GAS STATION / CONVENIENCE STORE

PROPOSED ADDITION / BLDG. RENOVATION SITE PLAN APPROVAL PACKAGE

4465 W. VIENNA ROAD CLIO, MI 48420

THE NORTHWEST 1/4 OF SECTION 21 TOWNSHIP 09 NORTH, RANGE 06 EAST COUNTY OF GENESEE, STATE OF MICHIGAN

PROPERTY DESCRIPTION:

LAND SITUATED IN THE NORTHWEST 1/4 OF SECTION 21, TOWN 9-NORTH, RANGE 6-EAST VIENNA TOWNSHIP. COUNTY OF GENESEE. STATE OF MICHIGAN MORE PARTICULARLY

THE NORTH 275 FEET OF THE EAST 200 FEET OF THE WEST 755.40 FEET OF SAID

DRAWING INDEX:

	04-03-2025	COOO — COVER SHEET
	04-03-2025	C100 — TOPOGRAPHIC SURVEY PLAN
0		C101 — SITE REMOVAL PLAN
•	04-03-2025	C200 — SITE LAYOUT PLAN
	04-03-2025	C300 — SITE GRADING & STORM SEWER PLAN
	04-03-2025	C301 — SOIL EROSION CONTROL PLAN
•	04-03-2025	C302 — PROPOSED DRAINAGE AREA MAP & STORM WATER CALCULAT
	04-03-2025	C400 — SITE UTILITY PLAN
•	04-03-2025	C401 — SITE PHOTOMETRIC PLAN
	04-03-2025	C500 — SITE LANDSCAPE PLAN
	04-03-2025	C600 — SITE DETAILS
	04-03-2025	A1 — CONCEPTUAL FLOOR PLAN
•	04-03-2025	A2 — CONCEPTUAL BUILDING ELEVATIONS
0		 — WATER MAIN STANDARD DETAILS (COUNTY)
0		 — SANITARY SEWER STANDARD DETAILS (COUNTY)
0		 — STANDARD CONSTRUCTION NOTES (COUNTY)

- MOST RECENT ISSUE / REVISION DATE — FILLED CIRCLE INDICATES SUBMITTED DRAWING

BENCHMARKS:

TOP OF PK NAIL IN SOUTH FACE OF POWER POLE LOCATED APPROXIMATELY 32' EAST OF THE CENTERLINE OF THE WEST DRIVE APPROACH AND APPROXIMATELY 135' SOUTH OF CENTERLINE VIENNA ROAD. ELEVATION = 702.31

GCDC-WWS CONTRACTOR ALERT STATEMENT:

THIS PROJECT HAS BEEN DESIGNED IMPLEMENTING THE LATEST GCDC-WWS DESIGN SPECIFICATIONS (8TH EDITION). CAREFULLY REVIEW THE NOTES. DETAILS. AND DESIGN PRIOR TO SUBMITTING A BID. FULL COMPLIANCE WITH THE STANDARDS WILL BE REQUIRED.

NPDES STATEMENT:

THE OWNER WILL NOT NEED TO OBTAIN AN NPDES STORM WATER DISCHARGE PERMIT FROM THE MICHIGAN DEPARTMENT OF ENVIRONMENT. GREAT LAKES. AND ENERGY (EGLE). TOTAL DISTURBED AREA: 0.95 ACRES

TOPOGRAPHIC SURVEY STATEMENT:

THE EXISTING FEATURES SHOWN ON THIS PLAN ARE FROM AN ACTUAL TOPOGRAPHIC SURVEY PERFORMED BY GRIGGS QUADERER, INC. IN DECEMBER OF 2024. THE UNDERGROUND UTILITIES SHOWN WERE EITHER VERIFIED BY THIS SURVEY OR WERE PLOTTED IN ACCORDANCE WITH THE BEST INFORMATION AVAILABLE. NO EXISTING UTILITIES WER EXPOSED FOR VERIFICATION OF LOCATION AND ELEVATION. NO GUARANTEES ARE GIVEN THAT THE LOCATIONS ARE ABSOLUTELY ACCURATE OR THAT UTILITIES OTHER THAN THOSE SHOWN

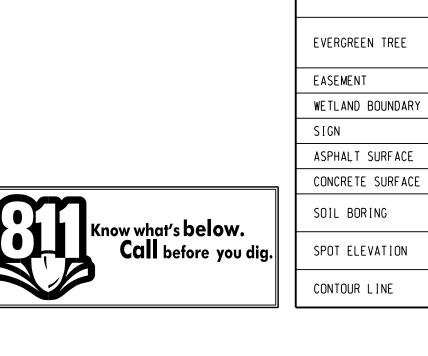
2366 LOST CREEK CT. FLUSHING, MI 48433 PHONE: (810) 265-0463 EMAIL: ABDALLAH5105@ICLOUD.COM

ARCHITECT: JOHN COSTA, AIA ARCHITECTURAL DESIGN & CONSULTATION 417 OLDMILL DRIVE FLUSHING, MI 48433 PHONE: (810) 659-5275

EMAIL: JNLCOSTA@SBCGLOBAL.NET

ENGINEER: RUDY QUADERER GRIGGS QUADERER, INC. 8308 OFFICE PARK DRIVE GRAND BLANC, MI 48439 PHONE: (810) 695-0154 EMAIL: RQUADERER@GQINCORP.COM

