SECTION 24, CITY OF CHARLOTTE EATON COUNTY, MICHIGAN

PUBLIC UTILITIES

THE EXISTING UTILITIES LISTED BELOW AND SHOWN REPRESENT THE BEST INFORMATION AVAILABLE AS OBTAINED FROM SERVICE PROVIDER AND FIELD OBSERVATION. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO SATISFY HIMSELF AS TO THEIR ACCURACY OR OF HIS RESPONSIBILITY TO NOTIFY THE PROPER UTILITIES BEFORE COMMENCING WORK. THE FOLLOWING UTILITIES ARE LOCATED IN OR NEAR THE RIGHT OF WAY FOR THIS PROJECT.

NAME AND ADDRESS OF UTILITY

Consumers Energy 530 W Willow st Lansing Mi 48909 (517)374-2255 Tom Barnhill

AT & T - ENGINEERING 337 N. ABBOTT ROAD EAST LANSING, MI 48823 (517)337-3509 DARNELL TAYLOR

MILLENNIUM DIGITAL MEDIA 2512 LANSING RD CHARLOTTE, MI 48813 (517)543-4963 JAMES SCOTT

CITY OF CHARLOTTE
111 E. LAWERENCE AVENUE
CHARLOTTE MI. 48813
(517)543-8858
AMY GILSON

EATON COUNTY DRAIN COMMISSION 1045 INDEPENDENCE BLVD CHARLOTTE, MI. 48813-1095 (517)543-3809 RICHARD WAGNER Type of Utility

GAS, ELECTRIC

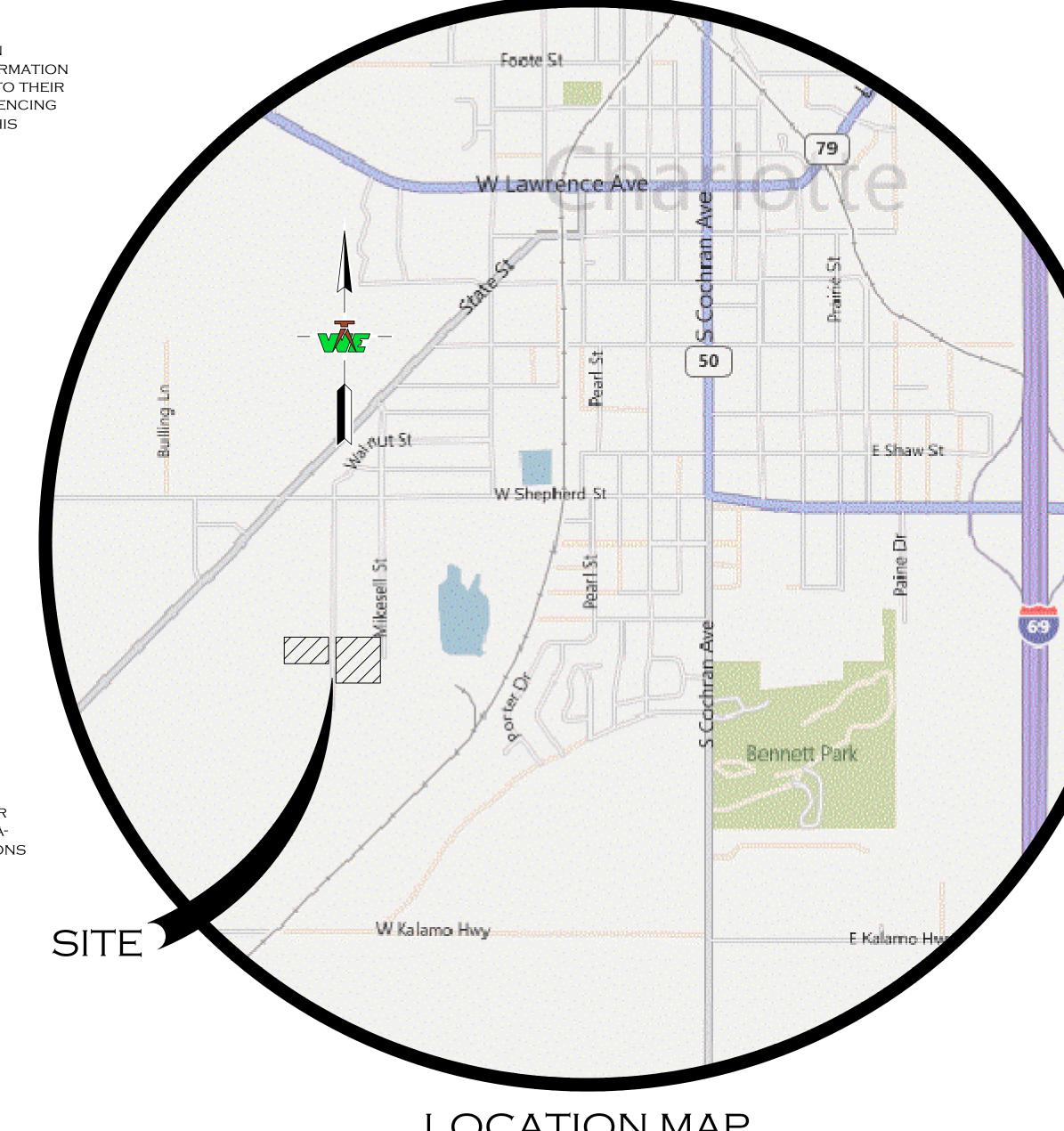
TELEPHONE LINES

CABLE TELEVISION,
HIGH SPEED INTERNET

SANITARY SEWER, WATER

STORM SEWER

OWNERS OF PUBLIC UTILITIES WILL NOT BE REQUIRED TO MOVE POLES OR STRUCTURES THAT ARE NOT WITHIN GRADING OR STRUCTURE LIMITS IN ORDER TO FACILITATE THE OPERATION OF CONSTRUCTION EQUIPMENT, UNLESS IT IS DETERMINED BY THE ENGINEER THAT SUCH LINES OR STRUCTURES CONSTITUTE A HAZARD TO THE PUBLIC OR ARE EXTRAORDINARILY DANGEROUS TO THE CONTRACTOR'S OPERATIONS. (SEE SPECIAL PROVISIONS FOR UTILITY COORDINATION)



LOCATION MAP



ngineers & Surveyors, In

312 North Street

Mason, Michigan 48854

Ph: 517-676-9200

Fx: 517-676-9396

http://www.wolveng.com

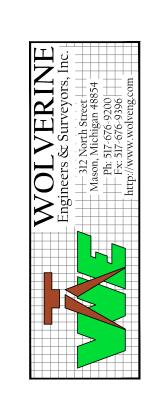
OWNER CONTACT INFORMATION

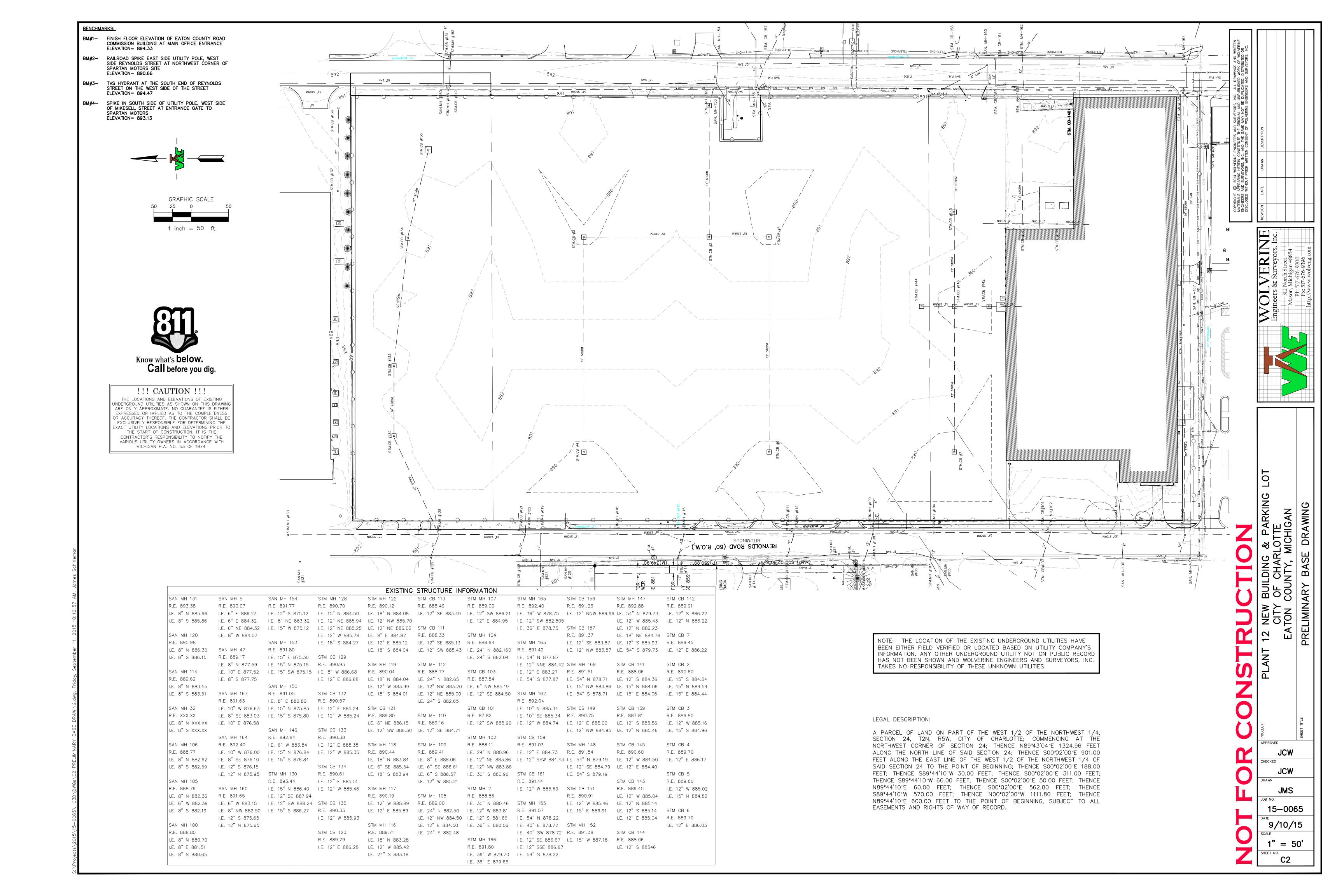
SPARTAN MOTORS, INC.
CONTACT: PATRICK SALL
1541 REYNOLDS ROAD
CHARLOTTE, MICHIGAN 48813
PH: 517-597-3861
Fx: 517-543-9264
EMAIL: PAT.SALL@SPARTANMOTORS.COM

TAX ID NUMBER: 23-200-024-100-081-00

Sheet List Table

Sheet Number	Sheet Title
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BENCHMARKS:

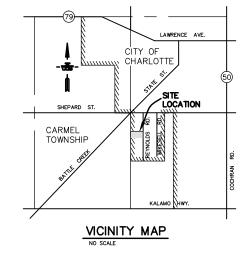
BM#1- FINISH FLOOR ELEVATION OF EATON COUNTY ROAD COMMISSION BUILDING AT MAIN OFFICE ENTRANCE ELEVATION= 894.33

BM#2- RAILROAD SPIKE EAST SIDE UTILITY POLE, WEST SIDE REYNOLDS STREET AT NORTHWEST CORNER OF SPARTAN MOTORS SITE

BM#3- TVS HYDRANT AT THE SOUTH END OF REYNOLDS
STREET ON THE WEST SIDE OF THE STREET

ELEVATION= 894.47

BM#4- SPIKE IN SOUTH SIDE OF UTILITY POLE, WEST SIDE OF MIKESELL STREET AT ENTRANCE GATE TO SPARTAN MOTORS ELEVATION= 893.13



DESCRIPTION: (As provided to this office)

Lot 15 of Dean Industrial Park, City of Charlotte, Eaton County, Michigan, according to the recorded plat thereof as recorded in Liber6 of Plats, Pages 18 and 19, Eaton County Records.

Land Area — 232,743 square feet, (5.34 Acres)

Zoning = I-2 General Industrial Minimum Building Setbacks = 60' Front, 30' Side, 50' Min. Rear

This site lies in Zone C (area of minimal flooding) of FEMA FIRM for City of Charlotte, Mi; Community Panel No. 260065—0001 B Dated July 2, 1981.

EXISTING L	EGEND
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LAISTING	LLGLIND
—— GAS —— GAS ——	EX. OVERHEAD UTILITIES EX. CHAIN LINK FENCE EX. WOOD FENCE EX. CURB
	EX. SANITARY MANHOLE EX. SANITARY CLEAN OUT EX. STORM MANHOLE EX. SANITARY CLEAN OUT EX. STORM CATCH BASIN EX. STORM END SECTION EX. HYDRANT EX. GATE VALVE EX. WATER MANHOLE EX. WILL EX. UTILITY POLE EX. UTILITY POLE EX. UTILITY GUY EX. TRANSFORMER EX. TELEPHONE RISER EX. POST EX. SIGN EX. MAILBOX
	EX. DECIDUOUS TREE EX. EVERGREEN TREE EX. SHRUB EX. SHRUB
F.I. MB F.F. Rik P= S= M= D=	EX. TREE LINE BENCHMARK FOUND PROPERTY IRON FOUND MONUMENT FINISH FLOOR UTILITY FLAG RAILROAD MARKER PLATTED PREVIOUSLY SURVEYED MEASURED DESCRIBED



!!! CAUTION !!!

THE LOCATIONS AND ELEVATIONS OF EXISTING
UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING
ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER
EXPRESSED OR IMPLIED AS TO THE COMPLETENESS
OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE
EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE
EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO
THE START OF CONSTRUCTION. IT IS THE
CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE
VARIOUS UTILITY OWNERS IN ACCORDANCE WITH
MICHIGAN P.A. NO. 53 OF 1974.

I.E. 8" S 880.65

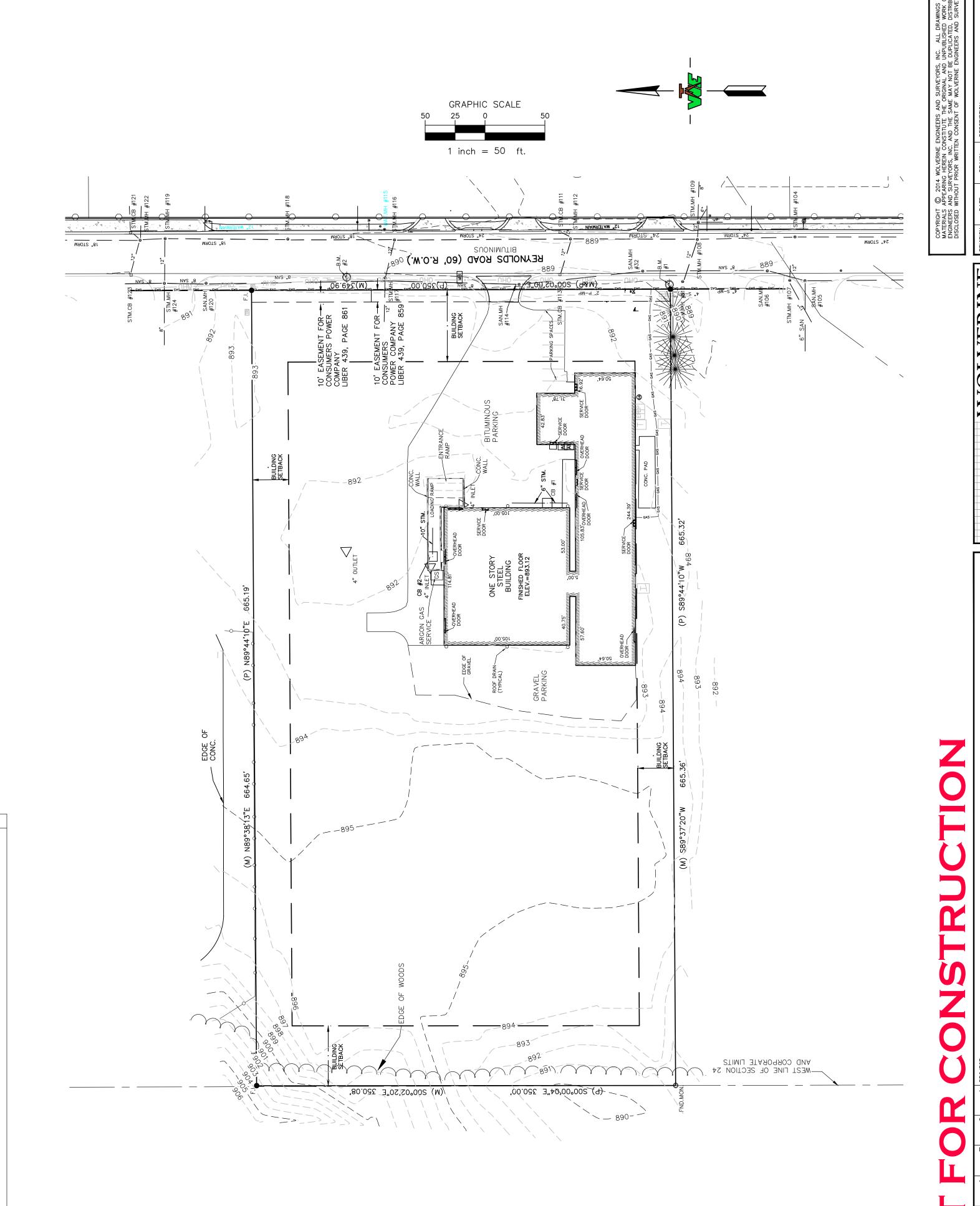
NOTE: THE LOCATION OF THE EXISTING UNDERGROUND UTILITIES HAVE BEEN EITHER FIELD VERIFIED OR LOCATED BASED ON UTILITY COMPANY'S INFORMATION. ANY OTHER UNDERGROUND UTILITY NOT ON PUBLIC RECORD HAS NOT BEEN SHOWN AND WOLVERINE ENGINEERS AND SURVEYORS, INC. TAKES NO RESPONSIBILITY OF THESE UNKNOWN UTILITIES.

