CONTACT NUMBERS

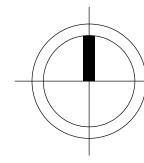
PLANNING AND ZONING CONTACT: CITY OF LANSING PHONE: 517-483-4048

ENGINEERING/PUBLIC SERVICE CONTACT: CITY OF LANSING PHONE: 517-483-4455

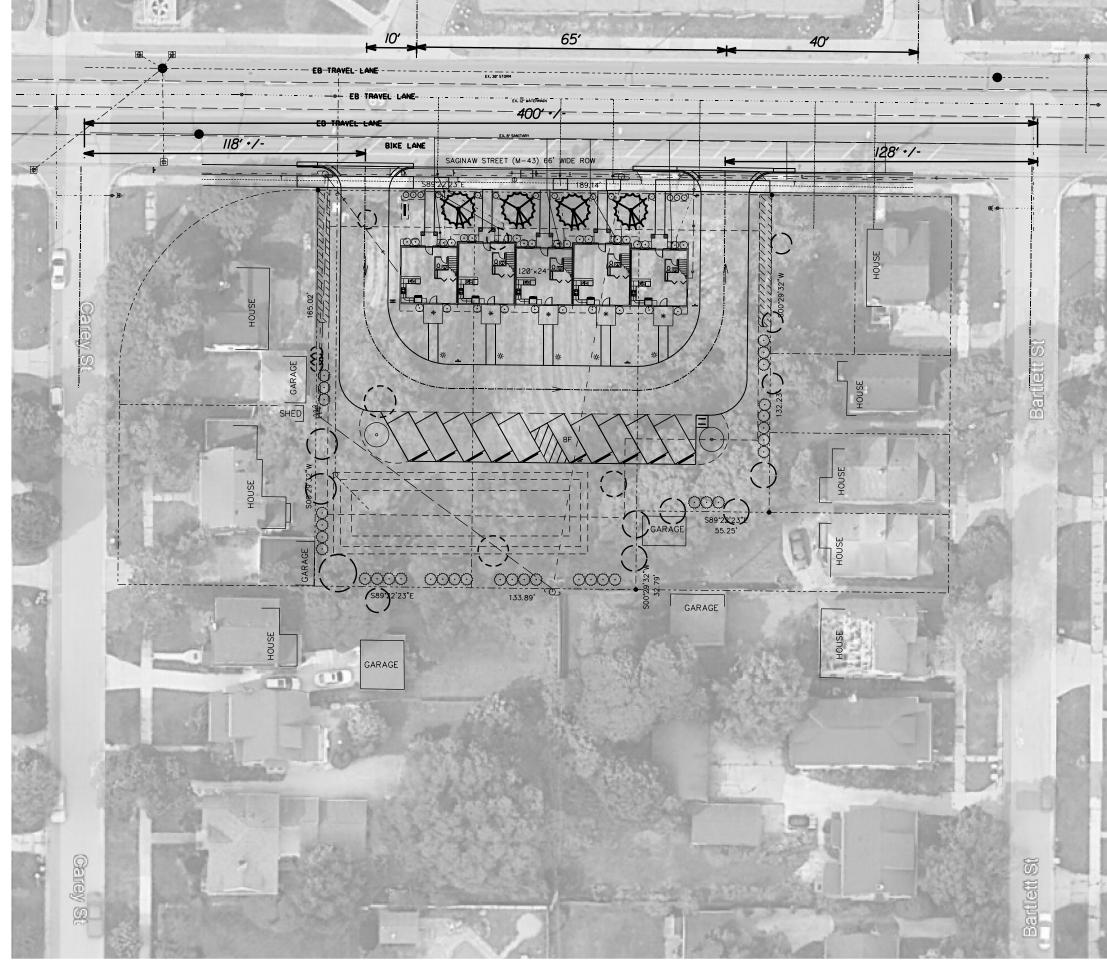
INGHAM COUNTY LAND BANK POINTE WEST CONDOMINIUMS

LOCATED IN

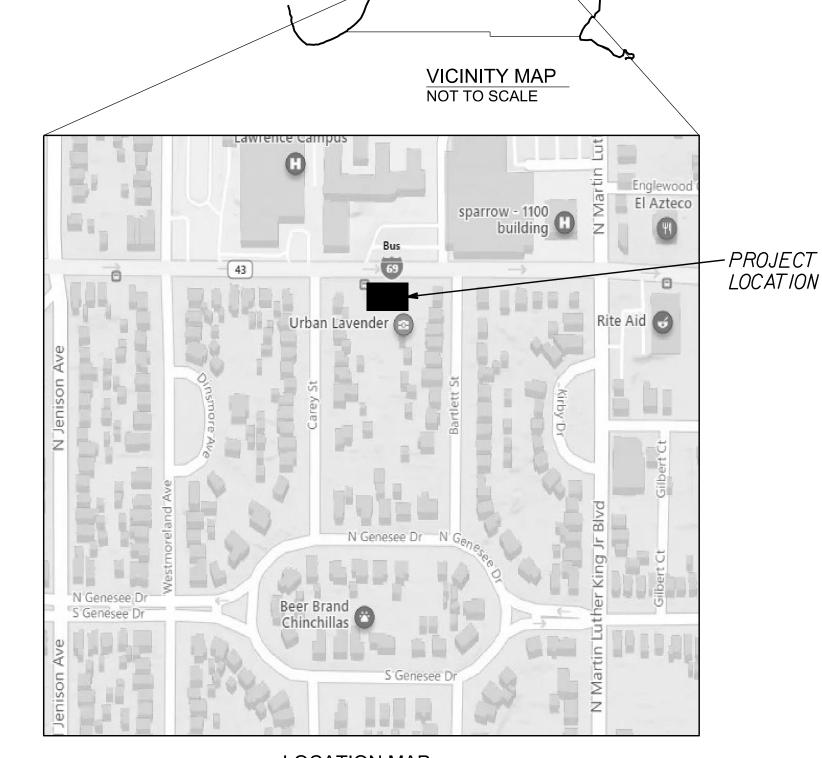
CITY OF LANSING, INGHAM COUNTY, MICHIGAN



NORTH



SITE LAYOUT NOT TO SCALE



LOCATION MAP

NOT TO SCALE

ALL WORK WITHIN THE SAGINAW HWY ROW
SHALL BE COMPLETED IN ACCORDANCE WITH MDOT &
THE CITY OF LANSING RULES, REGULATIONS,
AND GUIDELINES AND AS PERMITTED THEREIN

CITY OF LANSING NOTES:

ALL BROKEN AND DAMAGED SIDEWALK ALONG THE PROPERTY RIGHT OF WAY SHALL BE REMOVED AND REPLACED BY OWNER. ALL EXISTING SIDEWALK ON THE PROPOSED SITE DETERMINED TO NOT BE ADA COMPLIANT SHALL BE REMOVED AND REPLACED BY OWNER. SIDEWALK REPLACEMENT SHALL BE ACCORDING TO DETAILS THESE PLANS AND THE CITY OF LANSING STANDARDS.

THE CONTRACTOR SHALL OBTAIN A CITY PERMIT FOR ALL ROAD CUTS WHICH WILL BE BACK FILLED PER CITY STANDARDS TO THE BASE COURSE COMPACTED FINISHED GRADE. HMA PAVEMENT WILL BE REPLACED BY THE CITY AT A PRE-ESTABLISHED PER SQUARE UNIT COST.

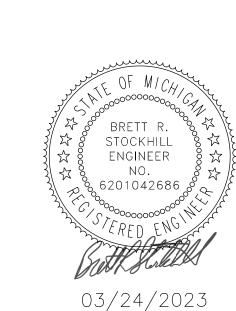
CONTRACTOR SHALL OBTAIN CITY PERMIT FOR ALL CONCRETE WORK INCLUDING CURB AND GUTTER. DRIVE APPROACHES AND SIDEWALKS.