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	AGENCY	CONTAC	T INFORMATION		
AGENCY	SUBMITTAL DATE	STATUS	AGENCY	SUBMITTAL DATE	STATUS
JENNIFER WOHLFEILL BLDG. ADMINISTRATOR VIENNA TOWNSHIP 3400 W. VIENNA ROAD CLIO, MI 48420 PH: (810) 564-7053	02-10-2025 04-03-2025	UNDER REVIEW	SOIL EROSION CONTROL GCDC-WWS DION BURROUGHS G-4610 BEECHER RD. FLINT, MI 48532 PH: 810-732-7870	-	-
SANITARY GCDC-WWS LYNNETTE MEINZ, PE G-4610 BEECHER RD. FLINT, MI 48532 PH: 810-732-7870	-	-	IPP GCDC-WWS THAD DOMICK G-4610 BEECHER RD. FLINT, MI 48532 PH: 810-732-7870	-	-
STORM GCDC-SWM HEATHER KRONENBERG G-4608 BEECHER RD. FLINT, MI 48532 PH: 810-732-1590	-	-	ROAD GC ROAD COMMISSION GERRAD GODLEY, PE 211 W. OAKLEY ST. FLINT, MI 48503 PH: 810-767-4920	-	NOT REOUTRED

STANDARD LEGEND

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ASPH.

CONC.