				EXISTING	STRUCTURE INF	FORMATION				
SAN MH 131	SAN MH 5	SAN MH 154	STM MH 128	STM MH 122	STM CB 113	STM MH 107	STM MH 165	STM CB 156	STM MH 147	STM CB 142
R.E. 893.38	R.E. 890.07	R.E. 891.77	R.E. 890.70	R.E. 890.12	R.E. 888.49	R.E. 889.00	R.E. 892.40	R.E. 891.26	R.E. 892.88	R.E. 889.91
I.E. 8"N 885.96	I.E. 6" E 886.12	I.E. 12" S 875.12	I.E. 15" N 884.50	I.E. 18" N 884.08	I.E. 12" SE 883.49	I.E. 12" SW 886.21	I.E. 36" W 878.75	I.E. 12" NNW 886.96	I.E. 54" N 879.73	I.E. 12" S 886.22
I.E. 8" S 885.86	I.E. 6" E 884.32	I.E. 8" NE 883.32	I.E. 12" NE 885.94	I.E. 12" NW 885.70		I.E. 12" E 884.95	I.E. 12" SW 882.505		I.E. 12" W 885.43	I.E. 12" N 886.22
	I.E. 6" NE 884.32	I.E. 15" W 875.12	I.E. 12" NE 885.25	I.E. 12" NE 886.02	STM CB 111		I.E. 36" E 878.75	STM CB 157	I.E. 12" N 886.23	
SAN MH 120	I.E. 8" W 884.07		I.E. 12" W 885.78	I.E. 8" E 884.87	R.E. 888.33	STM MH 104		R.E. 891.37	I.E. 18" NE 884.78	STM CB 7
R.E. 890.98		SAN MH 153	I.E. 18" S 884.27	I.E. 12" E 885.12	I.E. 12" SE 885.13	R.E. 888.64	STM MH 163	I.E. 12" SE 883.87	I.E. 12" S 885.93	R.E. 889.45
I.E. 8" N 886.30	SAN MH 47	R.E. 891.80		I.E. 18" S 884.04	I.E. 12" SW 885.43	I.E. 24" N 882.160	R.E. 891.42	I.E. 12" NW 883.87	I.E. 54" S 879.73	I.E. 12" E 886.22
I.E. 8" S 886.15	R.E. 889.17	I.E. 15" E 875.30	STM CB 129			I.E. 24" S 882.04	I.E. 54" N 877.87			
	I.E. 8" N 877.59	I.E. 15" N 875.15	R.E. 890.93	STM MH 119	STM MH 112		I.E. 12" NNE 884.42	STM MH 169	STM CB 141	STM CB 2
SAN MH 114	I.E. 10" E 877.52	I.E. 15" SW 875.15	I.E. 8" W 886.68	R.E. 890.04	R.E. 888.77	STM CB 103	I.E. 12" E 883.27	R.E. 891.51	R.E. 888.06	R.E. 890.60
R.E. 889.62	I.E. 8" S 877.75		I.E. 12" E 886.68	I.E. 18" N 884.04	I.E. 24" N 882.65	R.E. 887.84	I.E. 54" S 877.87	I.E. 54" N 878.71	I.E. 12" S 884.36	I.E. 15" S 884.54
I.E. 8" N 883.55		SAN MH 150		I.E. 12" W 883.99	I.E. 12" NW 883.20	I.E. 6" NW 885.19		I.E. 15" NW 883.86	I.E. 15" N 884.06	I.E. 15" N 884.54
I.E. 8" S 883.51	SAN MH 167	R.E. 891.05	STM CB 132	I.E. 18" S 884.01	I.E. 12" NE 885.00	I.E. 12" SE 884.50	STM MH 162	I.E. 54" S 878.71	I.E. 15" E 884.06	I.E. 15" E 884.44
	R.E. 891.63	I.E. 8" E 882.80	R.E. 890.57		I.E. 24" S 882.65		R.E. 892.04			
SAN MH 32	I.E. 10" W 876.63	I.E. 15" N 875.85	I.E. 12" E 885.24	STM CB 121		STM CB 101	I.E. 10" N 885.34	STM CB 149	STM CB 139	STM CB 3
R.E. XXX.XX	I.E. 8" SE 883.03	I.E. 15" S 875.80	I.E. 12" W 885.24	R.E. 889.80	STM MH 110	R.E. 87.82	I.E. 10" SE 885.34	R.E. 890.75	R.E. 887.81	R.E. 889.80
I.E. 8" N XXX.XX	I.E. 10" E 876.58			I.E. 6" NE 886.15	R.E. 889.16	I.E. 12" SW 885.90	I.E. 12" W 884.74	I.E. 12" E 885.00	I.E. 12" S 885.56	I.E. 12" W 885.16
I.E. 8" S XXX.XX		SAN MH 146	STM CB 133	I.E. 12" SW 886.30	I.E. 12" SE 884.71			I.E. 12" NW 884.95	I.E. 12" N 885.46	I.E. 15" S 884.96
	SAN MH 164	R.E. 892.84	R.E. 890.38			STM MH 102	STM CB 159			
SAN MH 106	R.E. 892.40	I.E. 6" W 883.84	I.E. 12" E 885.35	STM MH 118	STM MH 109	R.E. 888.11	R.E. 891.03	STM MH 148	STM CB 145	STM CB 4
R.E. 888.77	I.E. 10" W 876.00	I.E. 15" N 876.84	I.E. 12" W 885.35	R.E. 890.44	R.E. 889.41	I.E. 24" N 880.96	I.E. 12" E 884.73	R.E. 891.54	R.E. 890.60	R.E. 889.70
I.E. 8" N 882.62	I.E. 8" SE 876.10	I.E. 15" S 876.84		I.E. 18" N 883.84	I.E. 8" E 888.06	I.E. 12" NE 883.86	I.E. 12" SSW 884.43	I.E. 54" N 879.19	I.E. 12" W 884.50	I.E. 12" E 886.17
I.E. 8" S 882.59	I.E. 12" S 876.15		STM CB 134	I.E. 6" SE 885.54	I.E. 6" SE 886.61	I.E. 12" NW 883.86		I.E. 12" SE 884.79	I.E. 12" E 884.40	
	I.E. 12" N 875.95	STM MH 130	R.E. 890.61	I.E. 18" S 883.94	I.E. 6" S 886.57	I.E. 30" S 880.96	STM CB 161	I.E. 54" S 879.19		STM CB 5
SAN MH 105		R.E. 893.44	I.E. 12" E 885.51		I.E. 12" W 885.21		R.E. 891.14		STM CB 143	R.E. 889.80
R.E. 888.79	SAN MH 160	I.E. 15" N 886.40	I.E. 12" W 885.46	STM MH 117		STM MH 2	I.E. 12" W 885.69	STM CB 151	R.E. 889.45	I.E. 12" W 885.02
I.E. 8" N 882.36	R.E. 891.65	I.E. 12" SE 887.94		R.E. 890.19	STM MH 108	R.E. 888.86		R.E. 890.91	I.E. 12" W 885.04	I.E. 15" N 884.82
I.E. 6" W 882.39	I.E. 6" W 883.15	I.E. 12" SW 888.24	STM CB 135	I.E. 12" W 885.89	R.E. 889.00	I.E. 30" N 880.46	STM MH 155	I.E. 12" W 885.46	I.E. 12" N 885.14	
I.E. 8" S 882.19	I.E. 8" NW 882.50	I.E. 15" S 886.27	R.E. 890.33	I.E. 12" E 885.89	I.E. 24" N 882.50	I.E. 12" W 883.81	R.E. 891.57	I.E. 15" E 886.91	I.E. 12" S 885.14	STM CB 6
	I.E. 12" S 875.65		I.E. 12" W 885.93		I.E. 12" NW 884.50	I.E. 12" S 881.66	I.E. 54" N 878.22		I.E. 12" E 885.04	R.E. 889.70
SAN MH 100	I.E. 12" N 875.65			STM MH 116	I.E. 12" E 884.50	I.E. 36" E 880.06	I.E. 40" E 878.72	STM MH 152		I.E. 12" E 886.03
R.E. 888.80			STM CB 123	R.E. 889.71	I.E. 24" S 882.48		I.E. 40" SW 878.72	R.E. 891.38	STM CB 144	
I.E. 8" N 880.70			R.E. 889.79	I.E. 18" N 883.28		STM MH 166	I.E. 12" SE 886.67	I.E. 15" W 887.18	R.E. 888.06	
I.E. 8" E 881.51			I.E. 12" E 886.28	I.E. 12" W 885.42		R.E. 891.80	I.E. 12" SSE 886.67		I.E. 12" S 88546	
				15 04" 0 007 10		. E 70" W 076 76				

I.E. 36" W 879.70 I.E. 54" S 878.22

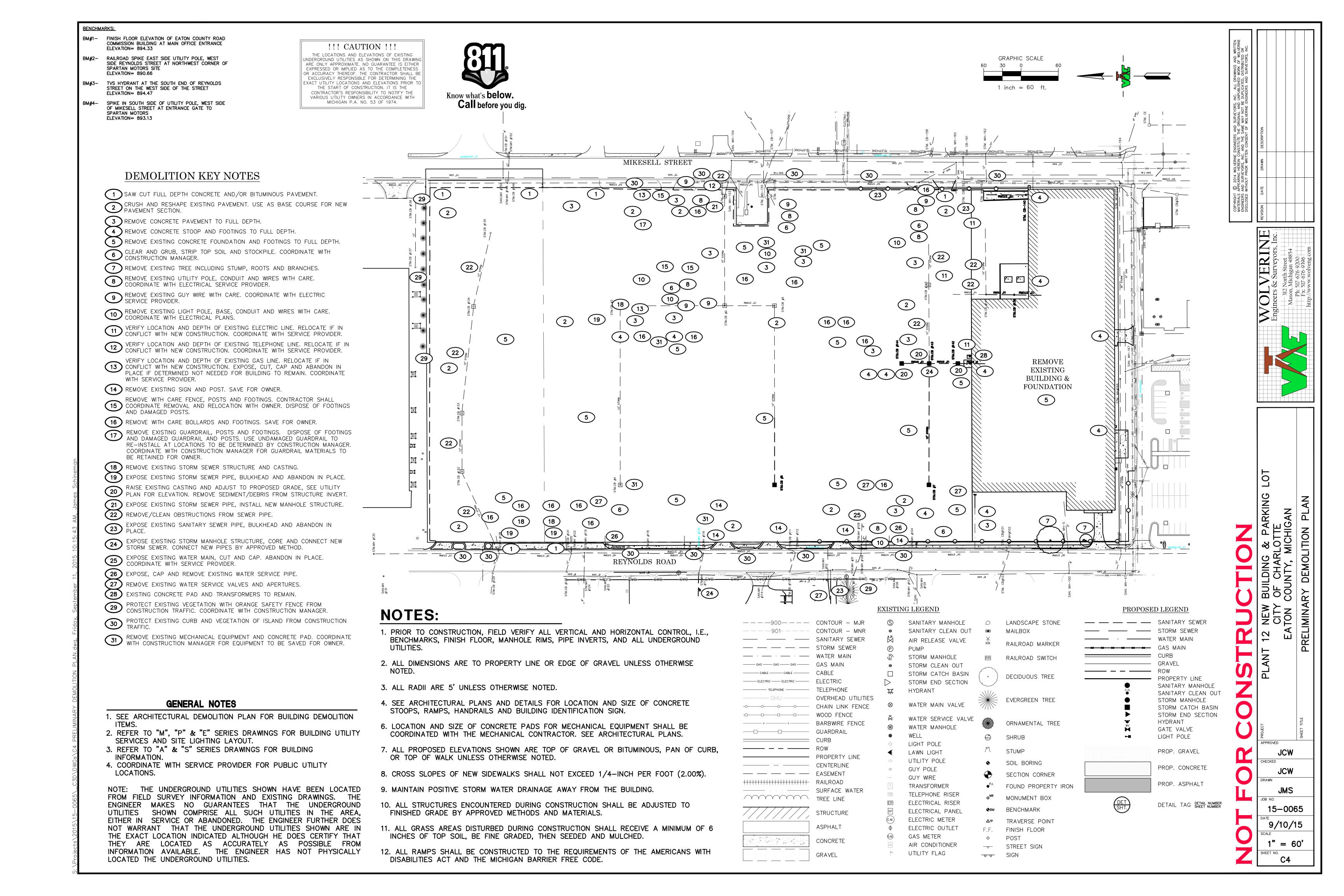
I.E. 36" E 879.65

I.E. 24" S 883.18



15-0065

9/10/15



BENCHMARKS:

BM#1- FINISH FLOOR ELEVATION OF EATON COUNTY ROAD COMMISSION BUILDING AT MAIN OFFICE ENTRANCE

BM#2- RAILROAD SPIKE EAST SIDE UTILITY POLE, WEST SIDE REYNOLDS STREET AT NORTHWEST CORNER OF

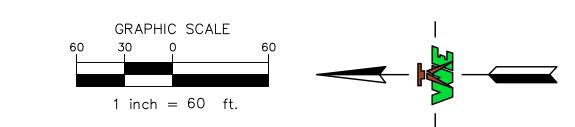
BM#3- TVS HYDRANT AT THE SOUTH END OF REYNOLDS STREET ON THE WEST SIDE OF THE STREET

SPIKE IN SOUTH SIDE OF UTILITY POLE, WEST SIDE OF MIKESELL STREET AT ENTRANCE GATE TO SPARTAN MOTORS ELEVATION= 893.13

!!! CAUTION !!!

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NAS "8 NAS "8 24 29 EXISTING FOUNDATION

DEMOLITION KEY NOTES

SAW CUT FULL DEPTH CONCRETE AND/OR BITUMINOUS PAVEMENT. 2 CRUSH AND RESTIAL PAVEMENT SECTION. CRUSH AND RESHAPE EXISTING PAVEMENT. USE AS BASE COURSE FOR NEW

(3) REMOVE CONCRETE PAVEMENT TO FULL DEPTH.

4 REMOVE CONCRETE STOOP AND FOOTINGS TO FULL DEPTH.

REMOVE EXISTING CONCRETE FOUNDATION AND FOOTINGS TO FULL DEPTH.

6 CLEAR AND GRUB, STRIP TOP SOIL AND STOCKPILE. COORDINATE WITH CONSTRUCTION MANAGER.

7) REMOVE EXISTING TREE INCLUDING STUMP, ROOTS AND BRANCHES.

