

- REFER TO AREA PLAN SHEET C2 FOR VISION CLEARANCE INFORMATION TO EXISTING DRIVE ENTRANCES
- REFER TO AREA PLAN SHEET C2 FOR DISTANCE FROM EXISTING EAST DRIVE ENTRANCE TO CLOSEST INTERSECTION

- SITE PLAN NOTES**
- BUILDING ADDRESS SHALL CONSIST OF A MINIMUM OF 6" HIGH CHARACTERS OF CONTRASTING COLOR AND BE CLEARLY VISIBLE FROM THE STREET.
  - A KEY BOX/KNOX BOX SHALL BE LOCATED NEAR THE FRONT ENTRY (FINAL LOCATION TO BE DETERMINED BETWEEN THE OWNER & FIRE MARSHALL).
  - A MINIMUM VERTICAL CLEARANCE OF 14.0' SHALL BE MAINTAINED THROUGHOUT THE SITE FOR EMERGENCY VEHICLE ACCESS.
  - ALL DRIVEWAYS AND PARKING LOT AISLES SHALL BE ACCESSIBLE AT ALL TIMES FOR EMERGENCY VEHICLES - REGULAR SNOW REMOVAL, NO PARKING.
  - DELIVERIES BY VAN/PANEL TRUCK TO 1 OF 2 LOADING ZONES INDICATED. ANY LARGE DELIVERIES SHALL BE DURING NON-BUSINESS HOURS.
  - REFER TO COVER SHEET FOR ADDITIONAL CONSTRUCTION NOTES - INCLUDING CONSTRUCTION PHASE WATER CONSUMPTION FROM VILLAGE SOURCE
- REFER TO THE TRAFFIC CONTROL PLAN SHEET (C12) FOR ADDITIONAL REQUIREMENTS WHEN WORKING WITHIN THE MDOT M-36 / MAIN STREET R.O.W.

- VARIANCES GRANTED 9-13-21:**
- VARIANCES FROM RTO BUILDING SETBACKS AND LANDSCAPE BUFFERS (DEPTH & DENSITY) TO ACCOMMODATE THE EXISTING BUILDING
  - VARIANCE FROM SIGN ORDINANCE TO ALLOW EXISTING GROUND SIGN TO CONTINUE TO BE USED.

**RECONFIGURED PARCEL 1:**  
Part of the Southwest 1/4 and part of the Southeast 1/4 of Section 22, T1N-R4E, Village of Pinckney, Livingston County, Michigan, more particularly described as follows: Commencing at the West 1/4 Corner of Section 22; thence along the East-West line of Section 22, N 88°59'55" E, 2635.99 feet, to the Center of Section 22; thence along the North-South 1/4 line of Section 22, S 03°57'53" E (recorded as South), 552.03 feet; thence along the Southerly line of M-36 (100 foot wide Right of Way), S 71°18'31" E, 145.97 feet, to the POINT OF BEGINNING of the Parcel to be described; thence continuing along the Southerly line of M-36 (100 foot wide Right of Way), S 71°18'31" E, 395.37 feet; thence S 18°49'33" W (recorded as S 23°49' W), 963.43 feet, to Traverse Point "A"; thence continuing S 18°49'33" W, 140 feet, more or less, to the water's edge of Pinckney Mill Pond; thence Northwesterly, along the water's edge of Pinckney Mill Pond, 264 feet, more or less, to a point on the North-South 1/4 line of Section 22; thence along the North-South 1/4 line of Section 22, N 03°57'53" W (recorded as North), 55 feet, more or less, to Traverse Point "B"; said point being the following course along an Intermediate Traverse Line from Traverse Point "A": N 66°47'56" W, 259.60 feet; thence continuing from Traverse Point "B", along the North-South 1/4 line of Section 22, N 03°57'53" W (recorded as North), 51.10 feet, said point previously described along the following two courses, from the West 1/4 Corner of Section 22: 1) South, 1225.65 feet; 2) East, 2713.91 feet; thence N 72°37'37" W (recorded as N 71°47'00" W), 52.50 feet; thence S 85°47'23" W (recorded as S 89°38'00" W), 122.58 feet; thence N 18°41'29" E, 447.60 feet; thence S 71°18'31" E, 50.00 feet; thence N 18°41'29" E, 229.92 feet, to the POINT OF BEGINNING, containing 7.04 acres, more or less, and subject to the rights of the public over the existing M-36. Also subject to any other easements or restrictions of record.

**RECONFIGURED PARCEL 2:**  
Part of the Southwest 1/4 and part of the Southeast 1/4 of Section 22, T1N-R4E, Village of Pinckney, Livingston County, Michigan, more particularly described as follows: Commencing at the West 1/4 Corner of Section 22; thence along the East-West line of Section 22, N 88°59'55" E, 2635.99 feet, to the Center of Section 22; thence along the North-South 1/4 line of Section 22, S 03°57'53" E (recorded as South), 467.85 feet, to the POINT OF BEGINNING of the Parcel to be described; thence continuing along the North-South 1/4 line of Section 22, S 03°57'53" E (recorded as South), 54.18 feet; thence along the Southerly line of M-36 (100 foot wide Right of Way), S 71°18'31" E, 145.97 feet; thence S 18°41'29" W, 229.92 feet; thence N 71°18'31" W, 50.00 feet, to a point on the North-South 1/4 line of Section 22; thence S 18°41'29" W, 447.60 feet; thence S 85°47'23" W (recorded as S 89°38'00" W), 60.06 feet; thence N 78°54'37" W (recorded as N 75°04'00" W), 146.59 feet; thence S 79°37'04" W, 63.03 feet (recorded as S 83°41'00" W, 64.00 feet); thence N 04°03'11" W, 869.15 feet; thence along the centerline of M-36 (66 foot wide Right of Way), S 71°18'31" E, 476.46 feet, to the POINT OF BEGINNING, containing 7.71 acres, more or less, and subject to the rights of the public over the existing M-36. Also subject to any other easements or restrictions of record.

Bearings are based on Michigan State Plane Coordinate System, South Zone.

**LEGEND**

PROPOSED (PR)	EXISTING (EX)	DESCRIPTION
900	900	CONTOUR
T/C	XXX.XX	SPOT ELEVATION
FFE	FFE	FINISHED FLOOR ELEVATION
FG	FG	FINISHED GRADE ELEVATION
T/A	T/A	TOP OF ASPHALT
T/B	T/B	TOP OF BANK (SWALE)
T/CURB	T/CURB	TOP OF CURB
T/CONC	T/CONC	TOP OF CONCRETE
T/WALK	T/WALK	TOP OF WALK
T/WALL	T/WALL	TOP OF WALL
B/WALL	B/WALL	BOTTOM OF WALL
F/L	F/L	FLOW LINE
T/P	T/P	TOP OF PIPE
B/P	B/P	BOTTOM OF PIPE
RM	RM	RIM ELEVATION
INV	INV	INVERT ELEVATION
MH	MH	MANHOLE STRUCTURE
IN	IN	INLET STRUCTURE
CB	CB	CATCHBASIN STRUCTURE
GV	GV	GATEVALVE STRUCTURE
HYD	HYD	HYDRANT
UP	UP	UTILITY POLE
SN	SN	PROVIDE AND INSTALL SANITARY SEWER
SL	SL	SANITARY LEAD
ST	ST	STORM SEWER
WM	WM	WATER MAIN
WL	WL	WATER LEAD
FO	FO	FIBER OPTIC
OH	OH	OVERHEAD WIRE
C	C	CABLE
E	E	ELECTRIC
G	G	GAS
T	T	TELEPHONE
MANHOLE	MANHOLE	MANHOLE
INLET / CATCHBASIN	INLET / CATCHBASIN	INLET / CATCHBASIN
FLARED END-SECTION	FLARED END-SECTION	FLARED END-SECTION
GATE VALVE	GATE VALVE	GATE VALVE
HYDRANT	HYDRANT	HYDRANT
UTILITY POLE	UTILITY POLE	UTILITY POLE
FENCE	FENCE	FENCE
NFV	NFV	NOT FIELD VERIFIED TO BE REMOVED
SAN 71	SAN 71	SANITARY SEWER LABEL
SS	SS	STORM SEWER LABEL
54T	54T	(P=PERMANENT, T=TEMPORARY)
SILT FENCE	SILT FENCE	SILT FENCE
DRAINAGE LIMITS	DRAINAGE LIMITS	DRAINAGE LIMITS
GRADING LIMITS	GRADING LIMITS	GRADING LIMITS
CONCRETE	CONCRETE	CONCRETE
HEAVY-DUTY ASPHALT	HEAVY-DUTY ASPHALT	HEAVY-DUTY ASPHALT
ASPHALT	ASPHALT	ASPHALT
GRAVEL	GRAVEL	GRAVEL
CURB AND GUTTER	CURB AND GUTTER	CURB AND GUTTER
MODIFIED CURB & GUTTER	MODIFIED CURB & GUTTER	MODIFIED CURB & GUTTER
MDOT B2 CURB & GUTTER	MDOT B2 CURB & GUTTER	MDOT B2 CURB & GUTTER