DESCRIPTION

SANITARY SEWER

ELECTRIC LINE TELEPHONE LINE

GATE VALVE & WELL

POWER POLE

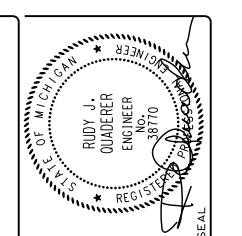
LIGHT POLE

CURB & GUTTER

DECIDUOUS TREE

BUILDING

GAS LINE



DESIGNED	CHECKED BRZEZINSKI	ELD CREW RQ / CB	
DESI(CHECK	FIELD	

STORE

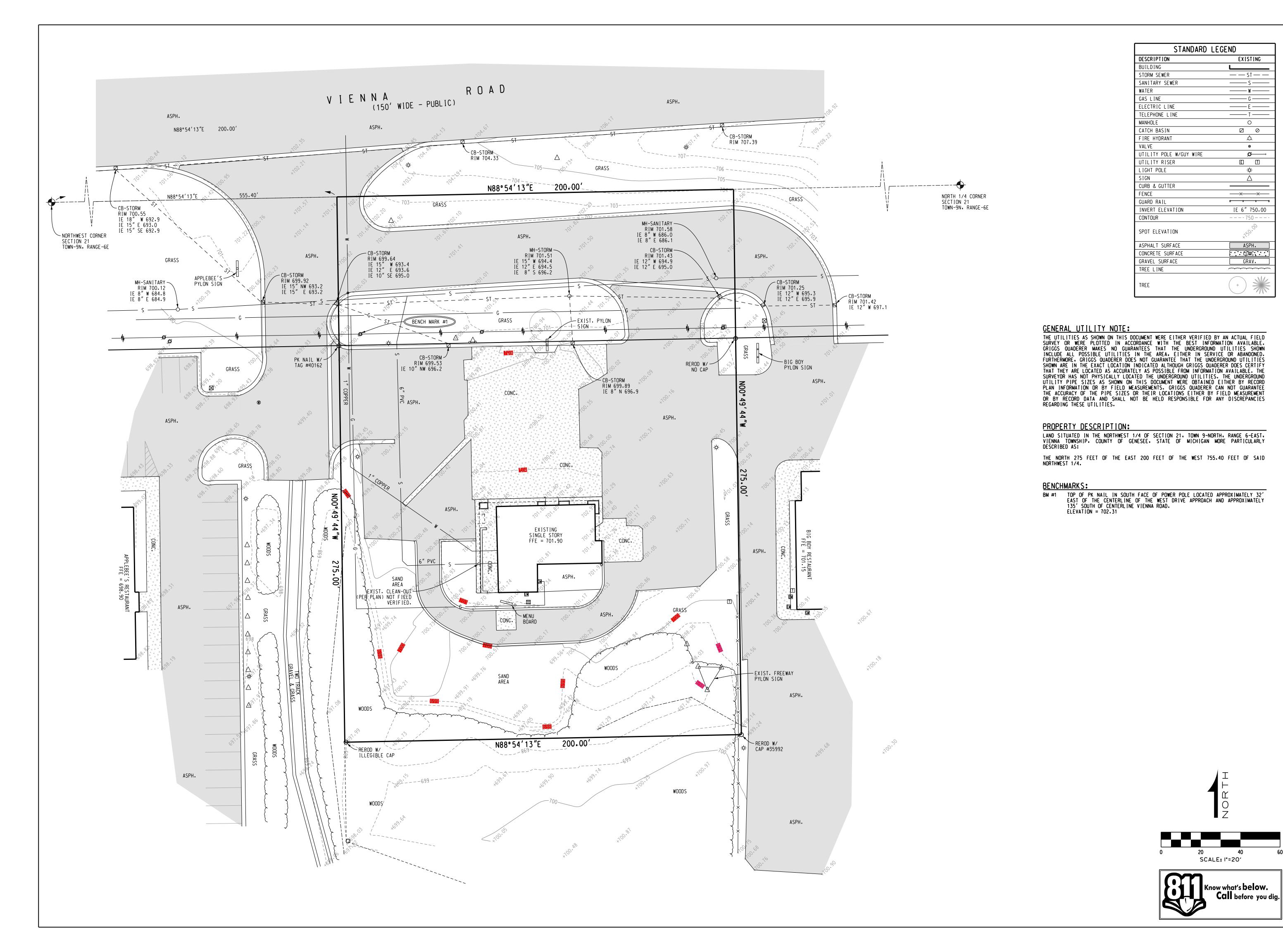
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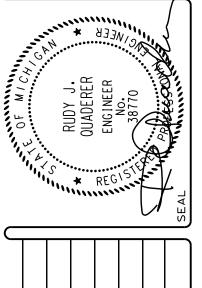
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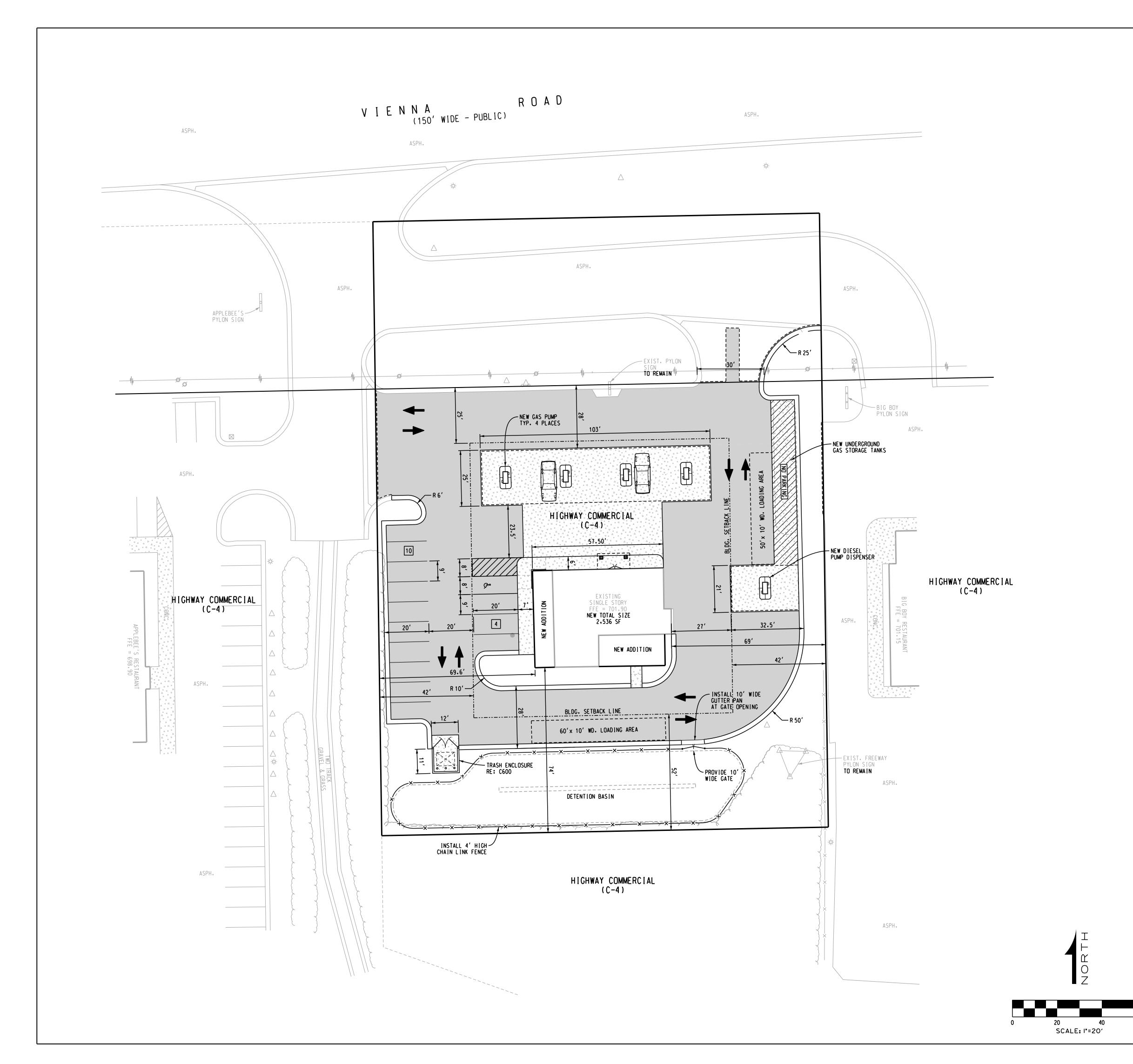
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*VENIENCE STORE /BLDG. RENOVATION GAS STATION / CONV PROPOSED ADDITION /B





SPA 241101



GENERAL NOTES:

- 1. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM WITH THE REQUIREMENTS OF ALL GOVERNING AGENCIES HAVING JURISDICTION (LOCAL, COUNTY, STATE). UNLESS OTHERWISE NOTED. CONSTRUCTION MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE STATE OF MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND PROJECT SPECIFICATIONS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS. THE MOST STRINGENT SHALL APPLY.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING TO ACCOMPLISH ALL WORK INDICATED ON PLANS AND TO PERFORM REQUIRED COMPACTION OPERATIONS. CONTRACTOR

TO PROVIDE TESTING CONSULTANT TO VERIFY DENSITY REQUIREMENTS FOR SUBGRADE.