REMOVE EXISTING UTILITY POLE, CONDUIT AND WIRES WITH CARE. COORDINATE WITH ELECTRICAL SERVICE PROVIDER.

9 REMOVE EXISTING GUY WIRE WITH CARE. COORDINATE WITH ELECTRIC SERVICE PROVIDER.

REMOVE EXISTING LIGHT POLE, BASE, CONDUIT AND WIRES WITH CARE. COORDINATE WITH ELECTRICAL PLANS.

VERIFY LOCATION AND DEPTH OF EXISTING ELECTRIC LINE. RELOCATE IF IN

CONFLICT WITH NEW CONSTRUCTION. COORDINATE WITH SERVICE PROVIDER. VERIFY LOCATION AND DEPTH OF EXISTING TELEPHONE LINE. RELOCATE IF IN

CONFLICT WITH NEW CONSTRUCTION. COORDINATE WITH SERVICE PROVIDER.

VERIFY LOCATION AND DEPTH OF EXISTING GAS LINE. RELOCATE IF IN (13) CONFLICT WITH NEW CONSTRUCTION. EXPOSE, CUT, CAP AND ABANDON IN PLACE IF DETERMINED NOT NEEDED FOR BUILDING TO REMAIN. COORDINATE WITH SERVICE PROVIDER.

(14) REMOVE EXISTING SIGN AND POST. SAVE FOR OWNER.

REMOVE WITH CARE FENCE, POSTS AND FOOTINGS. CONTRACTOR SHALL 15 COORDINATE REMOVAL AND RELOCATION WITH OWNER. DISPOSE OF FOOTINGS AND DAMAGED POSTS.

(16) REMOVE WITH CARE BOLLARDS AND FOOTINGS. SAVE FOR OWNER.

REMOVE EXISTING GUARDRAIL, POSTS AND FOOTINGS. DISPOSE OF FOOTINGS AND DAMAGED GUARDRAIL AND POSTS. USE UNDAMAGED GUARDRAIL TO RE-INSTALL AT LOCATIONS TO BE DETERMINED BY CONSTRUCTION MANAGER. COORDINATE WITH CONSTRUCTION MANAGER FOR GUARDRAIL MATERIALS TO BE RETAINED FOR OWNER.

(18) REMOVE EXISTING STORM SEWER STRUCTURE AND CASTING.

19 EXPOSE EXISTING STORM SEWER PIPE, BULKHEAD AND ABANDON IN PLACE. RAISE EXISTING CASTING AND ADJUST TO PROPOSED GRADE, SEE UTILITY

PLAN FOR ELEVATION. REMOVE SEDIMENT/DEBRIS FROM STRUCTURE INVERT (21) EXPOSE EXISTING STORM SEWER PIPE, INSTALL NEW MANHOLE STRUCTURE.

22 REMOVE/CLEAN OBSTRUCTIONS FROM SEWER PIPE.

EXPOSE EXISTING SANITARY SEWER PIPE, BULKHEAD AND ABANDON IN PLACE.

EXPOSE EXISTING STORM MANHOLE STRUCTURE, CORE AND CONNECT NEW STORM SEWER CONNECT NEW DIDES BY ADDROVED TO THE PROPERTY OF THE STORM SEWER. CONNECT NEW PIPES BY APPROVED METHOD.

EXPOSE EXISTING WATER MAIN, CUT AND CAP. ABANDON IN PLACE.
COORDINATE WITH SERVICE PROVIDED

(26) EXPOSE, CAP AND REMOVE EXISTING WATER SERVICE PIPE.

27) REMOVE EXISTING WATER SERVICE VALVES AND APERTURES.

28 EXISTING CONCRETE PAD AND TRANSFORMERS TO REMAIN.

PROTECT EXISTING VEGETATION WITH ORANGE SAFETY FENCE FROM

CONSTRUCTION TRAFFIC. COORDINATE WITH CONSTRUCTION MANAGER.

PROTECT EXISTING CURB AND VEGETATION OF ISLAND FROM CONSTRUCTION

REMOVE EXISTING MECHANICAL EQUIPMENT AND CONCRETE PAD. COORDINATE REMOVE EXISTING MECHANICAL EQUIPMENT AND CONCINETE FOR OWNER.

GENERAL NOTES

- 1. SEE ARCHITECTURAL DEMOLITION PLAN FOR BUILDING DEMOLITION
- 2. REFER TO "M", "P" & "E" SERIES DRAWINGS FOR BUILDING UTILITY SERVICES AND SITE LIGHTING LAYOUT.
- 3. REFER TO "A" & "S" SERIES DRAWINGS FOR BUILDING INFORMATION.
- 4. COORDINATE WITH SERVICE PROVIDER FOR PUBLIC UTILITY LOCATIONS.

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

NOTES:

- 1. PRIOR TO CONSTRUCTION, FIELD VERIFY ALL VERTICAL AND HORIZONTAL CONTROL, I.E., BENCHMARKS, FINISH FLOOR, MANHOLE RIMS, PIPE INVERTS, AND ALL UNDERGROUND UTILITIES.
- 2. ALL DIMENSIONS ARE TO PROPERTY LINE OR EDGE OF GRAVEL UNLESS OTHERWISE NOTED.
- 3. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
- 4. SEE ARCHITECTURAL PLANS AND DETAILS FOR LOCATION AND SIZE OF CONCRETE STOOPS, RAMPS, HANDRAILS AND BUILDING IDENTIFICATION SIGN.
- 6. LOCATION AND SIZE OF CONCRETE PADS FOR MECHANICAL EQUIPMENT SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. SEE ARCHITECTURAL PLANS.
- 7. ALL PROPOSED ELEVATIONS SHOWN ARE TOP OF GRAVEL OR BITUMINOUS, PAN OF CURB OR TOP OF WALK UNLESS OTHERWISE NOTED.
- 8. CROSS SLOPES OF NEW SIDEWALKS SHALL NOT EXCEED 1/4-INCH PER FOOT (2.00%).
- 9. MAINTAIN POSITIVE STORM WATER DRAINAGE AWAY FROM THE BUILDING.
- 10. ALL STRUCTURES ENCOUNTERED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE BY APPROVED METHODS AND MATERIALS.
- 11. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL RECEIVE A MINIMUM OF 6 INCHES OF TOP SOIL, BE FINE GRADED, THEN SEEDED AND MULCHED.
- 12. ALL RAMPS SHALL BE CONSTRUCTED TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AND THE MICHIGAN BARRIER FREE CODE.

EXISTING LEGEND

29

01	CONTOUR - MNR	69	SANITARY
	SANITARY SEWER	A.R. ⊠	AIR RELEA
	STORM SEWER	P	PUMP
	WATER MAIN	Ð	STORM MA
AS GAS	GAS MAIN	9	STORM CL
CABLE ———	CABLE		STORM CA
— ELECTRIC ———	ELECTRIC	\triangleright	STORM EN
PHONE —	TELEPHONE	*	HYDRANT
-IU	OVERHEAD UTILITIES		
- 	CHAIN LINK FENCE	\otimes	WATER MA
	WOOD FENCE	sv	

───□────□──── GUARDRAIL

SURFACE WATER . TREE LINE STRUCTURE

————900———— CONTOUR — MJR

ASPHALT CONCRETE GRAVEL

SANITARY MANHOLE Y CLEAN OUT EASE VALVE

MANHOLE CLEAN OUT CATCH BASIN ND SECTION

WATER SERVICE VALVE WATER MANHOLE LIGHT POLE LAWN LIGHT UTILITY POLE

GUY POLE GUY WIRE TRANSFORMER TELEPHONE RISER ELECTRICAL RISER

ELECTRICAL PANEL ELECTRIC METER ELECTRIC OUTLET GAS METER AIR CONDITIONER UTILITY FLAG

LANDSCAPE STONE MAILBOX RAILROAD MARKE RAILROAD SWITCH

DECIDUOUS TREE EVERGREEN TREE

ORNAMENTAL TREE

STUMP SOIL BORING SECTION CORNER •FULL FOUND PROPERTY IRON •MONUMENT BOX **◆**BM BENCHMARK

POST

oo SIGN

→ STREET SIGN

Δ™ TRAVERSE POINT F.F. FINISH FLOOR

PROPOSED LEGEND

PROPERTY LINE SANITARY MANHOLE SANITARY CLEAN OUT STORM MANHOLE STORM CATCH BASIN STORM END SECTION HYDRANT GATE VALVE LIGHT POLE PROP. GRAVEL

PROP. CONCRETE

PROP. ASPHALT

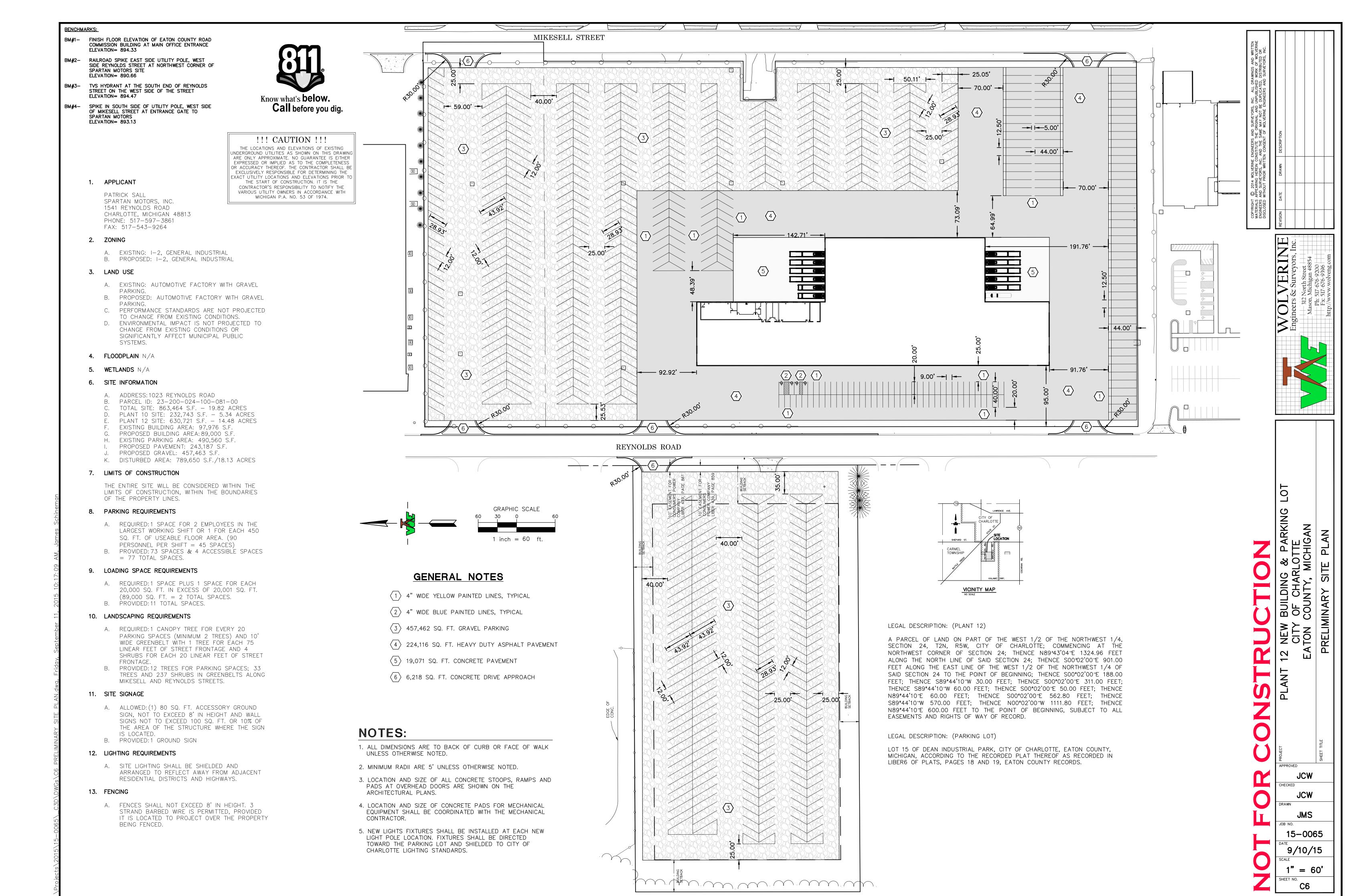
DETAIL TAG DETAIL NUMBER SHEET NUMBER

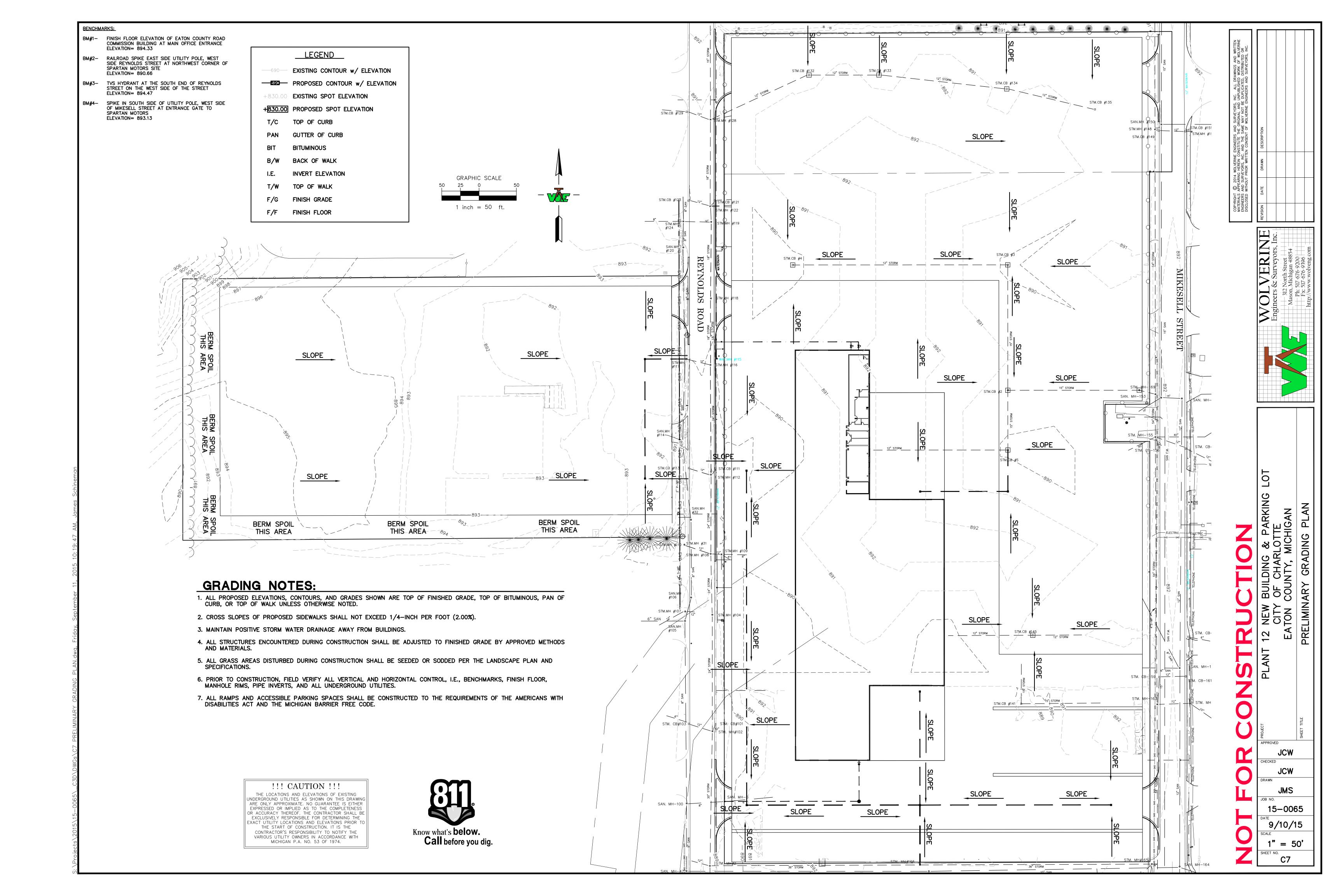
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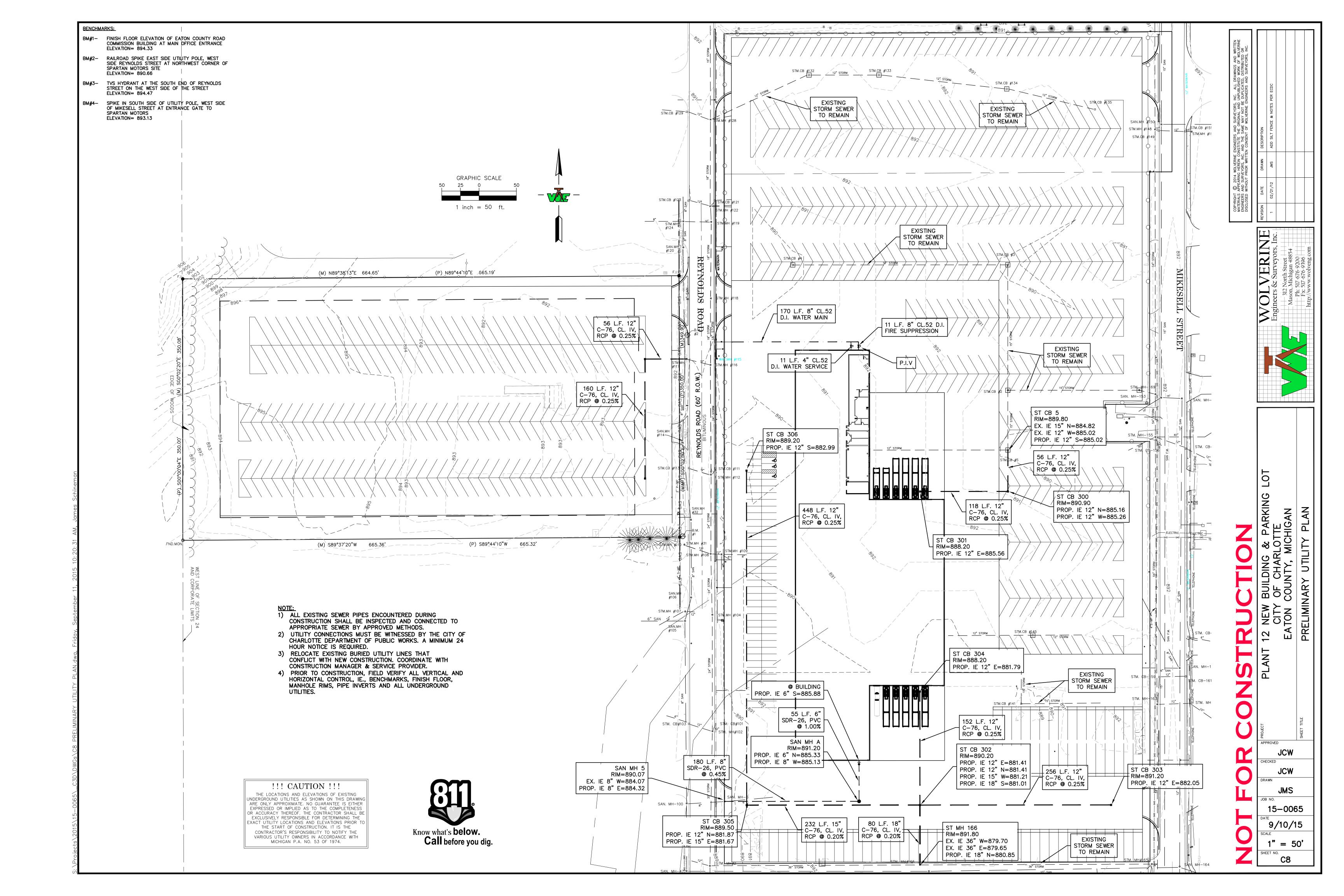
C5

