green ash	<i>Fraxinus pennsylvanica</i>	Very good
1726	10	Staghorn sumac	<i>Rhus typhina</i>	Dead
1727	9.1	Staghorn sumac	<i>Rhus typhina</i>	Dead
1728	7.1	Black cherry	<i>Prunus serotina</i>	Good
1729	6.3	Red oak	<i>Quercus rubra</i>	Very good
1730	22.4	Eastern cottonwood	<i>Populus deltoides</i>	Very good
1731	17.8	Eastern cottonwood	<i>Populus deltoides</i>	Very good
1732	7.5	Red oak	<i>Quercus rubra</i>	Very good
1733	14.3, 13.3	Eastern cottonwood	<i>Populus deltoides</i>	Very good
1734	19	Eastern cottonwood	<i>Populus deltoides</i>	Very good
1735	6.6	Sugar maple	<i>Acer saccharum</i>	Very good
1736	7.3	Red oak	<i>Quercus rubra</i>	Very good
1737	13	Red pine	<i>Pinus resinosa</i>	Dead
1738	8.45, 6.1	Box elder	<i>Acer negundo</i>	Very good
1739	14.4	Red oak	<i>Quercus rubra</i>	Good
1740	10.6	Red pine	<i>Pinus resinosa</i>	Very poor
1741	9.5	Red pine	<i>Pinus resinosa</i>	Very poor
1742	8.5	Black cherry	<i>Prunus serotina</i>	Poor
1743	6.2	Staghorn sumac	<i>Rhus typhina</i>	Dead
1744	7.6	Staghorn sumac	<i>Rhus typhina</i>	Dead
1745	6.1	Staghorn sumac	<i>Rhus typhina</i>	Dead
1746	6.25	Green ash	<i>Fraxinus pennsylvanica</i>	Good
1747	6.9	Black cherry	<i>Prunus serotina</i>	Poor
1748	7	Staghorn sumac	<i>Rhus typhina</i>	Very poor
1749	6.9	Staghorn sumac	<i>Rhus typhina</i>	Very poor
1750	6.6	Green ash	<i>Fraxinus pennsylvanica</i>	Dead
1751	9.5	Black cherry	<i>Prunus serotina</i>	Very good
1752	20.1	Red oak	<i>Quercus rubra</i>	Very good
1753	7.5	Red pine	<i>Pinus resinosa</i>	Very poor
1754	17.5	Eastern cottonwood	<i>Populus deltoides</i>	Good
1755	8.9	Red pine	<i>Pinus resinosa</i>	Very poor

Tree #	D.B.H.	Common Name	Scientific Name	Condition
1756	22.25	Red oak	<i>Quercus rubra</i>	Very good
1757	6.35	Red pine	<i>Pinus resinosa</i>	Dead
1758	8	Eastern cottonwood	<i>Populus deltoides</i>	Dead
1759	17.15, 11	Eastern cottonwood	<i>Populus deltoides</i>	Very good
1760	14	Black cherry	<i>Prunus serotina</i>	Very good
1761	6.65	Green ash	<i>Fraxinus pennsylvanica</i>	Poor
1762	12.15	Black cherry	<i>Prunus serotina</i>	Good
1763	10.3	Green ash	<i>Fraxinus pennsylvanica</i>	Very good
1764	8.6	Black cherry	<i>Prunus serotina</i>	Very good
1765	6.65	Green ash	<i>Fraxinus pennsylvanica</i>	Good
1766	7.45	Green ash	<i>Fraxinus pennsylvanica</i>	Good
1767	13.6	Black cherry	<i>Prunus serotina</i>	Very good
1768	6	Box elder	<i>Acer negundo</i>	Very good
1769	17.3	Red oak	<i>Quercus rubra</i>	Very good
1770	7.5	Green ash	<i>Fraxinus pennsylvanica</i>	Dead
1771	27.5	Eastern cottonwood	<i>Populus deltoides</i>	Very good
1772	12.5	Black cherry	<i>Prunus serotina</i>	Very good
1773	22	Eastern cottonwood	<i>Populus deltoides</i>	Moderate
1774	13.1	Red pine	<i>Pinus resinosa</i>	Very poor
1775	12	Red pine	<i>Pinus resinosa</i>	Very poor
1776	12	Red pine	<i>Pinus resinosa</i>	Very poor
1777	6	Red pine	<i>Pinus resinosa</i>	Very poor
1778	10	Green ash	<i>Fraxinus pennsylvanica</i>	Very poor
1779	7.6	Sugar maple	<i>Acer saccharum</i>	Very good
1780	6	Autumn olive	<i>Elaeagnus umbellata</i>	Excellent
1781	15.9	White mulberry	<i>Morus alba</i>	Poor
1782	17	Eastern redcedar	<i>Juniperus virginiana</i>	Poor
1783	10.6	Sugar maple	<i>Acer saccharum</i>	Very good
1784	15.5	Black cherry	<i>Prunus serotina</i>	Good
1785	14.5	Black cherry	<i>Prunus serotina</i>	Good
1786	19	Red pine	<i>Pinus resinosa</i>	Very poor
1787	6.4	Sugar maple	<i>Acer saccharum</i>	Very good
1788	7	Sugar maple	<i>Acer saccharum</i>	Very good
1789	6.1	Sugar maple	<i>Acer saccharum</i>	Very good
1790	23.3	Eastern cottonwood	<i>Populus deltoides</i>	Very good
1791	23	Eastern cottonwood	<i>Populus deltoides</i>	Good
1792	6.8	Green ash	<i>Fraxinus pennsylvanica</i>	Dead
1793	8.7	Black cherry	<i>Prunus serotina</i>	Good
1794	10.5	Green ash	<i>Fraxinus pennsylvanica</i>	Very good
1795	6.8	Green ash	<i>Fraxinus pennsylvanica</i>	Poor
1796	15	Sugar maple	<i>Acer saccharum</i>	Very good
1797	10.6	Eastern redcedar	<i>Juniperus virginiana</i>	Very poor
1798	10	Green ash	<i>Fraxinus pennsylvanica</i>	Dead
1799	6.4, 7.2	Green ash	<i>Fraxinus pennsylvanica</i>	Dead
1800	15.9, 13, 10.6	Red pine	<i>Pinus resinosa</i>	Poor
1801	6.2	Green ash	<i>Fraxinus pennsylvanica</i>	Dead
1802	12.2	Black cherry	<i>Prunus serotina</i>	Good
1803	11.15, 12	Black cherry	<i>Prunus serotina</i>	Very good
1804	6.7	Box elder	<i>Acer negundo</i>	Very good
1805	7.5	Green ash	<i>Fraxinus pennsylvanica</i>	Poor
1806	13.5	Sugar maple	<i>Acer saccharum</i>	Very good
1807	11	Sugar maple	<i>Acer saccharum</i>	Very good
1808	6.4	Staghorn sumac	<i>Rhus typhina</i>	Good
1809	6.3	Red pine	<i>Pinus resinosa</i>	Poor



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Revisions

Brivar

MCA
Dynamic. Daring. Diverse. DIFFERENT.

Project Number: 1051-26-14321 Date: 5/28/2026
 P.M. Checked by: ARW Drawn by: ARW/WS Crew/Book N/A

Client: **BRIVAR CONSTRUCTION CO.**

Project: **SAUGATUCK TWP. FIRE DISTRICT BUILDING ADDITION**

Site Address: 415 WEST WILEY ROAD
 CITY OF DOUGLAS, MI 49406
 County: ALLEGAN Community: DOUGLAS
 Township: 3N Range: 16W Section: 21

Professional Name: ANDREW R. WALTERS, PE Date: 6/4/2026

Title: **SITEPLAN EXISTING TREE INVENTORY PLAN AND LIST**

Drawing Scale: 1" = 20' Sheet Number: **03**

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 County: ALLEGAN Community: DOUGLAS
 Township: 3N Range: 16W Section: 21

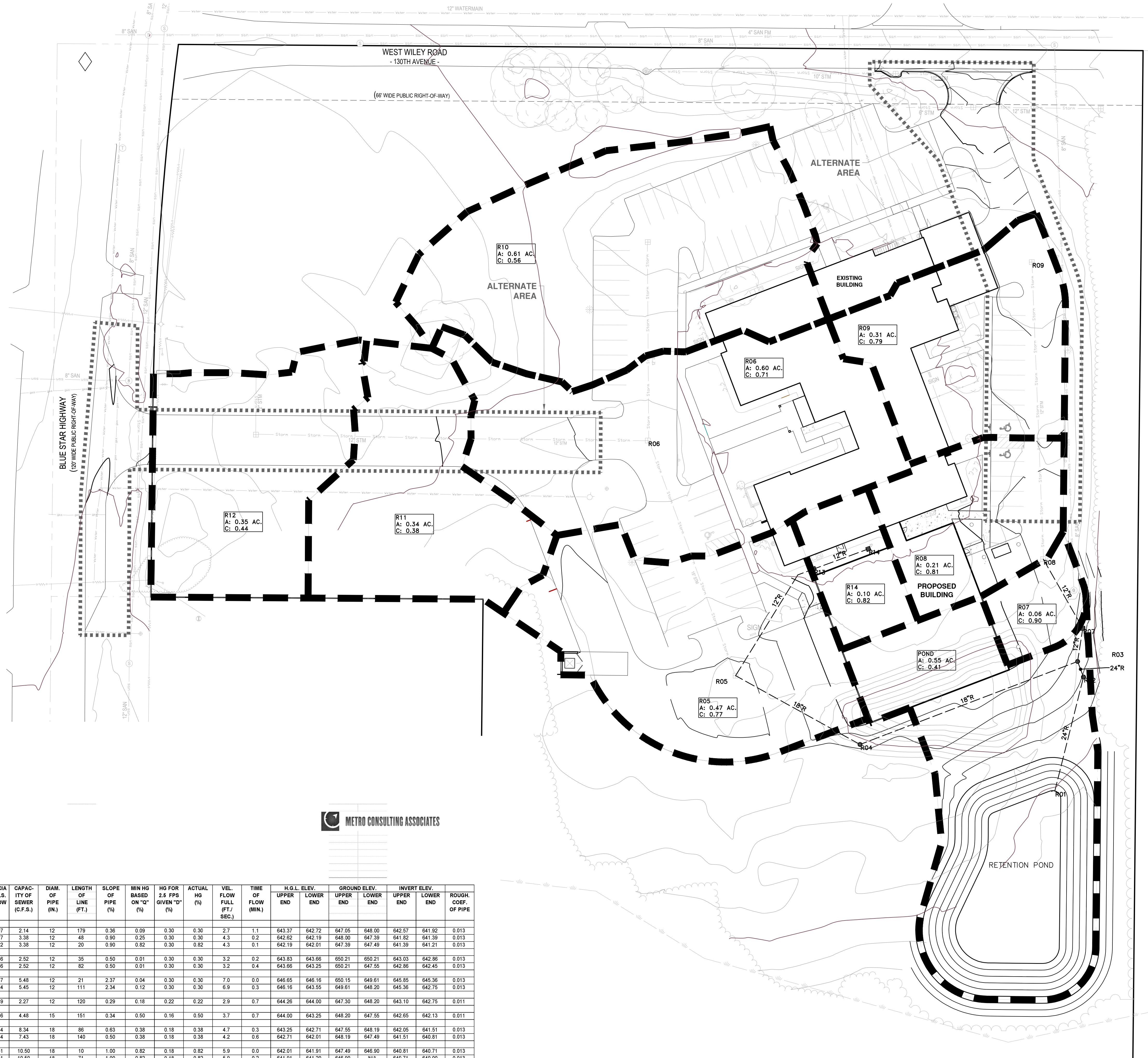
Professional Name: ANDREW R. WALTERS, PE Date: 6/4/2026

Title: **SITEPLAN STORM WATER MANAGEMENT PLAN**

Drawing Scale: 1" = 30' Sheet Number: **07**

LEGEND

- EX. SPOT ELEVATION
- EX. CONTOUR
- EX. BOUNDARY LINE
- EX. WETLAND LIMITS
- EX. ADJACENT PROPERTY LINE
- EX. RIGHT-OF-WAY
- EX. SECTION LINE
- EX. EASEMENT LINE
- EX. SETBACK LINE
- EX. CURB/PAVEMENT
- EX. FENCE
- EX. GRAVEL
- EX. TREELINE
- EX. TREE (CONIFEROUS)
- EX. TREE (DECIDUOUS)
- EX. SIGN
- EX. MAILBOX
- EX. FOUND IRON PIPE
- EX. SECTION CORNER
- EX. WATER MAIN
- EX. WATER VALVE
- EX. HYDRANT
- EX. WATER MANHOLE
- EX. WELL
- EX. WATER METER
- EX. STORM SEWER
- EX. STORM INLET/CATCH BASIN
- EX. STORM MANHOLE
- EX. STORM END SECTION
- EX. SANITARY SEWER
- EX. SANITARY MANHOLE
- EX. CLEAN OUT
- EX. UNDERGROUND GAS
- EX. GAS VALVE
- EX. TEST STATION
- EX. GAS METER
- EX. UNDERGROUND CABLE
- EX. UNDERGROUND FIBER
- EX. UNDERGROUND TELEPHONE
- EX. TELEPHONE MANHOLE
- EX. TELEPHONE RISER
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND ELECTRIC
- EX. ELECTRIC MANHOLE
- EX. ELECTRIC METER/TRANSFORMER
- EX. LIGHT POLE
- EX. TRAFFIC SIGNAL POLE
- EX. UTILITY POLE
- EX. GUY WIRE
- EX. TRAFFIC SIGNAL BOX
- EX. UNIDENTIFIED MANHOLE
- PR. SPOT ELEVATION
- PR. CONTOUR
- PR. DRAINAGE ARROW
- PR. EASEMENT LINE
- PR. SETBACK LINE
- PR. CURB/PAVEMENT
- PR. FENCE
- PR. SIDEWALK RAMP
- PR. STANDARD DUTY HMA PAVEMENT
- PR. HEAVY DUTY HMA PAVEMENT
- PR. CONCRETE
- PR. GUARDRAIL
- PR. SIGN
- PR. WATER MAIN
- PR. WATER VALVE
- PR. HYDRANT
- PR. WATER VALVE IN MANHOLE
- PR. WELL
- PR. REDUCER
- PR. STORM SEWER
- PR. STORM INLET/CATCH BASIN
- PR. STORM MANHOLE
- PR. STORM END SECTION
- PR. SANITARY SEWER
- PR. SANITARY MANHOLE
- PR. CLEANOUT
- PR. UTILITY CROSSING LOCATION
- PR. UNDERGROUND GAS
- PR. GAS VALVE
- PR. LIGHT POLE