- 3. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS INCLUDING REQUIREMENTS SET FORTH BY OSHA SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
- 4. NO EQUIPMENT OR MATERIAL STORAGE IS PERMITTED WITHIN THE ROAD RIGHT-OF-WAY.
- 5. CONTRACTOR'S MANNER AND METHOD OF INGRESS AND EGRESS WITH RESPECT TO THE PROJECT AREA SHALL IN NO WAY PROHIBIT OR DISTURB NORMAL PEDESTRIAN OR VEHICULAR TRAFFIC IN THE VICINITY AND IS SUBJECT TO REGULATION AND WRITTEN APPROVAL OF APPROPRIATE GOVERNING AGENCIES.
- 6. RESTORE ALL STREET SURFACES. DRIVEWAYS. CULVERTS. ROADSIDE DRAINAGE DITCHES. AND OTHER PUBLIC OR PRIVATE STRUCTURES THAT ARE DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS AND TO THE SATISFACTION OF THOSE HAVING JURISDICTION.
- 7. CONTRACTOR SHALL PULL EROSION CONTROL PERMIT FROM GOVERNING AGENCY AND SET TEMPORARY EROSION CONTROL MEASURES AS INDICATED ON THESE DOCUMENTS PRIOR TO BEGIN OF ANY DEMOLITION OR EARTHWORK.
- 8. THE CONTRACTOR SHALL NOTIFY MISS DIG (811) THREE (3) WORKING DAYS PRIOR TO STARTING ANY EXCAVATION WITH POWER EQUIPMENT.
- 9. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL CONSTRUCTION LAYOUT AND GRADE ELEVATIONS FOR THEIR WORK IN ACCORDANCE WITH DATA SHOWN ON DOCUMENTS.
- 10. EXCAVATED AREAS WITHIN PROPOSED BUILDING AND PAVEMENT AREAS SHALL BE BACKFILLED TO FINISHED SUBGRADE ELEVATION WITH STRUCTURAL FILL (MDOT CLASS II SAND). THE SAND SHALL BE COMPACTED IN CONTINUOUS LAYERS NOT EXCEEDING 8 INCH LOOSE LIFTS. COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ANSI/ASTM D 1557 MODIFIED PROCTOR.
- 11. COORDINATES AND/OR DIMENSIONS SHOWN ON THIS DOCUMENT ARE TO BACK OF CURB. OUTSIDE FACE OF BUILDING FOUNDATIONS. EDGE OF PAVEMENT. CENTER OF STRUCTURE. CENTERLINE OF STRIPING UNLESS NOTED OTHERWISE.
- 12. NO DIMENSIONS SHALL BE SCALED OFF THE DOCUMENTS. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.
- 13. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS. SLAB AND UNDERBED THICKNESS.

LAND USE INFORMATION:

CURRENT ZONING: PROPOSED ZONING: CURRENT USE: PROPOSED USE: TOTAL SITE AREA:

FORMER GAS STATION (CLOSED) GAS STATION / CONVENIENCE STORE 55.000 SF. 1.26 AC. TOTAL BUILDING AREA: 2.536 SF LOT COVERAGE BY BLDG: 5.0%

YARD SETBACKS:

BUILDING FRONT YARD 25LF SIDE YARD REAR YARD 42LF 52LF

HIGHWAY COMMERCIAL (C-4)

HIGHWAY COMMERCIAL (C-4)

	PARKING DATA:		
USE	REQUIREMENTS	PARK ING REQUIRED	PARK ING PROVIDED
GAS STATION (SELF SERVE)	1 SPACE + 1 SPACE PER EMPLOY. 1 + 3 =	4 SPACES	14 SPACES
RETAIL STORE (MINIMARKET)	1 SPACE PER 150 SF OF UFA 1.132 SF / 150 =	8 SPACES	14 SPACES
BARRIER FREE (TOTAL)	1 - 25 SPACES	1 SPACE	1 SPACE
TOTAL		12 SPACES	14 SPACES
OADING /	LOADING/UNLOADING FOR LIQUID FUELS. 50'x 10'AREA	500 SF	500 SF
JNL OAD ING	FOR SALE OF CONVENIENCE ITEMS 10 SF PER EACH FRONT FOOT OF BLDG. = 10 (57.5) =	575 SF	600 SF

MARKING / SIGNAGE LEGEND:

- 1) STOP SIGN (R1-1)
- 2 ACCESSIBLE SIGN W/ VAN ACCESSIBLE (R7-8 & R7-8A)
- (3) NO PARKING FIRE LANE
- NO PARKING / NO DRIVING AREAS 4" WIDE WHITE PAINT STRIPING 2' ON CENTER @ 45°. REFER TO PAVEMENT MARKING NOTE #2 FOR BARRIER FREE PARKING