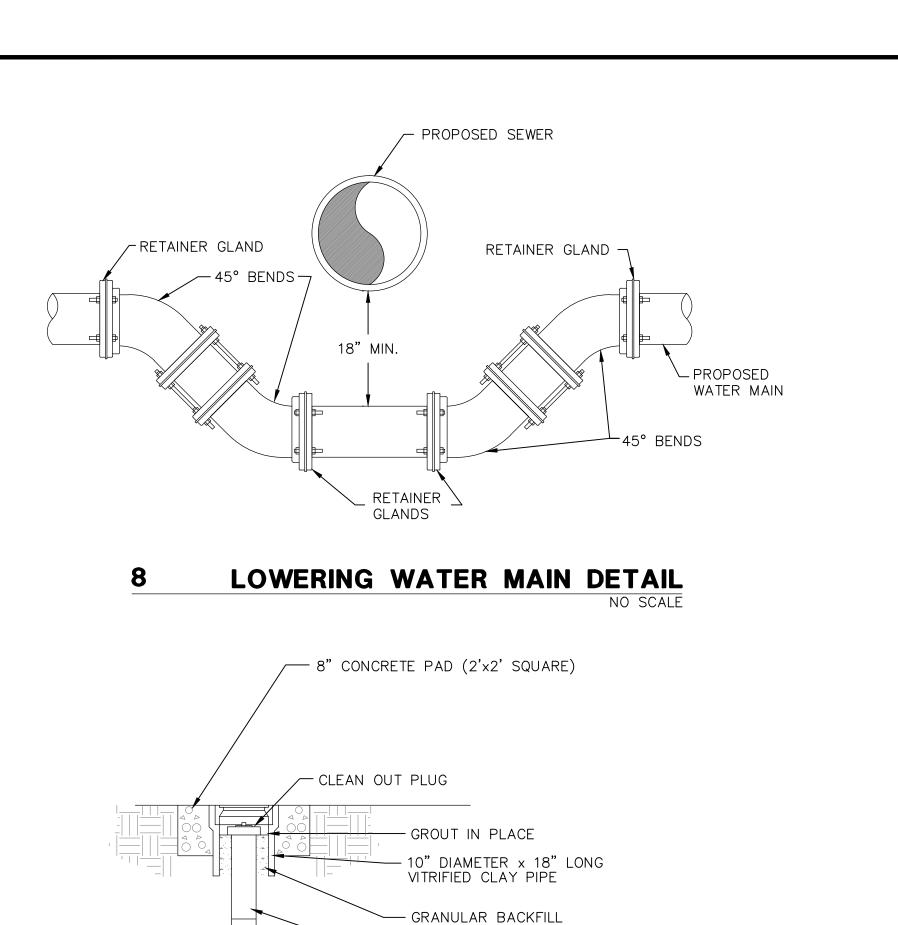
' = 60'

CHECKED





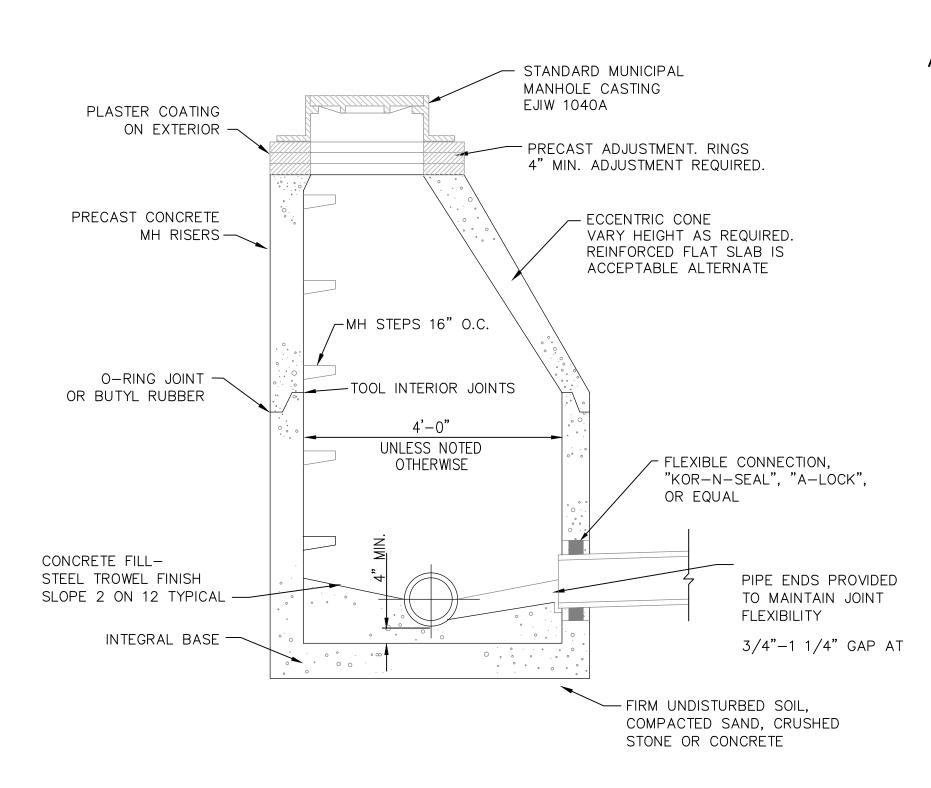




-RISER SAME AS SEWER

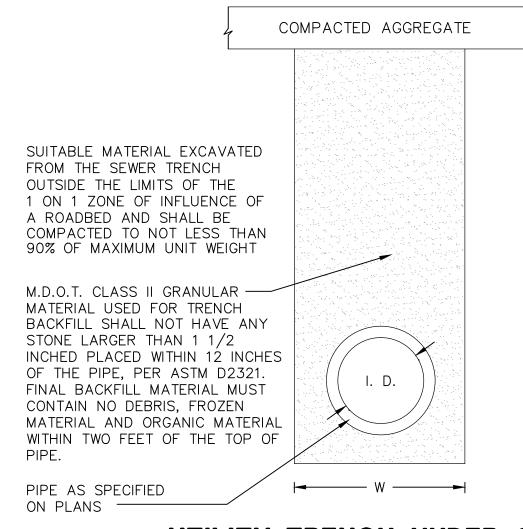
THE CLEAN OUT SHALL BE INSTALL ONLY AFTER THE SEWER AIR TEST HAS BEN APPROVED BY THE MUNICIPAL ENGINEER.

CLEAN OUT DETAIL

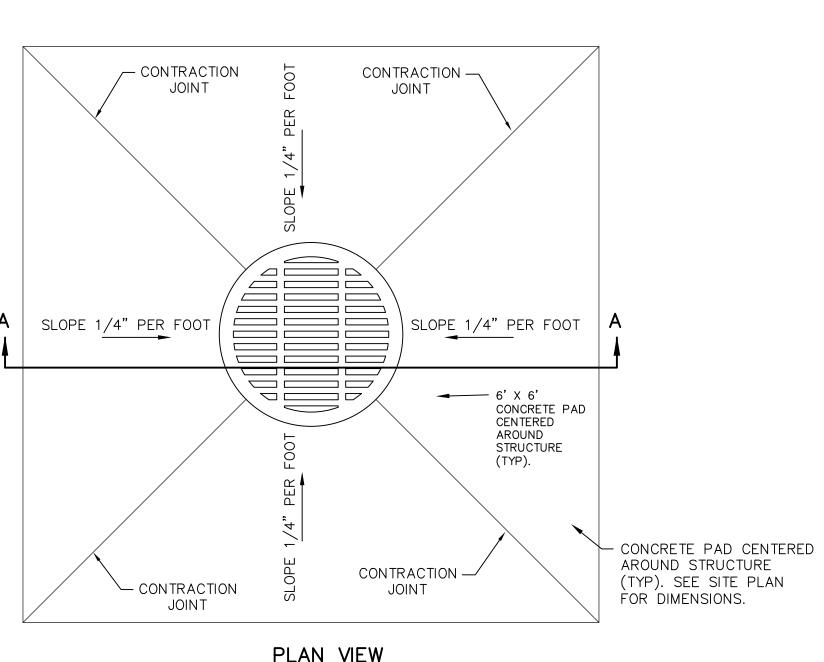


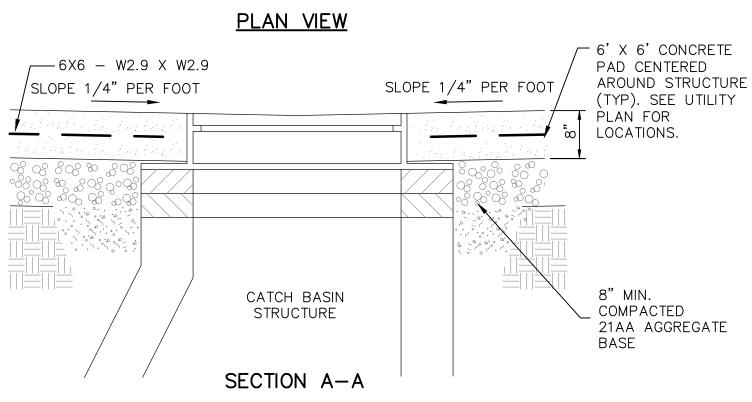
SANITARY MANHOLE DETAIL

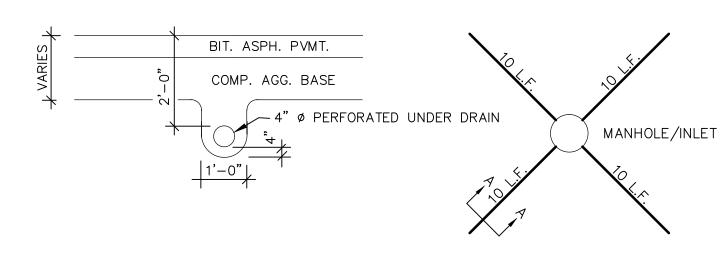
CONCRETE APRON AT CATCH BASIN



UTILITY TRENCH UNDER OR WITHIN INFLUENCE OF PAVEMENT





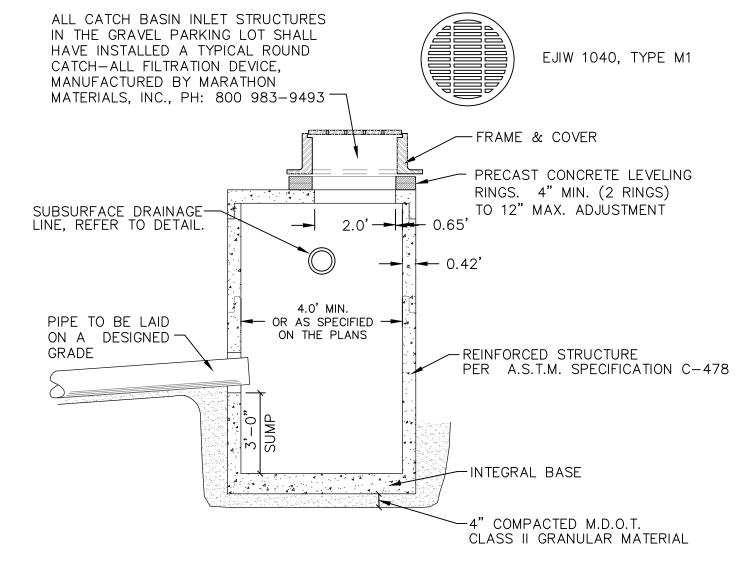


TAP STRUCTURES IN PARKING AREA AS SHOWN. ADJUST TUBING AS REQUIRED TO AVOID SEWER LINES.

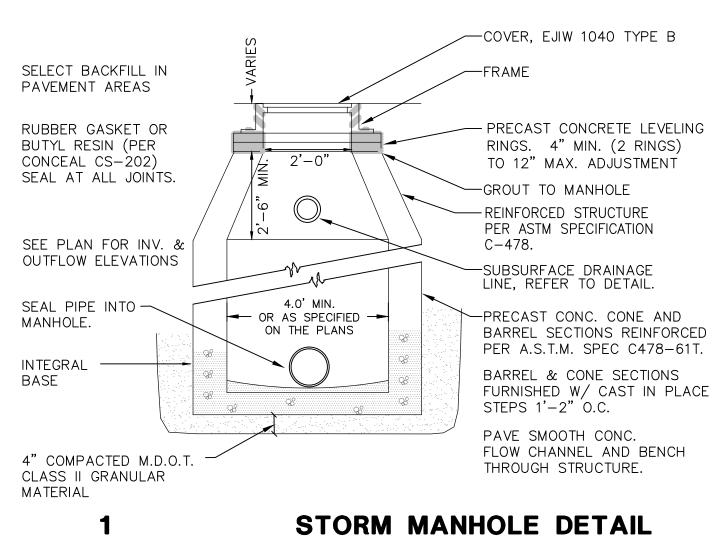
TYPICAL TO ALL INLET STRUCTURES LOCATED IN PARKING AREAS.