LINE-TYPE LEGEND

SYMBOLS (COLORS ARE REPRESENTED ACCORDING TO MISS DIG)	DESCRIPTION (LINE WEIGHT .0004 UNLESS NOTED OTHERWISE)
ę ————ę	ROAD RIGHT OF WAY CONTINUOUS CENTER LINE OF ROAD CENTER
	PROPERTY LINE DASHDOT
	GAS MAIN HIDDEN
CATV	CABLE TV HIDDEN
EE	UNDERGROUND ELECTRIC HIDDEN
<u>T</u>	UNDERGROUND TELEPHONE HIDDEN
834.0	FIBER OPTICS HIDDEN
829.5	NEW CONTOUR LINE (THIN BLACK LINE)
	EXISTING CONTOUR LINE (GRAY COLOR)
	WATER BOUNDRY
SAN	PROP. SANITARY SEWER (BOLDEST (.50mm)) CONTINUOUS LINETYPE
ST ST	PROP. STORM SEWER (BOLD (.30mm)) HIDDEN LINETYPE
	PROP. WATER MAIN (BOLDER (.40mm)) DIVIDED LINETYPE
<u>SAN</u>	EX. SANITARY SEWER (.25mm) DASHED LINETYPE
ST	EX. STORM SEWER (.25mm) HIDDEN LINETYPE
	EX. WATER MAIN (.25mm) DIVIDED LINETYPE
	UTILITY EASEMENT HIDDEN LINETYPE
	PROFILE LINE 10' OFF BASELINE
	PROFILE LINE 20' OFF BASELINE
	PROFILE LINE 30' OFF BASELINE

		SHEET NO.	SHEET
		C0.0	COVER SHEET
<u> </u>	- 5'-6" -	S1.0	EXISTING SITE
1'-0"	ALUMINUM POST CAPS (3)	C1.0	REMOVALS
	DOUBLE RABBET POSTS. INSTALL 3/8" X 7" H.D. GALV.	C2.0	SITE LAYOUT PLAN
-O-1	THRU BOLT	C3.0	GRADING & SESC PLAN
		C3.1	STORM WATER CALCULATIONS
GROUND CONTACT		C4.0	UTILITY PLAN
GALV. CHAIN W/ EYE BOLT INTO TOP BEAM AND	Pointe West	C5.0	LANDSCAPE PLAN
CLEVIS AT PANEL	1209 W. SAGINAW	C5.1	LIGHTING PLAN
44" X 30" MD0 SIGN PANEL WITH		C6.0	SPECIFICATIONS & DETAILS
SCALLOPED CORNERS # I" BORDER	GROUND CONTACT 6X6 POST. EMBED 30" IN CONC.	C7.0	PLAN & PROFILE #6294 SAGINAW STREET
TEXT FONT/HEIGHT T.B.D.	16" X 48" CONC PIER IN SONOTUBE. I" EXPOSURE. POSITIVE SLOPE TOP FOR DRAINAGE		
	FIN GRADE		
l • Titis			

BUILDING SIGNAGE NOT TO SCALE

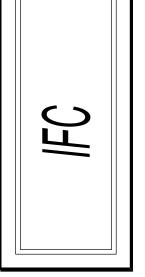




BRS ENGINEERING, LLC
3821 Stoneleigh Drive
Lansing, MI 48910
Phone: (517) 719–5094

BRSE 288

NGHAM COUNTY LAND BANK 3024 TURNER ROAD LANSING, INGHAM COUNTY, MI



		REVISED IN ACCORDANCE WITH CONSTRUCTION RECORDS	REV
BRS 3/2	BRS	REISSUE FOR IFC	4
2/17	BRS 2/14	REISSUED FOR CITY REVIEW	3
12/5	BRS 12/5	ISSUE FOR CITY REVIEW	2
9/14	9/14	ISSUE FOR PRESENTATION	-
O	BY	REVISIONS	ó