PAVEMENT MARKING & SIGNAGE NOTES:

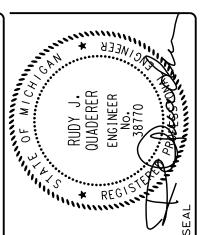
- 1. PARKING STALL WIDTH DIMENSIONS ARE TO CENTERLINE OF STRIPING.
- 2. ALL PAVEMENT MARKINGS SHALL BE 4" WIDE WHITE PAINT STRIPING UNLESS OTHERWISE INDICATED. ALL BARRIER FREE STRIPING SHALL BE COLORED BLUE AND IN ACCORDANCE WITH THE LATEST ADA STANDARDS FOR ACCESSIBLE DESIGN.
- 3. CONTRACTOR SHALL NOT APPLY TRAFFIC MARKING PAINT ON NEW ASPHALT UNTIL PAVEMENT HAS CURED A MINIMUM OF SEVEN (7) DAYS.
- 4. PAINT SHALL BE APPLIED WITH MECHANICAL EQUIPMENT TO PRODUCE UNIFORM STRAIGHT EDGES. APPLY IN TWO COATS AT MANUFACTURER'S RECOMMENDED RATES TO PROVIDE MINIMUM 10.0 TO 15.0 MILS WET THICKNESS.
- 5. ALL TRAFFIC CONTROL SIGNS SHALL CONFORM WITH ALL REQUIREMENTS AS STIPULATED IN THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 6. 5 NUMBER OF PARKING SPACES (FOR INFORMATION ONLY)

PAVEMENT LEGEND:

ASPHALT PAVEMENT SECTION (ON-SITE) RE:

CONCRETE PAVEMENT SECTION RE:





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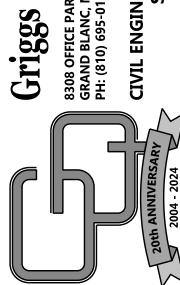
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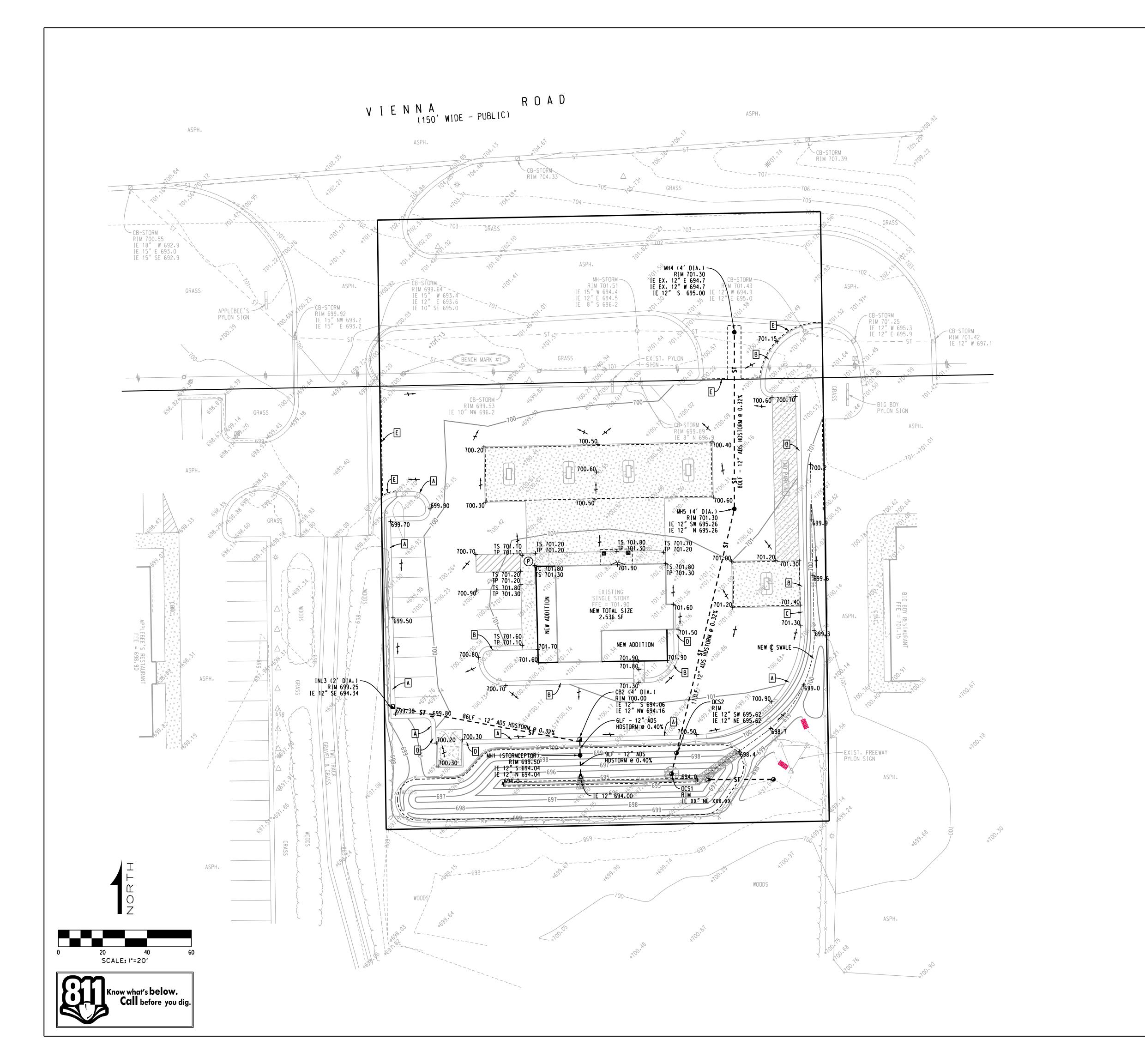
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GRADING NOTES:

- 1. ALL PROPOSED SPOT ELEVATIONS IN PAVED AREAS ARE TO TOP OF PAVEMENT UNLESS NOTED OTHERWISE. TS TOP OF SIDEWALK TP TOP OF PAVEMENT
- 2. CONTOURS SHOWN ARE FOR REFERENCE ONLY. BASE CONSTRUCTION EFFORTS ON PROPOSED SPOT ELEVATIONS ONLY.
- 3. "BARRIER FREE" PARKING AND SIDEWALK RAMPS SHALL CONFORM IN ALL RESPECTS TO THE MICHIGAN ADA (AMERICANS WITH DISABILITIES ACT) REQUIREMENTS.
- 4. CONTRACTOR SHALL ADJUST ANY UTILITY ELEMENT/STRUCTURE MEANT TO BE FLUSH WITH GRADE (CLEAN OUT. VALVE BOXES, MANHOLES, CATCH BASINS, INLETS, ETC.) WHICH ARE AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT. NO ADDITIONAL COSTS FOR THIS WORK WILL BE ACCEPTED. THE CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS FOR ADJUSTMENT AT THE CONTRACTOR'S EXPENSE.
- 5. CONTRACTOR IS RESPONSIBLE FOR CUT AND FILL QUANTITIES. ADDITIONAL COMPENSATION WILL NOT BE ACCEPTED FOR HAULING OF EXCESS AND BORROW MATERIAL TO AND FROM SITE AS WELL AS LABOR COSTS FOR PLACEMENT AND/OR REMOVAL. OFF-SITE BORROW MATERIAL MUST BE CLEAN COMPACTIBLE STRUCTURAL FILL MATERIAL (NO ORGANIC MATERIAL) WHICH WILL BE INSPECTED PRIOR TO USE FOR ON-SITE FILL
- 6. SITE CONTRACTOR IS RESPONSIBLE TO PROVIDE A STABLE SUBGRADE AT DESIGN ELEVATIONS. ALL PAVED AREAS INCLUDING BUILDING PAD SHALL BE PROOFROLLED & COMPACTED TO MEET 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ANSI/ASTM D1557.
- CONTRACTOR SHALL STORE SUFFICIENT TOPSOIL MATERIAL ON-SITE FOR RE-USE IN ALL DISTURBED GREEN AREAS AND NEW LANDSCAPE AREAS.
- 8. PROVIDE POSITIVE DRAINAGE AT ALL TIMES TO ENSURE NO STANDING WATER. MAINTAIN A MINIMUM SLOPE OF 1.00% IN ALL NEW BITUMINOUS AREAS.

CURB. GRADING & SIDEWALK RAMP NOTATIONS:

- A STANDARD CURB AND GUTTER
- B STANDARD CURB AND GUTTER WITH REVERSE SLOPE
- C 10 FOOT TRANSITION BETWEEN TYPE A AND TYPE B
- D 5 FOOT CURB END TRANSITION.
- E MATCH EXISTING PAVEMENT OR CURB ELEVATION.