**SITE STATISTICAL DATA:**  
ZONING: RTO  
DEVELOPMENT TYPES / USE: OFFICE, RETAIL, PROCESSING (WHOLESALE)  
1-STORY STRUCTURE (MAX. ROOF PEAK 33-FT, FLAT ROOF PARAPET 23-FT)  
FOR RECONFIGURED PARCEL 1 (WEST PARCEL):  
GROSS SITE AREA: 7.04 AC (306,662 SQFT.) (NET 6.64 AC EXCL. OF R.O.W.)  
BUILDING SQUARE FOOTAGE (FOOTPRINT): 38,820 SQ FT GROSS (INCL. 450 SQFT ADDITION) (12.66%)  
IMPERVIOUS SURFACE (EXCLUSIVE OF BUILDING): 1.11 ACRES (39.45%)  
PERVIOUS SURFACE: 1.39 ACRES (49.35%)

**MIN. SETBACKS REQUIRED:**  
FRONT: 75-FT (WITH FRONT PARKING)  
REAR: 40-FT (NO ADJACENT RESIDENTIAL)  
SIDES: 25-FT (NO ADJACENT RESIDENTIAL)  
ALL SIDES (<5.0 ACRES): 100-FT LANDSCAPE BUFFER  
MAX. LOT COVERAGE: 40%  
MAX. BLDG. HGT: 35-FT / 2.5 STORIES

**EXISTING BUILDING:**  
FRONT (NORTH): 39.23-FT (VARIES - MIN.)  
REAR (SOUTH): 1,010 (VARIES - MIN.)  
SIDE (WEST): 42.65-FT (VARIES - MIN.)  
SIDE (EAST): 203.20-FT (PROPOSED - MIN.)  
LOT COVERAGE: 12.27% (BUILDING)  
MAX. BLDG. HGT: EXISTING

**PARKING CALCULATION:**  
[TOTAL NUMBER OF EMPLOYEES MAX. SHIFT 30 - SQ FT USED FOR CALCS]  
OFFICE OR RETAIL USE: 1 / 300 SQFT OF FLOOR AREA  
OFFICE - RETAIL AREAS = 11,538 SQ FT  
11,538 / 300 = 38 SPACES REQUIRED  
GROWING / PROCESSING AREA CALCULATED UNDER 'WHOLESALE' CATEGORY: 1 / 600 SQFT FLOOR AREA  
WHOLESALE AREA = 27,282 SQFT  
27,282 / 600 = 45 SPACES REQUIRED  
TOTAL SPACES REQUIRED: 38 + 45 = 83  
PROVIDED: 110 SPACES INCL. 5 BARRIER-FREE SPACES  
(15 SPACES WILL BE INCLUDED IN A CROSS-PARKING EASEMENT WITH THE ADJACENT PROPERTY)

**LOADING SPACES:** 38,820 SQFT > 20,000 SQFT < 40,000 SQFT = 2 MIN 10-FT X 30-FT SPACES REQUIRED  
PROVIDED: 2 LOADING SPACES (12' X 30' & 12' X 43')



**LEGEND**

PROPOSED (PR)	EXISTING (EX)	DESCRIPTION
900	900	CONTOUR
T/C	XXX.XX	SPOT ELEVATION
FFE	FFE	FINISHED FLOOR ELEVATION
FG	FG	FINISHED GRADE ELEVATION
T/A	T/A	TOP OF ASPHALT
T/B	T/B	TOP OF BANK (SWALE)
T/CURB	T/CURB	TOP OF CURB
T/CONC	T/CONC	TOP OF CONCRETE
T/WALK	T/WALK	TOP OF WALK
T/WALL	T/WALL	TOP OF WALL
B/WALL	B/WALL	BOTTOM OF WALL
F/L	F/L	FLOW LINE
T/P	T/P	TOP OF PIPE
B/P	B/P	BOTTOM OF PIPE
RM	RM	RIM ELEVATION
INV	INV	INVERT ELEVATION
MH	MH	MANHOLE STRUCTURE
IN	IN	INLET STRUCTURE
CB	CB	CATCHBASIN STRUCTURE
GV	GV	GATEVALVE STRUCTURE
HYD	HYD	HYDRANT
UP	UP	UTILITY POLE
SN	SN	PROVIDE AND INSTALL SANITARY SEWER
SL	SL	SANITARY LEAD
ST	ST	STORM SEWER
WM	WM	WATER MAIN
WL	WL	WATER LEAD
FO	FO	FIBER OPTIC
OH	OH	OVERHEAD WIRE
C	C	CABLE
E	E	ELECTRIC
G	G	GAS
T	T	TELEPHONE
MANHOLE	MANHOLE	MANHOLE
INLET / CATCHBASIN	INLET / CATCHBASIN	INLET / CATCHBASIN
FLARED END-SECTION	FLARED END-SECTION	FLARED END-SECTION
GATE VALVE	GATE VALVE	GATE VALVE
HYDRANT	HYDRANT	HYDRANT
UTILITY POLE	UTILITY POLE	UTILITY POLE
FENCE	FENCE	FENCE
NFV	NFV	NOT FIELD VERIFIED TO BE REMOVED
SAN 71	SAN 71	SANITARY SEWER LABEL
SS	SS	STORM SEWER LABEL
54T	54T	(P=PERMANENT, T=TEMPORARY)
SILT FENCE	SILT FENCE	SILT FENCE
DRAINAGE LIMITS	DRAINAGE LIMITS	DRAINAGE LIMITS
GRADING LIMITS	GRADING LIMITS	GRADING LIMITS
CONCRETE	CONCRETE	CONCRETE
HEAVY-DUTY ASPHALT	HEAVY-DUTY ASPHALT	HEAVY-DUTY ASPHALT
ASPHALT	ASPHALT	ASPHALT
GRAVEL	GRAVEL	GRAVEL
CURB AND GUTTER	CURB AND GUTTER	CURB AND GUTTER
MODIFIED CURB & GUTTER	MODIFIED CURB & GUTTER	MODIFIED CURB & GUTTER
MDOT B2 CURB & GUTTER	MDOT B2 CURB & GUTTER	MDOT B2 CURB & GUTTER