UNDER DRAIN AT STORM STRUCTURES IN PAVEMENT DETAIL NO SCALE

PARKING LOT GRATES



CATCH BASIN INLET STRUCTURE WITH 3' SUMP NO SCALE



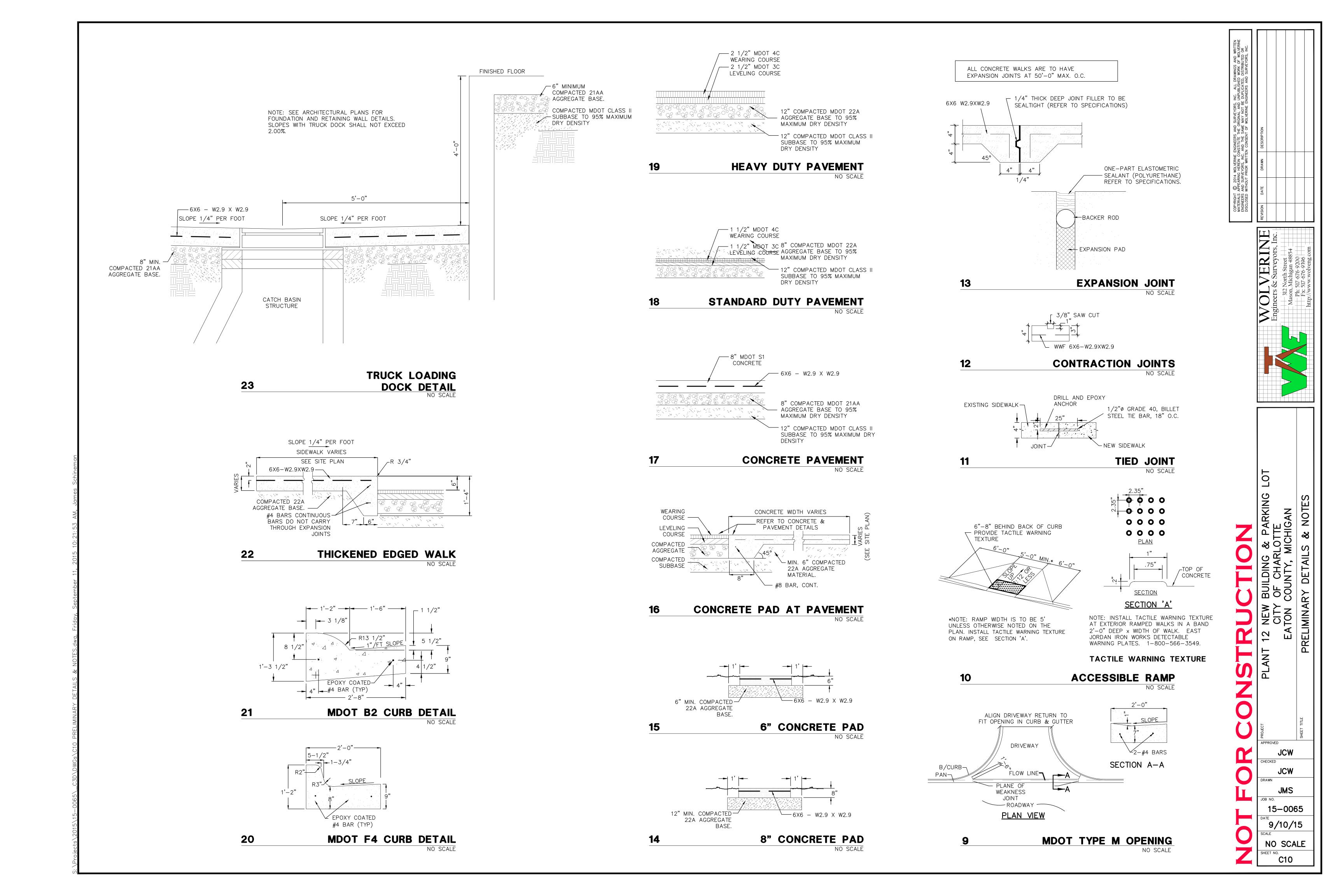
NO SCALE

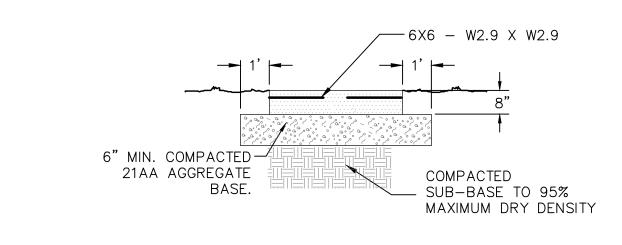
RKING CHECKED

V BUILDING & PARKING
Y OF CHARLOTTE
COUNTY, MICHIGAN
ARY DETAILS & NOTES

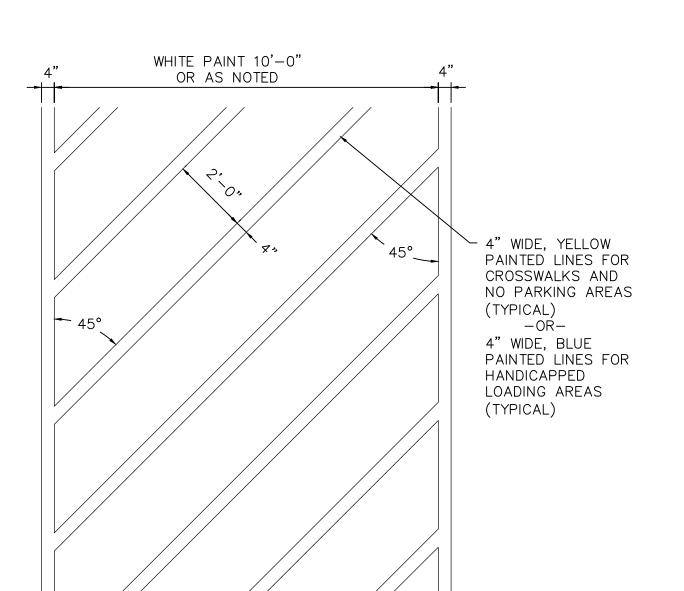
15-0065 9/10/15

NO SCALE C9

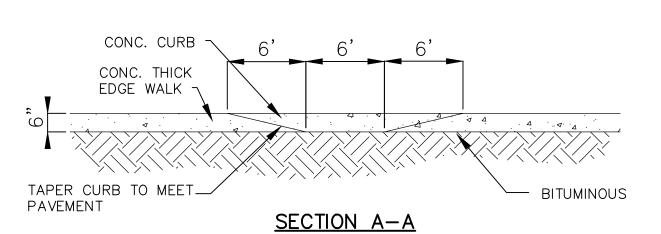




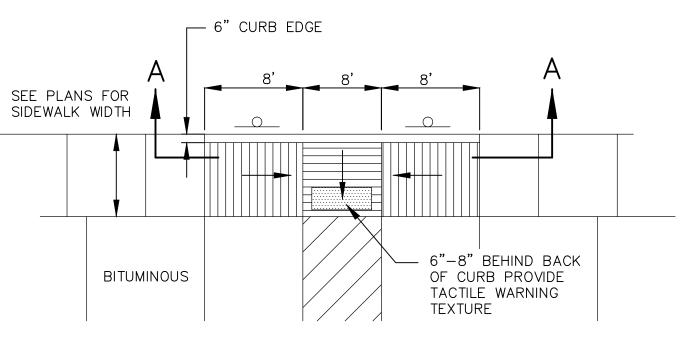
8" CONCRETE WALK/PAD DETAIL NO SCALE



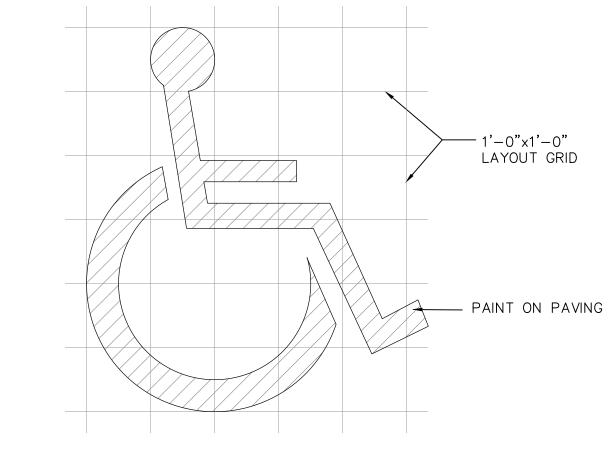
PAINTED "CROSSWALK" DETAIL NO SCALE



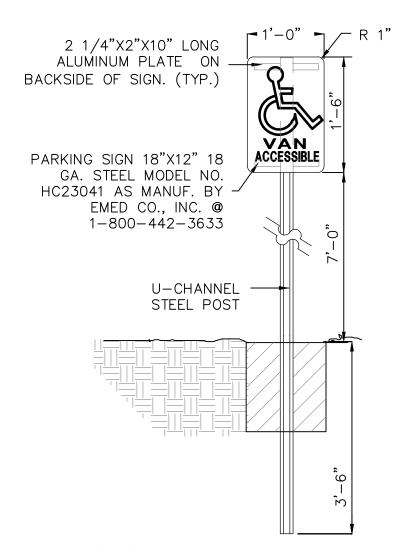
NOTE: INSTALL TACTILE WARNING TEXTURE AT EXTERIOR RAMPED WALKS IN A BAND 2'-0" DEEP x WIDTH OF WALK. EAST JORDAN IRON WORKS DETECTABLE WARNING PLATES. 1-800-566-3549.



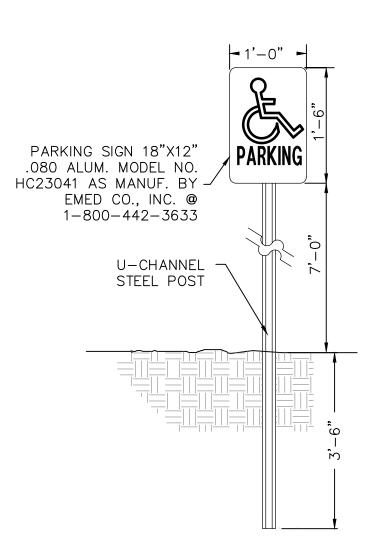
PLAN VIEW **27** SIDEWALK RAMP DETAIL



PAINTED "ACCESSIBLE **26 PARKING" DETAIL** NO SCALE



SIGN-VAN ACCESSIBLE PARKING



SIGN-ACCESSIBLE PARKING

RKING

CHECKED

15-0065

9/10/15 NO SCALE C11

FINISHED GRADE OF CONCRETE/ASPHALT

BOLLARDS OUTSIDE OF THE

BOLLARDS INSIDE DUMPSTER

DUMPSTER ENCLOSURE SHALL HAVE

ENCLOSURE SHALL BE UNPAINTED.

POWDER COAT PAINT, COLOR YELLOW.

6" Ø STEEL. PIPE CONC.

SEE NOTE ABOVE.

SLOPE CONC. AWAY FROM

- PAINT IMBEDDED SURFACE W/2 COATS OF RUST

INHIBITING PAINT.

- PIPE FOR DRAINAGE.

FILLED

TABLE OF STANDARD MATERIALS

EJIW 7005 & 7006

EJIW 1040A "SANITARY"

EJIW 7045, M1 "DUMP NO WASTE"

EJIW 1040, Type M1 "DUMP NO WASTE" EJIW 1040, Type M3 "DUMP NO WASTE"

EJIW 6517 "DUMP NO WASTE"

EJIW 6312, "CLEANOUT"

EJIW 1040A "WATER"

EXISTING AND PROPOSED CATCH BASINS LOCATED WITHIN AREAS TO BE CURBED AND PAVED SHALL BE CORED FOR 4-INCH SOCKED PREFORATED UNDERDRAIN.

EJIW 1040B "STORM"