ON-SITE STORM SEWER CONVEYANCE SYSTEM DESIGN

Project: Saugatuck Fire Dept. Reno Community: Scio Township
 Date: June 4, 2026 County: Washtenaw
 Revision: 0

$I = \frac{B(T+D)^E}{C}$
 B = 175.0 D = 25.0 E = 1
 C = varies
 T = 15 (min)

FROM MH INPUT	TO MH	INCR. AREA (A)	C	EQUIV. AREA 100% ACRES	TOTAL AREA 100% ACRES SUM CA	T TIME (MIN.)	I (IN PER HOUR)	Q=CIA C.F.S. FLOW	CAPAC. ITY OF SEWER (C.F.S.)	DIAM. OF PIPE (IN.)	LENGTH OF LINE (FT.)	SLOPE OF PIPE (%)	MIN HG BASED ON "Q" (%)	HG FOR 2.5 FPS GIVEN "D" (%)	ACTUAL HG (%)	VEL. FLOW FULL (FT./ SEC.)	TIME OF FLOW (MIN.)	H.G.L. ELEV. UPPER END	H.G.L. ELEV. LOWER END	GROUND ELEV. UPPER END	GROUND ELEV. LOWER END	INVERT ELEV. UPPER END	INVERT ELEV. LOWER END	ROUGH. COEF. OF PIPE
EX9	EX8	0.31	0.79	0.24	0.24	15.00	4.38	1.07	2.14	12	179	0.36	0.09	0.30	0.30	2.7	1.1	643.37	642.72	647.05	646.00	642.57	641.92	0.013
EX8	RY	0.21	0.61	0.17	0.42	16.10	4.26	1.77	3.38	12	48	0.90	0.25	0.30	0.30	4.3	0.2	642.62	642.19	648.90	647.39	641.82	641.39	0.013
RY	R3	0.93	0.37	0.35	0.76	16.30	4.24	3.22	3.38	12	20	0.90	0.82	0.30	0.82	4.3	0.1	642.19	642.01	647.39	647.49	641.39	641.21	0.013
R14	R13	0.10	0.82	0.08	0.08	15.00	4.38	0.36	2.52	12	35	0.50	0.01	0.30	0.30	3.2	0.2	643.83	643.66	650.21	650.21	643.03	642.96	0.013
R13	EX5	0.90	0.90	0.00	0.08	15.20	4.35	0.36	2.52	12	82	0.50	0.01	0.30	0.30	3.2	0.4	643.66	643.25	650.21	647.55	642.86	642.45	0.013
EX12	EX11	0.35	0.44	0.15	0.15	15.00	4.38	0.67	5.48	12	21	2.37	0.04	0.30	0.30	7.0	0.0	646.65	646.16	650.15	649.61	645.85	645.36	0.013
EX11	EX6	0.34	0.38	0.13	0.28	15.00	4.38	1.24	5.45	12	111	2.34	0.12	0.30	0.30	6.9	0.3	646.16	643.55	649.61	648.20	645.36	642.75	0.013
EX10	EX6	0.61	0.56	0.34	0.34	15.00	4.38	1.49	2.27	12	120	0.29	0.18	0.22	0.22	2.9	0.7	644.26	644.00	647.30	646.20	643.10	642.75	0.011
EX6	EX6	0.60	0.71	0.43	1.05	15.30	4.34	4.56	4.48	15	151	0.34	0.50	0.16	0.50	3.7	0.7	644.00	643.25	648.20	647.55	642.65	642.13	0.011
EX5	R4	0.47	0.77	0.36	1.49	15.60	4.31	6.44	8.34	18	96	0.63	0.38	0.18	0.38	4.7	0.3	643.25	642.71	647.55	646.19	642.05	641.51	0.013
R4	R3	0.30	0.00	0.00	1.49	15.90	4.28	6.44	7.43	18	140	0.50	0.38	0.18	0.38	4.2	0.6	642.71	642.01	648.19	647.49	641.51	640.81	0.013
R3	R2	0.30	0.00	0.00	2.26	16.50	4.22	9.51	10.50	18	70	1.00	0.82	0.18	0.82	5.9	0.0	642.01	641.91	647.49	646.90	640.81	640.71	0.013
R2	R1	0.30	0.00	0.00	2.26	16.50	4.22	9.51	10.50	18	71	1.00	0.82	0.18	0.82	5.9	0.2	641.91	641.20	646.90	N/A	640.71	640.00	0.013



SOIL EROSION & SEDIMENT CONTROL NOTES:

SITE LOCATION: SECTION 21, TOWNSHIP 3N, RANGE 16W; (ALLEGAN COUNTY, MICHIGAN)

RECEIVING WATER: TANNERY CREEK

SITE SOILS INFORMATION:

44B - CHELSEA LOAMY FINE SAND, 0 TO 6 PERCENT SLOPES

PER THE NATIONAL RESOURCES CONSERVATION SERVICE (NRCS) SOIL SURVEY

APPROXIMATE AREA OF DISTURBANCE: ±2.07 ACRES

PERSON RESPONSIBLE FOR ON-SITE SOIL EROSION CONTROL

CONTRACTOR: TBD

PHONE: TBD

FAX: TBD

APPROXIMATE CONSTRUCTION SCHEDULE IS AS FOLLOWS:

- 8/2026 PROJECT START DATE
- 8/2026 TEMPORARY EROSION CONTROL MEASURES INSTALLED
- 9/2026 GRAVEL CONSTRUCTION ENTRANCE INSTALLED
- 10/2026 DETENTION FACILITIES INSTALLED
- 11/2026 UTILITIES / STORM SEWER INSTALLED
- 12/2026 FIRST COURSE OF PAVEMENT, CURB AND GUTTER INSTALLED
- 1/2027 BUILDING CONSTRUCTION
- 2/2027 FINAL COURSE PAVING INSTALLED
- 3/2027 FINAL GRADING / SEEDING
- 4/2027 PERMANENT EROSION CONTROL MEASURES IN PLACE
- 5/2027 TEMPORARY EROSION CONTROL MEASURES REMOVED
- 7/2027 PROJECT END DATE

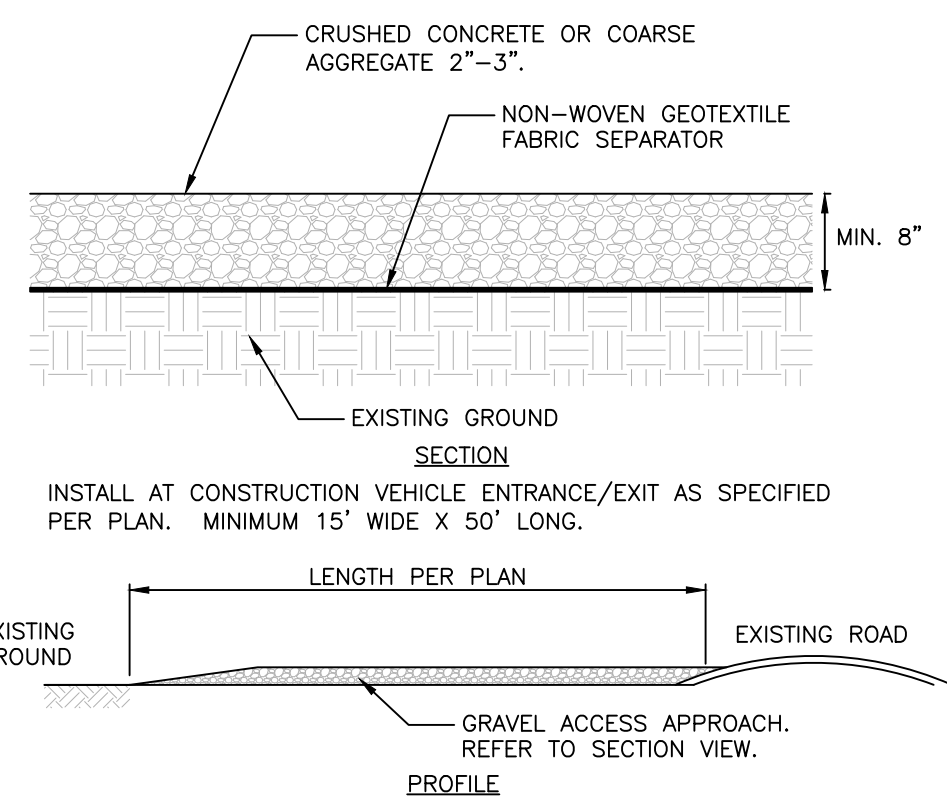
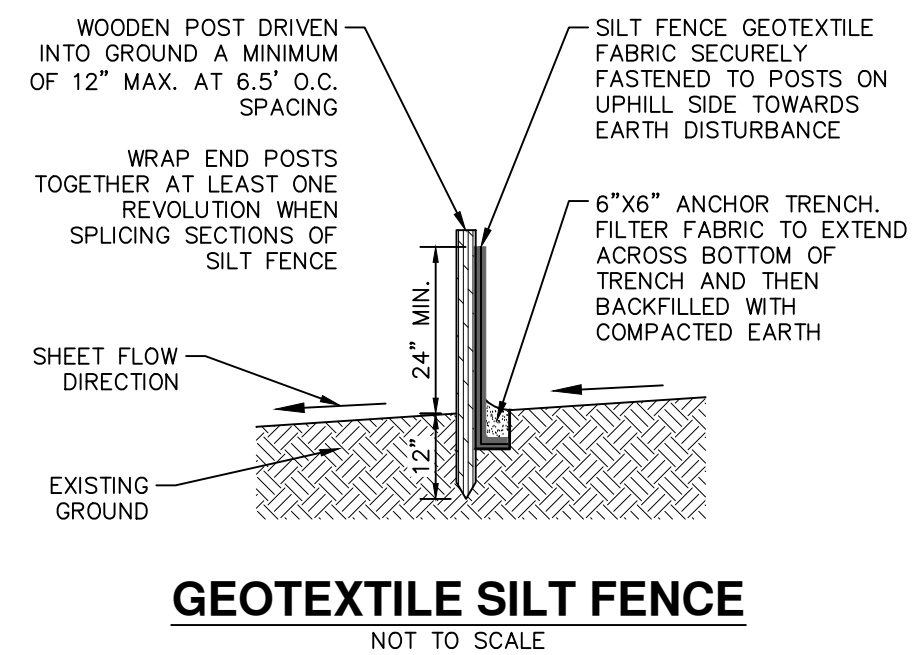
GENERAL SOIL EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL CONFORM TO PART 91 OF ACT 451 OF THE PUBLIC ACTS OF 1994; EROSION AND SEDIMENT CONTROL OF RUNOFF DURING CONSTRUCTION (AS AMENDED) AND CURRENT LOCAL ORDINANCES FOR EROSION AND SEDIMENTATION CONTROL.
2. PRIOR TO ANY EARTH CHANGE, THE DEVELOPER SHALL SUBMIT A DETAILED EROSION CONTROL PLAN, COMPLETED APPLICATION AND CHECKLIST FORMS, PAY ALL FEES AND POST AN EROSION CONTROL PERFORMANCE BOND, AS REQUESTED.
3. CONSTRUCTION OPERATION SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
4. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
5. CLEANUP WILL BE DONE IN A MANNER TO ENSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.
6. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR STORM WATER DISCHARGE FROM THE CONSTRUCTION ACTIVITIES IS REQUIRED PRIOR TO ANY EARTH CHANGE ON SITE WITH DISTURBANCE GREATER THAN 5 ACRES.
7. THE CONTRACTOR IS REQUIRED TO KEEP A COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN AND PERMIT AT THE CONSTRUCTION SITE.
8. ALL SOIL EROSION CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL SUCH MEASURES ARE PERMANENTLY STABILIZED AS DETERMINED BY THE SOIL EROSION INSPECTOR.
9. DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLANS SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE LOCAL JURISDICTION OR THE SOIL EROSION INSPECTOR.
10. TEMPORARY AND PERMANENT STABILIZATION SHALL BE CONDUCTED PER THE TABLE BELOW.
11. TRENCH AND GROUND WATER MUST PASS THROUGH A SEDIMENT POND, FILTER BAG OR OTHER COMPARABLE METHOD PRIOR TO DISCHARGING FROM THE SITE. IF USING A FILTER BAG, IT SHOULD BE PLACED ON FLAT GROUND TO ENSURE EFFICIENCY. THE FILTER BAG SHOULD BE LOCATED A SUFFICIENT DISTANCE FROM THE EXISTING WATERCOURSE OR WETLAND TO ALLOW PROPER SETTLING OR FILTERING THROUGH NATURAL VEGETATION. DEWATERING DISCHARGE SHALL BE MONITORED FOR ANY EROSION CONDITIONS. IF EROSION OCCURS, DEWATERING OPERATIONS MUST CEASE AND THE ERODED AREA MUST BE STABILIZED IMMEDIATELY, AND MAY RESUME ONLY AFTER STABILIZATION IS COMPLETE.
12. ANY TEMPORARY SOIL STOCKPILE SHALL OCCUR WITHIN THE LIMITS OF THE SILT FENCE. STOCKPILES TO BE GRADED TO A MAXIMUM OF 3:1 SIDE SLOPE.
13. A CONCRETE WASHOUT AREA SHALL BE DESIGNATED AND UTILIZED AS NECESSARY. CONCRETE TRUCKS ARE NOT PERMITTED TO WASH OUT DIRECTLY INTO STORM SEWERS, STREAMS, OR CHANNELS.
14. GRADING SHALL BE DONE AS TO NOT DISRUPT THE STORM WATER FROM ADJACENT PROPERTIES.
15. NO SOLID OR LIQUID WASTE, INCLUDING BUILDING MATERIALS OR THEIR PACKAGING, SHALL DISCHARGE INTO STORM WATER RUN OFF.
16. CONTAMINATED SOILS WHERE CONSTRUCTION SITE CHEMICALS HAVE BEEN SPILLED MUST BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