**THE MEANS**  
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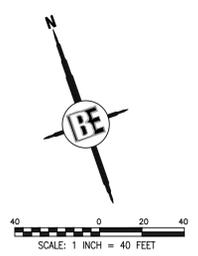
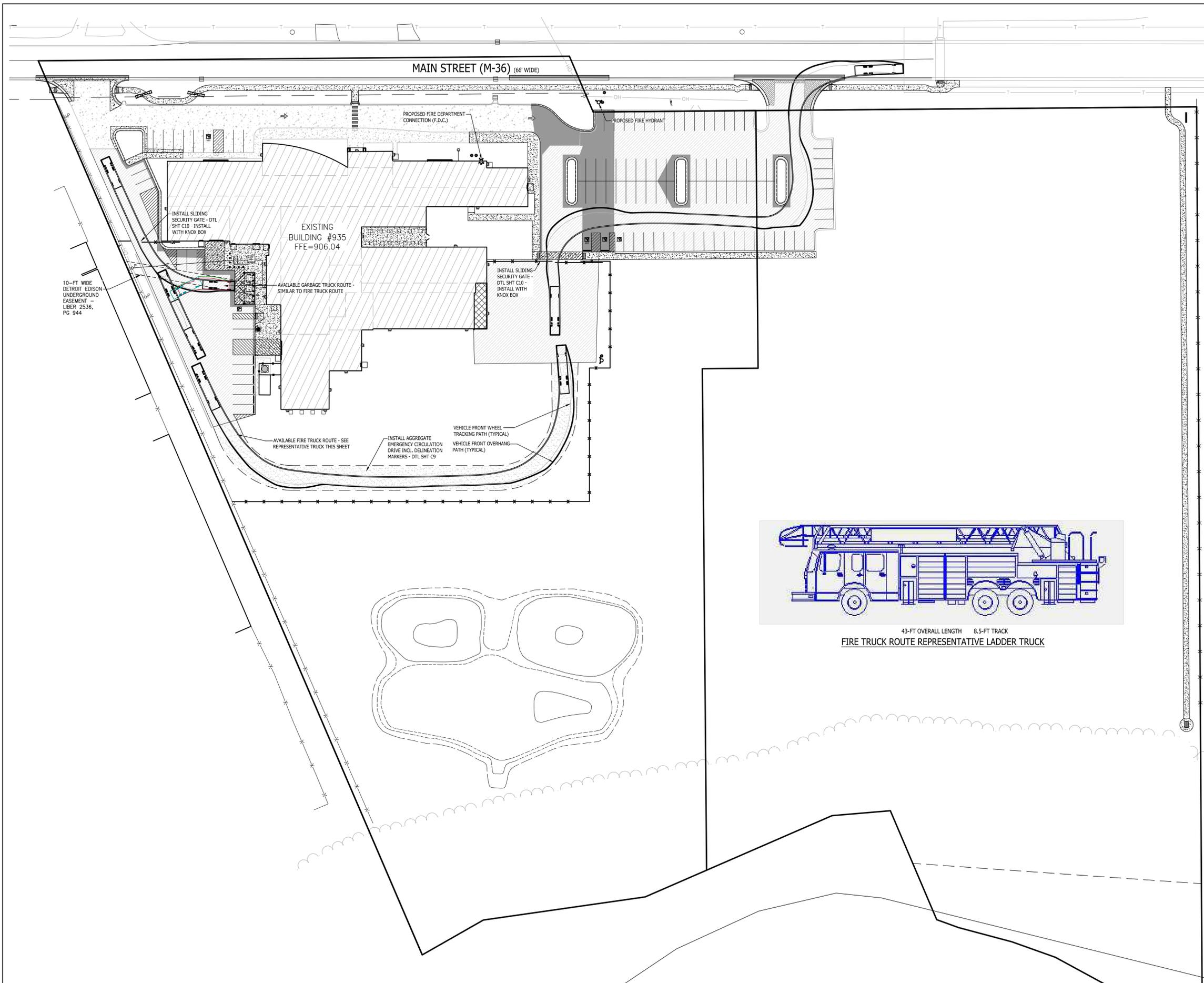
**SITE PLAN**

NO.	DATE	REVISION / COMMENTS
1	11-17-21	NO BY
2	12-10-21	PC MDOE REVISION COMMENTS
3	12-10-21	PC MDOE REVISION COMMENTS
4	12-10-21	PC MDOE REVISION COMMENTS
5	6-22-22	PC MDOE REVISION COMMENTS

DESIGNED BY: PC  
DRAWN BY: PC  
CHECKED BY: PC  
SCALE: 1" = 40'  
JOB NO. 20-032-3  
DATE: 9-16-21  
SHEET NO. **C3A**

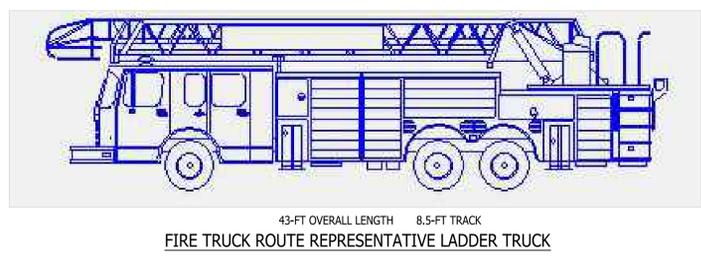
**BEBOSS Engineering**  
Engineers Planners Landscape Architects  
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HOWELL, MI. 48843  
517-546-4836 FAX 517-548-1670

**BEFORE YOU DIG**  
CALL MISS DIG  
1-800-487-3874



**LEGEND**

PROPOSED (PR)	EXISTING (EX)	CONTOUR
900	900	STORM DRAINAGE FLOW
T/C	+922.08	SPOT ELEVATION
XXX.XX		FINISHED FLOOR ELEVATION
FFE		FINISHED GRADE ELEVATION
FC		TOP OF ASPHALT
T/A		TOP OF BANK (SWALE)
T/B		TOP OF CURB
T/CURB		TOP OF CONCRETE
T/CONC		TOP OF WALK
T/WALK		TOP OF WALL
T/WALL		BOTTOM OF WALL
B/WALL		FLOW LINE
F/L		TOP OF PIPE
T/P		BOTTOM OF PIPE
B/P		RIM ELEVATION
RIM		INVERT ELEVATION
INV		MANHOLE STRUCTURE
MH		INLET STRUCTURE
IN		CATCHBASIN STRUCTURE
CB		GATEVALVE STRUCTURE
GV		HYDRANT
HYD		UTILITY POLE
UP		PROVIDE AND INSTALL
INSTALL		SANITARY SEWER
SN		SANITARY LEAD
SL		STORM SEWER
ST		WATER MAIN
WM		WATER LEAD
WL		FIBER OPTIC
FO		OVERHEAD WIRE
OH		CABLE
C		ELECTRIC
E		GAS
G		TELEPHONE
T		MANHOLE
O		INLET / CATCHBASIN
□		FLARED END-SECTION
○		GATE VALVE
⊗		HYDRANT
⊕		UTILITY POLE
+		FENCE SIGN
+		NOT FIELD VERIFIED TO BE REMOVED
TBR		SANITARY SEWER LABEL
SN		STORM SEWER LABEL
WM		WATER MAIN LABEL
WL		(P=PERMANENT, T=TEMPORARY)
FO		SILT FENCE
OH		DRAINAGE LIMITS
C		GRADING LIMITS
E		CONCRETE
G		HEAVY-DUTY ASPHALT
T		ASPHALT
U		GRAVEL
V		CURB AND GUTTER
W		MODIFIED CURB & GUTTER
X		MOOT B2 CURB & GUTTER



- EMERGENCY VEHICLE ACCESS NOTES**
- BUILDING ADDRESS SHALL CONSIST OF A MINIMUM OF 6" HIGH CHARACTERS OF CONTRASTING COLOR AND BE CLEARLY VISIBLE FROM THE STREET.
  - A KEY BOX/KNOX BOX SHALL BE LOCATED NEAR THE FRONT ENTRY AND GATES (FINAL LOCATION TO BE DETERMINED BETWEEN THE OWNER & FIRE MARSHALL).
  - A MINIMUM VERTICAL CLEARANCE OF 14.0' SHALL BE MAINTAINED THROUGHOUT THE SITE FOR EMERGENCY VEHICLE ACCESS.
  - ALL DRIVEWAYS AND PARKING LOT AISLES SHALL BE ACCESSIBLE AT ALL TIMES FOR EMERGENCY VEHICLES - REGULAR SNOW REMOVAL, NO PARKING.

THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL GOVERNMENT.