ADA Warning Plate

Sanitary Manhole Castings

Storm Catch Basin Castings

Storm Manhole Castings

Curb Type

Ditch Type

Parking Lots Walk ADA Type

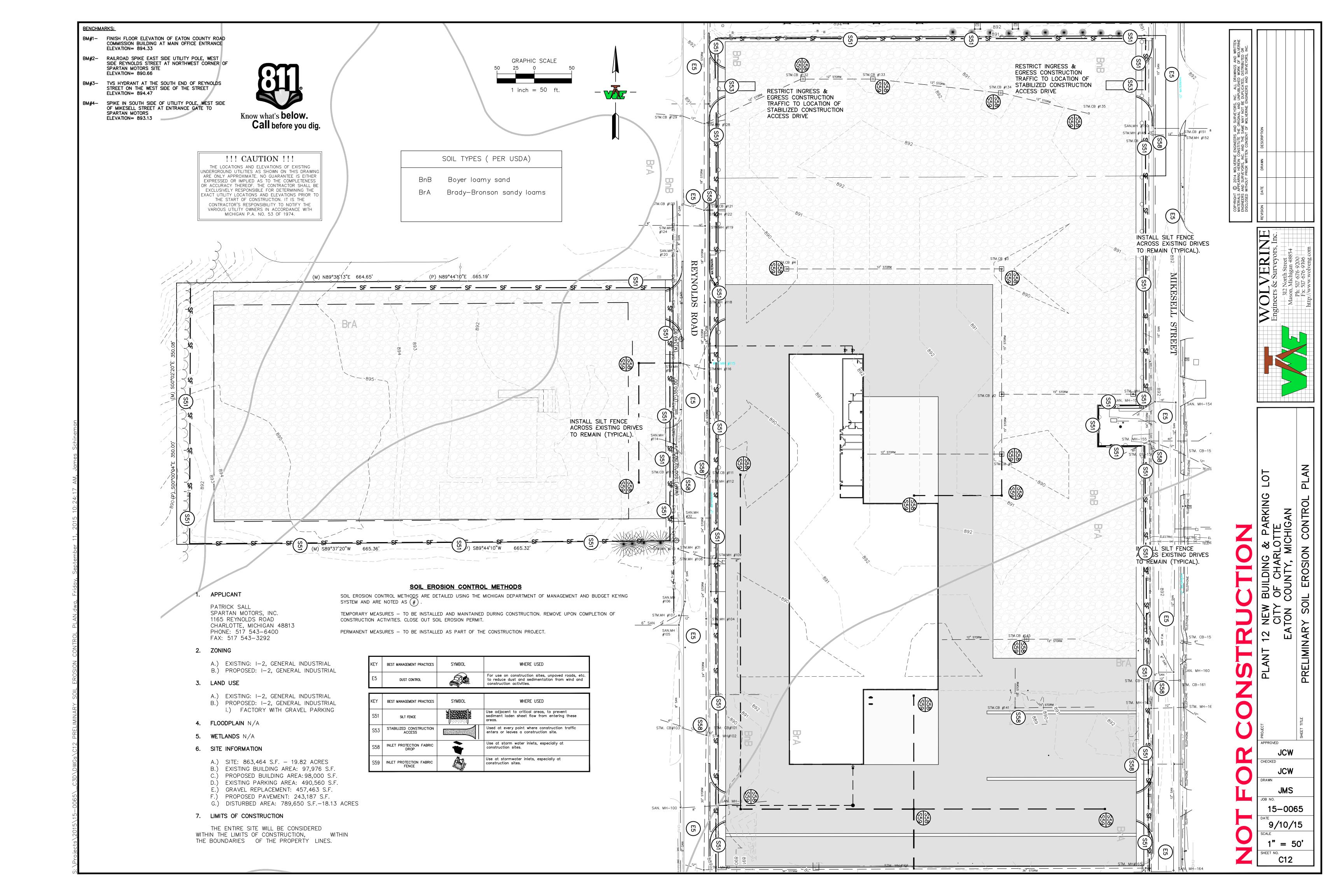
Cleanout Type

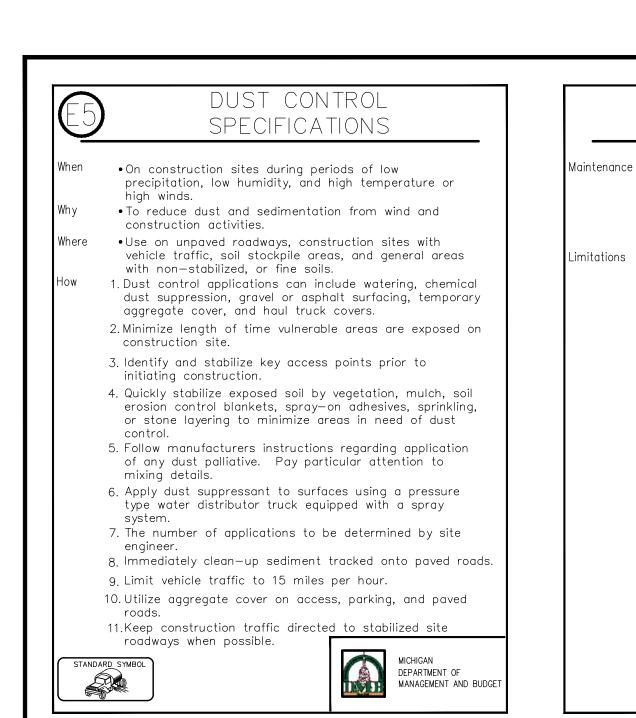
Water Manhole Casting

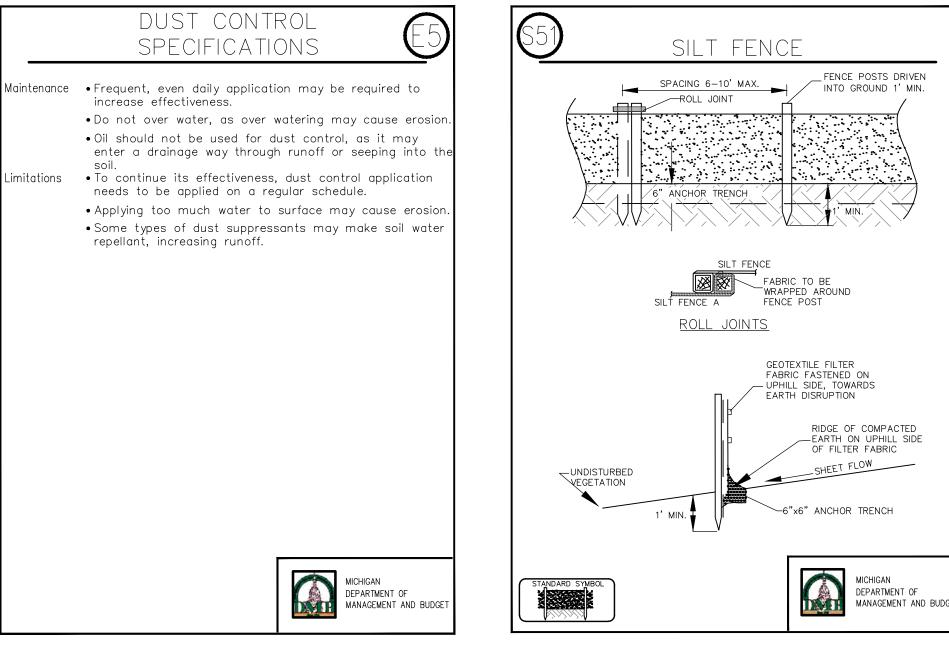
6" PIPE BOLLARD

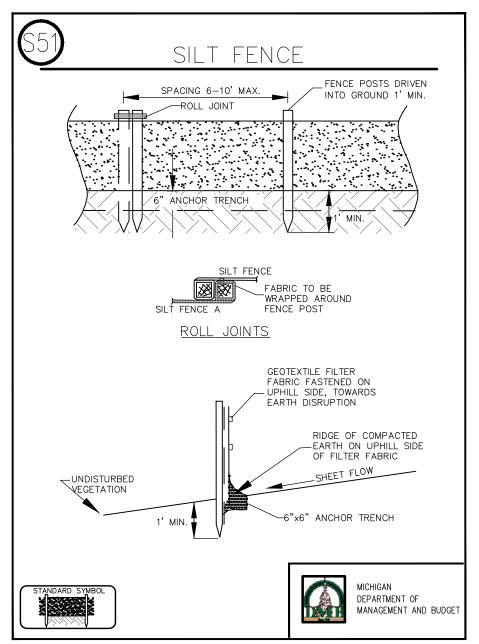
24

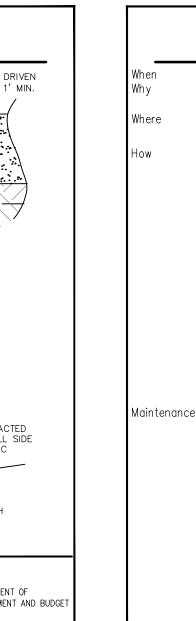
NO SCALE

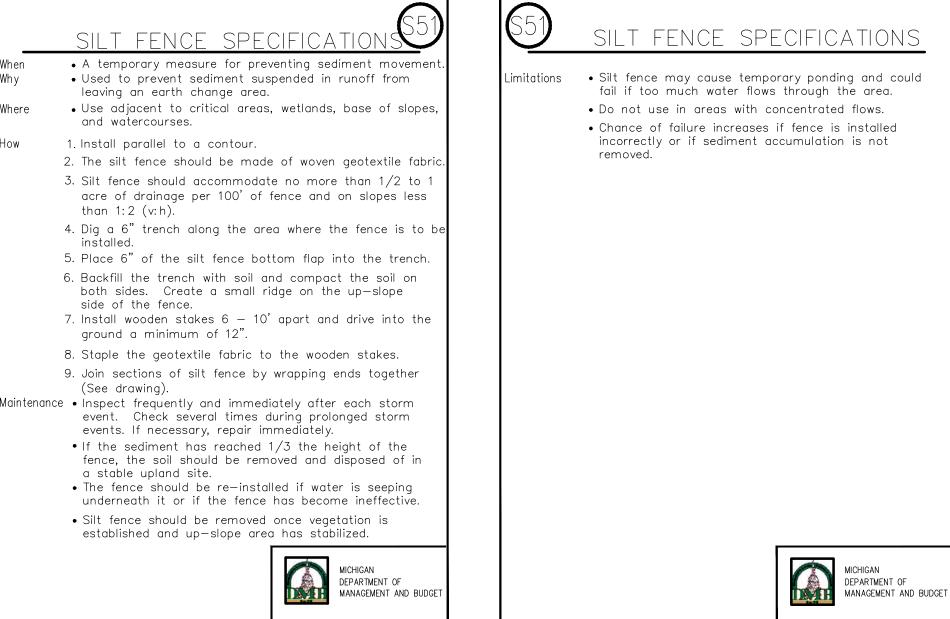


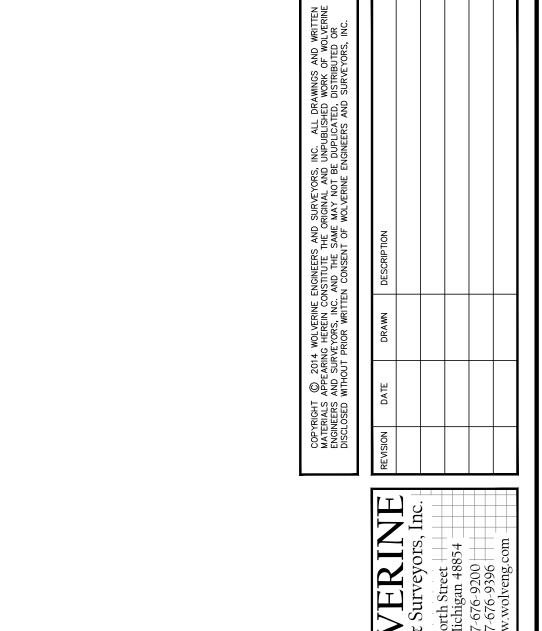


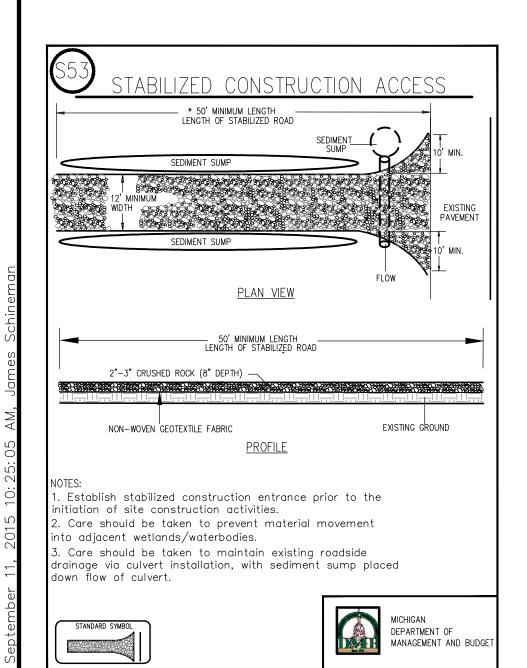


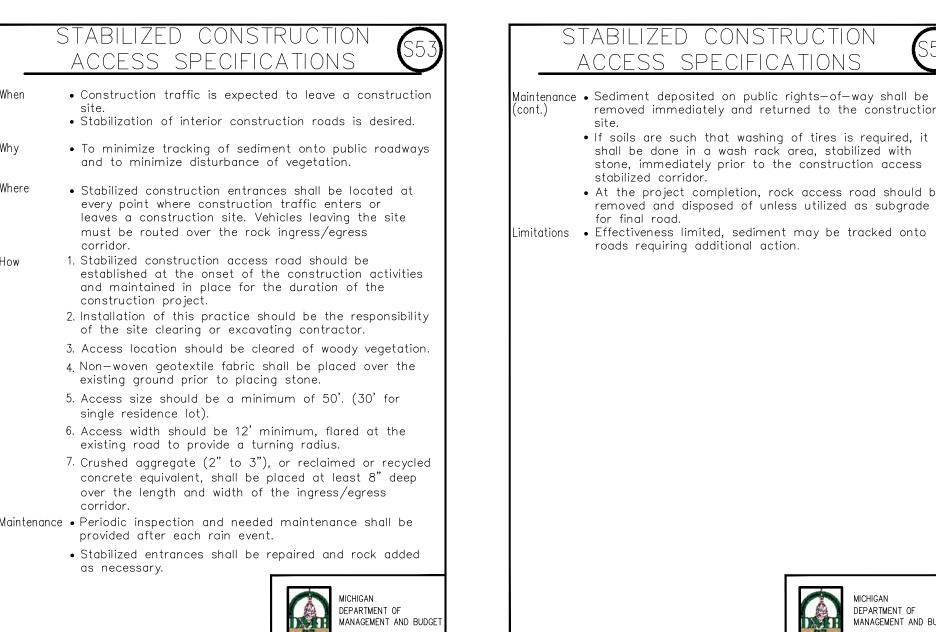




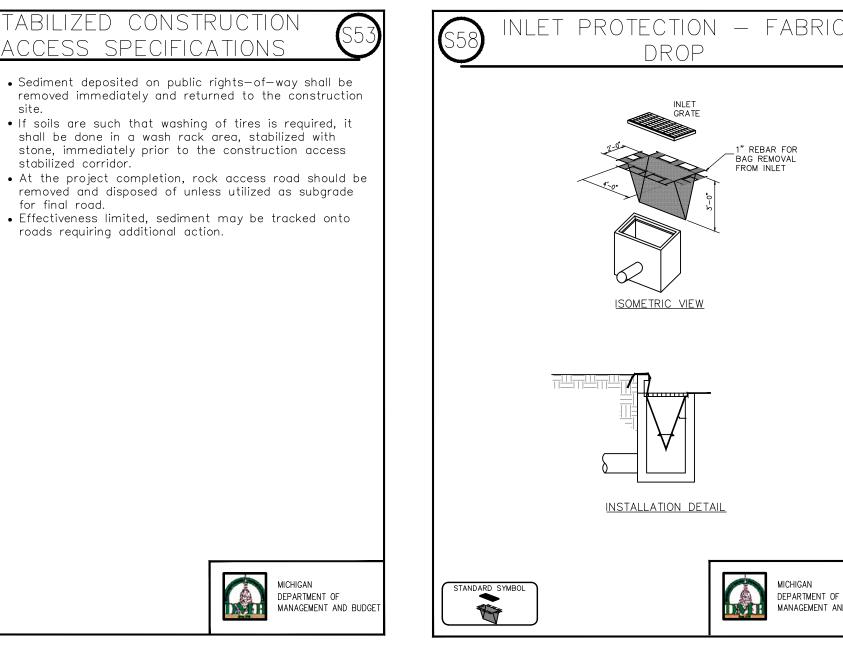


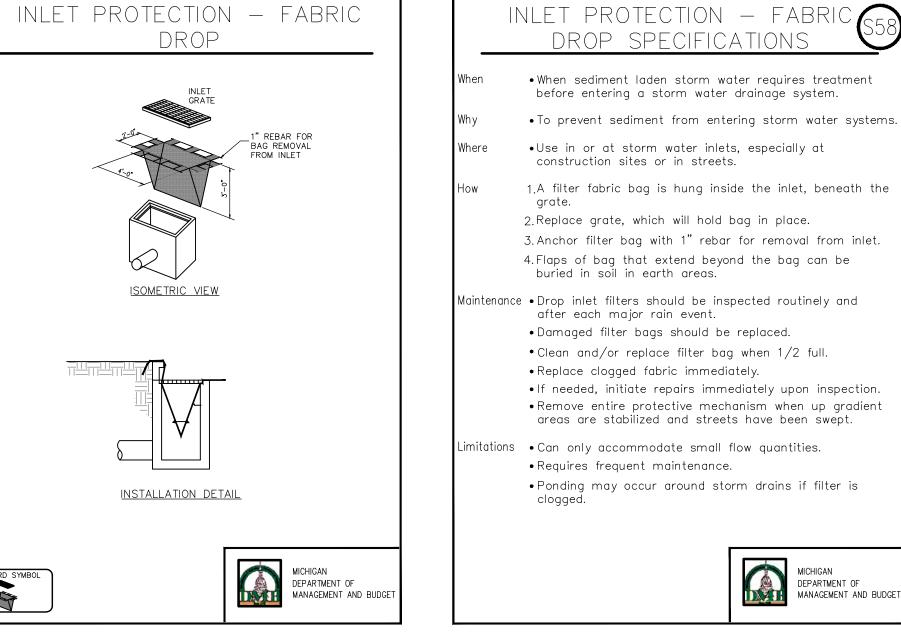


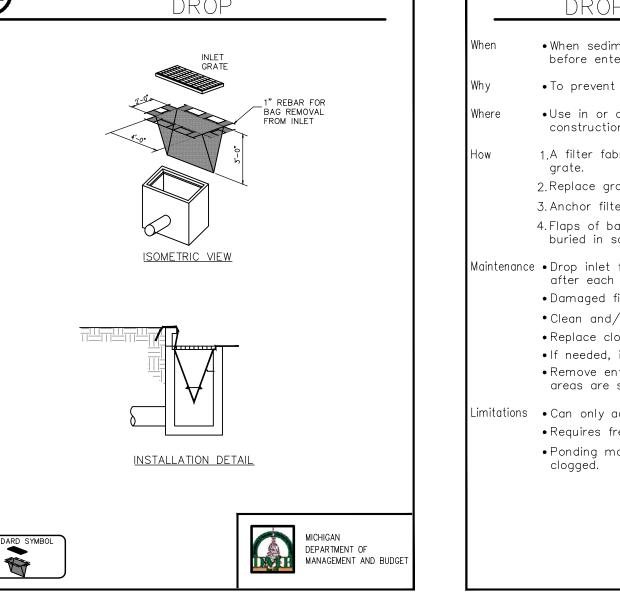


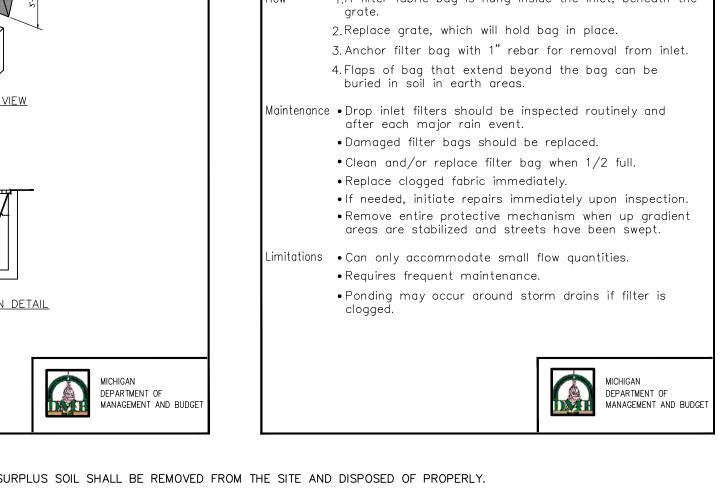


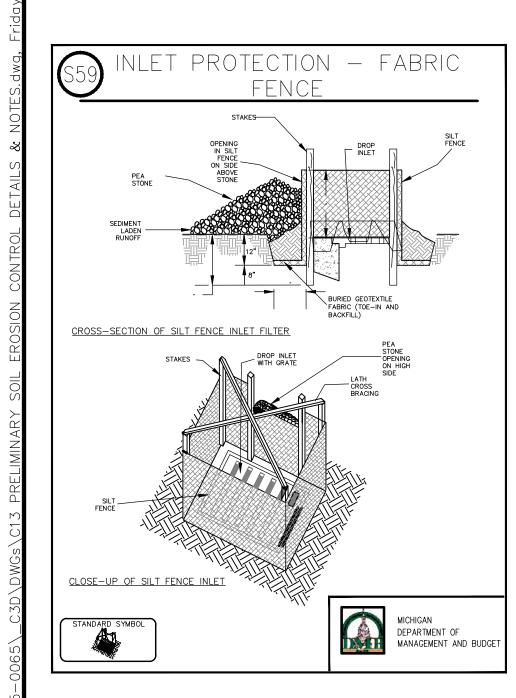
SOIL EROSION NOTES:

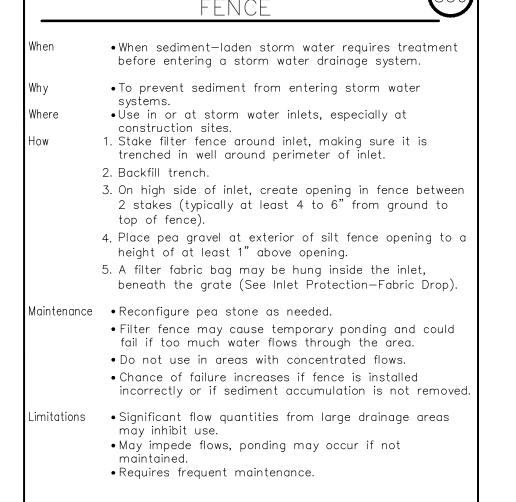










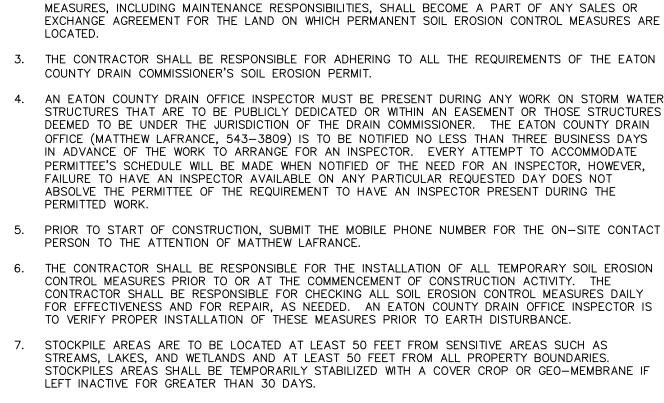


MICHIGAN

DEPARTMENT OF

MANAGEMENT AND BUDGET

INLET PROTECTION — FABRIC



RECOMMENDED THAT THE PERMIT BE LAMINATED TO WITHSTAND THE WEATHER.

2. THE MAINTENANCE PROGRAM FOR ALL TEMPORARY AND PERMANENT SOIL EROSION CONTROL

CONTROL MEASURES PRIOR TO OR AT THE COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL SOIL EROSION CONTROL MEASURES DAILY FOR EFFECTIVENESS AND FOR REPAIR, AS NEEDED. AN EATON COUNTY DRAIN OFFICE INSPECTOR IS TO VERIFY PROPER INSTALLATION OF THESE MEASURES PRIOR TO EARTH DISTURBANCE. 7. STOCKPILE AREAS ARE TO BE LOCATED AT LEAST 50 FEET FROM SENSITIVE AREAS SUCH AS STREAMS, LAKES, AND WETLANDS AND AT LEAST 50 FEET FROM ALL PROPERTY BOUNDARIES. STOCKPILES AREAS SHALL BE TEMPORARILY STABILIZED WITH A COVER CROP OR GEO-MEMBRANE IF PERMITTEE MUST STRICTLY MAINTAIN DUST CONTROL AT ALL TIMES DURING CONSTRUCTION AND UNTIL THE SOIL EROSION PERMIT IS CLOSED BY THE EATON COUNTY DRAIN COMMISSIONER.

THE SOIL EROSION PERMIT IS TO BE POSTED AT THE CONSTRUCTION ENTRANCE OF THE SITE UNTIL

FAILURE TO HAVE THE PERMIT POSTED COULD RESULT IN A CEASE AND DESIST ORDER. IT IS

THE LAND IS PERMANENTLY STABILIZED AND THE PERMIT IS CLOSED BY THE DRAIN COMMISSIONER.

- ANY CATCH BASIN LOCATED ON-SITE OR WITHIN 50 FEET OF THE CONSTRUCTION DISTURBANCE SHALL HAVE TEMPORARY INLET PROTECTION. FILTER BAGS SUCH AS A SILT SACK OR EQUIVALENT ARE EATON COUNTY DRAIN COMMISSION APPROVED METHODS FOR INLET PROTECTION.
- 10. ALL TEMPORARY SOIL EROSION CONTROL MEASURES WILL BE REMOVED WHEN THE DRAIN OFFICE CLOSES THE PERMIT.
- DIRT TRACKED OFF SITE ONTO PUBLIC ROADS SHALL BE PROMPTLY REMOVED, NO LESS THAN ON A

- 12. SURPLUS SOIL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
- 13. IF THE PROPERTY SUBJECT TO THE SOIL EROSION PERMIT IS TRANSFERRED, THE PERMIT, INCLUDING ALL PERMIT OBLIGATIONS AND CONDITIONS, ARE TRANSFERRED WITH THE PROPERTY ALONG WITH THE RESPONSIBILITY FOR ANY VIOLATIONS OF THE PERMIT THAT EXIST ON THE DATE OF THE TRANSFER OF THE PROPERTY. IF A PARCEL OF THE PROPERTY, BUT NOT THE ENTIRE PROPERTY IS TRANSFERRED, THE PERMIT OBLIGATIONS AND CONDITIONS WITH RESPECT TO THAT PARCEL ARE TRANSFERRED, BUT NOT THE PERMIT, ALONG WITH THE RESPONSIBILITY FOR ANY VIOLATIONS OF THE PERMIT WITH RESPECT TO THAT PARCEL THAT EXIST ON THE DATE OF THE TRANSFER OF THE PARCEL. NOTICE OF PROPERTY OR PARCEL TRANSFERS SHALL BE SUBMITTED TO THE DRAIN OFFICE PRIOR TO TRANSFER AND OTHERWISE SHALL BE IN COMPLIANCE WITH MCL 324.9112.
- 14. APPROVAL OF THE SOIL EROSION PERMIT DOES NOT AUTHORIZE CONNECTION TO ANY COUNTY DRAIN, OCCUPATION OF ANY EASEMENT OF A COUNTY DRAIN. OR CROSSING OF ANY COUNTY DRAIN. A SEPARATE TAP-IN PERMIT, OCCUPATION LICENSE, OR CROSSING PERMIT MUST BE ISSUED BY THE DRAIN COMMISSIONER PRIOR TO ANY SUCH WORK. PERMITS TO CROSS OR CONNECT THE COUNTY DRAINS WILL NOT BE ISSUED UNTIL ALL PERMITS ARE ISSUED BY THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) FOR THAT WORK, AND COPIES OF SAME ARE SUBMITTED TO THE
- 15. APPROVAL OF THE SOIL EROSION PERMIT DOES NOT AUTHORIZE ANY EARTH DISTURBANCE ACTIVITY IN STATE REGULATED WETLANDS UNTIL A PERMIT, OBTAINED FROM THE MDEQ, IS SUBMITTED AUTHORIZING THAT EARTH DISTURBANCE ACTIVITY OR SEDIMENTATION OF THE WETLANDS.
- 16. APPROVAL OF THE SOIL EROSION PERMIT DOES NOT AUTHORIZE ANY EARTH DISTURBANCE ACTIVITY OFF-SITE UNTIL PERMISSION IS OBTAINED AND SUBMITTED TO THE DRAIN COMMISSION FROM THE LANDOWNERS OF THOSE PROPERTIES ON WHICH THE DISTURBANCE IS TO OCCUR AND A SOIL EROSION PLAN IS SUBMITTED AND APPROVED BY THE DRAIN COMMISSIONER FOR THAT WORK, INCLUDING, BUT NOT LIMITED TO, PLACEMENT OF EXCAVATED MATERIAL FROM THIS SITE.

TENTATIVE SECHENCE OF CONSTRUCTION

TENTATIVE SEQUENCE OF CONSTRUCTION:					
WEEK 1:	INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES. STRIP AND REMOVE TOP SOIL.				
WEEKS 2-3:	REMOVE OR PLUG AND ABANDON UTILITIES LEADS. DEMOLISH BUILDING. PULVERIZE PAVEMENT.				
WEEKS 4-5:	INSTALL NEW STORM SEWER. FINAL GRADE GRAVEL PARKING.				

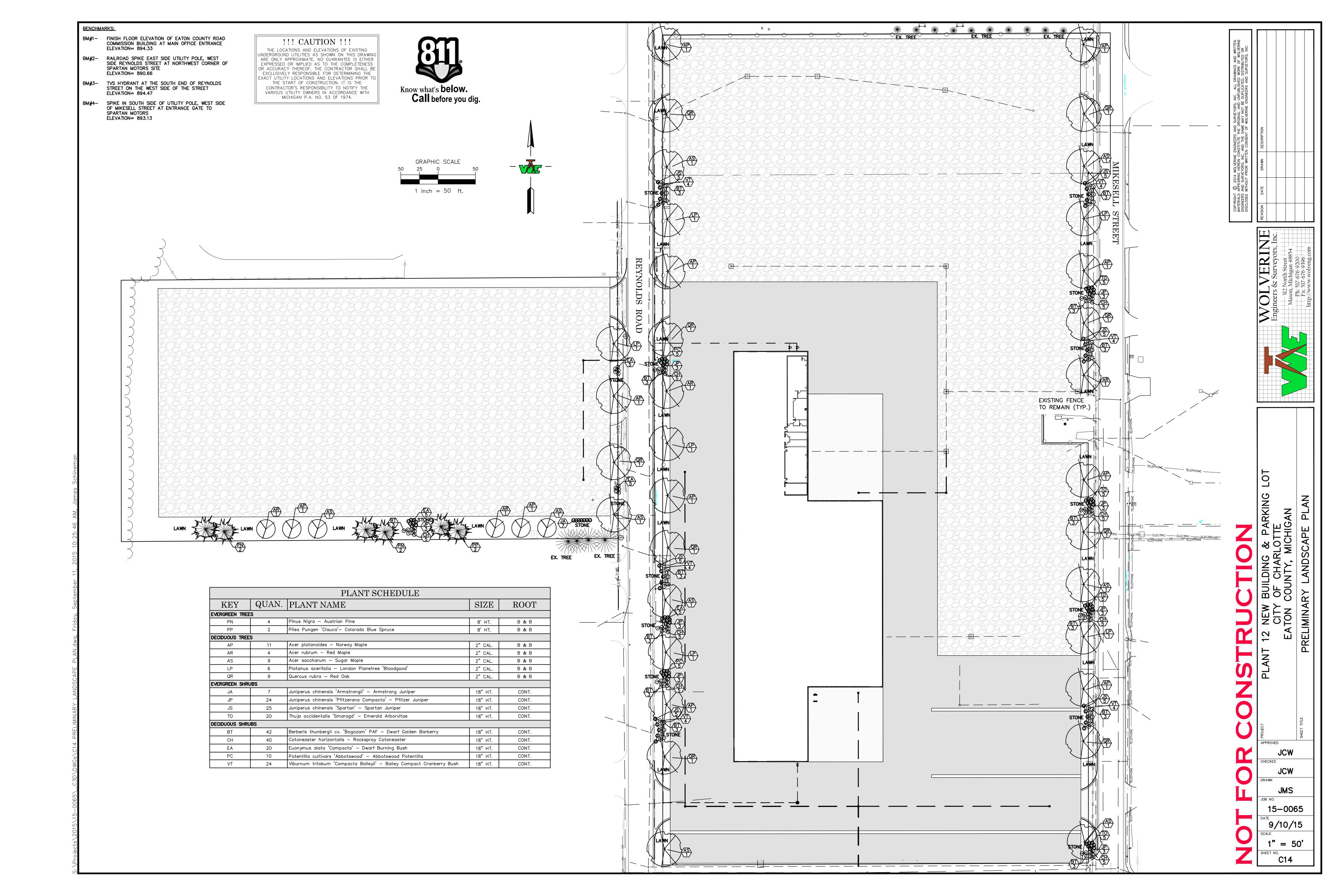
STABILIZE SITE WITHIN 5 DAYS OF FINAL GRADING. INSTALL CHAIN LINK

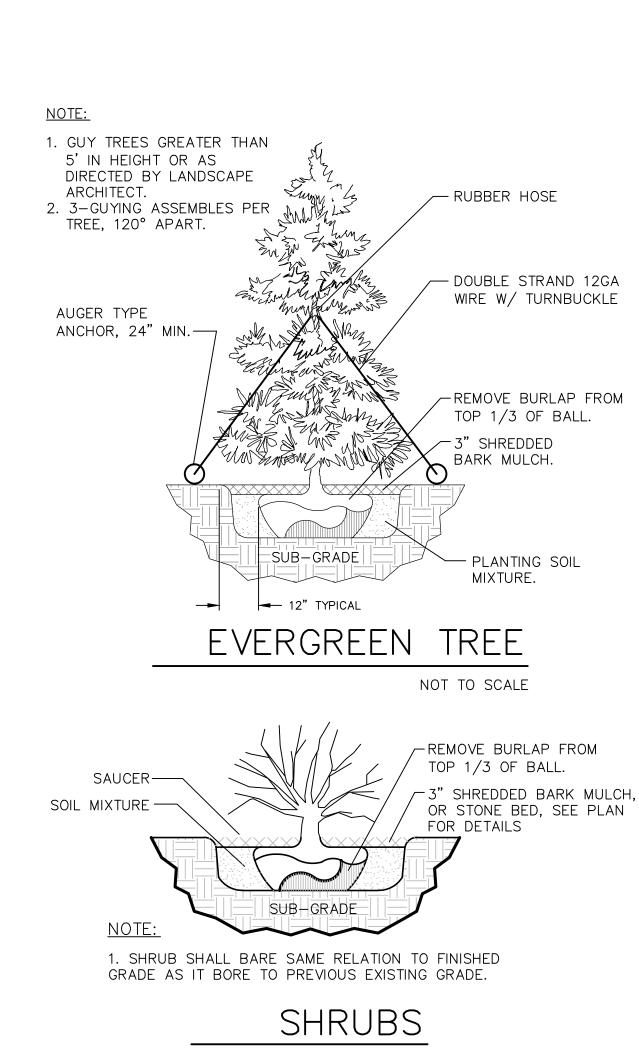
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15-0065 9/10/15

NOTE

NO SCALE C13





NOT TO SCALE

Know what's **below.**

Call before you dig.

- TREE PITS 3X WIDTH OF ROOT BALL -----

TREE PLANTING DETAIL

!!! CAUTION !!! THE LOCATIONS AND ELEVATIONS OF EXISTING INDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL B

EXCLUSIVELY RESPONSIBLE FOR DETERMINING T EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR 7

THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE

VARIOUS UTILITY OWNERS IN ACCORDANCE WITH MICHIGAN P.A. NO. 53 OF 1974.