REVISED

DATE

03/24/23

03/24/23

03/24/23

03/24/23

03/24/23

03/24/23

03/24/23

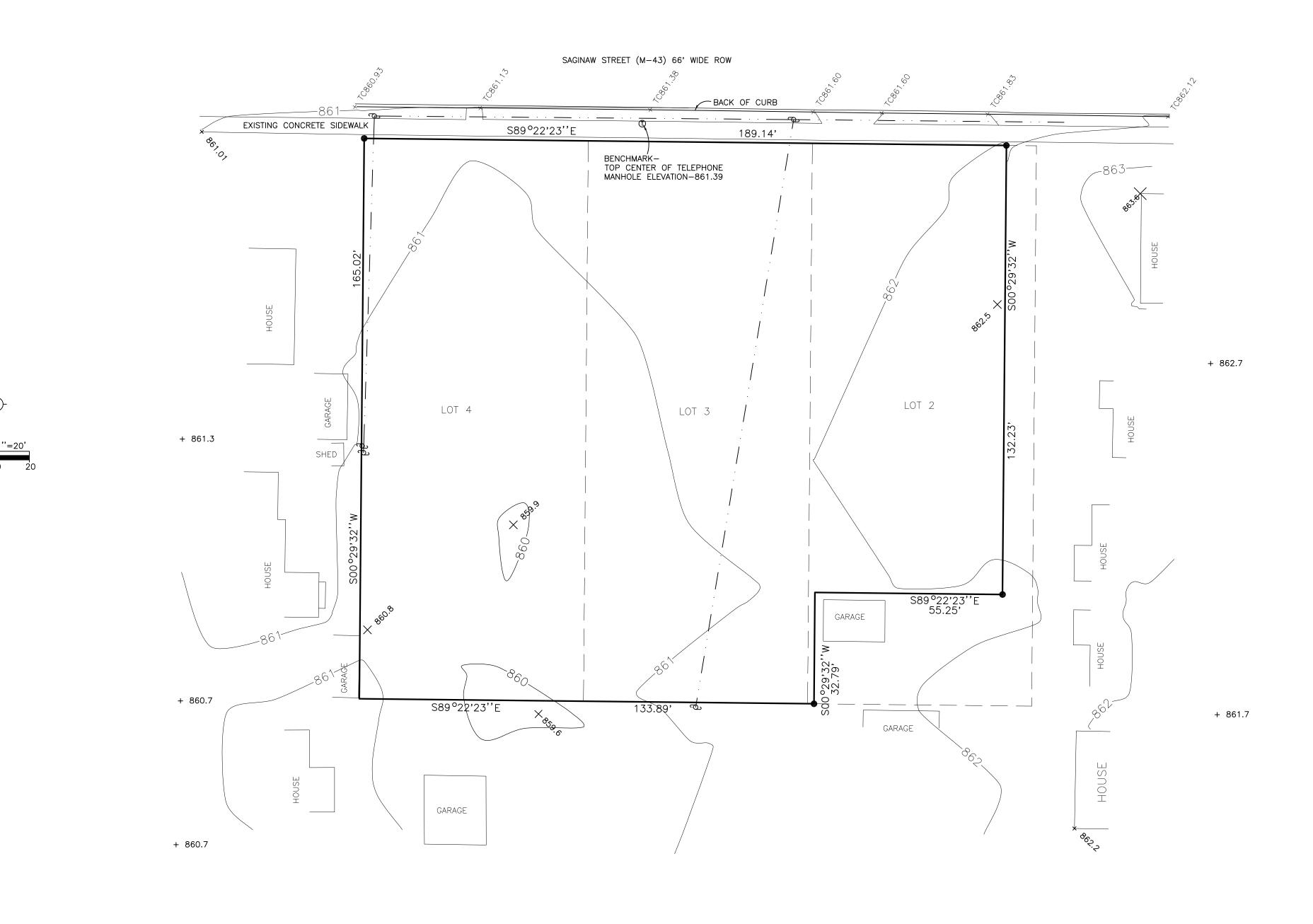
03/24/23

03/24/23

OINTE WEST CONDOMINIUMS
5-UNITS, 1 BUILDING
1290 W. SAGINAW
LANSING, INGHAM COUNTY, MI
COVER SHEET

PROJECT MGR. DATE
BRS 9/8/22
DRAWN BY DATE
BRS 9/8/22
ENGINEER DATE
BRS 9/8/22
CAD FILE EDIT

PROJECT 0001



<u>LEGEND</u>

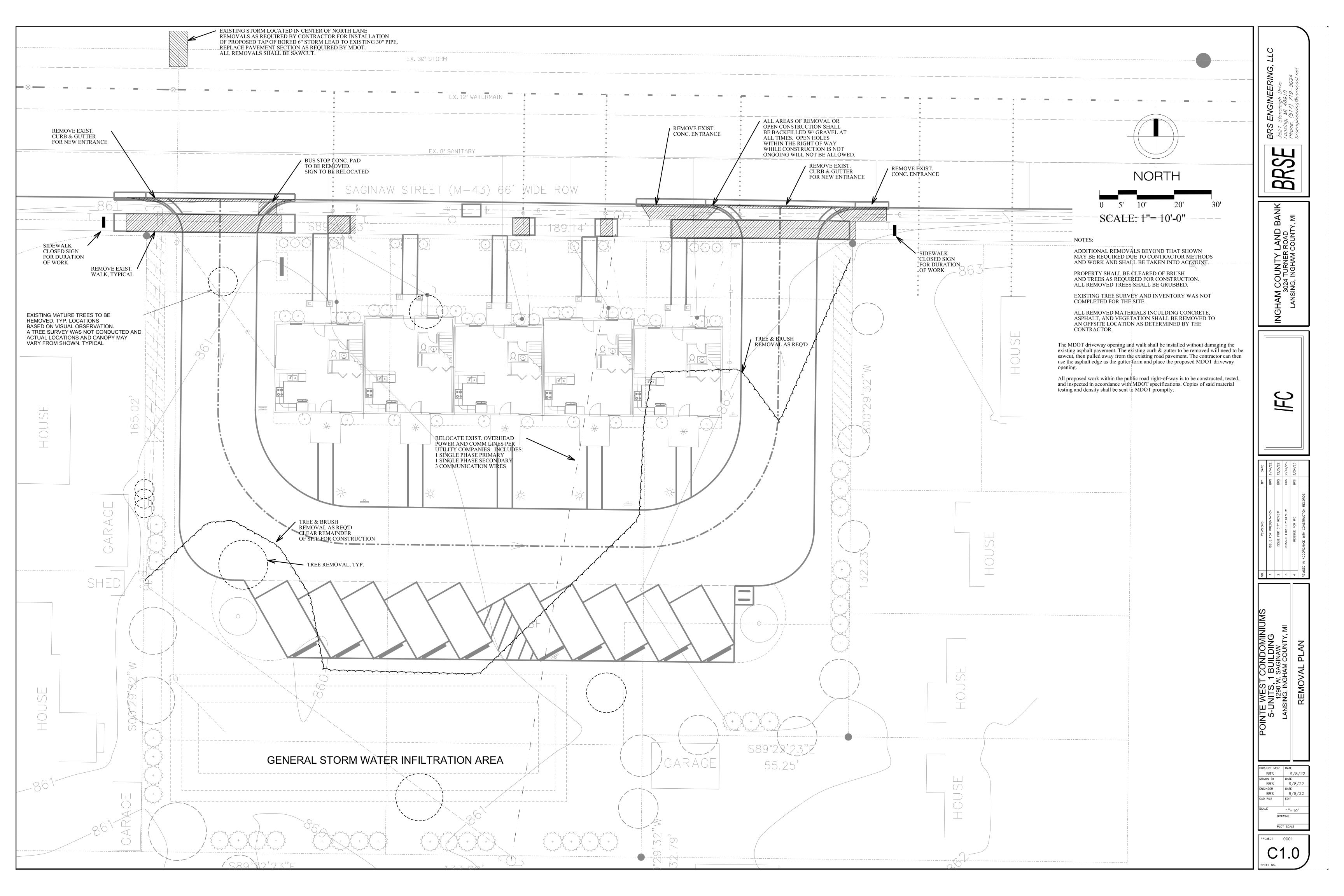
- TELEPHONE MANHOLE
- O UTILITY POLE
- + 861.7 EXISTING SPOT ELEVATION
- FOUND SURVEYOR'S MARKER
- --- OVERHEAD UTILITIES
- 900 EXISTING CONTOUR 1' INTERVAL (NAVD)