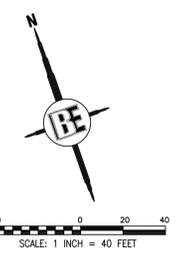
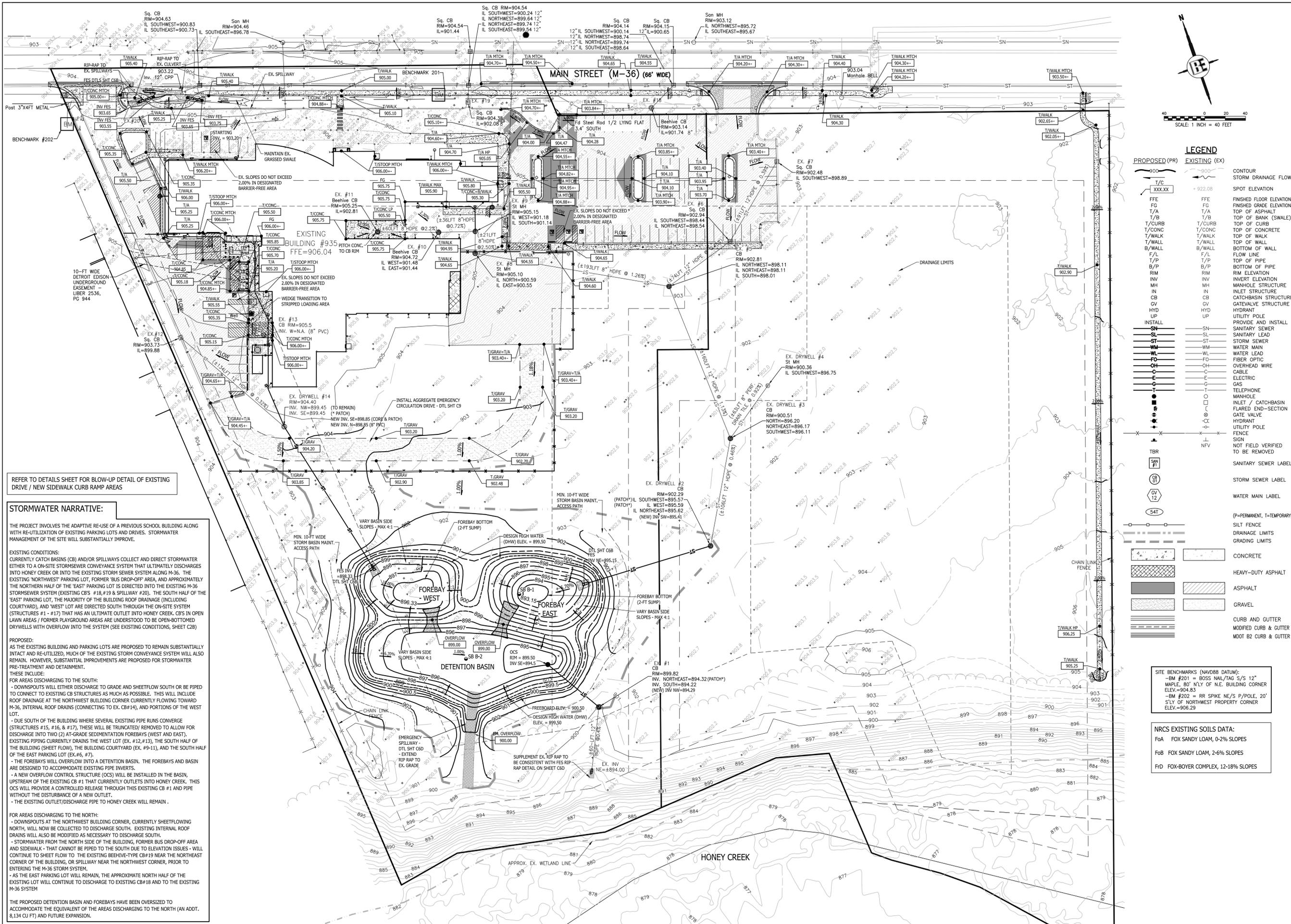
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**THE MEANS**  
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 517-302-0334

**EMERGENCY VEHICLE CIRCULATION PLAN**

NO	BY	DATE	REVISION PER
6	PC	6-22-22	OWNER CHANGES
5	PC	2-23-22	MODIFY COMMENTS
2	PC	12-10-21	ILLUSTRATION & LDC: REVIEW COMMENTS
1	PC	11-17-21	ILLUSTRATION & LDC: REVIEW COMMENTS

DESIGNED BY: PC  
 DRAWN BY: PC  
 CHECKED BY:  
 SCALE: 1" = 40'  
 JOB NO. 20-032-3  
 DATE: 9-16-21  
 SHEET NO. **C3B**



**LEGEND**

PROPOSED (PR)	EXISTING (EX)	DESCRIPTION
900	900	CONTOUR
---	---	STORM DRAINAGE FLOW
T/C	+	SPOT ELEVATION
XXXXXX	922.08	FINISHED FLOOR ELEVATION
FFE	FG	TOP OF ASPHALT
FG	T/A	TOP OF BANK (SWALE)
T/A	T/B	TOP OF CURB
T/CURB	T/CONC	TOP OF CONCRETE
T/CONC	T/WALK	TOP OF WALK
T/WALK	T/WALL	TOP OF WALL
B/WALL	B/WALL	BOTTOM OF WALL
F/L	F/L	FLOW LINE
T/P	T/P	TOP OF PIPE
B/P	B/P	BOTTOM OF PIPE
RIM	RIM	RIM ELEVATION
INV	INV	INVERT ELEVATION
MH	MH	MANHOLE STRUCTURE
IN	IN	INLET STRUCTURE
CB	CB	CATCHBASIN STRUCTURE
GV	GV	GATEWAY STRUCTURE
HYD	HYD	HYDRANT
UP	UP	UTILITY POLE
INSTALL	INSTALL	PROVIDE AND INSTALL
SN	SN	SANITARY SEWER
ST	ST	SANITARY LEAD
WM	WM	STORM SEWER
WL	WL	WATER MAIN
FO	FO	WATER LEAD
CH	CH	FIBER OPTIC
C	C	OVERHEAD WIRE
E	E	CABLE
G	G	ELECTRIC
T	T	GAS
○	○	TELEPHONE
□	□	MANHOLE
○	○	INLET / CATCHBASIN
○	○	FLARED END-SECTION
○	○	GATE VALVE
○	○	HYDRANT
○	○	UTILITY POLE
○	○	FENCE
○	○	SIGN
○	○	NOT FIELD VERIFIED TO BE REMOVED
TBR	TBR	SANITARY SEWER LABEL
ST	ST	STORM SEWER LABEL
WM	WM	WATER MAIN LABEL
FO	FO	(P=PERMANENT, T=TEMPORARY)
CH	CH	SILT FENCE
C	C	DRAINAGE LIMITS
G	G	GRADING LIMITS
CONCRETE	CONCRETE	CONCRETE
HEAVY-DUTY ASPHALT	HEAVY-DUTY ASPHALT	HEAVY-DUTY ASPHALT
ASPHALT	ASPHALT	ASPHALT
GRAVEL	GRAVEL	GRAVEL
CURB AND GUTTER	CURB AND GUTTER	CURB AND GUTTER
MODIFIED CURB & GUTTER	MODIFIED CURB & GUTTER	MODIFIED CURB & GUTTER
MOT B2 CURB & GUTTER	MOT B2 CURB & GUTTER	MOT B2 CURB & GUTTER

REFER TO DETAILS SHEET FOR BLOW-UP DETAIL OF EXISTING DRIVE / NEW SIDEWALK CURB RAMP AREAS

**STORMWATER NARRATIVE:**

THE PROJECT INVOLVES THE ADAPTIVE RE-USE OF A PREVIOUS SCHOOL BUILDING ALONG WITH RE-UTILIZATION OF EXISTING PARKING LOTS AND DRIVES. STORMWATER MANAGEMENT OF THE SITE WILL SUBSTANTIALLY IMPROVE.

**EXISTING CONDITIONS:**  
 CURRENTLY CATCH BASINS (CB) AND/OR SPILLWAYS COLLECT AND DIRECT STORMWATER EITHER TO A ON-SITE STORMSEWER CONVEYANCE SYSTEM THAT ULTIMATELY DISCHARGES INTO HONEY CREEK OR INTO THE EXISTING STORM SEWER SYSTEM ALONG M-36. THE EXISTING "NORTHWEST" PARKING LOT, FORMER "BUS DROP-OFF AREA, AND APPROXIMATELY THE NORTHERN HALF OF THE "EAST" PARKING LOT IS DIRECTED INTO THE EXISTING M-36 STORMSEWER SYSTEM (EXISTING CBS #18, #19 & SPILLWAY #20). THE SOUTH HALF OF THE "EAST" PARKING LOT, THE MAJORITY OF THE BUILDING ROOF DRAINAGE (INCLUDING COURTYARD), AND "WEST" LOT ARE DIRECTED SOUTH THROUGH THE ON-SITE SYSTEM (STRUCTURES #1 - #17) THAT HAS AN ULTIMATE OUTLET INTO HONEY CREEK. CBS IN OPEN LAWN AREAS / FORMER PLAYGROUND AREAS ARE UNDERSTOOD TO BE OPEN-BOTTOMED DRYWELLS WITH OVERFLOW INTO THE SYSTEM (SEE EXISTING CONDITIONS, SHEET C2B).

**PROPOSED:**  
 AS THE EXISTING BUILDING AND PARKING LOTS ARE PROPOSED TO REMAIN SUBSTANTIALLY INTACT AND RE-UTILIZED, MUCH OF THE EXISTING STORM CONVEYANCE SYSTEM WILL ALSO REMAIN. HOWEVER, SUBSTANTIAL IMPROVEMENTS ARE PROPOSED FOR STORMWATER PRE-TREATMENT AND DETAINMENT.