AFTER ONE YEAR.

PREPARED SOIL MIXTURE:

SOIL MIXTURE SHALL CONSISTS OF A

UNIFORM MIXTURE OF TOPSOIL, PEAT MOSS OR COMPOST AND FERTILIZER. PROPORTION THE PREPARED SOIL SO A CUBIC YARD OF THE PREPARED SOIL WILL CONTAIN 3/4 CUBIC YARD OF TOPSOIL.

1/4 CUBIC YARD OF THE PEAT MOSS OR

COMPOST, AND CHEMICAL FERTILIZER.

FERTILIZER SHALL BE A READY-MIXED GRANULAR MATERIAL CONTAINING EQUAL

AMOUNTS BY WEIGHT OF PHOSPHORUS

AND POTASSIUM. EACH CUBIC YARD OF

PHOSPHORUS AND SOLUBLE POTASSIUM.

SUFFICIENT CHEMICAL FERTILIZER TO PROVIDE ONE POUND EACH OF AVAILABLE

PREPARED SOIL SHALL CONTAIN

STAKE TREES JUST BELOW FIRST BRANCH

PLASTIC STRAPS (CONNECT FROM TREE TO STAKE OPPOSITE FROM EACH OTHER, AND ALLOW FOR SOME "FLEXING"). * DO NOT USE

WIRE OR ROPE THROUGH A HOSE. REMOVE

2" X 2" X 8' HARDWOOD STAKES OR -EQUIVALENT DRIVEN 6"-8" OUTSIDE

OF ROOT BALL. REMOVE AFTER ONE

REMOVE ALL NON-BIODEGRADEABLE ---

MATERIALS FROM THE ROOT BALL.

FROM THE TOP OF THE ROOT BALL.

FOLD DOWN ALL BURLAP FROM 1/3rd

WITH 2"-3" WIDE BELT-LIKE, NYLON OR

LANDSCAPE NOTES:

- 1. ALL CONSTRUCTION AND PLANT MATERIAL LOCATIONS TO BE ADJUSTED ON SITE IF NECESSARY.
- 2. ANY SUBSTITUTIONS OF PLANT MATERIAL OR ALTERATIONS IN PLANT SIZE OR SPECIFICATIONS TO BE CONFIRMED BY THE LANDSCAPE ARCHITECT AND CITY. COORDINATE WITH THE CITY WHICH EXISTING VEGETATION TO REMAIN AND/OR BE RELOCATED ON SITE.
- 3. ALL LARGE TREES AND EVERGREENS TO BE STAKED, GUYED AND WRAPPED, AS DETAILED ON PLAN.
- 4. PLANT BEDS TO BE MULCHED AND DRESSED WITH 4" OF SHREDDED HARD WOOD BARK. FOR PLANT BEDS NEAR BUILDING SEE STONE BED DETAIL ON THIS SHEET.
- 5. EVER GREEN GROUPING TO VARY IN HEIGHT AS SPECIFIED IN THE PLANT MATERIAL LIST.
- 6. DIG SHRUB PIT 1' LARGER THAN SHRUB ROOT BALLS AND TREE PITS 2' LARGER THAN ROOT BALLS. BACKFILL WITH ONE PART TOP SOIL AND ONE PART SOIL FROM EXCAVATED PLANT HOLE.
- 7. REMOVE ALL TWINE, WIRE AND BURLAP FROM TOP 1/3 OF TREE AND SHRUB EARTH BALLS AND FROM TREE TRUNKS.
- 8. LAWN TREES TO BE MULCHED WITH A 2' WIDE MIN. OF 6" DEEP SHREDDED BARK RING OR APPROVED ALTERNATE DESIGN FOR TRUNK PROTECTION.
- WITH THE AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS.

9. INSTALLATION OF PLANT MATERIAL SHALL BE IN ACCORDANCE

10. PLANT MATERIAL, ESPECIALLY EVERGREENS, TO BE PLANTED HIGHER THAN NORMAL WHEN HEAVY SOIL CONDITIONS (CLAY ETC.) PREVAIL.

REMOVE SECONDARY LEADERS. DO

NOT PRUNE TERMINAL LEADER OR

REMOVE ALL TAGS, STRINGS,

MATERIALS WHICH ARE UNSIGHTLY

PLASTICS, AND ANY OTHER

OR COULD CAUSE GIRDLING.

-TREE WRAP SECURED WITH BIODEGRADABLE MATERIAL AT

TOP AND BOTTOM. REMOVE

-COVER PLANTING WITH 4"

SHREDDED HARDWOOD BARK MULCH. LEAVE 3" CIRCLE OF

BARE SOIL AROUND TREE TRUNK.

SCARIFY WALL OF TREE

SPADED HOLE PRIOR TO

INSTALLATION OF TREE.

AFTER FIRST WINTER.

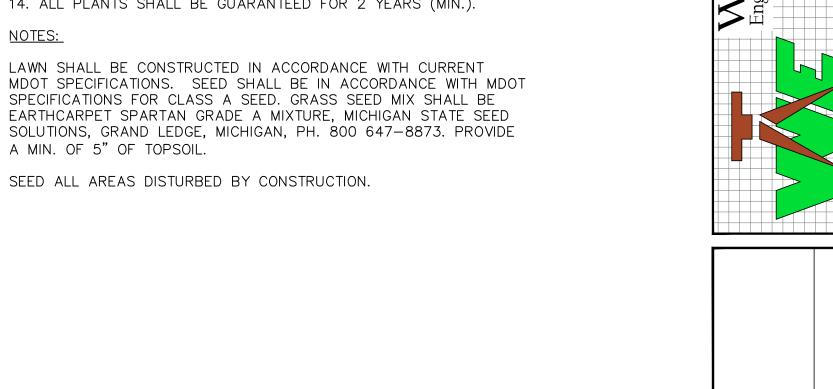
NOT TO SCALE

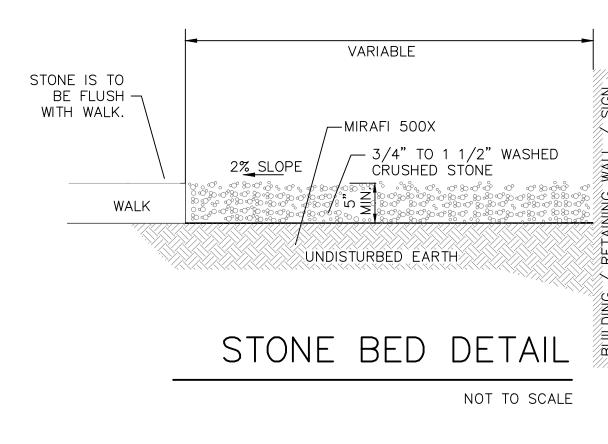
BRANCH TIPS. PRUNE ALL DEAD

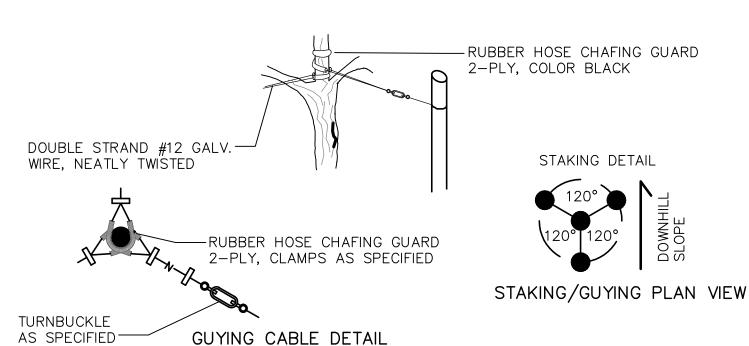
AND BROKEN BRANCHES.

- 11. ALL PLANTING AREAS SHALL BE PREPARED WITH APPROPRIATE SOIL MIXTURES AND FERTILIZER BEFORE PLANT INSTALLATION.
- 12. PLANT TREES AND SHRUBS GENERALLY NO CLOSER THAN THE FOLLOWING DISTANCE FROM SIDEWALKS, CURBS & PKG. STALLS.
 - A. SHADE TREES.... B. ORNAMENTAL AND EVERGREEN TREES (CRAB, PINE,
 - SPRUCE, ETC.)... ...7 FT. C. SHRUBS THAT ARE LESS THAN 1 FOOT TALL AND WIDE AT ...2 FT.
 - PROVIDE ADDITIONAL SPACE BACK OF CURBS & WALKS FOR LARGER SHRUBS.
- 13. FOR EXISTING TREE PROTECTION, A 4'-0" HIGH ORANGE SAFETY FENCE SHALL BE ERECTED AROUND THE TREE DRIP LINE PRIOR TO LAND CLEARING AND SITE CONSTRUCTION AND MAINTAINED THROUGHOUT THE SITE DEVELOPMENT PERIOD. NO CUTTING/ FILLING OR TRESPASSING SHALL OCCUR INSIDE FENCED AREAS WITHOUT PRIOR CITY APPROVAL.
- 14. ALL PLANTS SHALL BE GUARANTEED FOR 2 YEARS (MIN.).

LAWN SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT MDOT SPECIFICATIONS. SEED SHALL BE IN ACCORDANCE WITH MDOT SPECIFICATIONS FOR CLASS A SEED. GRASS SEED MIX SHALL BE EARTHCARPET SPARTAN GRADE A MIXTURE, MICHIGAN STATE SEED SOLUTIONS, GRAND LEDGE, MICHIGAN, PH. 800 647-8873. PROVIDE A MIN. OF 5" OF TOPSOIL.







TIE & TURNBUCKLE

NOT TO SCALE



BUILDIN OF CH COUNT

CHECKED

15-0065 9/10/15

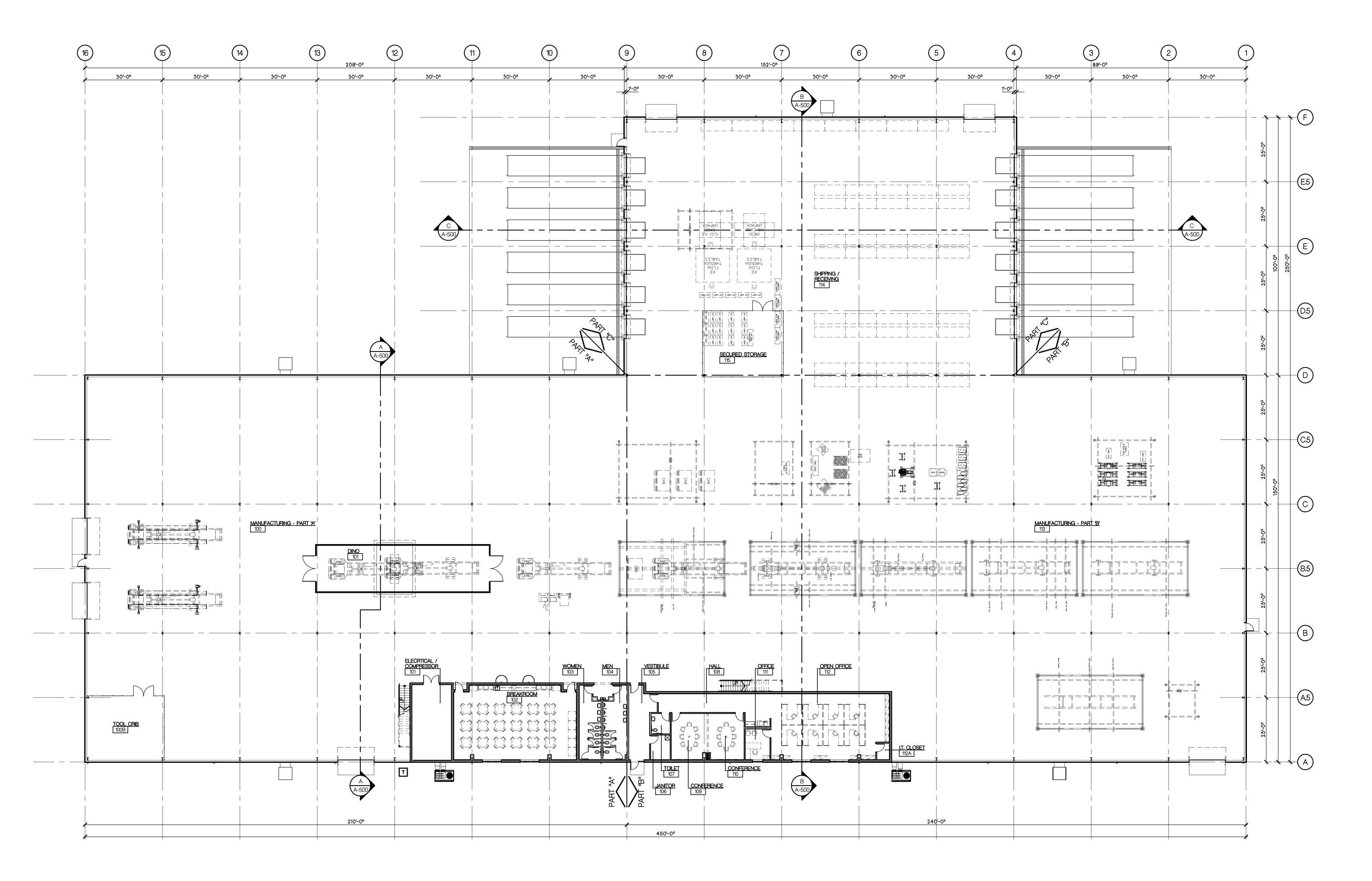
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NOTE

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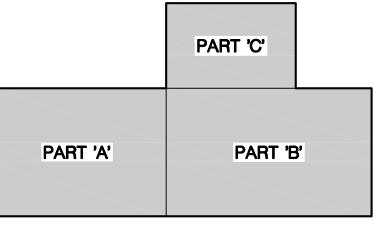


FLOOR PLAN GENERAL NOTES: 1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND

- PROMPTLY NOTIFY ARCHITECT OF ANY DISCREPANCIES. 2. ALL DIMENSIONS ARE TO CENTER OF COLUMN, FACE OF EXISTING
- WALL, CENTER OF INTERIOR STUD WALL, FACE OF EXTERIOR WALL, OR FACE OF MASONRY WALL, UNLESS NOTED OTHERWISE.
- 3. MAIN LEVEL ELEVATION (USGS) = ____' REFERENCE MAIN LEVEL FINISHED FLOOR = 100'-0"
- 4. ALL EXTERIOR SLABS TO SLOPE AWAY FROM THE BUILDING.
- 5. ALL WALLS SHALL EXTEND TO ROOF OR FLOOR DECKING ABOVE UNLESS OR DETAILED NOTED OTHERWISE.
- 6. SEE SHEET A-113 FOR INTERIOR WALL TYPES. 7. CONTRACTOR SHALL INSTALL ALL WOOD BLOCKING IN STUD AND GYPSUM WALLS REQUIRED FOR ANCHORAGE OF WALL ATTACHED ITEMS INCLUDING BUT NOT LIMITED TO RAILINGS, GRAB BARS,
- TOILET ROOM ACCESSORIES, DOOR BUMPERS, WOOD TRIM, CABINETS AND FUTURE I.T. ITEMS. 8. <u>LEGEND:</u>
- 9. <u>ABBREVIATIONS:</u> CUH CABINET UNIT HEATER CJ - CONTROL JOINT

FD - FLOOR DRAIN

- DS DOWN SPOUT FBX - ELECTRIC FLOOR BOX
- FE FIRE EXTINGUISHER & BRACKET FEC - SEMI-RECESSED FIRE EXTINGUISHER & CABINET FPD - FLAT PANEL DISPLAY
- MAU MAKE UP AIR UNIT
- REF REFRIGERATOR (N.I.C.) RTU - ROOF TOP UNIT (GROUND MOUNTED) VEND - VENDING MACHINE (N.IC.)



KEY PLAN SCALE - N.T.S.

14-155

COMPOSITE

MAIN LEVEL

FLOOR PLAN

30% OWNER REVIEW 8-17-2015

SPARTAN MOTORS CAREFREE

NEW BUILDING 1023 REYNOLDS ROAD

CHARLOTTE, MI 48813

THE WIELAND - DAVCO CORPORATION

CONSULTANT

DATE ISSUED

RCK, KMM DRAWN BY

PROJECT NUMBER

SHEET TITLE