MAINTENANCE REQUIREMENTS:

1. ALL BMPs MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UPSLOPE AREAS THEY CONTROL ARE PERMANENTLY RESTABILIZED.
2. QUALIFIED PERSONNEL (PROVIDED BY THE DEVELOPER) MUST INSPECT ALL BMPs AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL WITHIN ANY 24-HOUR PERIOD AND DETERMINE IF THE SWP3 HAS BEEN PROPERLY IMPLEMENTED.
3. WRITTEN REPORTS SUMMARIZING INSPECTION RESULTS MUST BE MADE AVAILABLE UPON REQUEST. REPORTS MUST INCLUDE: DATE OF INSPECTION, NAME AND QUALIFICATIONS OF THE INSPECTOR, WEATHER CONDITIONS, LOCATIONS WHERE IN-STREAM OR OFF-SITE SEDIMENTATION WAS OBSERVED, LOCATION OF BMPs NEEDING MAINTENANCE, LOCATIONS OF BMPs FAILING TO OPERATE CORRECTLY OR PROVIDE ADEQUATE PROTECTION, OR LOCATION OF AREAS IN NEED OF ADDITIONAL BMPs NOT IN PLACE AT THE TIME OF INSPECTION.
4. THE REPORTS MUST IDENTIFY INCIDENTS OF NON-COMPLIANCE WITH THE NPDES PERMIT. WHERE A REPORT DOES NOT IDENTIFY INCIDENTS OF NON-COMPLIANCE, THE REPORT MUST CONTAIN A CERTIFICATION THAT THE SITE IS IN COMPLIANCE AT THE TIME OF INSPECTION.
5. MAINTENANCE OR REPAIR OF BMPs MUST BE COMPLETED WITHIN 3 DAYS OF THE DATE OF THE INSPECTION THAT REVEALED THEY WERE DEFICIENT. FOR SEDIMENT PONDS, REPAIR OR MAINTENANCE IS REQUIRED WITHIN 10 DAYS OF THE INSPECTION.
6. WHEN INSPECTIONS REVEAL THAT A BMP IS NOT EFFECTIVE AND THAT ANOTHER, MORE APPROPRIATE BMP IS REQUIRED, THE SWP3 MUST BE AMENDED AND THE MORE APPROPRIATE BMP MUST BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION THAT REVEALED THE DEFICIENCY.
7. WHEN THE INSPECTION REVEALS THAT A BMP DEPICTED ON THE SWP3 HAS NOT BEEN INSTALLED, BUT IS REQUIRED TO PROVIDE ADEQUATE CONTROL AT THE SITE, IT MUST BE INSTALLED PRIOR TO THE NEXT STORM EVENT, WHICH PRODUCES RUNOFF, BUT IN NO CASE LATER THAN 10 DAYS FROM THE DATE OF INSPECTION, WHICH REVEALED THE DEFICIENCY.
8. THE REPORTS MUST BE MAINTAINED FOR THREE (3) YEARS FOLLOWING THE SUBMITTAL OF A NOTICE OF TERMINATION.

TEMPORARY STABILIZATION	
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50 FEET OF A STREAM AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 21 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 21 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A STREAM	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
DISTURBED AREAS THAT WILL BE IDLE OVER THE WINTER	PRIOR TO THE ONSET OF WINTER WEATHER
PERMANENT STABILIZATION	
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ON YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A STREAM AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA



TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE

MAINTENANCE NOTES:

1. ALL DIRT AND MUD TRACKED ONTO ROADS DUE TO CONSTRUCTION SHALL BE REMOVED ON A DAILY BASIS BY THE CONTRACTOR.
2. SHOULD DUST BECOME A PROBLEM AT THE SITE, THE CONTRACTOR SHALL PROVIDE WATERING OR OTHER METHOD OF DUST CONTROL ACCEPTABLE TO THE ALLEGAN COUNTY DRAIN COMMISSIONER.
3. TEMPORARY STONE ACCESS DRIVE:
 - 3.1. CRUSHED Limestone BASE SHALL BE PLACED ON A GEOTEXTILE FILTER CLOTH OR APPROVED ALTERNATIVE.
 - 3.2. ADDITIONAL LAYERS OF STONE OR CRUSHED Limestone BASE SHALL BE ADDED IN LAYERS AND COMPACTED.
 - 3.3. STEPS SHALL BE TAKEN TO REPAIR IF RUTS OR POOLING WATER APPEAR.
4. SILT FENCE:
 - 4.1. BUILT-UP SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE SILT FENCE.
 - 4.2. IF SILT FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USEABLE LIFE, AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE PROMPTLY REPLACED.
5. INLET FILTERS:
 - 5.1. INLET FILTERS SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF RAINFALL AND DAILY DURING PROLONGED RAIN.
 - 5.2. BUILT-UP SEDIMENT AND DEBRIS SHALL BE REMOVED PROMPTLY.
 - 5.3. IF FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USEABLE LIFE AND THE BARRIER IS STILL REQUIRED, INLET FILTER SHALL BE REPLACED.

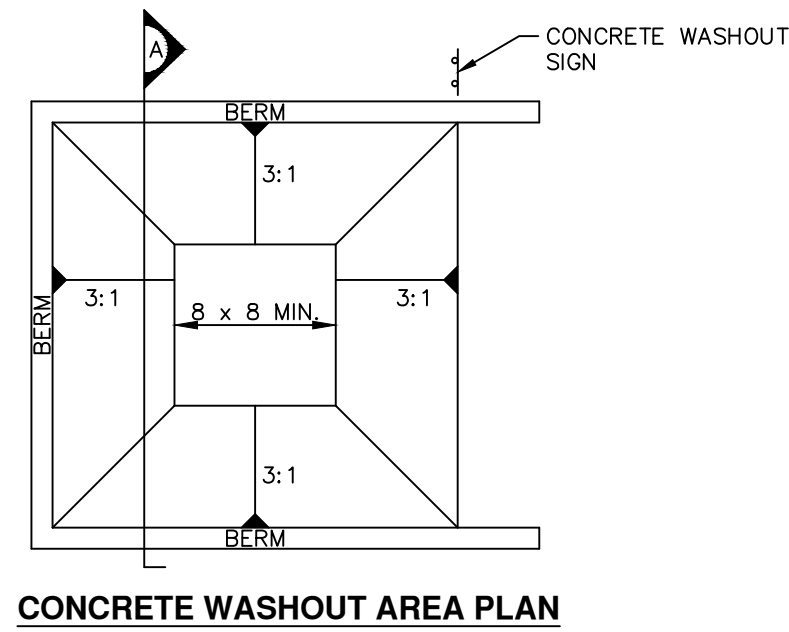
STABILIZATION SPECIFICATIONS

"TEMPORARY SEEDING" NO AREA FOR WHICH GRADING HAS BEEN COMPLETED SHALL BE LEFT UNSEEDED OR UNMULCHED FOR LONGER THAN 21 DAYS. IF PERMANENT SEED IS NOT APPLIED AT THIS TIME, TEMPORARY SEEDING SHALL BE DONE AT THE FOLLOWING RATES.

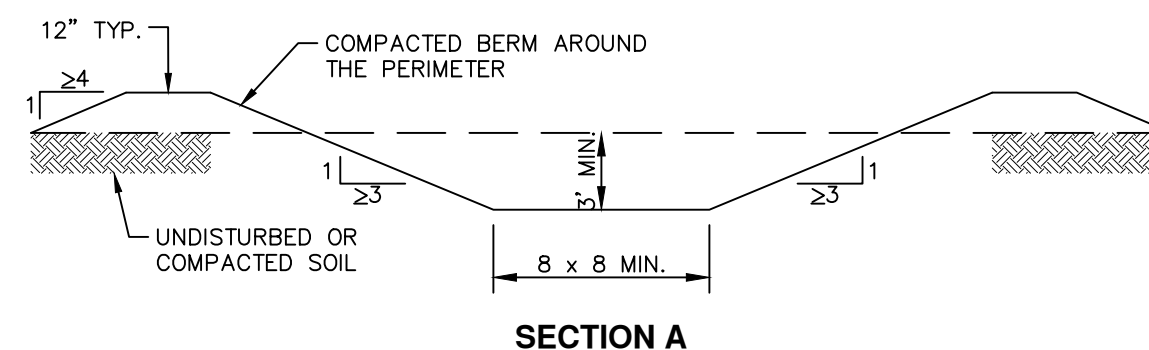
MARCH 1 TO AUGUST 15	SEED: OATS	2 LBS./1,000 SQ.FT.
	FERTILIZER: (12-12-12)	12 1/2 LBS./1,000 SQ.FT.
	MULCH: (STRAW OR HAY)	2 TONS/ACRE
AUGUST 15 TO NOVEMBER 1	SEED: ANNUAL RYE	2 LBS./1,000 SQ.FT.
	FERTILIZER: (12-12-12)	12 1/2 LBS./1,000 SQ.FT.
	MULCH: (STRAW OR HAY)	2 TONS/ACRE
NOVEMBER 1 TO MARCH 1	MULCH (ONLY): (STRAW OR HAY)	2 TONS/ACRE

"PERMANENT SEEDING" SHALL BE DONE BETWEEN MARCH 15 AND OCTOBER 15. IF SEEDING IS DONE BETWEEN OCTOBER 15 AND MARCH 15, IT SHALL BE CLASSIFIED AS "TEMPORARY SEEDING" PERMANENT SEED SHALL BE 40% KENTUCKY BLUEGRASS, 40% CREEPING RED FESCUE, 20% ANNUAL RYEGRASS. PERMANENT SEEDING SHALL CONSIST OF FERTILIZING, WATERING AND SEEDING RATES INDICATED UNDER ITEM 659. SEEDING SHALL BE APPLIED WITHIN TWO DAYS AFTER FINAL GRADING OR FOLLOWING SEED BED PREPARATION.

RATES OF APPLICATION OF ITEM 659:	SEED:	4 LBS./1,000 SQ.FT.
	FERTILIZER: (12-12-12)	20 LBS./1,000 SQ.FT.
	MULCH: (STRAW OR HAY)	2 TONS/ACRE



CONCRETE WASHOUT AREA PLAN

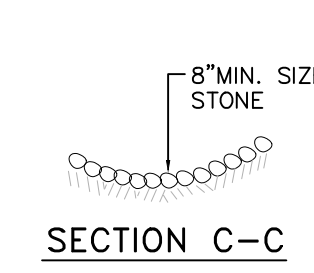
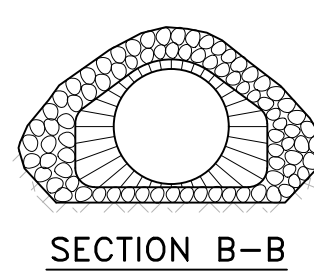


SECTION A

CWA INSTALLATION NOTES:

1. SEE PLAN VIEW FOR INSTALLATION LOCATION.
2. DO NOT LOCATE ANY UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE AREA SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8'. SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE A MINIMUM HEIGHT OF 1'.
6. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
7. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA
NOT TO SCALE



THE PROPOSED END SECTIONS ARE TO HAVE THE SPECIFIED AMOUNT OF RIP-RAP PLACED OVER GEOTEXTILE WITH THE ENDS GROUTED IN PLACE.