THESE INCLUDE:  
 FOR AREAS DISCHARGING TO THE SOUTH:  
 - DOWNSPOUTS WILL EITHER DISCHARGE TO GRADE AND SHEETFLOW SOUTH OR BE PIPED TO CONNECT TO EXISTING CB STRUCTURES AS MUCH AS POSSIBLE. THIS WILL INCLUDE ROOF DRAINAGE AT THE NORTHWEST BUILDING CORNER CURRENTLY FLOWING TOWARD M-36, INTERNAL ROOF DRAINS (CONNECTING TO EX. CB#14), AND PORTIONS OF THE WEST LOT.  
 - DUE SOUTH OF THE BUILDING WHERE SEVERAL EXISTING PIPE RUNS CONVERGE (STRUCTURES #15, #16, & #17), THESE WILL BE TRUNCATED/ REMOVED TO ALLOW FOR DISCHARGE INTO TWO (2) AT-GRADE SEDIMENTATION FOREBAYS (WEST AND EAST). EXISTING PIPING CURRENTLY DRAINS THE WEST LOT (EX. #12, #13), THE SOUTH HALF OF THE BUILDING (SHEET FLOW), THE BUILDING COURTYARD (EX. #9, #11), AND THE SOUTH HALF OF THE EAST PARKING LOT (EX. #6, #7).  
 - THE FOREBAYS WILL OVERFLOW INTO A DETENTION BASIN. THE FOREBAYS AND BASIN ARE DESIGNED TO ACCOMMODATE EXISTING PIPE INVERTS.  
 - A NEW OVERFLOW CONTROL STRUCTURE (OCS) WILL BE INSTALLED IN THE BASIN, UPSTREAM OF THE EXISTING CB #1 THAT CURRENTLY OUTLETS INTO HONEY CREEK. THIS OCS WILL PROVIDE A CONTROLLED RELEASE THROUGH THIS EXISTING CB #1 AND PIPE WITHOUT THE DISTURBANCE OF A NEW OUTLET.  
 - THE EXISTING OUTLET/DISCHARGE PIPE TO HONEY CREEK WILL REMAIN.

FOR AREAS DISCHARGING TO THE NORTH:  
 - DOWNSPOUTS AT THE NORTHWEST BUILDING CORNER, CURRENTLY SHEETFLOWING NORTH, WILL NOW BE COLLECTED TO DISCHARGE SOUTH. EXISTING INTERNAL ROOF DRAINS WILL ALSO BE MODIFIED AS NECESSARY TO DISCHARGE SOUTH.  
 - STORMWATER FROM THE NORTH SIDE OF THE BUILDING, FORMER BUS DROP-OFF AREA AND SIDEWALK - THAT CANNOT BE PIPED TO THE SOUTH DUE TO ELEVATION ISSUES - WILL CONTINUE TO SHEET FLOW TO THE EXISTING BEEHIVE-TYPE CB #19 NEAR THE NORTHEAST CORNER OF THE BUILDING, OR SPILLWAY NEAR THE NORTHWEST CORNER, PRIOR TO ENTERING THE M-36 STORM SYSTEM.  
 - AS THE EAST PARKING LOT WILL REMAIN, THE APPROXIMATE NORTH HALF OF THE EXISTING LOT WILL CONTINUE TO DISCHARGE TO EXISTING CB#18 AND TO THE EXISTING M-36 SYSTEM

THE PROPOSED DETENTION BASIN AND FOREBAYS HAVE BEEN OVERSIZED TO ACCOMMODATE THE EQUIVALENT OF THE AREAS DISCHARGING TO THE NORTH (AN ADDT. 8,134 CU FT) AND FUTURE EXPANSION.

SITE BENCHMARKS (NAVD88 DATUM):  
 - BM #201 = BOSS NAIL/TAG S/S 12" MAPLE, 80' NLY OF N.E. BUILDING CORNER ELEV.=904.83  
 - BM #202 = RR SPIKE NE/S P/POLE, 20' SLY OF NORTHWEST PROPERTY CORNER ELEV.=906.29

NRCS EXISTING SOILS DATA:  
 F0A FOX SANDY LOAM, 0-2% SLOPES  
 F0B FOX SANDY LOAM, 2-6% SLOPES  
 F1D FOX-BOYER COMPLEX, 12-18% SLOPES



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**THE MEANS**  
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 118 WEST HIGHLAND ROAD, SUITE 200  
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 517-202-1034

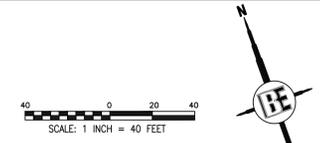
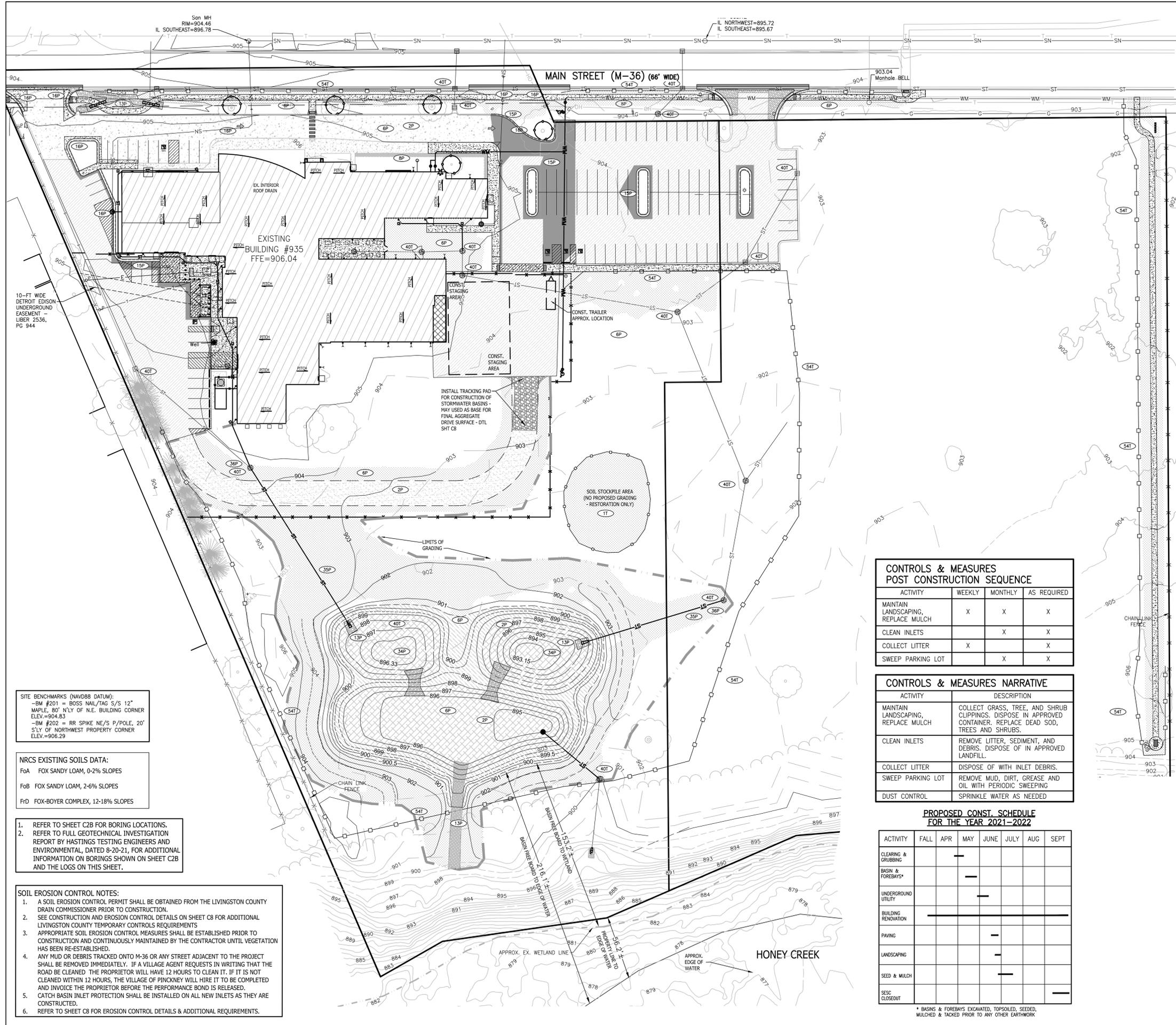
PROJECT: \_\_\_\_\_  
 PREPARED FOR: \_\_\_\_\_  
 TITLE: **GRADING AND DRAINAGE PLAN**

NO	BY	REVISION	PER	DATE
6	PC	MOOT REB & OWNER CHANGES		6-22-22
5	PC	MOOT REVIEW COMMENTS		2-23-22
4	PC	MOOT REVISION COMMENTS		12-10-21
1	PC	ILLUSTRATION & LODC REVIEW COMMENTS		11-17-21