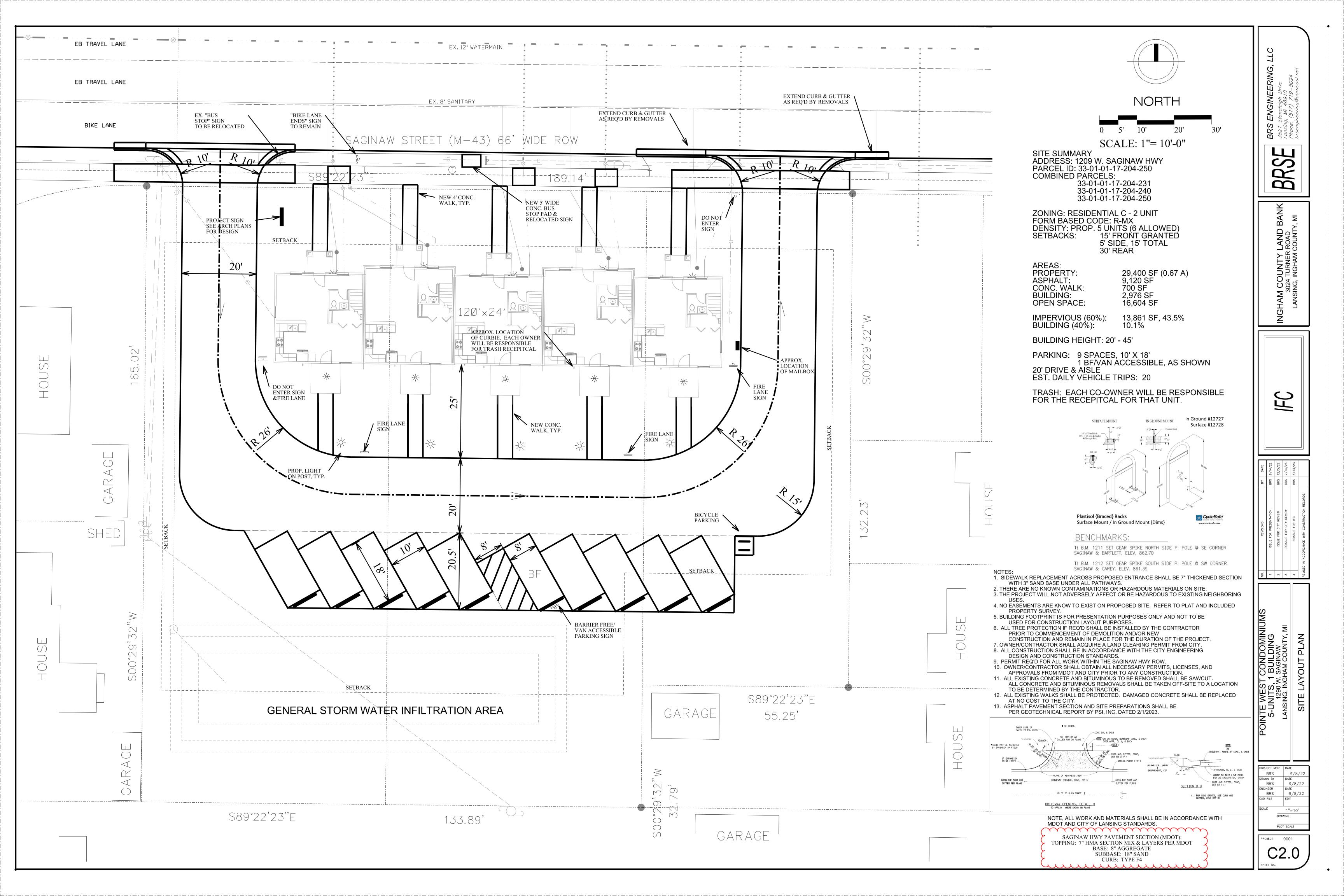
EXISTING CONDITIONS ON AUGUST 23, 2022

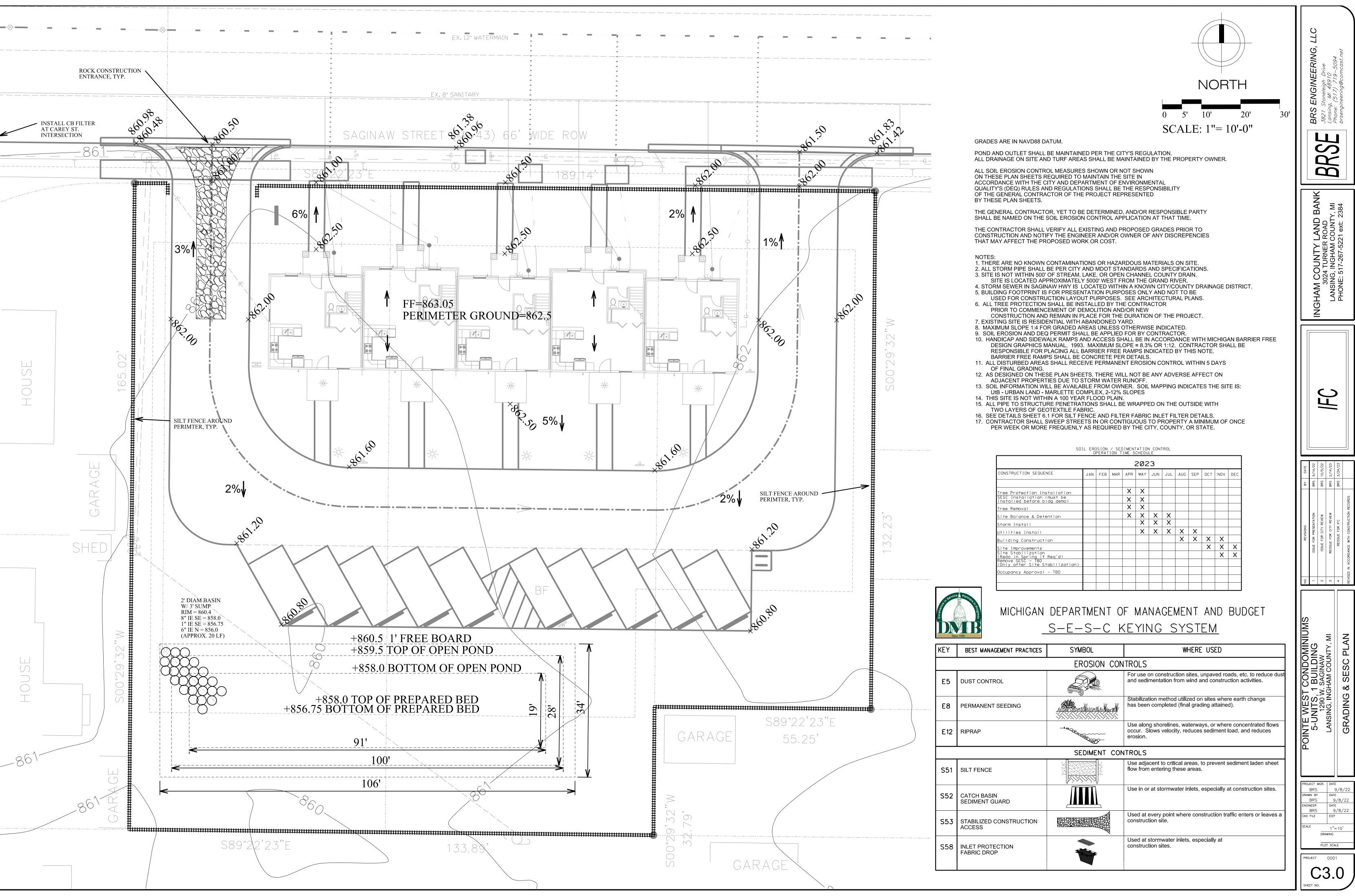


LOT 3, 4 AND PART OF LOT 2
M. CAREYS FIRST ADDITION TO THE CITY OF LANSING
NE 1/4, SECTION 17, T4N, R2W, INGHAM COUNTY, MICHIGAN
ESE JOB NO. 33-3467
SHEET 1 OF 1

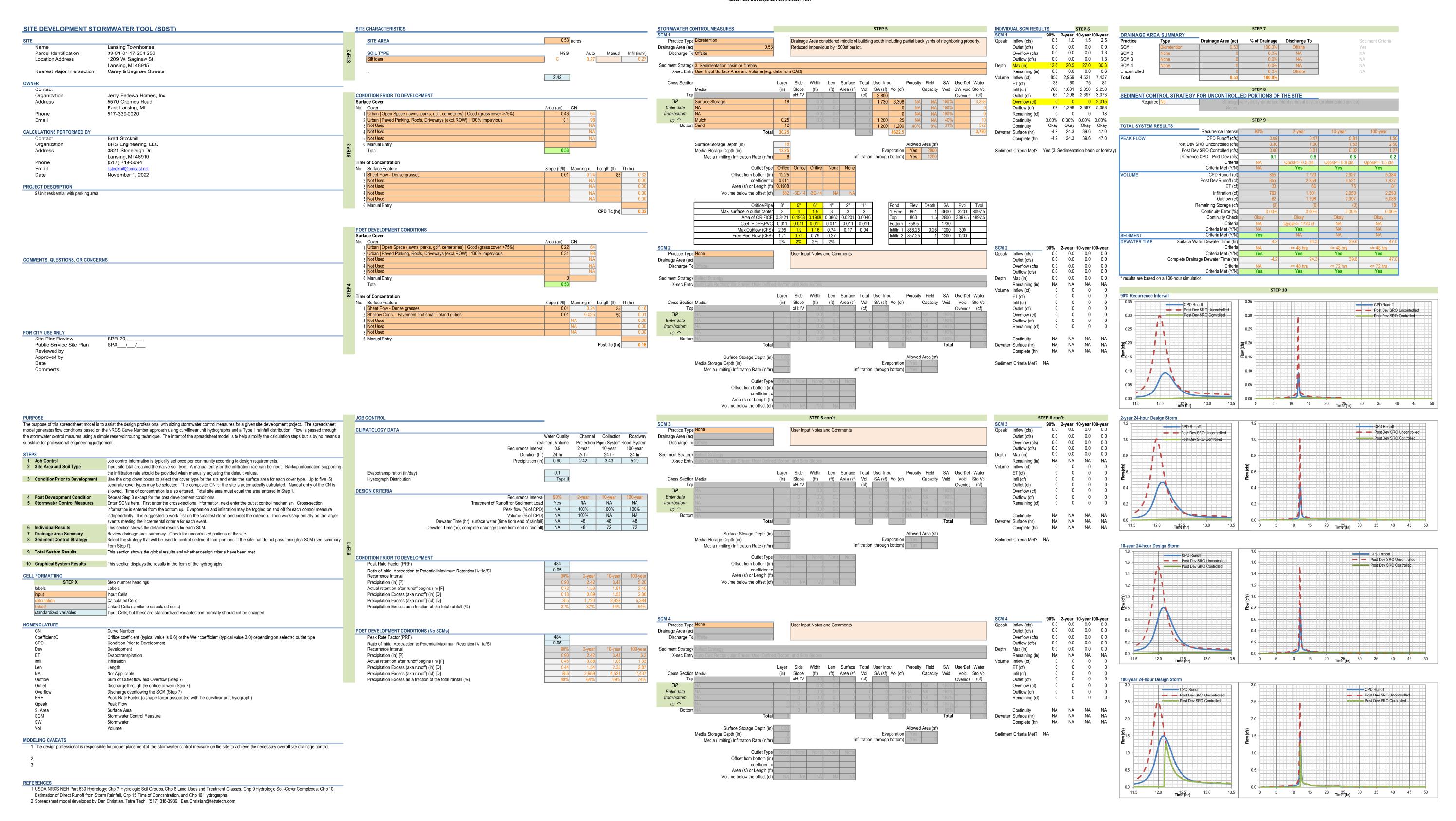
PLAN DATE- AUGUST 29, 2022







Master Site Development Stormwater Tool



2/14/2023 SDST V04-35-Saginaw Rev3.xlsm

BRS ENGINEERING, L. 3821 Stoneleigh Drive Lansing, M. 48910 Phone: (517) 719–5094 brsengineering@comcast.net