P TYPE P RAMP, PER MDOT DETAIL R-28-J

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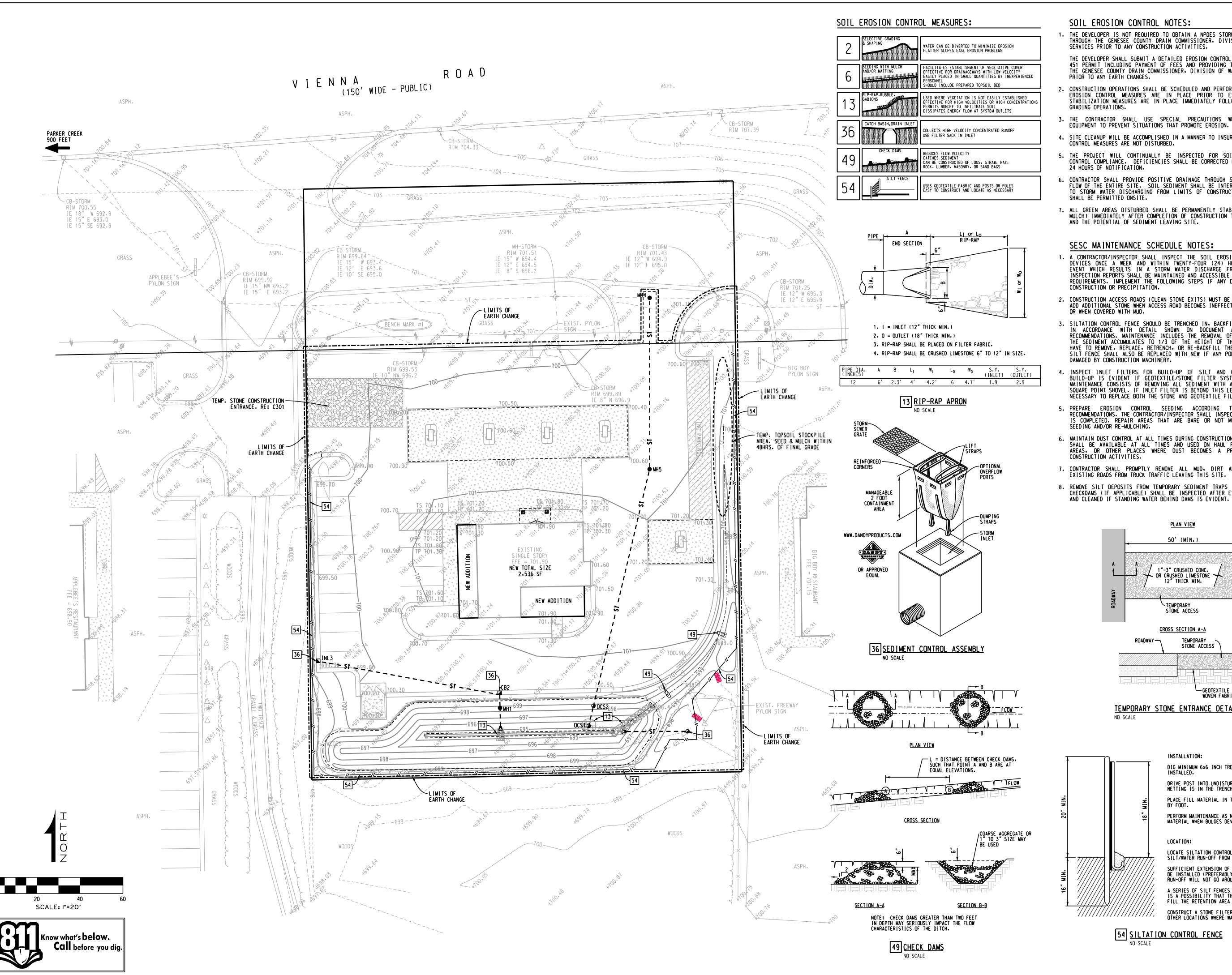
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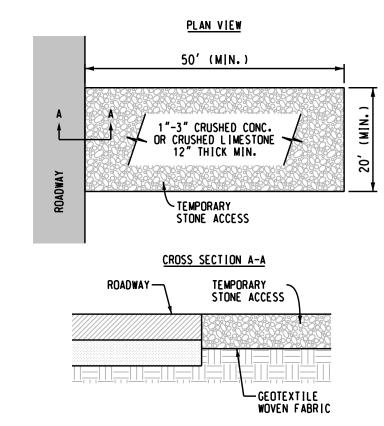


SOIL EROSION CONTROL NOTES:

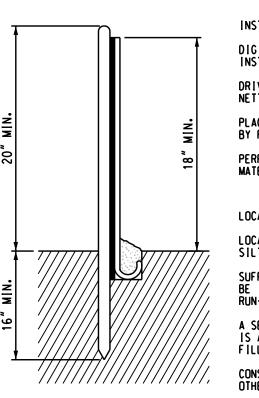
- THE DEVELOPER IS NOT REQUIRED TO OBTAIN A NPDES STORM WATER DISCHARGE PERMIT THROUGH THE GENESEE COUNTY DRAIN COMMISSIONER, DIVISION OF WATER AND WASTE SERVICES PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- THE DEVELOPER SHALL SUBMIT A DETAILED EROSION CONTROL PLAN AND OBTAIN AND ACT 451 PERMIT INCLUDING PAYMENT OF FEES AND PROVIDING THE NECESSARY BONDS FROM THE GENESEE COUNTY DRAIN COMMISSIONER, DIVISION OF WATER AND WASTE SERVICES, PRIOR TO ANY EARTH CHANGES.
- CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING AND/OR GRADING OPERATIONS.
- THE CONTRACTOR SHALL USE SPECIAL PRECAUTIONS WHEN USING CONSTRUCTION
- 4. SITE CLEANUP WILL BE ACCOMPLISHED IN A MANNER TO INSURE THAT TEMPORARY EROSION CONTROL MEASURES ARE NOT DISTURBED.
- 5. THE PROJECT WILL CONTINUALLY BE INSPECTED FOR SOIL EROSION AND SEDIMENT CONTROL COMPLIANCE. DEFICIENCIES SHALL BE CORRECTED BY THE CONTRACTOR WITHIN
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE THROUGH SWALES OR OVERLAND SHEET FLOW OF THE ENTIRE SITE. SOIL SEDIMENT SHALL BE INTERCEPTED AND REMOVED PRIOR TO STORM WATER DISCHARGING FROM LIMITS OF CONSTRUCTION. NO STANDING WATER
- 7. ALL GREEN AREAS DISTURBED SHALL BE PERMANENTLY STABILIZED (TOPSOIL, SEED & MULCH) IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION TO MINIMIZE SOIL EROSION AND THE POTENTIAL OF SEDIMENT LEAVING SITE.