RIP-RAP AT PIPE END SECTIONS
NOT TO SCALE

PIPE DIAM.	D	E	F	S.Y.
12"	5'-0"	6'-6"	3'-0"	4
15"	5'-0"	7'-0"	3'-0"	4
18"	5'-0"	7'-6"	3'-6"	4
21"	5'-6"	8'-0"	4'-0"	5
24"	6'-0"	8'-6"	4'-6"	6
27"	6'-6"	9'-0"	5'-0"	7
30"	7'-0"	9'-6"	5'-6"	8
36"	8'-0"	10'-9"	6'-0"	10
42"	9'-0"	11'-9"	6'-6"	12
48"	10'-0"	13'-0"	7'-0"	14

SOIL EROSION CONTROL MAINTENANCE TASKS AND SCHEDULE

DURING CONSTRUCTION
TO BE PERFORMED BY CONTRACTOR

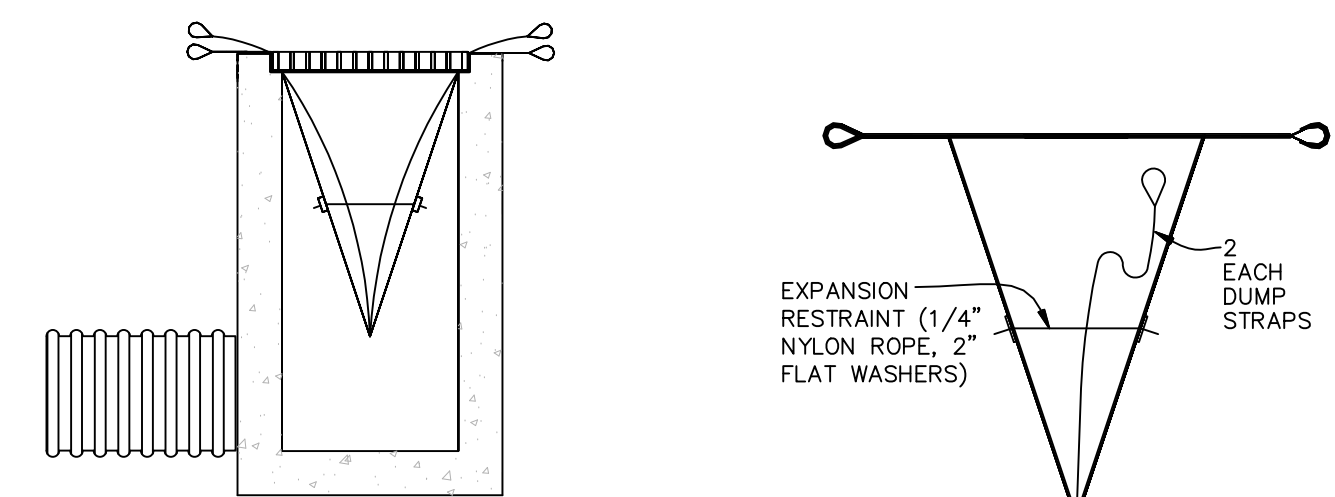
TASKS	COMPONENTS							SCHEDULE
	PAVED AREAS	PERVIOUS AREAS	RIE-RAP/SILT FENCE	STORM DRAINAGE SYSTEM	OUTLET CONTROL STR	WATER QUALITY UNIT	RETENTION POND	
INSPECT FOR SEDIMENT ACCUMULATION	x	x	x	x	x	x	x	WEEKLY
REMOVAL OF SEDIMENT ACCUMULATION	x	x	x	x	x	x	x	AS NEEDED* AND PRIOR TO TURNOVER
INSPECT FOR FLOATABLES AND DEBRIS				x	x	x	x	QUARTERLY
CLEANING FOR FLOATABLES AND DEBRIS				x	x	x	x	QUARTERLY AND AT TURNOVER
INSPECTION FOR EROSION			x	x			x	WEEKLY
REESTABLISH PERMANENT VEGETATION ON ERODED SLOPES	x						x	AS NEEDED* AND PRIOR TO TURNOVER
CLEAN DRIVES AND PARKING LOTS	x							WEEKLY OR AS DETERMINED BY PERMITTING AGENCY
WATER DISTURBED AREAS TO PROVIDE DUST CONTROL								AS NEEDED
INSPECT STRUCTURAL ELEMENTS DURING WET WEATHER AND COMPARE TO AS-BUILT PLANS (BY A PROFESSIONAL ENGINEER REPORTING TO THE OWNER)				x	x	x	x	ANNUALLY AND AT TURNOVER
MAKE ADJUSTMENTS OR REPLACEMENTS AS DETERMINED			x	x	x	x	x	AS NEEDED

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

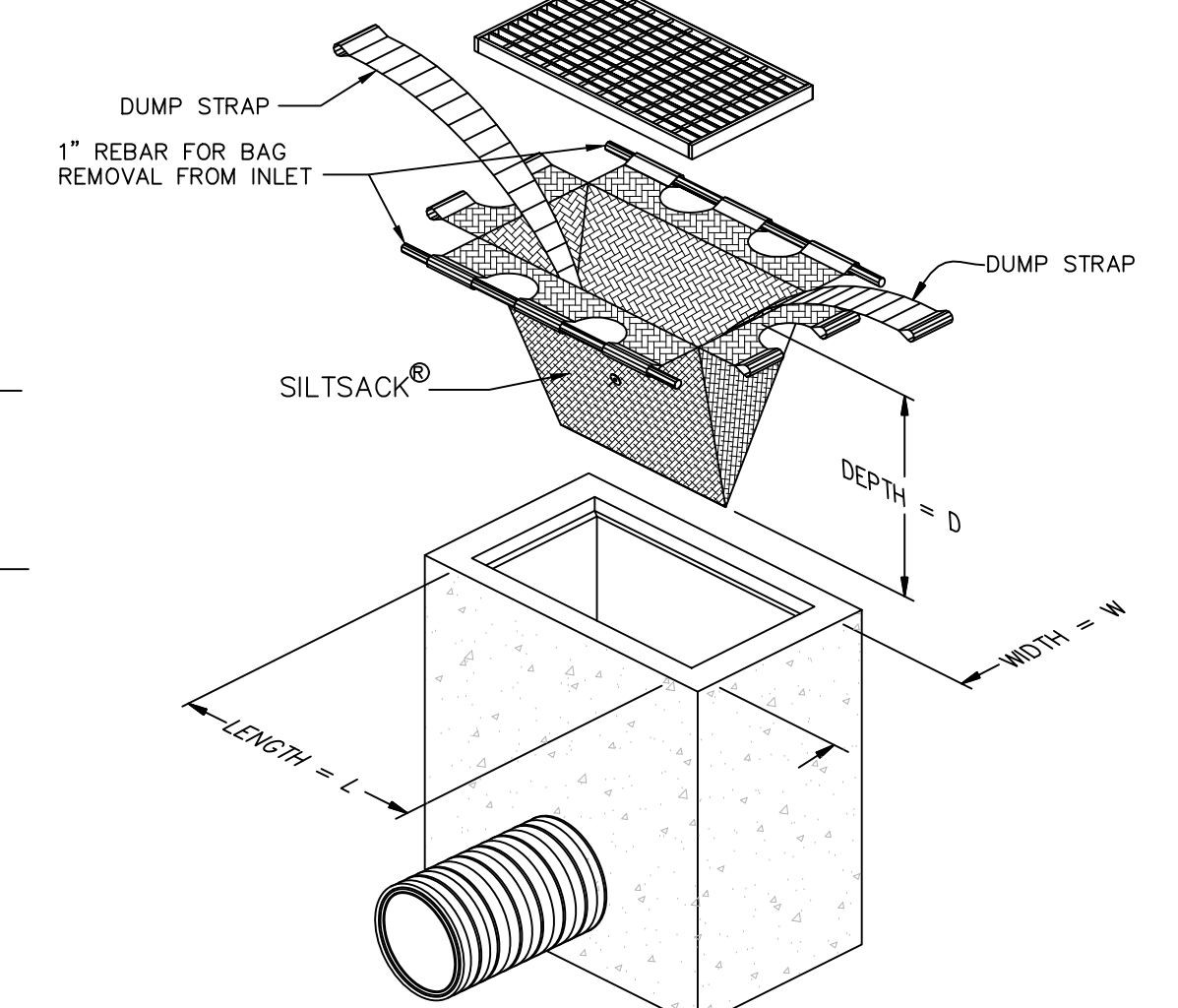
LONG TERM STORM WATER MAINTENANCE PLAN & BUDGET
TO BE PERFORMED BY OWNER OR OWNER'S REP.

TASKS	COMPONENTS							SCHEDULE	ANNUAL COST
	PAVED AREAS	PERVIOUS AREAS	STORM DRAINAGE SYSTEM	OUTLET CONTROL STR	WATER QUALITY UNIT	RETENTION POND			
INSPECT FOR SEDIMENT ACCUMULATION	x	x	x	x	x	x	SEMI-ANNUALLY/AS NEEDED*	\$100.00	
REMOVAL OF SEDIMENT ACCUMULATION	x	x	x	x	x	x	5-10 YRS/AS NEEDED*	\$200.00	
INSPECT FOR FLOATABLES AND DEBRIS			x	x	x	x	ANNUALLY	\$100.00	
CLEANING FOR FLOATABLES AND DEBRIS			x	x	x	x	ANNUALLY	\$300.00	
INSPECTION FOR EROSION			x			x	ANNUALLY/AFTER MAJOR STORMS	\$100.00	
REESTABLISH PERMANENT VEGETATION ON ERODED SLOPES	x					x	AS NEEDED	\$300.00	
CLEAN DRIVES AND PARKING LOTS	x						ANNUALLY	\$500.00	
MOWING		x		x	x		0-2 TIMES PER YEAR	\$400.00	
INSPECT STRUCTURAL ELEMENTS DURING WET WEATHER AND COMPARE TO AS-BUILT PLANS (BY A PROFESSIONAL ENGINEER REPORTING TO THE OWNER)			x	x	x	x	ANNUALLY	\$100.00	
MAKE ADJUSTMENTS OR REPLACEMENTS AS DETERMINED BY ANNUAL WET WEATHER INSPECTION			x	x	x	x	AS NEEDED	\$100.00	
INSPECTION OF BIORETENTION & SUBSURFACE INFILTRATION SYSTEM							FOLLOWING STORMS OF 1" OR MORE	\$100.00	
KEEP RECORDS OF ALL INSPECTIONS AND MAINTENANCE ACTIVITIES AND REPORT TO PROPERTY OWNER							ANNUALLY	\$50.00	
KEEP RECORDS OF ALL COSTS FOR INSPECTIONS, MAINTENANCE AND REPAIRS. REPORT TO PROPERTY OWNER							ANNUALLY	\$50.00	
PROPERTY OWNER REVIEWS COST EFFECTIVENESS OF THE PREVENTATIVE MAINTENANCE PROGRAM AND MAKES NECESSARY ADJUSTMENTS							ANNUALLY	\$50.00	
OWNER TO HAVE A PROFESSIONAL ENGINEER CARRY OUT EMERGENCY INSPECTIONS UPON IDENTIFICATION OF SEVERE PROBLEMS							AS NEEDED	\$150.00	

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



INSTALLATION DETAIL



INLET FILTER
NOT TO SCALE



THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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

Revisions

No.	Description



Project Number: 1051-26-14321 Date: 5/28/2026
 P.M. Checked By: ARW Drawn By: ARW/KW/WB/Crew/Book

Client: **BRIVAR CONSTRUCTION CO.**

Project: **SAUGATUCK TWP. FIRE DISTRICT BUILDING ADDITION**

Site Address: 415 WEST WILEY ROAD, CITY OF DOUGLAS, MI 49406

County: ALLEGAN Community: DOUGLAS
 Township: 3N Range: 16W Section: 21

Professional Name: ANDREW R. WALTERS, PE Date: 6/4/2026

Title: **SITEPLAN**
SOIL EROSION CONTROL AND SEDIMENTATION NOTES AND DETAILS

Drawing Scale: Sheet Number: 10

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Revisions

NO.	DATE	DESCRIPTION



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 P.M. Checked by: ARW Drawn by: ARW Crew/Book: ARW | KW/WS | N/A

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Professional Name: ANDREW R. WALTERS, PE Date: 6/4/2026

Title: **SITEPLAN**

LANDSCAPE PLAN

Drawing Scale: 1" = 30' Sheet Number: **11**

LEGEND

- EX. CONTOUR
- EX. BOUNDARY LINE
- EX. WETLAND LIMITS
- EX. ADJACENT PROPERTY LINE
- EX. RIGHT-OF-WAY
- EX. SETBACK LINE
- EX. CURB/PAVEMENT
- EX. FENCE
- EX. GRAVEL
- EX. TREELINE
- EX. TREE (CONIFEROUS)
- EX. TREE (DECIDUOUS)
- EX. WATER MAIN
- EX. WATER VALVE
- EX. HYDRANT
- EX. WATER MANHOLE
- EX. WELL
- EX. WATER METER
- EX. STORM SEWER
- EX. STORM INLET/CATCH BASIN
- EX. STORM MANHOLE
- EX. STORM END SECTION
- EX. SANITARY SEWER
- EX. SANITARY MANHOLE
- EX. CLEAN OUT
- EX. UNDERGROUND GAS
- EX. GAS VALVE
- EX. TEST STATION
- EX. GAS METER
- EX. UNDERGROUND CABLE
- EX. UNDERGROUND FIBER
- EX. UNDERGROUND TELEPHONE
- EX. TELEPHONE MANHOLE
- EX. TELEPHONE RISER
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND ELECTRIC
- EX. ELECTRIC MANHOLE
- EX. ELECTRIC METER/TRANSFORMER
- EX. LIGHT POLE
- EX. TRAFFIC SIGNAL POLE
- EX. UTILITY POLE
- EX. GUY WIRE
- EX. TRAFFIC SIGNAL BOX
- EX. UNIDENTIFIED MANHOLE
- PR. SPOT ELEVATION
- PR. CONTOUR
- PR. DRAINAGE ARROW
- PR. EASEMENT LINE
- PR. SETBACK LINE
- PR. CURB/PAVEMENT
- PR. FENCE
- PR. SIDEWALK RAMP
- PR. STANDARD DUTY HMA PAVEMENT
- PR. HEAVY DUTY HMA PAVEMENT
- PR. CONCRETE
- PR. GUARDRAIL
- PR. SIGN
- PR. WATER MAIN
- PR. WATER VALVE
- PR. HYDRANT
- PR. WELL
- PR. STORM SEWER
- PR. STORM INLET/CATCH BASIN
- PR. STORM MANHOLE
- PR. STORM END SECTION
- PR. SANITARY SEWER
- PR. SANITARY MANHOLE
- PR. CLEANOUT
- PR. UTILITY CROSSING LOCATION
- PR. UNDERGROUND GAS
- PR. LIGHT POLE
- PR. TREE PROTECTION FENCE