BRSE

SHAM COUNTY LAND BANK 3024 TURNER ROAD LANSING, INGHAM COUNTY, MI

IFC

NO. REVISIONS BY DATE

1 ISSUE FOR PRESENTATION BRS 9/14/2:

2 ISSUE FOR CITY REVIEW BRS 12/5/2/2

3 REISSUE FOR CITY REVIEW BRS 2/14/2.

4 REISSUE FOR IFC BRS 3/24/2

REVISED IN ACCORDANCE WITH CONSTRUCTION RECORDS

5-UNITS, 1 BUILDING
1290 W. SAGINAW
LANSING, INGHAM COUNTY, MI
ORM WATER CALCULATIONS

PROJECT MGR. DATE

BRS 9/8/22

DRAWN BY DATE

BRS 9/8/22

ENGINEER DATE

BRS 9/8/22

CAD FILE EDIT

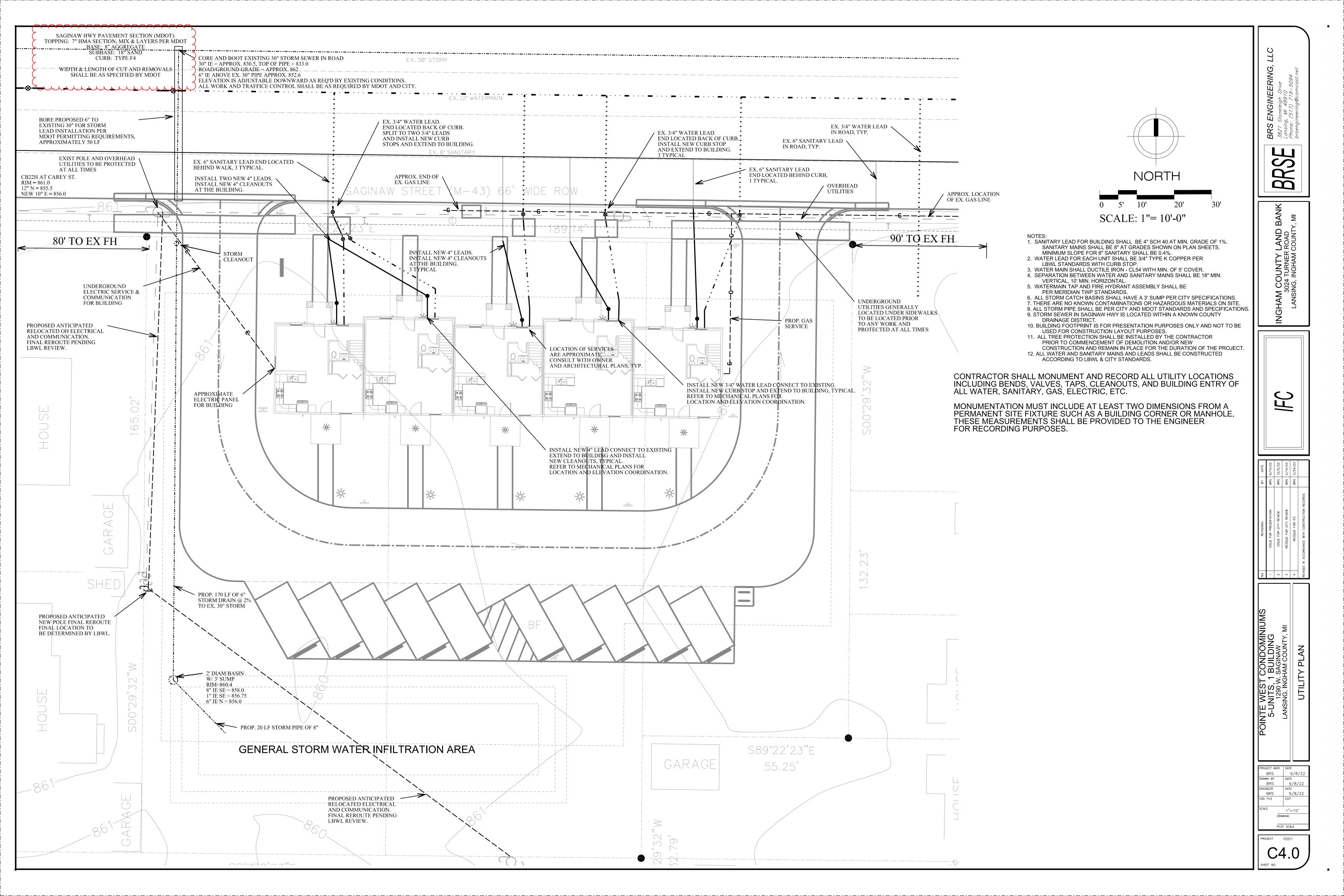
SCALE 1"=10'