DESIGNED BY: PC  
 DRAWN BY: PC  
 CHECKED BY: \_\_\_\_\_

SCALE: 1" = 40'  
 JOB NO. 20-032-3  
 DATE: 9-16-21  
 SHEET NO. \_\_\_\_\_

**C4**



### LEGEND

PROPOSED (PR)	EXISTING (EX)	DESCRIPTION
900	900	CONTOUR
T/C	XXX.XX	STORM DRAINAGE FLOW
FFC	+ 922.08	SPOT ELEVATION
FG		FINISHED FLOOR ELEVATION
T/A		FINISHED GRADE ELEVATION
T/C		TOP OF CURB / CONCRETE
T/W		TOP OF WALK
F/L		FLOW LINE
T/P		TOP OF PIPE
B/P		BOTTOM OF PIPE
RM		RM ELEVATION
INV		INVERT ELEVATION
MH		MANHOLE STRUCTURE
IN		INLET STRUCTURE
CB		CATCHBASIN STRUCTURE
GV		GATEVALVE STRUCTURE
HYD		HYDRANT
UP		UTILITY POLE
INSTALL		PROVIDE AND INSTALL
SN		SANITARY SEWER
SL		SANITARY LEAD
ST		STORM SEWER
WM		WATER MAIN
WL		WATER LEAD
FO		FIBER OPTIC
OH		OVERHEAD WIRE
C		CABLE
E		ELECTRIC
G		GAS
T		TELEPHONE
O		MANHOLE
I		INLET / CATCHBASIN
FL		FLARED END-SECTION
G		GATE VALVE
H		HYDRANT
U		UTILITY POLE
X		FENCE
NFV		NOT FIELD VERIFIED TO BE REMOVED
TBR		SANITARY SEWER LABEL
SW		STORM SEWER LABEL
SI		WATER MAIN LABEL
12		SOIL EROSION CONTROL MEASURE (P=PERMANENT, T=TEMPORARY)
54T		SIGN
		SILT FENCE
		DRAINAGE LIMITS
		GRADING LIMITS
		CONCRETE (THICKNESS AS NOTED)
		HEAVY-DUTY ASPHALT
		ASPHALT
		CURB AND GUTTER
		MODIFIED CURB & GUTTER
		SPECIAL CURB & GUTTER - AS NOTED

**SOIL EROSION CONTROL MEASURES**  
 P=PERMANENT T=TEMPORARY  
 TOTAL DISTURBED AREA = 2.15 AC (93,654 SF)

NO.	MEASURE	DESCRIPTION
1	STRIPPING & STOCKPILING TOPSOIL	TOPSOIL MAY BE STOCKPILED ABOVE BORROW AREAS TO ACT AS A DIVERSION STOCKPILE SHOULD BE TEMPORARILY SEED
2	SELECTIVE GRADING & SHIMMING	WATER CAN BE DIVERTED TO MINIMIZE EROSION FLATTER SLOPES USE EROSION PROBLEMS
6	SEEDING WITH MULCH AND/OR MATING	FACILITATES ESTABLISHMENT OF VEGETATIVE COVER EFFECTIVE FOR DRANGWAYS WITH LOW VELOCITY EASILY PLACED IN SMALL QUANTITIES BY INEXPERIENCED PERSONNEL SHOULD INCLUDE PREPARED TOPSOIL (BT)
8	SOODING	PROVIDES IMMEDIATE PROTECTION CAN BE USED ON STEEP SLOPES WHERE SEED MAY BE DIFFICULT TO ESTABLISH EASY TO PLACE, MAY BE REPAIRED IF DAMAGED SHOULD INCLUDE PREPARED TOPSOIL (BT)
13	RP-RAP, RUBBLE, CATIONS	USED WHERE VEGETATION IS NOT EASILY ESTABLISHED EFFECTIVE FOR HIGH VELOCITIES OR HIGH CONCENTRATIONS PERMITS RUNOFF TO INFILTRATE SOIL DISSIPATES ENERGY FLOW AT SYSTEM OUTLETS
15	PAVING	PROTECTS AREAS WHICH CANNOT OTHERWISE BE PROTECTED, BUT INCREASES RUNOFF VELOCITY IRREGULAR SURFACE WILL HELP SLOW VELOCITY
16	CURB & GUTTER	KEEPS HIGH VELOCITY RUNOFF ON PAVED AREAS FROM LEAVING PAVED SURFACE COLLECTS AND CONDUITS RUNOFF TO ENCLOSED DRAINAGE SYSTEM OR PREPARED DRAINAGEWAY
24	GRASSED WATERWAY	MUCH MORE STABLE FORM OF DRANGWAYWAY THAN BARE CHANNEL GRASS TENDS TO SLOW RUNOFF AND FILTER OUT SEDIMENT USED WHERE BARE CHANNEL WOULD BE EXPOSED
34	SEDIMENT BASIN	TRAPS SEDIMENT RELEASES RUNOFF AT NON-EROSIVE RATES CONTROLS RUNOFF AT SYSTEM OUTLETS CAN BE VISUAL ADJUTIES
35	STORM SEWER	SYSTEM REMOVES COLLECTED RUNOFF FROM SITE, PARTICULARLY FROM PAVED AREAS CAN ACCEPT LARGE CONCENTRATIONS OF RUNOFF CONDUITS RUNOFF TO MUNICIPAL SEWER SYSTEM OR STABILIZED OUTFALL LOCATION USE CAREFUL DESIGN TO COLLECT SEDIMENT
36	CATCH BASIN, DRAIN INLET	COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF MAY USE FILTER CLOTH OVER INLET
40	INLET SEDIMENT FILTER	EASY TO SHAPE COLLECTS SEDIMENT MAY BE CLEANED AND EXPANDED AS NEEDED
54	SILT FENCE	USES GEOTEXTILE FABRIC AND POST OR POLES. EASY TO CONSTRUCT AND LOCATE AS NECESSARY. (SEE DETAIL SHEET C8)

### CONTROLS & MEASURES POST CONSTRUCTION SEQUENCE

ACTIVITY	WEEKLY	MONTHLY	AS REQUIRED
MAINTAIN LANDSCAPING, REPLACE MULCH	X	X	X
CLEAN INLETS		X	X
COLLECT LITTER	X		X
SWEEP PARKING LOT		X	X

### CONTROLS & MEASURES NARRATIVE

ACTIVITY	DESCRIPTION
MAINTAIN LANDSCAPING, REPLACE MULCH	COLLECT GRASS, TREE, AND SHRUB CLIPPINGS. DISPOSE IN APPROVED CONTAINER. REPLACE DEAD SOO, TREES AND SHRUBS.
CLEAN INLETS	REMOVE LITTER, SEDIMENT, AND DEBRIS. DISPOSE OF IN APPROVED LANDFILL.
COLLECT LITTER	DISPOSE OF WITH INLET DEBRIS.
SWEEP PARKING LOT	REMOVE MUD, DIRT, GREASE AND OIL WITH PERIODIC SWEEPING
DUST CONTROL	SPRINKLE WATER AS NEEDED

### PROPOSED CONST. SCHEDULE FOR THE YEAR 2021-2022

ACTIVITY	FALL	APR	MAY	JUNE	JULY	AUG	SEPT
CLEARING & GRUBBING							
BASIN & FOREBAYS*							
UNDERGROUND UTILITY							
BUILDING RENOVATION							
PAVING							
LANDSCAPING							
SEED & MULCH							
SECC CLOSEOUT							

**SITE BENCHMARKS (NAVD88 DATUM):**  
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**NRCS EXISTING SOILS DATA:**  
 FoA FOX SANDY LOAM, 0-2% SLOPES  
 FoB FOX SANDY LOAM, 2-6% SLOPES  
 FrD FOX-BOYER COMPLEX, 12-18% SLOPES

- REFER TO SHEET C2B FOR BORING LOCATIONS.
- REFER TO FULL GEOTECHNICAL INVESTIGATION REPORT BY HASTINGS TESTING ENGINEERS AND ENVIRONMENTAL, DATED 8-20-21, FOR ADDITIONAL INFORMATION ON BORINGS SHOWN ON SHEET C2B AND THE LOGS ON THIS SHEET.

- SOIL EROSION CONTROL NOTES:**
- A SOIL EROSION CONTROL PERMIT SHALL BE OBTAINED FROM THE LIVINGSTON COUNTY DRAIN COMMISSIONER PRIOR TO CONSTRUCTION.
  - SEE CONSTRUCTION AND EROSION CONTROL DETAILS ON SHEET C8 FOR ADDITIONAL LIVINGSTON COUNTY TEMPORARY CONTROLS REQUIREMENTS
  - APPROPRIATE SOIL EROSION CONTROL MEASURES SHALL BE ESTABLISHED PRIOR TO CONSTRUCTION AND CONTINUOUSLY MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BEEN RE-ESTABLISHED.
  - ANY MUD OR DEBRIS TRACKED ONTO M-36 OR ANY STREET ADJACENT TO THE PROJECT SHALL BE REMOVED IMMEDIATELY. IF A VILLAGE AGENT REQUESTS IN WRITING THAT THE ROAD BE CLEANED THE PROPRIETOR WILL HAVE 12 HOURS TO CLEAN IT. IF IT IS NOT CLEANED WITHIN 12 HOURS, THE VILLAGE OF PINCKNEY WILL HIRE IT TO BE COMPLETED AND INVOICE THE PROPRIETOR BEFORE THE PERFORMANCE BOND IS RELEASED.
  - CATCH BASIN INLET PROTECTION SHALL BE INSTALLED ON ALL NEW INLETS AS THEY ARE CONSTRUCTED.
  - REFER TO SHEET C8 FOR EROSION CONTROL DETAILS & ADDITIONAL REQUIREMENTS.