LANDSCAPE CALCULATIONS

SECTION	DESCRIPTION	REQUIRED	PROVIDED
SECTION 21.01.3)	Screening Between Land Uses (S)	0	0

An existing evergreen tree row provides screening

SECTION 21.01.4) Parking Lot Landscaping (P)
 Requirement: (1) tree per (8) parking spaces
 (0) parking spaces added for this project

SECTION	DESCRIPTION	REQUIRED	PROVIDED
SECTION 21.01.5) Site Landscaping (SL)	Requirement: 10% of site area to be landscaped Site Area = 90,170 sf 90,170 X 10% = 9,017 sf Disturbed areas will be restored with seed and mulch Additionally, trees will be planted around Retention Pond	8	8

PLANT LIST

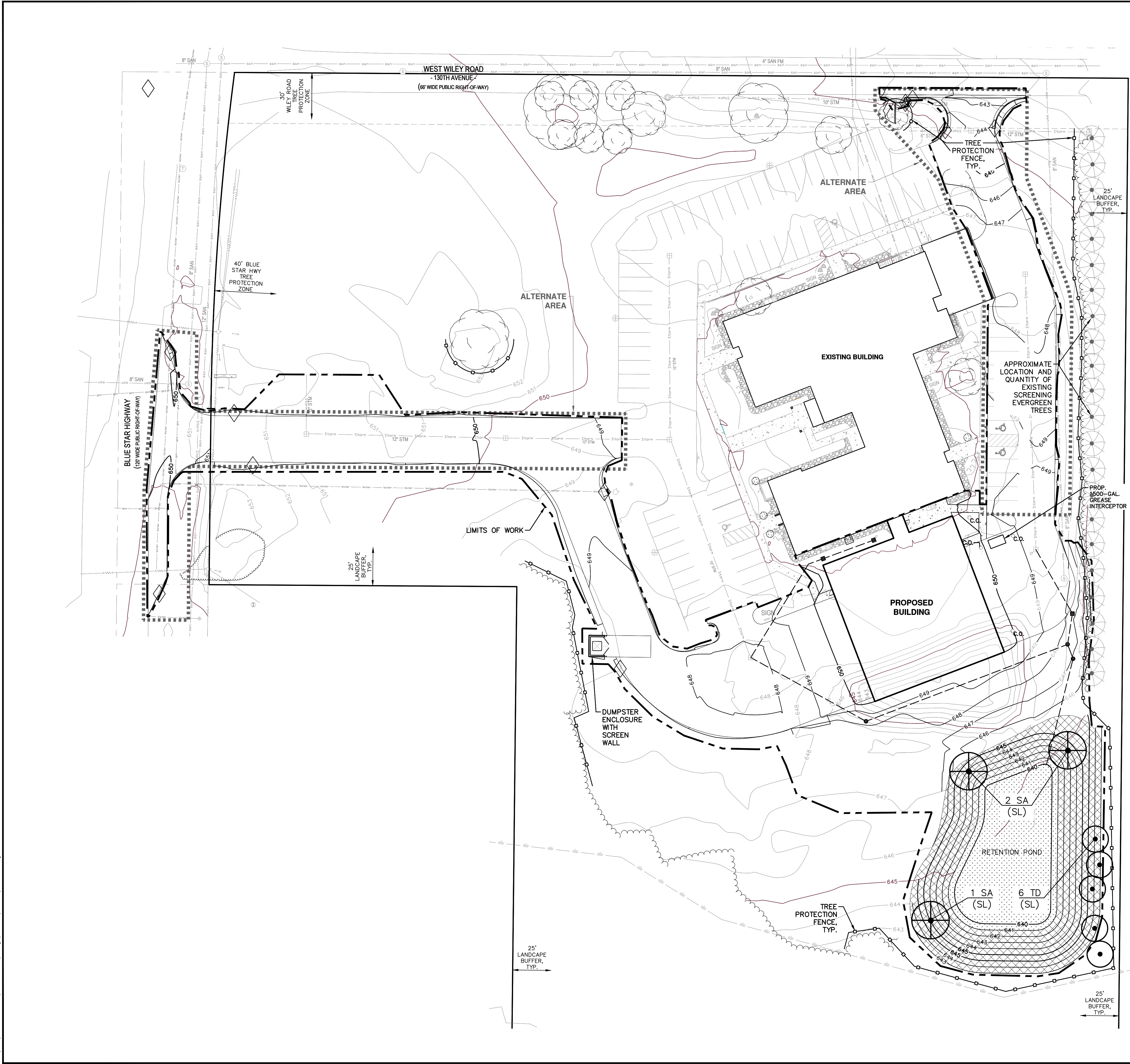
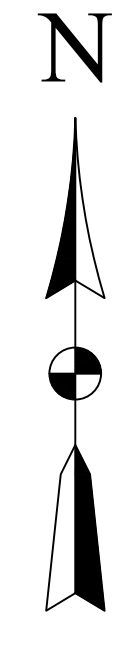
KEY	QTY.	SPECIES	MIN. SIZE	SPEC.
SA	3	WEeping WILLOW SALIX ALBA	2.5" CAL.	B&B
TD	6	BALDCYPRESS TAXODIUM DISTICHUM	6' HT.	B&B

SEED LEGEND:

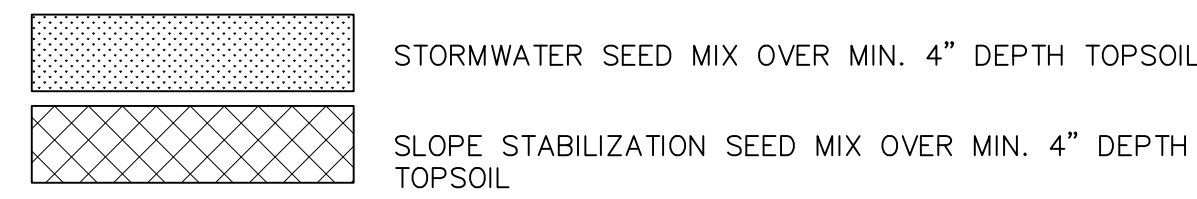
- STORMWATER SEED MIX OVER MIN. 4" DEPTH TOPSOIL
- SLOPE STABILIZATION SEED MIX OVER MIN. 4" DEPTH TOPSOIL

STANTEC NATIVE PLANT NURSERY OR SIMILAR

ALL OTHER DISTURBED AND NON-IMPROVED AREAS TO BE HYDRO-SEEDED AND MULCHED OVER MIN. 4" TOPSOIL DISTURBED AREAS WHICH MAY REVERT TO PRE-CONSTRUCTION USE SHALL HAVE TOPSOIL INSTALLED TO MATCH DEPTH OF PRE-CONSTRUCTION CONDITIONS



SEED LEGEND: STANTEC NATIVE PLANT NURSERY OR SIMILAR



ALL OTHER DISTURBED AND NON-IMPROVED AREAS TO BE HYDRO-SEEDED AND MULCHED OVER MIN. 4" TOPSOIL DISTURBED AREAS WHICH MAY REVERT TO PRE-CONSTRUCTION USE SHALL HAVE TOPSOIL INSTALLED TO MATCH DEPTH OF PRE-CONSTRUCTION CONDITIONS

POND AREA SEED MIXES:



SLOPE STABILIZATION

This grass and sedge mix is best suited for sites with slopes where erosion control is needed. Applications include embankments, dams, and levees. Use this mix in conjunction with erosion control materials for best results. This seed mix includes 7 of 8 native permanent grass and sedge species. Apply at 60.00 PLS pounds per acre.

Botanical Name	Common Name	PLS (lb/Acre)
Permanent Grasses		
<i>Andropogon gerardii</i>	Big Bluestem	48.00
<i>Bouteloua curtipendula</i>	Side-Oats Grama	16.00
<i>Carex spp.</i>	Prairie Sedge Species	4.00
<i>Elymus canadensis</i>	Canada Wild Rye	32.00
<i>Elymus virginicus</i>	Virginia Wild Rye	24.00
<i>Phleum virginicum</i>	Swish Grass	12.00
<i>Sorghastrum nutans</i>	Little Bluestem	32.00
<i>Sorghastrum nutans</i>	Indian Grass	32.00
Temporary Cover		Total 200.00
<i>Avena sativa</i>	Common Oat	640.00
<i>Lolium multiflorum</i>	Annual Rye	120.00
Temporary Cover		Total 760.00

Add a pollinator enhancement

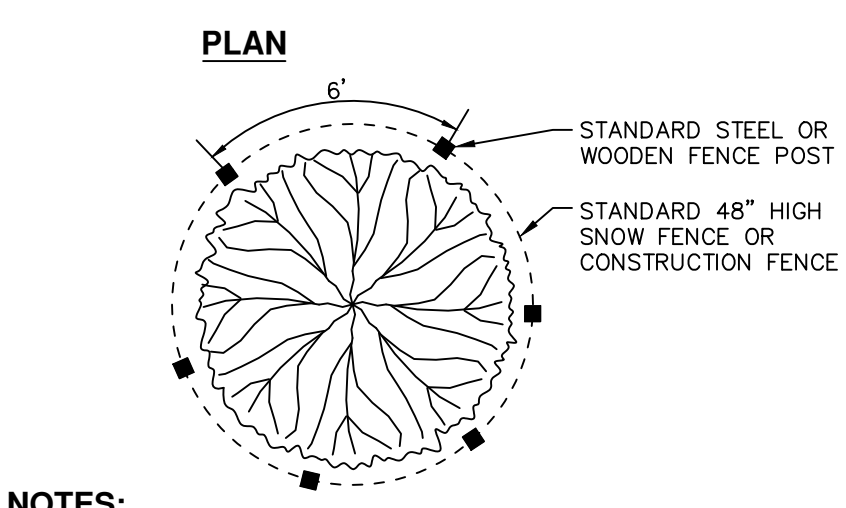
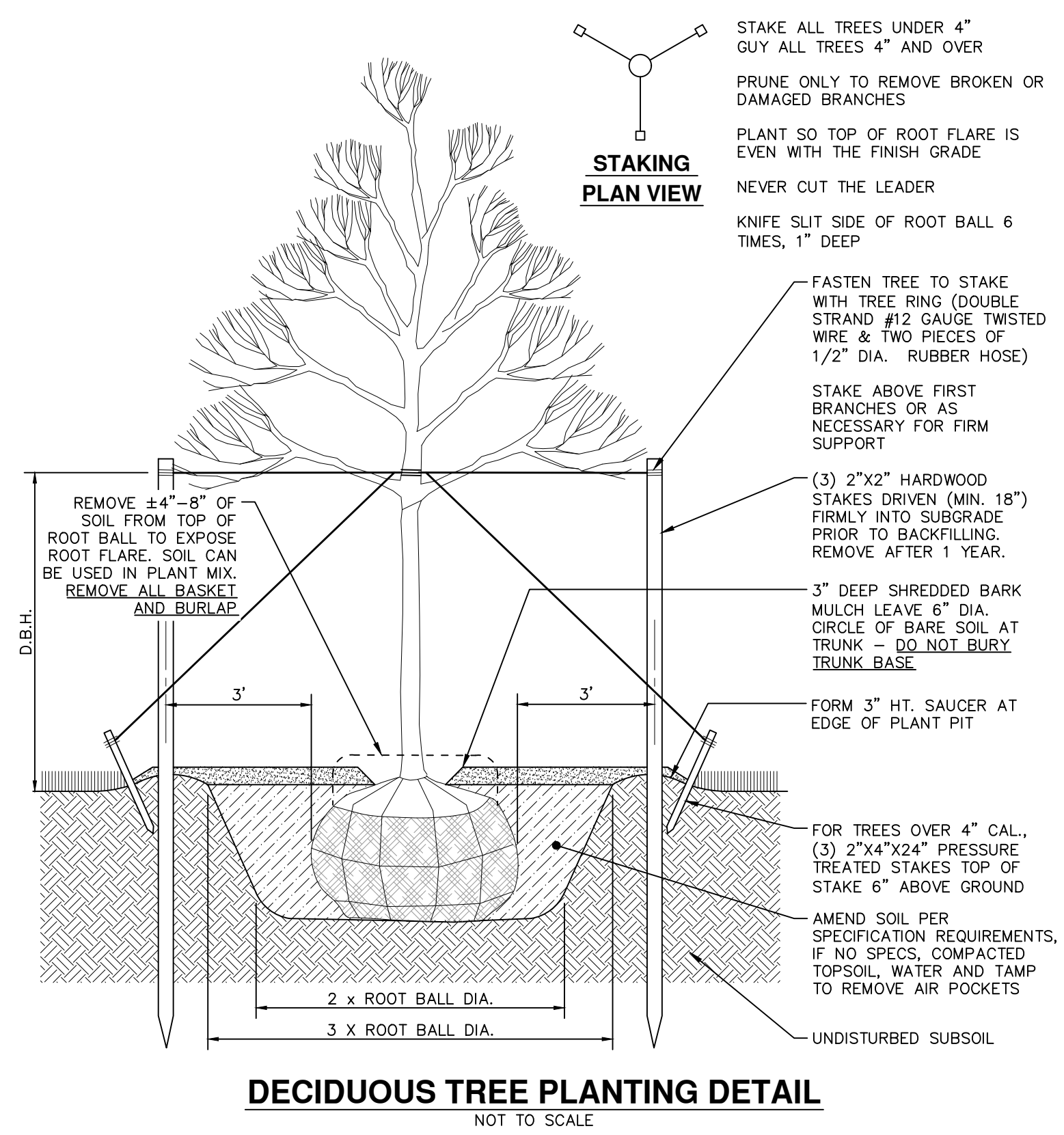
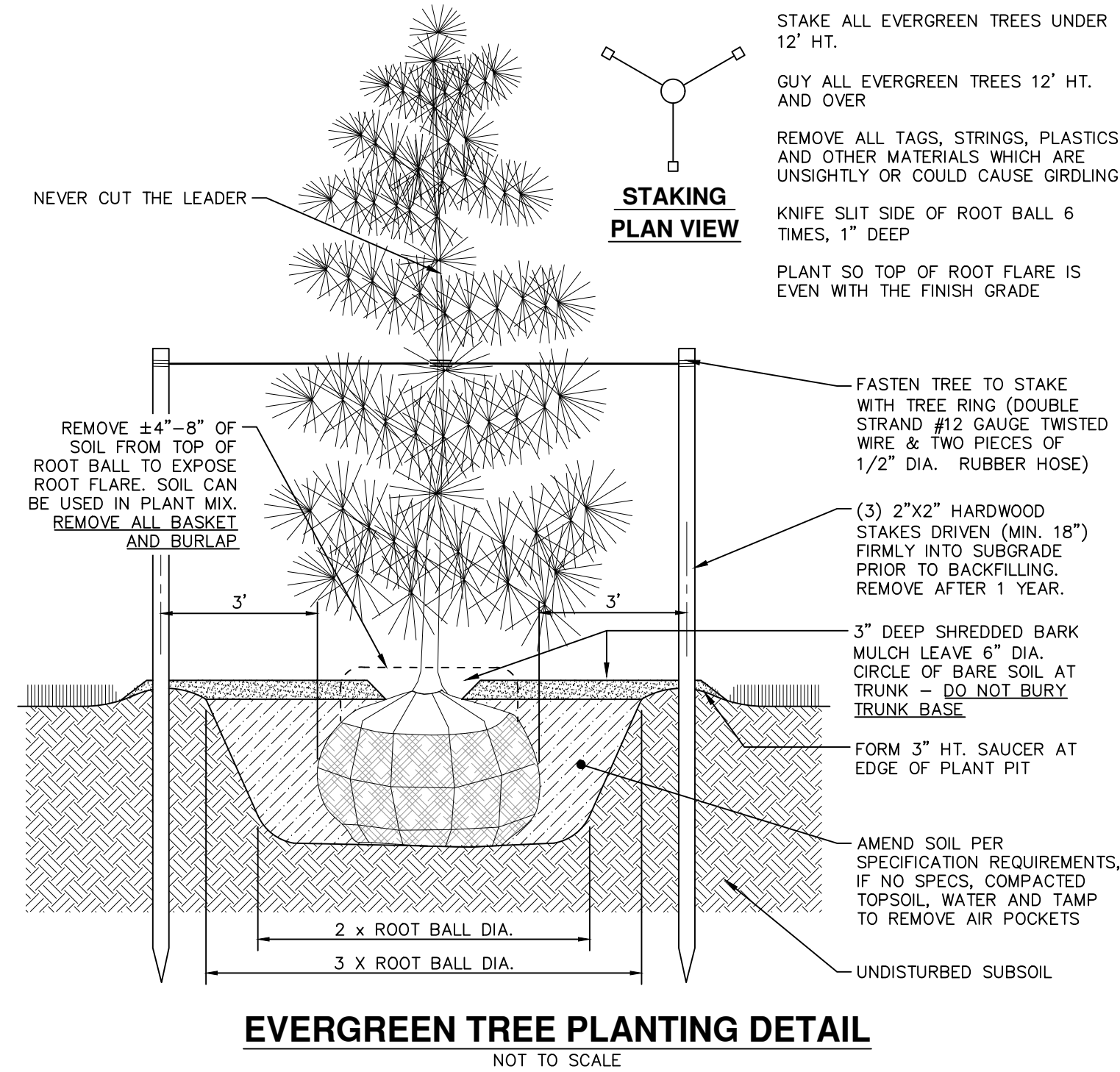
To add a pollinator enhancement to the Slope Stabilization seed mix, add our Native Wildflower seed mix (page 20) at a rate of .25 acre of Native Wildflower to 1 acre of the Slope Stabilization seed mix.