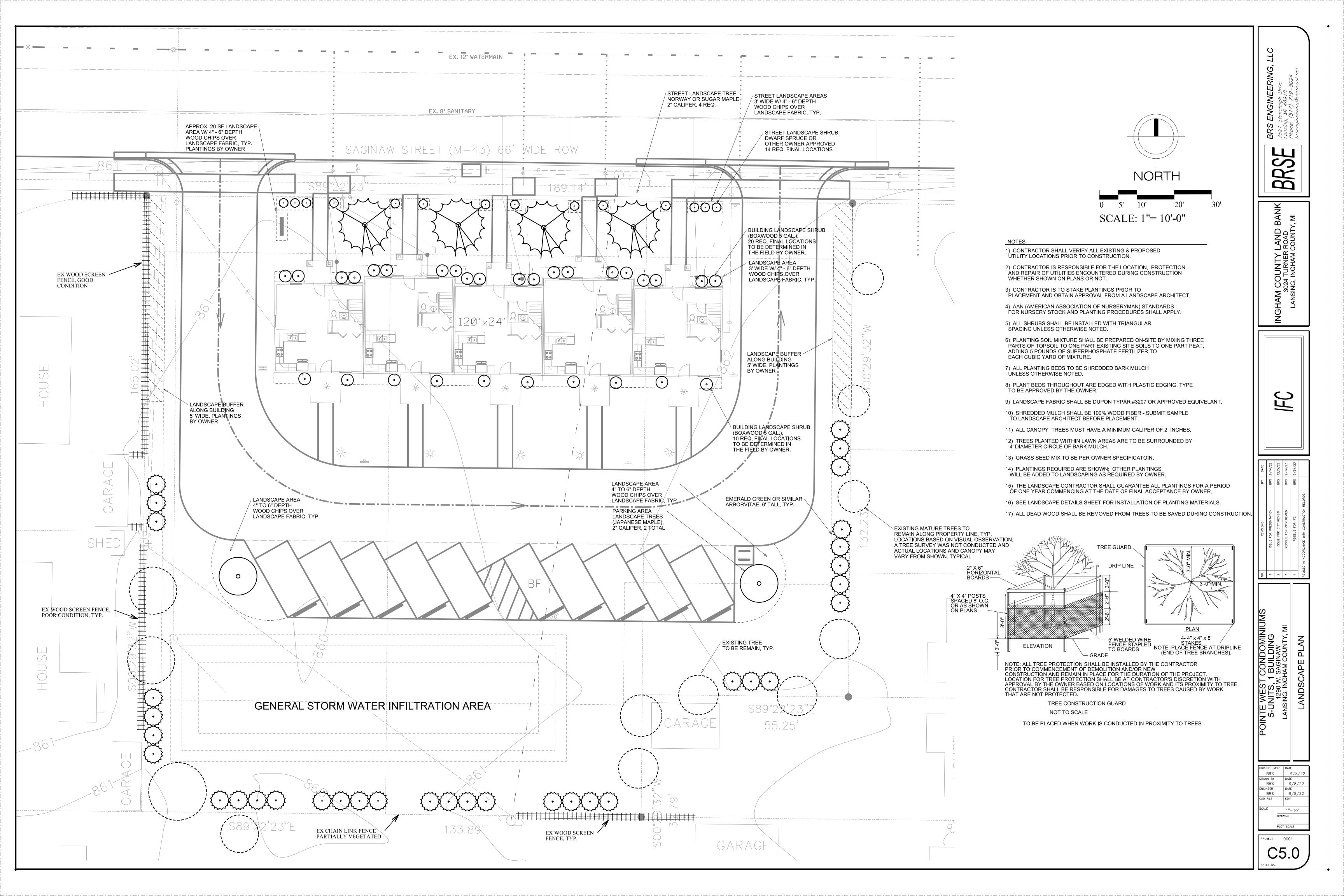
PROJECT 0001

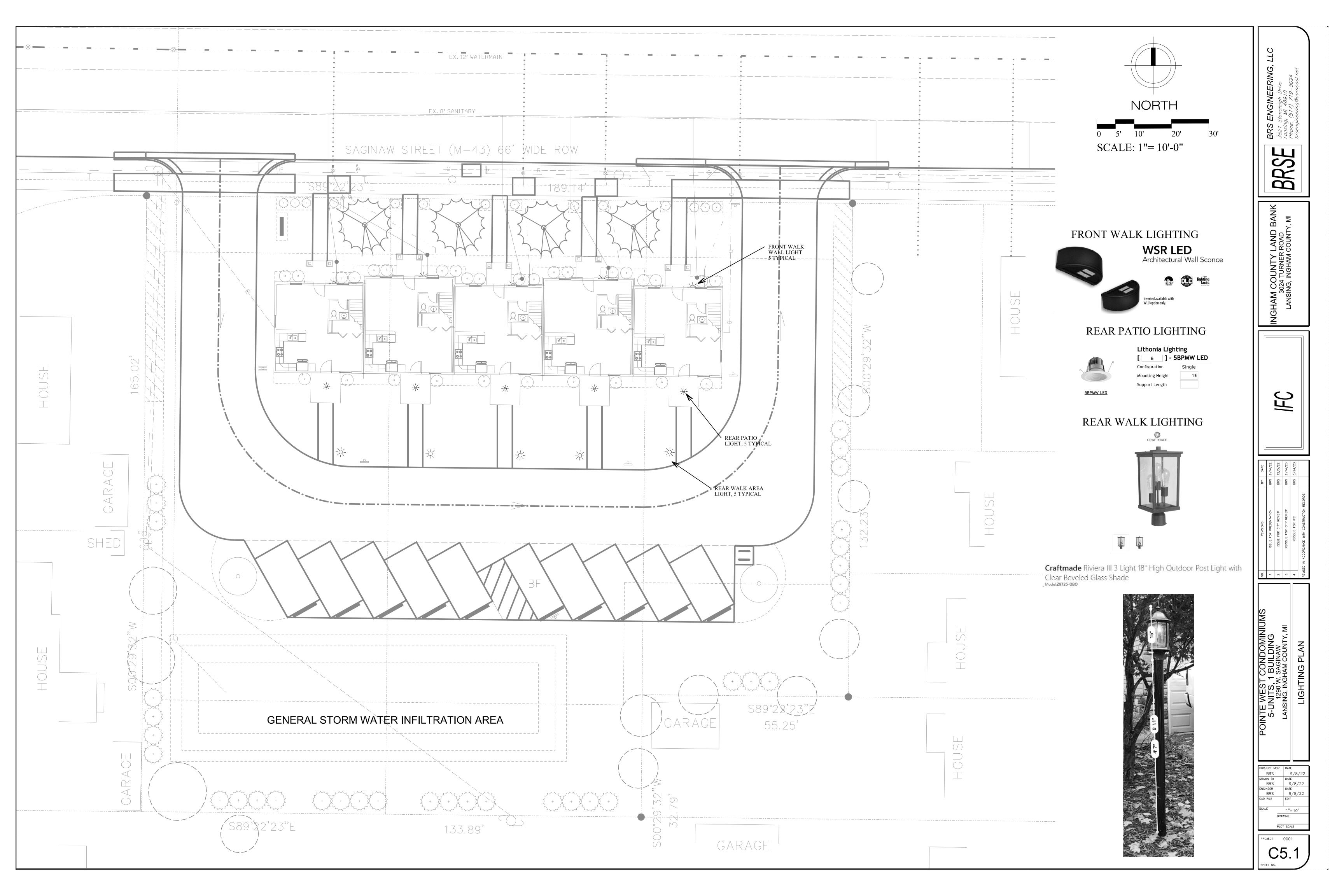
PLOT SCALE

C3.

Page 1 of 1







SPECIFICATIONS

GENERAL SPECIFICATIONS

. FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL DIAL 1-800-482-7171 A MINIMUM OF 72 HOURS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

2. INFORMATION ON DEPTH, SIZE AND ETC. OF ALL OTHER UNDERGROUND UTILITIES SHOWN HEREON IS PLAN INFORMATION ONLY, OBTAINED FROM THE UTILITY COMPANY INVOLVED OR FROM OBSERVATION. PRIOR TO ANY CONSTRUCTION, IT IS RECOMMENDED THAT ALL UTILITY COMPANIES, AGENCIES, DEPARTMENTS AND ETC. INVOLVED BE CONTACTED FOR VERIFICATION OF SUCH

3. THE LOCATION, SIZE AND ELEVATION OF SEWERS, WATER LINES AND RELATED STRUCTURES SHOWN HEREON WERE OBTAINED. FROM EXISTING PLANS PREPARED BY OTHERS AND FIELD OBSERVATIONS. BRSENGINEERING, LLC. IS NOT RESPONSIBLE FOR ANY OTHER SEWERS, DRAINS, OR RELATED STRUCTURES NOT FOUND AND NOT SHOWN HEREON THAT MAY CROSS, PARALLEL, LIE

4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY, PRIOR TO BEGINNING CONSTRUCTION, ALL CRITICAL ELEVATIONS AND LOCATIONS OF UNDERGROUND UTILITIES. IF ELEVATIONS OR LOCATIONS ARE SUBSTANTIALLY DIFFERENT THAN SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

5. ALL MATERIAL PLACED BELOW OR WITHIN THE INFLUENCE OF ROADS, CURBING, CONCRETE, PAVING OR ANY STRUCTURE SHALL BE COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM UNIT WEIGHT BASED ON THE MODIFIED PROCTOR (ASTM D1557-70). IN AREAS OTHER THAN NOTED ABOVE, ALL MATERIAL SHALL BE COMPACTED TO 90% OF IT'S MAXIMUM UNIT WEIGHT.

6. ALL UTILITY BEDDING SHALL BE A MINIMUM OF CLASS "B" AS PER ASTM C-12, UNLESS OTHERWISE SPECIFIED ON THE PLANS. BEDDING SHALL BE CONSIDERED INCIDENTAL TO THE PLACING OF THE UTILITY. THE TYPICAL TRENCH DETAILS SHOWN ON THE MERIDIAN TOWNSHIP DETAILS SHALL BE USED FOR SANITARY SEWER AND WATER MAIN. THE TYPICAL TRENCH DETAIL ON THIS SHEET SHALL BE USED FOR ALL OTHER UTILITIES.