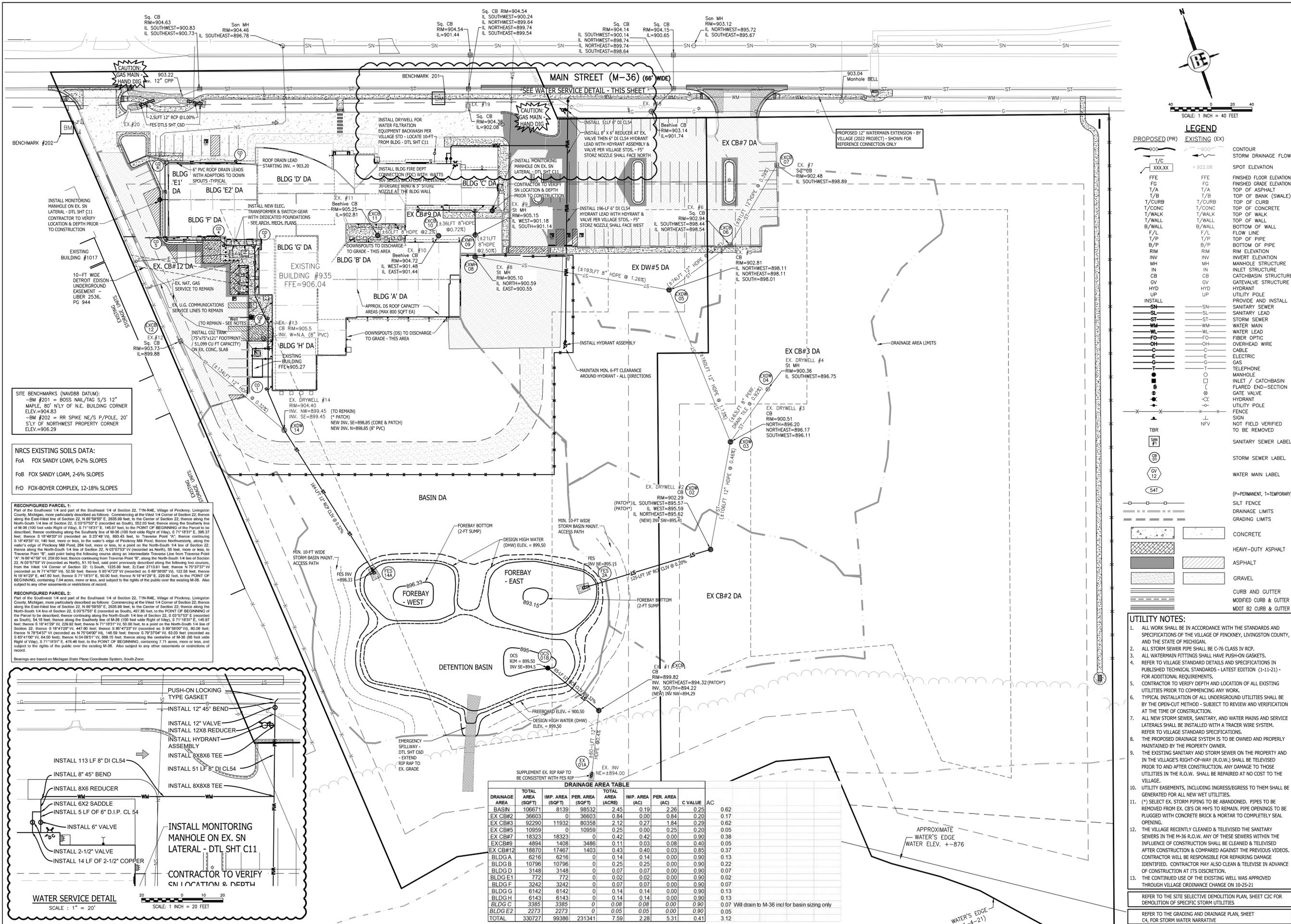
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 517-546-4836 FAX 517-548-1670

**THE MEANS**  
 PROJECT: MR. CHRIS BONK  
 118 WEST HIGHLAND ROAD, SUITE 200  
 HOWELL, MI 48843  
 517-202-1084

DESIGNED BY: PC  
 DRAWN BY: PC  
 CHECKED BY: PC

SCALE: 1" = 40'  
 JOB NO. 20-032-3  
 DATE 9-16-21  
 SHEET NO. C5

**SOIL EROSION & SEDIMENTATION CONTROL PLAN**



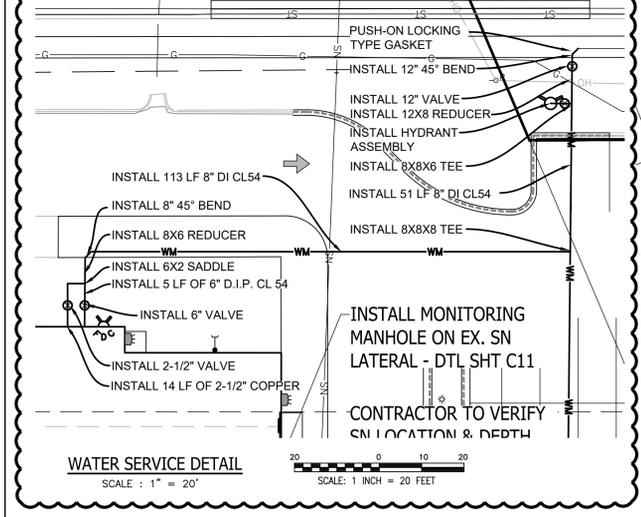
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**NRCS EXISTING SOILS DATA:**  
 FOA FOX SANDY LOAM, 0-2% SLOPES  
 FOB FOX SANDY LOAM, 2-6% SLOPES  
 F0D FOX-BOYER COMPLEX, 12-18% SLOPES

**RECONFIGURED PARCEL 1:**  
 Part of the Southwest 1/4 and part of the Southeast 1/4 of Section 22, T19N-R4E, Village of Pinckney, Livingston County, Michigan, more particularly described as follows: Commencing at the West 1/4 Corner of Section 22; thence along the East-West line of Section 22, N 88°59'55" E, 2035.99 feet, to the Center of Section 22; thence along the North-South 1/4 line of Section 22, S 03°57'53" E (recorded as South), 552.03 feet; thence along the Southerly line of M-36 (100 foot wide Right of Way), S 71°18'31" E, 145.07 feet, to the POINT OF BEGINNING of the Parcel to be described; thence continuing along the Southerly line of M-36 (100 foot wide Right of Way), S 71°18'31" E, 356.37 feet; thence S 18°49'33" W (recorded as S 23°49'33" W), 693.43 feet, to Traverse Point "A"; thence continuing S 14°49'33" W, 140 feet, more or less, to the water's edge of Pinckney Mill Pond; thence Northwesterly, along the water's edge of Pinckney Mill Pond, 254 feet, more or less, to a point on the North-South 1/4 line of Section 22; thence along the North-South 1/4 line of Section 22, N 03°57'53" W (recorded as North), 55 feet, more or less, to Traverse Point "B"; said point being the following course along an intermediate Traverse Line from Traverse Point "A" N 62°47'50" W, 259.60 feet; thence continuing from Traverse Point "B", along the North-South 1/4 line of Section 22, N 03°57'53" W (recorded as North), 51.10 feet, said point previously described along the following two courses, from the West 1/4 Corner of Section 22, 1) East 2713.51 feet; thence N 75°37'37" W (recorded as N 71°47'00" W), 52.50 feet; thence S 84°23'21" W (recorded as S 89°38'00" W), 122.58 feet; thence N 18°42'32" E, 447.50 feet; thence S 71°18'31" E, 50.00 feet; thence N 18°42'32" E, 229.92 feet, to the POINT OF BEGINNING, containing 7.04 acres, more or less, and subject to the rights of the public over the existing M-36. Also subject to any other easements or restrictions of record.