STORMWATER

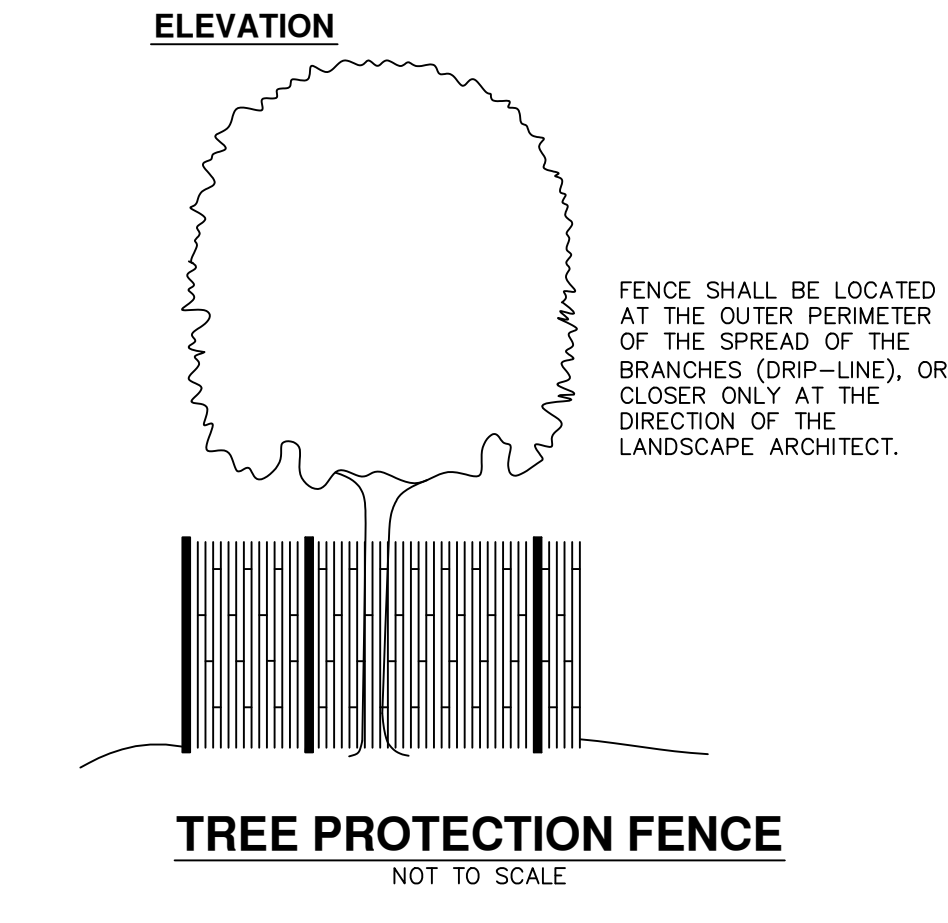
A wetland seed mix for saturated soils in a detention pond or for seeding a saturated basin, this mix will tolerate highly fluctuating water levels and poor water quality associated with urban stormwater wetlands and ponds. For detention basins that experience long, dry periods, use the Economy Prairie seed mix in the upper third to half of the basin area in combination with this mix. This seed mix includes at least 10 of 13 native permanent grass and sedge species and 13 of 17 native forb species. Apply at 36.38 PLS pounds per acre.

Botanical Name	Common Name	PLS (lb/Acre)
Permanent Grasses/Sedges/Shrubs		
<i>Bolboschoenus flexilis</i>	River Bulrush	4.00
<i>Carex cristata</i>	Crested Oval Sedge	0.50
<i>Carex lasiocarpa</i>	Button-tufted Sedge	2.50
<i>Carex rostrata</i>	Brown Fox Sedge	2.50
<i>Echinochloa obtusa</i>	Blunt Spike Rush	0.50
<i>Elymus virginicus</i>	Virginia Wild Rye	24.00
<i>Glyceria striata</i>	Fowl Manna Grass	1.50
<i>Juncus effusus</i>	Common Rush	1.50
<i>Lernaea ovocoides</i>	Rice Cut Grass	1.50
<i>Panicum virgatum</i>	Switch Grass	2.50
<i>Schoenoplectus tabernaemontani</i>	Great Bulrush	3.00
<i>Scirpus atrovirens</i>	Dark Green Rush	2.50
<i>Scirpus cyperinus</i>	Wool Grass	1.50
Permanent Grasses/Sedges/Shrubs		Total 44.50
Temporary Cover		
<i>Avena sativa</i>	Common Oat	512.50
Temporary Cover		Total 512.50

Forbs and Shrubs	Common Name	PLS (lb/Acre)
<i>Alnus subcordatum</i>	Common Water Plantain	2.50
<i>Asclepias incarnata</i>	Swamp Milkweed	2.50
<i>Bidens spp.</i>	Bidens Species	2.50
<i>Equisetum perfoliatum</i>	Common Horsetail	1.50
<i>Helenium autumnale</i>	Scaberrind	2.50
<i>Iris spp.</i>	Blue Flag Species	4.00
<i>Lycopus americanus</i>	Common Water Horehound	0.50
<i>Mimulus ringens</i>	Monkey Flower	1.50
<i>Pentstemon adonides</i>	Ditch Stonecrop	0.50
<i>Phytolacca spp.</i>	Pinkweed Species	2.50
<i>Rudbeckia hirta</i>	Sweet Black-eyed Susan	1.50
<i>Rudbeckia triloba</i>	Brown-eyed Susan	1.50
<i>Sagittaria latifolia</i>	Common Arrowweed	1.50
<i>Senecio jacobaea</i>	Wild Senecio	2.50
<i>Symphoricarpos lanceolatus</i>	Panicled Aster	0.50
<i>Symphoricarpos roseus-anglicus</i>	New England Aster	0.50
<i>Thalictrum dasycarpum</i>	Purple Meadow Rue	2.50
Forbs and Shrubs		Total 36.50



- NOTES:**
- ALL TREES TO BE REMOVED WILL BE IDENTIFIED BY RED FLAGGING.
 - TREE PROTECTION FENCING IS TO BE ERRECTED PRIOR TO ANY EARTHWORK OR CONSTRUCTION AND IS TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
 - ALL DEBRIS, FILL, EQUIPMENT OR MATERIAL IS TO BE KEPT CLEAR OF AREA WITHIN PROTECTIVE FENCE. NO CLEANING OF EQUIPMENT, OR MATERIAL OR STORAGE OR DISPOSAL OF ANY MATERIAL WITHIN THE DRIP LINE OF ANY TREES TO BE SAVED



LANDSCAPE NOTES:

- THIS PLAN IS FOR PLANTING LOCATIONS ONLY.
- SIZES SPECIFIED ARE MINIMUM SIZES TO BE INSTALLED.
- IN THE EVENT THE PLANT LIST DOES NOT MATCH THE PLAN, THE PLAN SHALL TAKE PRECEDENCE.
- ALL PLANTS SHALL CONFORM TO THE CURRENT ISSUE OF THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND SHALL HAVE PASSED INSPECTIONS REQUIRED UNDER STATE REGULATIONS.
- ALL LANDSCAPING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH DOUGLAS STANDARDS IN A NEAT, HEALTHY AND WEED-FREE CONDITION, FREE FROM REFUSE AND DEBRIS. ANY DEAD, DISEASED OR DAMAGED PLANT MATERIAL IS TO BE REPLACED WITHIN SIX MONTHS, OR THE NEXT APPROPRIATE PLANTING PERIOD, WHICHEVER COMES FIRST.
- ALL EXISTING TREES TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE END OF THE FOLLOWING PLANTING SEASON.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES. PLANT MATERIAL IS TO BE LOCATED SUCH THAT IT WILL NOT INTERFERE WITH ANY UNDERGROUND OR OVERHEAD UTILITIES. PLANTINGS WITHIN 15 FEET OF A FIRE HYDRANT SHALL NOT EXCEED 6 INCHES IN HEIGHT.
- PLANT TREES AND SHRUBS AT THE SAME GRADE LEVEL AT WHICH THEY WERE GROWN IN THE NURSERY. IF HEAVY CLAY SOILS ARE EVIDENT, PLANT TREES AND SHRUBS IN LEVEL AREAS HIGHER, APPROXIMATELY 1/4 OF THE ROOT BALL ABOVE THE GRADE.
- REMOVE ALL TWINE, WIRE, NURSERY TREE GUARDS, TAGS AND INORGANIC MATERIAL FROM ROOT BALLS. PEEL BACK THE TOP 1/3 OF BURLAP FROM EARTH BALLS AND REMOVE ANY BURLAP AROUND TREE TRUNKS.
- ALL LANDSCAPE AREAS SHALL BE EXCAVATED OF ALL BUILDING / CONSTRUCTION MATERIAL AND POOR SOILS TO A DEPTH OF 18"-24" AND BACKFILLED WITH GOOD, MEDIUM TEXTURED PLANTING SOIL.
- ALL DISTURBED UNPAVED AREAS ARE TO BE SPREAD WITH A MINIMUM 4 INCHES OF TOPSOIL AND SODDED. / SEEDED AND MULCHED.
- AREAS OF INDIVIDUAL TREES AND LANDSCAPE BEDS ARE TO BE MULCHED WITH A MINIMUM OF 3 INCHES OF SHREDDED HARDWOOD BARK. MULCH SHALL BE SPREAD IN A 5-FOOT DIAMETER CIRCLE AROUND THE BASE OF EACH TREE, LEAVING A 6-INCH RADIUS CIRCLE OF BARE SOIL AROUND THE TRUNK OF THE TREE. ALL AREAS OUTSIDE OF THE MULCH RINGS SHALL BE SODDED. / SEEDED AND MULCHED.
- IF AN APPROVED SPECIES IS NO LONGER ACCEPTABLE DUE TO SUCH THINGS AS INFESTATION OR DISEASE, A SUITABLE SIMILAR SPECIES SHALL BE USED AS REPLACEMENT. ANY PLANT SUBSTITUTIONS SHALL HAVE DOUGLAS APPROVAL PRIOR TO INSTALLATION.
- RECOMMENDED PLANTING DATES ARE MARCH 1 TO MAY 15 FOR ALL MATERIALS AND OCTOBER 15 TO DECEMBER 15 FOR DECIDUOUS MATERIALS. PLANTINGS OUTSIDE THESE DATES SHALL HAVE PRIOR DOUGLAS APPROVAL, AND MAY REQUIRE SPECIAL TREATMENT, SUCH AS EXTRA WATERING OR MULCHING, TO INCREASE SURVIVAL POTENTIAL.