7. ALL FACILITIES AND GROUNDS DAMAGED BY CONSTRUCTION SHALL BE REPAIRED AND RETURNED AS NEARLY AS POSSIBLE TO THEIR CONDITION PRIOR TO THIS CONSTRUCTION. THIS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

8. UPON COMPLETION OF GRADING, ALL DISTURBED AREAS SHALL BE COVERED WITH A MINIMUM OF 4" OF TOPSOIL AND THEN SEEDED AND MULCHED.

9. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL MUD AND DEBRIS FROM SEWERS, MANHOLES, CATCH BASINS AND RELATED STRUCTURES.

10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE CONSTRUCTION IN SUCH A MANNER AS TO MINIMIZE INCONVENIENCE TO RESIDENTS DUE TO INTERRUPTIONS IN SEWER OR WATER SERVICE OR BLOCKAGE OF STREETS.

SANITARY SEWER LEADS

1. ALL SANITARY SEWER LEADS SHALL BE 6" AND LAID TO A MINIMUM SLOPE OF 1.00%.

WATER SERVICE

1. ALL WATER LEADS SHALL BE 1.25" TYPE K COPPER.

. ALL STORM SEWER CONSTRUCTION SHALL COMPLY WITH THE CONSTRUCTION STANDARDS OF THE CITY AND SHALL BE SUBJECT TO THEIR INSPECTION AND APPROVAL

2. ALL DRAINAGE STRUCTURES SHALL BE THE MATERIAL AS SPECIFIED IN PLAN DETAILS. THE BASE OF ALL STRUCTURES SHALL BE PLACED ON A BED OF 4" OF COMPACTED SAND.

3. STORM SEWER PIPE SHALL BE GALVANIZED CMP AS SPECIFIED ON PLANS. ALL JOINTS SHALL BE WRAPPED IN GEOTEXTILE MATERIAL.

ROADS, PARKING AND CONCRETE

. ALL WORK WITHIN THE ROAD RIGHT-OF-WAY SHALL COMPLY WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF MDOT (INCLUDING BUT NOT LIMITED TO MATERIALS AND THICKNESSES). NO WORK SHALL BE PERFORMED WITHIN THE ROAD RIGHT-OF-WAY UNTIL THE APPROPRIATE PERMITS ARE OBTAINED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL

2. ALL EXISTING THICKNESSES OF MATERIALS WITHIN PUBLIC ROADWAYS SHALL BE MATCHED DURING THE RECONSTRUCTION WITHIN THE ROAD RIGHT OF WAY.

3. ANY UNDESIRABLE MATERIAL ENCOUNTERED BENEATH THE ROAD, DRIVEWAY, PARKING LOT OR BUILDING SHALL BE REMOVED AND REPLACED WITH SATISFACTORY MATERIAL PLACED IN 6" LAYERS AND COMPACTED TO 95% OF ITS MAXIMUM UNIT WEIGHT.

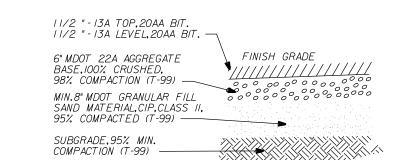
4. CURB AND GUTTER SHALL BE AS SHOWN ON THE PLANS. CURB AND GUTTER SHALL CONTAIN TWO 1/2" STEEL REINFORCING BARS PLACED AS SHOWN. CONCRETE SHALL BE GRADE 35S OR 35P WITH A 28 DAY STRENGTH OF 3500 P.S.I. IN ACCORDANCE WITH M.D.O.T. SPECIFICATIONS SEC. 6.09.

5. CURB AND GUTTER IN ROAD RIGHT OF WAY SHALL HAVE 11" OF COMPACTED CLASS 2 SAND PLACED BELOW IT. CURB AND GUTTER IN PARKING AREA SHALL HAVE A MINIMUM OF 4" OF COMPACTED CLASS 2 SAND PLACED BELOW IT.

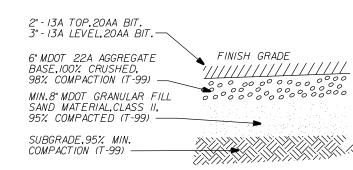
6. ALL INTERSECTIONS OF SIDEWALKS, DRIVES AND PARKING AREAS AT THE SHOWN BARRIER FREE RAMP LOCATIONS SHALL COMPLY WITH BARRIER FREE REQUIREMENTS.

7. THE PARKING AND DRIVE AREAS SHALL HAVE THE FOLLOWING: GRADING AND COMPACTION OF THE SUBGRADE, A MINIMUM OF 8"

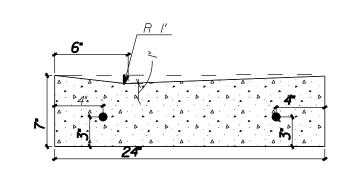
OF COMPACTED CLASS 2 SAND SUB-BASE, A MINIMUM OF 6" OF 22A ROAD GRAVEL BASE AND 3" OF BITUMINOUS PAVING PLACED IN 2



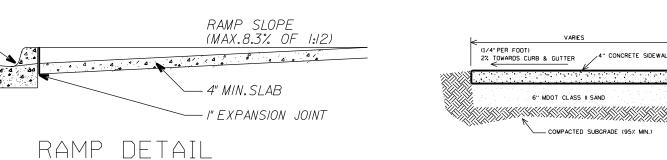
PARKING LOT BITUMINOUS PAVEMENT SECTION



MINIMUM ROW BITUMINOUS PAVEMENT SECTION



GUTTER PAN DETAIL



STANDARD SIDEWALK

EJIW 1020-O1 FRAME AND BEEHIVE

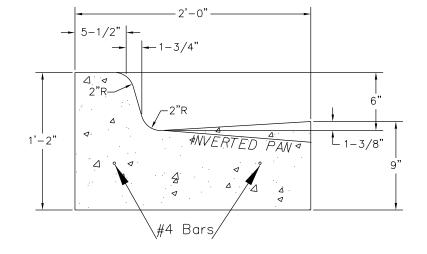
COVER SET IN FULL BED OF MORTAR.

2' DIAM. DROP INLET SET IN CEMENT

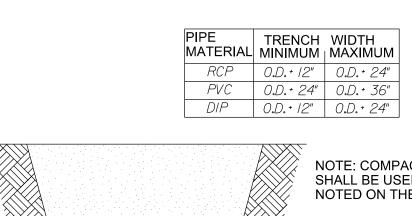
6" IE CAN BE ADJUSTED DOWN IF

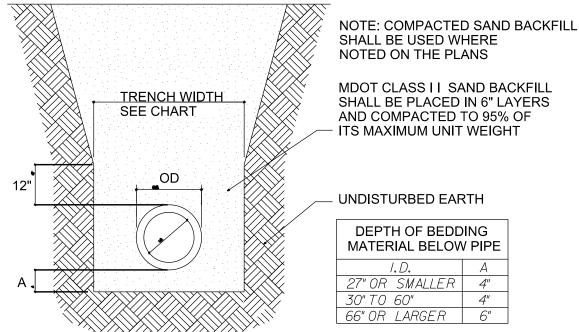
ALLOWED BY FIELD CONDITIONS

RIM ELEV FOR POND OVERFLOW = 860.9

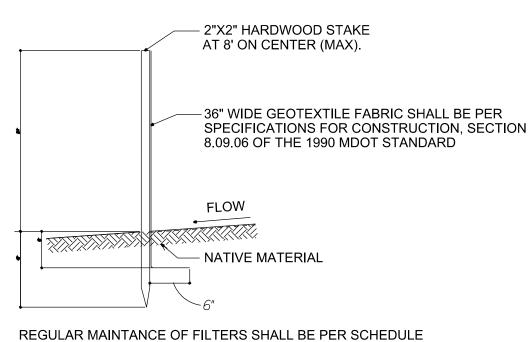


MDOT F-4Concrete Curb & Gutter Detail



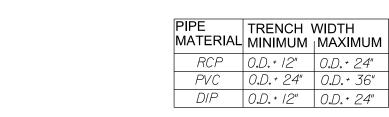


COMPACTED SAND BACKFILL (FOR USE UNDER PAVEMENT AREAS) PIPE BEDDING AND BACKFILL DETAIL SCALE: NO SCALE



SET FORTH IN SOIL EROSION CONTROL PERMITS. PER EATON COUNTY DRAIN OFFICE STDS.