**RECONFIGURED PARCEL 2:**  
 Part of the Southwest 1/4 and part of the Southeast 1/4 of Section 22, T19N-R4E, Village of Pinckney, Livingston County, Michigan, more particularly described as follows: Commencing at the West 1/4 Corner of Section 22; thence along the East-West line of Section 22, N 88°59'55" E, 2035.99 feet, to the Center of Section 22; thence along the North-South 1/4 line of Section 22, S 03°57'53" E (recorded as South), 407.40 feet, to the POINT OF BEGINNING of the Parcel to be described; thence continuing along the North-South 1/4 line of Section 22, S 03°57'53" E (recorded as South), 54.16 feet; thence along the Southerly line of M-36 (100 foot wide Right of Way), S 71°18'31" E, 145.07 feet; thence S 18°49'33" W, 229.92 feet; thence N 71°18'31" W, 50.00 feet, to a point on the North-South 1/4 line of Section 22; thence S 18°42'32" W, 447.50 feet; thence S 89°38'00" W (recorded as S 89°38'00" W), 60.06 feet; thence N 75°37'37" W (recorded as N 75°37'37" W), 145.59 feet; thence S 79°37'37" W, 63.03 feet; thence S 83°41'00" W, 64.03 feet; thence N 04°05'51" W, 898.15 feet; thence along the centerline of M-36 (66 foot wide Right of Way), S 71°18'31" E, 476.46 feet, to the POINT OF BEGINNING, containing 7.71 acres, more or less, and subject to the rights of the public over the existing M-36. Also subject to any other easements or restrictions of record.

Bearings are based on Michigan State Plane Coordinate System, South Zone.



**DRAINAGE AREA TABLE**

DRAINAGE AREA	TOTAL AREA (SQFT)	IMP. AREA (SQFT)	PER AREA (SQFT)	TOTAL AREA (AC)	IMP. AREA (AC)	PER AREA (AC)	C VALUE	AC
BASIN	106671	8139	98532	2.45	0.19	2.26	0.25	0.62
EX CB#2	36603	0	36603	0.84	0.00	0.84	0.20	0.17
EX CB#3	92290	11932	80358	2.12	0.27	1.84	0.29	0.62
EX CB#5	10959	0	10959	0.25	0.00	0.25	0.20	0.05
EX CB#7	18323	18323	0	0.42	0.42	0.00	0.90	0.38
EX CB#9	4894	1408	3486	0.11	0.03	0.08	0.40	0.05
EX CB#12	18870	17467	1403	0.43	0.40	0.03	0.85	0.37
BLDG A	6216	6216	0	0.14	0.14	0.00	0.90	0.13
BLDG B	10796	10796	0	0.25	0.25	0.00	0.90	0.22
BLDG D	3148	3148	0	0.07	0.07	0.00	0.90	0.07
BLDG E1	772	772	0	0.02	0.02	0.00	0.90	0.02
BLDG F	3242	3242	0	0.07	0.07	0.00	0.90	0.07
BLDG G	6142	6142	0	0.14	0.14	0.00	0.90	0.13
BLDG H	6143	6143	0	0.14	0.14	0.00	0.90	0.13
BLDG C	3385	3385	0	0.08	0.08	0.00	0.90	0.07
BLDG E2	2273	2273	0	0.05	0.05	0.00	0.90	0.05
TOTAL	330721	99386	231341	7.59	2.28	5.31	0.41	3.12

**LEGEND**

**PROPOSED (PR)**

**EXISTING (EX)**

CONTOUR STORM DRAINAGE FLOW

SPOT ELEVATION

FINISHED FLOOR ELEVATION

TOP OF ASPHALT

TOP OF BANK (SWALE)

TOP OF CURB

TOP OF CONCRETE

TOP OF WALK

TOP OF WALL

BOTTOM OF WALL

FLOW LINE

TOP OF PIPE

BOTTOM OF PIPE

RIM ELEVATION

INVERT ELEVATION

MANHOLE STRUCTURE

INLET STRUCTURE

CATCHBASIN STRUCTURE

GATEVALVE STRUCTURE

HYDRANT

UTILITY POLE

PROVIDE AND INSTALL SANITARY SEWER

SANITARY LEAD

STORM SEWER

WATER MAIN

WATER LEAD

FIBER OPTIC

OVERHEAD WIRE

CABLE

ELECTRIC

GAS

TELEPHONE

MANHOLE

INLET / CATCHBASIN

FLARED END-SECTION

GATE VALVE

HYDRANT

UTILITY POLE

FENCE

SIGN

NOT FIELD VERIFIED TO BE REMOVED

SANITARY SEWER LABEL

STORM SEWER LABEL

WATER MAIN LABEL

(P=PERMANENT, T=TEMPORARY)

SILT FENCE

DRAINAGE LIMITS

GRADING LIMITS

CONCRETE

HEAVY-DUTY ASPHALT

ASPHALT

GRAVEL

CURB AND GUTTER

MODIFIED CURB & GUTTER

MDOT R2 CURB & GUTTER

**UTILITY NOTES:**

- ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE VILLAGE OF PINCKNEY, LIVINGSTON COUNTY, AND THE STATE OF MICHIGAN.
- ALL STORM SEWER PIPE SHALL BE C-76 CLASS IV RCP.
- ALL WATERMAIN FITTINGS SHALL HAVE PUSH-ON GASKETS.
- REFER TO VILLAGE STANDARD DETAILS AND SPECIFICATIONS IN PUBLISHED TECHNICAL STANDARDS - LATEST EDITION (1-11-21) - FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY WORK.
- TYPICAL INSTALLATION OF ALL UNDERGROUND UTILITIES SHALL BE BY THE OPEN-CUT METHOD - SUBJECT TO REVIEW AND VERIFICATION AT THE TIME OF CONSTRUCTION.
- ALL NEW STORM SEWER, SANITARY, AND WATER MAINS AND SERVICE LATERALS SHALL BE INSTALLED WITH A TRACER WIRE SYSTEM. REFER TO VILLAGE STANDARD SPECIFICATIONS.
- THE PROPOSED DRAINAGE SYSTEM IS TO BE OWNED AND PROPERLY MAINTAINED BY THE PROPERTY OWNER.
- THE EXISTING SANITARY AND STORM SEWER ON THE PROPERTY AND IN THE VILLAGE'S RIGHT-OF-WAY (R.O.W.) SHALL BE TELEVIEWED PRIOR TO AND AFTER CONSTRUCTION. ANY DAMAGE TO THOSE UTILITIES IN THE R.O.W. SHALL BE REPAIRED AT NO COST TO THE VILLAGE.
- UTILITY EASEMENTS, INCLUDING INGRESS/EGRESS TO THEM SHALL BE GENERATED FOR ALL NEW UTILITY.
- (\* SELECT EX. STORM PIPING TO BE ABANDONED. PIPES TO BE REMOVED FROM EX. CBS OR MHS TO REMAIN. PIPE OPENINGS TO BE PLUGGED WITH CONCRETE BRICK & MORTAR TO COMPLETELY SEAL OPENING.
- THE VILLAGE RECENTLY CLEANED & TELEVIEWED THE SANITARY SEWERS IN THE M-36 R.O.W. OF THESE SEWERS WITHIN THE INFLUENCE OF CONSTRUCTION SHALL BE CLEANED & TELEVIEWED AFTER CONSTRUCTION & COMPARED AGAINST THE PREVIOUS VIDEOS. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING DAMAGE IDENTIFIED. CONTRACTOR MAY ALSO CLEAN & TELEVIEW IN ADVANCE OF CONSTRUCTION AT ITS DISCRETION.
- THE CONTINUED USE OF THE EXISTING WELL WAS APPROVED THROUGH VILLAGE ORDINANCE CHANGE ON 10-25-21

REFER TO THE SITE SELECTIVE DEMOLITION PLAN, SHEET C2C FOR DEMOLITION OF SPECIFIC STORM UTILITIES

REFER TO THE GRADING AND DRAINAGE PLAN, SHEET C4, FOR STORM WATER NARRATIVE



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**THE MEANS**  
 MR. CHRIS BONK  
 118 WEST HIGHLAND ROAD, SUITE 200  
 HOWELL, MI. 48843  
 517-302-1034

**UTILITY PLAN**

NO.	REVISION	DATE
1	BY	
2	PC	6-22-22
3	PC	12-10-21
4	PC	11-17-21

DESIGNED BY: PC  
 DRAWN BY: PC  
 CHECKED BY:  
 SCALE: 1" = 40'  
 JOB NO. 20-032-3  
 DATE: 9-16-21  
 SHEET NO. C6A