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Revisions

NO.	DATE	DESCRIPTION



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 Drawn by: ARW / ARW / KW/WB / N/A

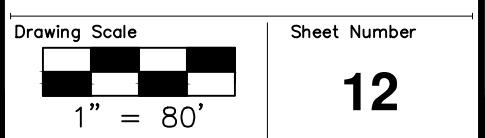
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 Township: 3N Range: 16W Section: 21

Professional Name: ANDREW R. WALTERS, PE Date: 6/4/2026

Title: **SITEPLAN LANDSCAPE DETAILS**



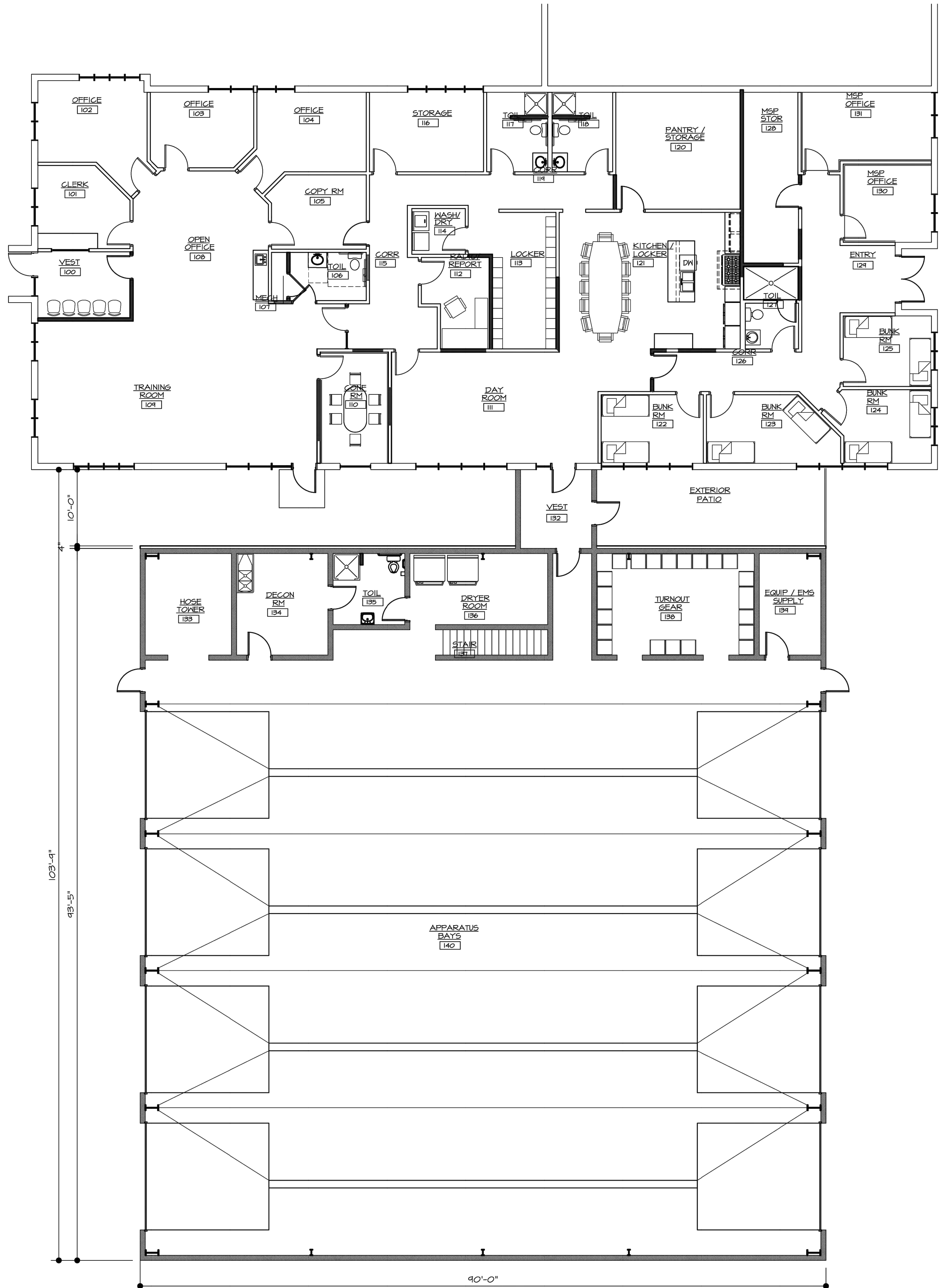
ADDITION TO EXISTING BUILDING for SAUGATUCK TOWNSHIP FIRE DISTRICT



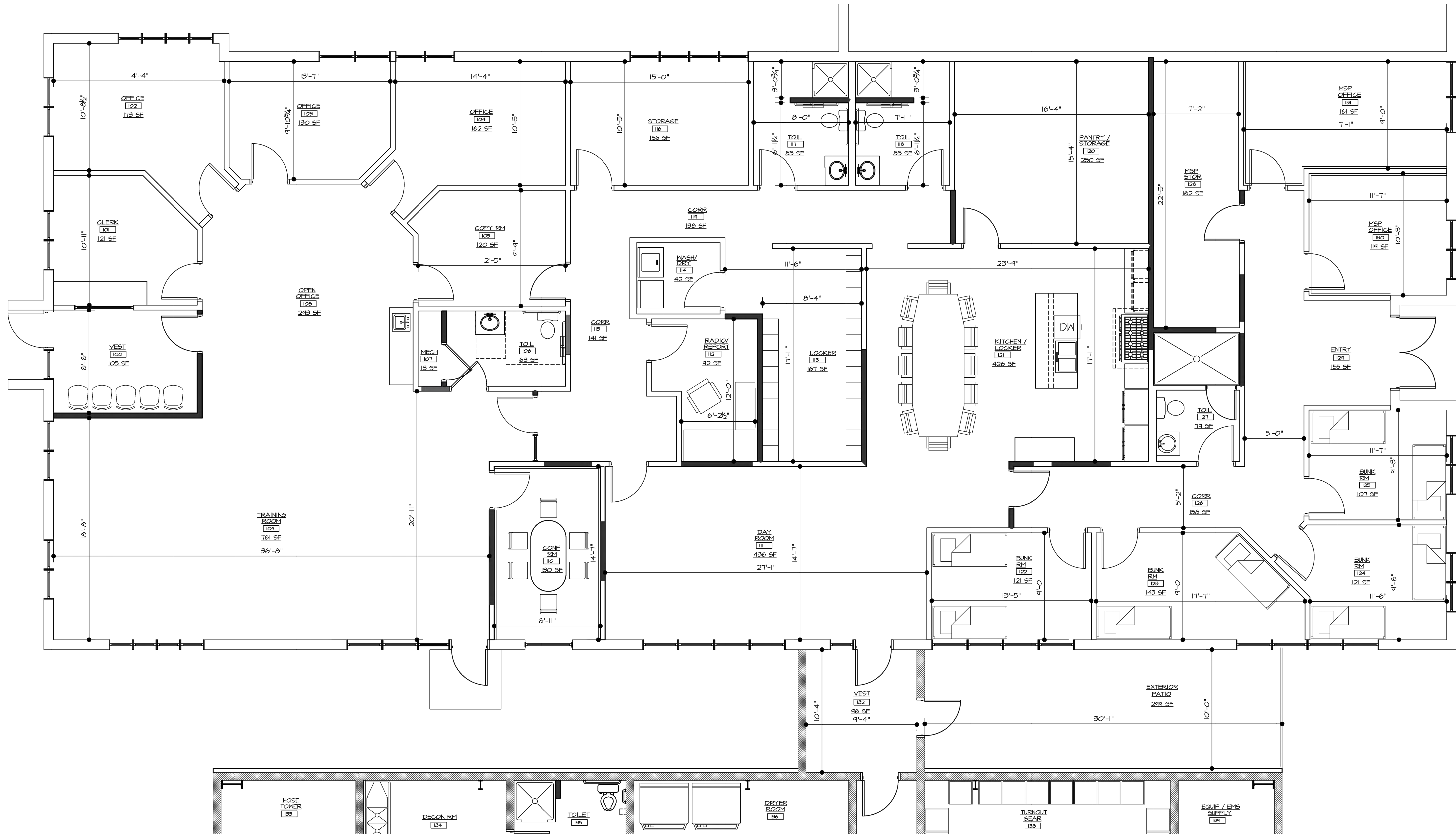


COMPOSITE FLOOR PLAN

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

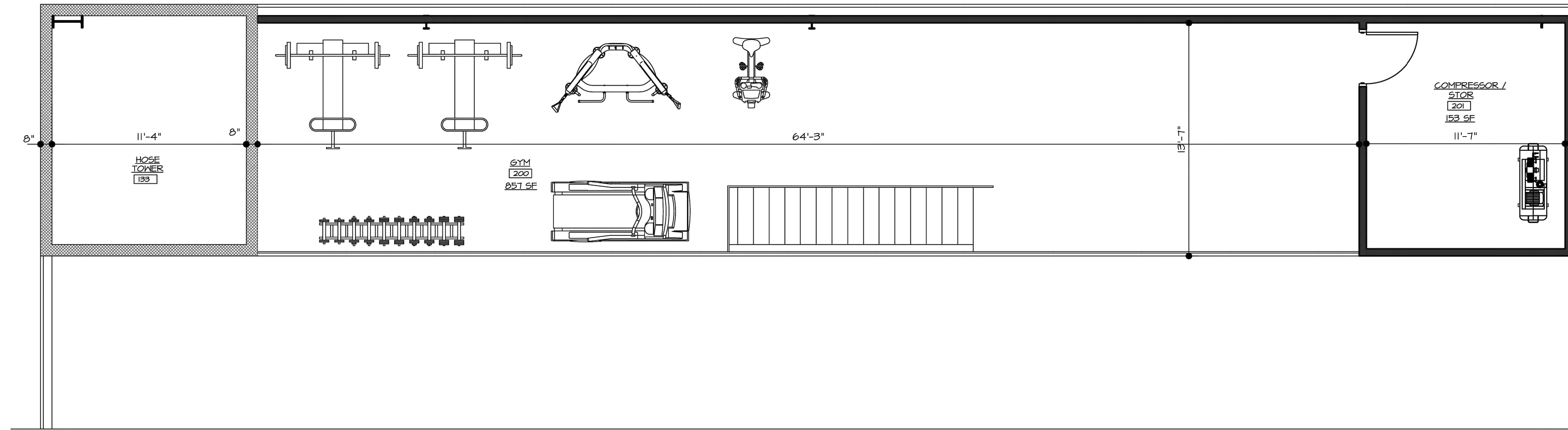


PROJECT REMODEL & ADDITION FOR SAUGATUCK TWP FIRE DISTRICT 415 WILEY RD DOUGLAS MI DRAWN BY: J.V.C. CHECKED BY: R.A.S.		SHEET TITLE PRELIMINARY FLOOR PLAN			CREEKWOOD ARCHITECTURE, INC. 1.11.11 s. creekwood burton, michigan 48509 tel. (810) 742-0480 fax (810) 742-8393	
REVISIONS (Empty table for revisions)						
JOB NO. 26038 DATE 12 MAY 26 SHEET NO.		A2 OF				