> SILT FENCE SCALE: NO SCALE



858.0 BOTTOM OF POND

856.75

20LF 8" DIA. PERFORATED **PVC PIPE SUCH AS SEPTIC**

DRAIN PIPE W/ GEOTEXTILE

WRAP. CAP POND END FOR

FUTURE MAINTENANCE

860.5 FREE BOARD

COVER PIPE WITH 4" DIA. STONE FILTER, WITH 8"

BIORETENTION/DETENTION POND SECTION

6" DIA. ORIFICE CAP AT INVERT

3' SUMP REQ'D

OF 8" PIPE OUTLET

859.5 TOP OF POND

MINIMUM SURROUNDING PIPE

W/ GEOTEXTILE AROUND PIPE

3" MULCH

12" SANDY LOAM

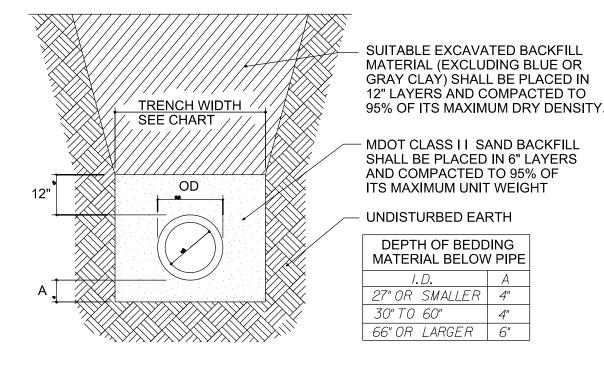
APPROX. 20LF 1" DIA. PERFORATED

PVC PIPE SUCH AS SEPTIC

DRAIN PIPE W/ GEOTEXTILE

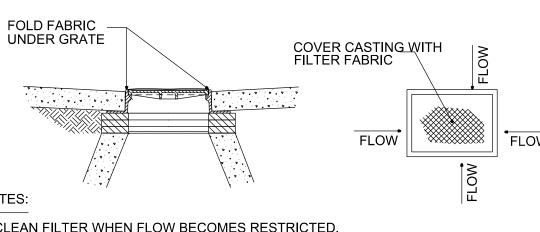
WRAP. CAP POND END FOR

FUTURE MAINTENANCE



EXCAVATED MATERIAL BACKFILL

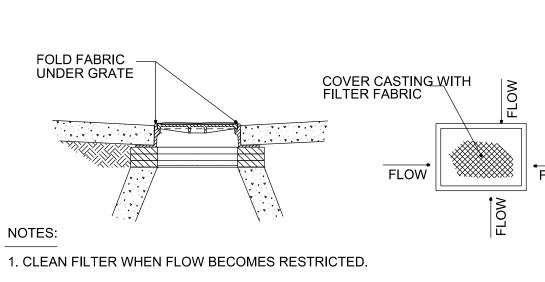
(FOR USE IN NON-PAVEMENT AREAS) PIPE BEDDING AND BACKFILL DETAIL SCALE: NO SCALE



2. FILTER FABRIC SHALL BE OF THE FOLLOWING OR AN APPROVED EQUIVALENT: A) MIRAFI (NON-WOVEN) - CELANESE FIBERS MARKETING CO. B) POLYFILTER X (WOVÉN) - CARTHAGE MILLS C) TYPAR (NON-WOVEN) - DUPONT COMPANY

THE FILTER FABRIC INLET FILTER SHOWN ABOVE.

FILTER FABRIC INLET FILTER SCALE: NO SCALE

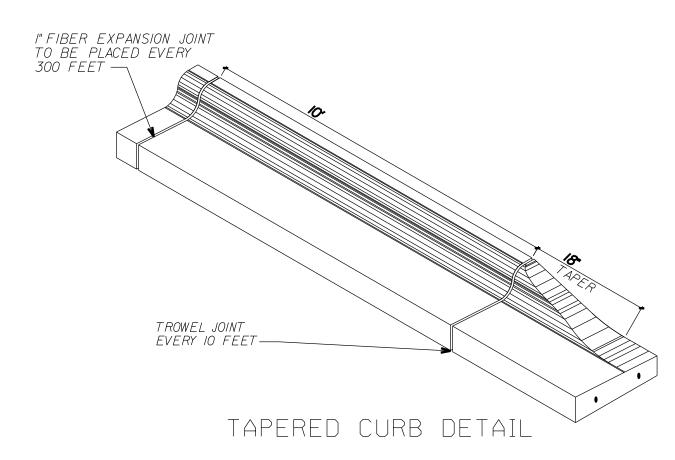


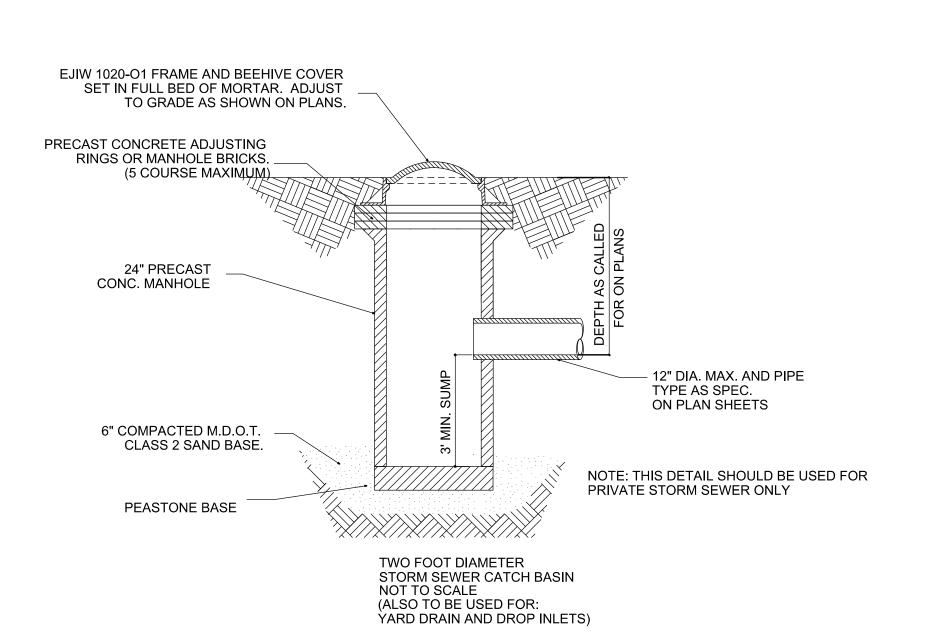


D) OR APPROVED EQUAL

3. ALL MANHOLES, CATCH BASINS, AND CURB INLETS TO BE PROTECTED WITH

4. REGULAR MAINTANCE OF FILTERS SHALL BE PER SCHEDULE SET FORTH IN SOIL EROSION CONTROL PERMITS.





S S 2 \Box

BRS BRS BRS BRS BRS - 2 K 4

DE

BRS 9/8/22
DRAWN BY DATE BRS 9/8/22 ENGINEER DATE
BRS 9/8/22
CAD FILE EDIT

1"=10' PLOT SCALE ROJECT 0001