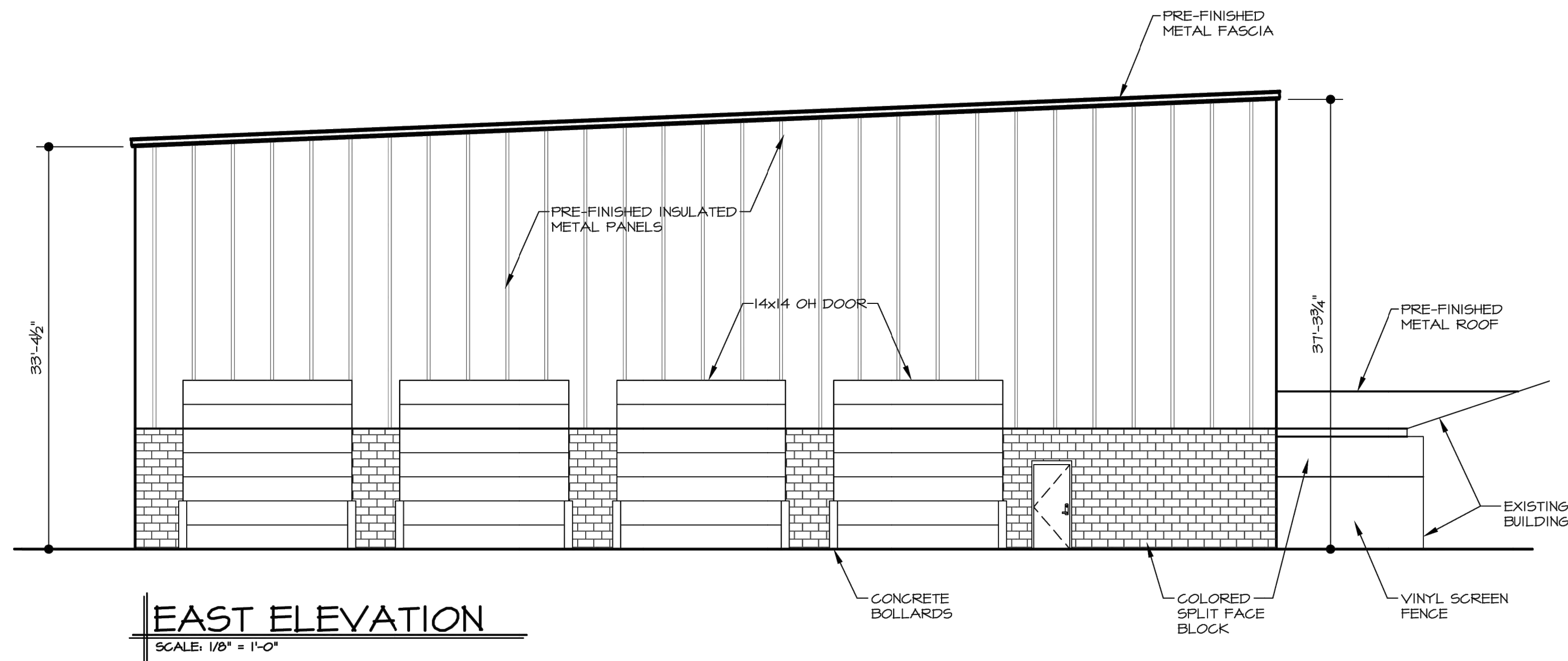
ENLARGED FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 NORTH

REVISIONS	
CREEKWOOD ARCHITECTURE, INC. burton, michigan 48509	
11111 s. creekwood te.l. (810) 742-0480 fax (810) 742-8393	
Brivar.	
SHEET TITLE PRELIMINARY FLOOR PLAN	
PROJECT REMODEL & ADDITION FOR SAUGATUCK TWP FIRE DISTRICT 415 WILEY RD DOUGLAS MI DRAWN BY: J.V.C. CHECKED BY: R.A.S.	
JOB NO. 26036	DATE 12 MAY 26
SHEET NO. A3	

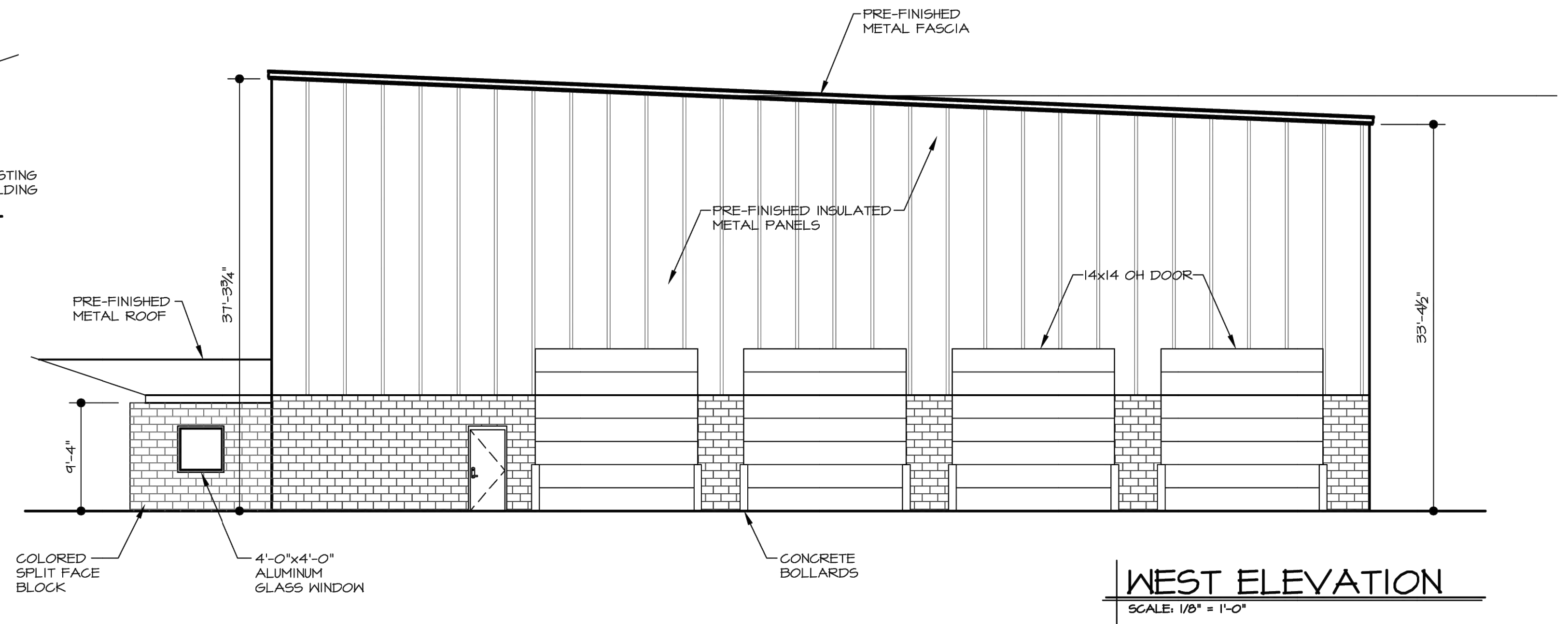



MEZZANINE PLAN
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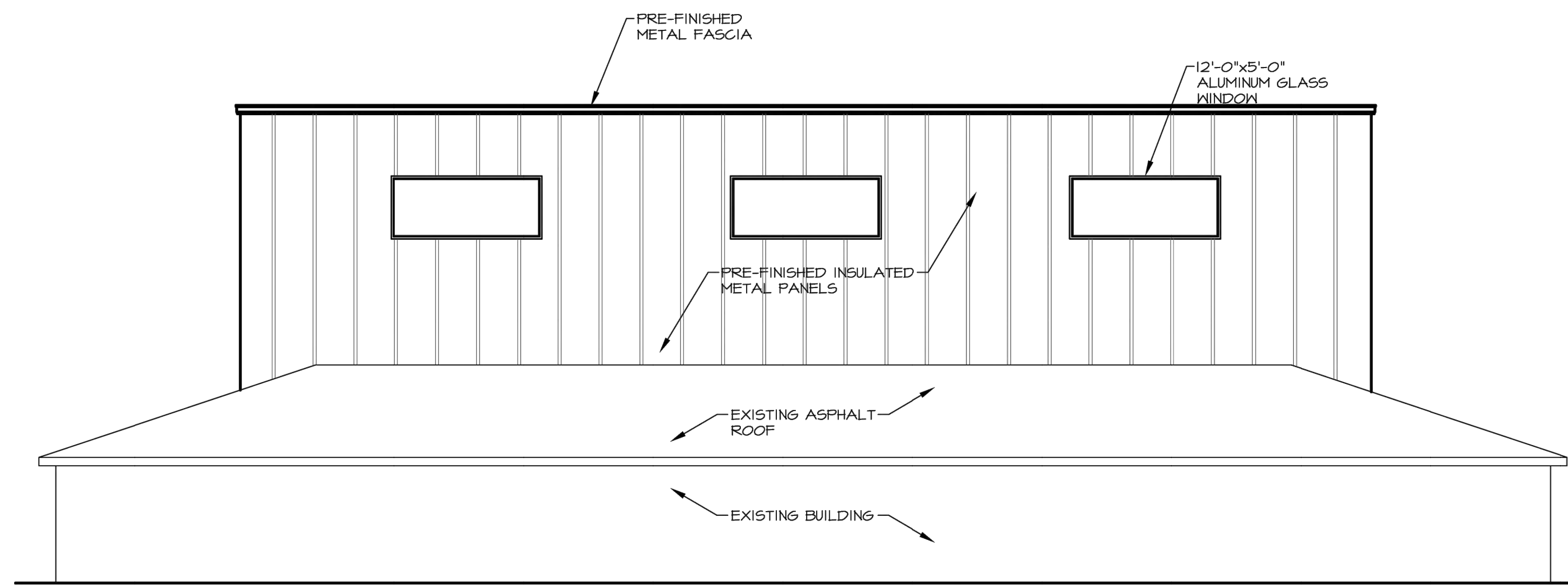
A5 <small>OF</small>	SHEET NO. DATE 12 MAY 26 JOB NO. 26036	PROJECT REMODEL & ADDITION FOR SAUGATUCK TWP FIRE DISTRICT <small>415 WILEY RD DOUGLAS MI DRAWN BY: J.V.C. CHECKED BY: R.A.S.</small>	SHEET TITLE PRELIMINARY FLOOR PLAN		REVISIONS <table border="1" style="width: 100%; height: 40px;"> <tr><td> </td></tr> </table>	
CREEKWOOD ARCHITECTURE, INC. 1.1.1.1 s. creekwood burton, michigan 48509 tel. (810) 742-0480 fax (810) 742-8393						



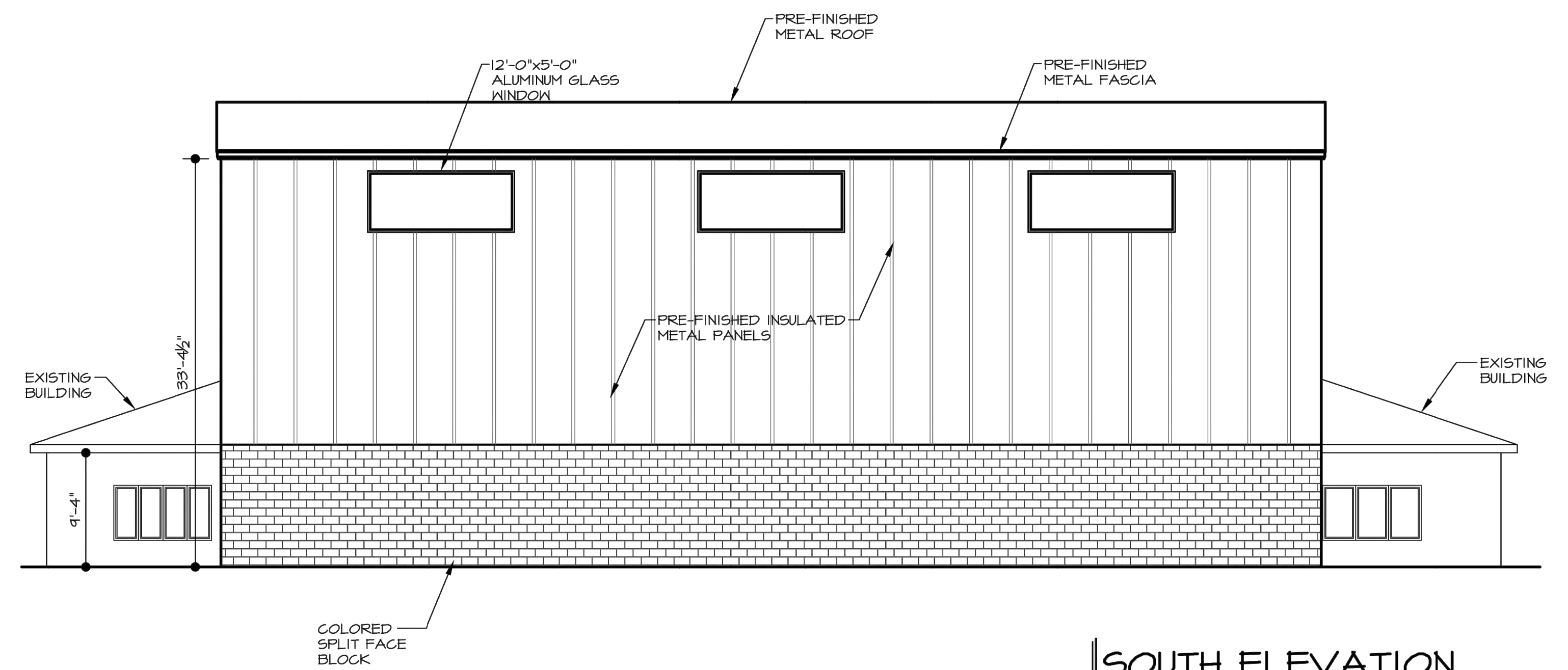
EAST ELEVATION
SCALE: 1/8" = 1'-0"



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



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



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

REVISIONS
CREEKWOOD ARCHITECTURE, INC.
 burton, michigan 48509
 1.11.1 s. creekwood
 tel. (810) 742-0480 fax (810) 742-8393

Brivar.

SHEET TITLE
 EXTERIOR ELEVATIONS

PROJECT
REMODEL & ADDITION FOR SAUGATUCK TWP FIRE DISTRICT
 415 WILEY RD
 DOUGLAS MI
 DRAWN BY: J.V.C. CHECKED BY: R.A.S.

JOB NO. 26039
 DATE 12 MAY 26
 SHEET NO.

A6
 OF