SESC MAINTENANCE SCHEDULE NOTES:

- 1. A CONTRACTOR/INSPECTOR SHALL INSPECT THE SOIL EROSION AND SEDIMENT CONTROL DEVICES ONCE A WEEK AND WITHIN TWENTY-FOUR (24) HOURS OF A PRECIPITATION EVENT WHICH RESULTS IN A STORM WATER DISCHARGE FROM THE SITE. A LOG OF INSPECTION REPORTS SHALL BE MAINTAINED AND ACCESSIBLE IN ACCORDANCE WITH NPDES REQUIREMENTS. IMPLEMENT THE FOLLOWING STEPS IF ANY DAMAGE HAS RESULTED FROM CONSTRUCTION OR PRECIPITATION.
- 2. CONSTRUCTION ACCESS ROADS (CLEAN STONE EXITS) MUST BE MAINTAINED AS NECESSARY. ADD ADDITIONAL STONE WHEN ACCESS ROAD BECOMES INEFFECTIVE DUE TO LOSS OF STONE OR WHEN COVERED WITH MUD.
- 3. SILTATION CONTROL FENCE SHOULD BE TRENCHED IN. BACKFILLED. STAPLED AND STAKED IN ACCORDANCE WITH DETAIL SHOWN ON DOCUMENT AND PER MANUFACTURER'S RECOMMENDATIONS. MAINTENANCE INCLUDES THE REMOVAL OF BUILT-UP SEDIMENT WHEN THE SEDIMENT ACCUMULATES TO 1/3 OF THE HEIGHT OF THE FENCE. CONTRACTOR MAY HAVE TO REMOVE. REPLACE. RETRENCH. OR RE-BACKFILL THE FENCE IF IT FAILS. THE SILT FENCE SHALL ALSO BE REPLACED WITH NEW IF ANY PORTION OF THE FENCING WAS DAMAGED BY CONSTRUCTION MACHINERY.
- 4. INSPECT INLET FILTERS FOR BUILD-UP OF SILT AND OTHER DEBRIS. EXCESSIVE BUILD-UP IS EVIDENT IF GEOTEXTILE/STONE FILTER SYSTEM IS CAUSING FLOODING. MAINTENANCE CONSISTS OF REMOVING ALL SEDIMENT WITH A STIFF BRISTLE BROOM OR SOUARE POINT SHOVEL. IF INLET FILTER IS BEYOND THIS LEVEL OF REPAIR. IT MAY BE NECESSARY TO REPLACE BOTH THE STONE AND GEOTEXTILE FILTER FABRIC.
- 5. PREPARE EROSION CONTROL SEEDING ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR/INSPECTOR SHALL INSPECT THE AREA AFTER SEEDING IS COMPLETED. REPAIR AREAS THAT ARE BARE OR NOT MULCHED PROPERLY BY SPOT SEEDING AND/OR RE-MULCHING.
- 6. MAINTAIN DUST CONTROL AT ALL TIMES DURING CONSTRUCTION. SPRINKLING TANK TRUCKS SHALL BE AVAILABLE AT ALL TIMES AND USED ON HAUL ROADS. ON-SITE DISTURBED AREAS. OR OTHER PLACES WHERE DUST BECOMES A PROBLEM AS A RESULT OF CONSTRUCTION ACTIVITIES.
- 7. CONTRACTOR SHALL PROMPTLY REMOVE ALL MUD. DIRT AND DEBRIS TRACKED ONTO EXISTING ROADS FROM TRUCK TRAFFIC LEAVING THIS SITE.
- 8. REMOVE SILT DEPOSITS FROM TEMPORARY SEDIMENT TRAPS WHEN TRAP IS HALF FULL. CHECKDAMS (IF APPLICABLE) SHALL BE INSPECTED AFTER EVERY PRECIPITATION EVENT AND CLEANED IF STANDING WATER BEHIND DAMS IS EVIDENT.



TEMPORARY STONE ENTRANCE DETAIL NO SCALE

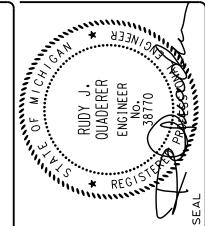


DIG MINIMUM 6x6 INCH TRENCH WHERE FENCE IS TO BE DRIVE POST INTO UNDISTURBED SOIL UNTIL SUPPORT NETTING IS IN THE TRENCH. PLACE FILL MATERIAL IN TRENCH ON FABRIC FLAP AND TAMP PERFORM MAINTENANCE AS NEEDED. REMOVE ACCUMULATED MATERIAL WHEN BULGES DEVELOP IN THE SILT FENCE.

LOCATE SILTATION CONTROL FENCE TO INTERCEPT ALL SILT/WATER RUN-OFF FROM THE SITE. SUFFICIENT EXTENSION OF EACH FENCE SECTION SHOULD BE INSTALLED (PREFERABLY UPHILL) TO ENSURE RUN-OFF WILL NOT GO AROUND THE ENDS. A SERIES OF SILT FENCES MAY BE REQUIRED IF THERE IS A POSSIBILITY THAT THE VOLUME OF RUNOFF COULD ILL THE RETENTION AREA AND FLOW OVER THE FENCE.

CONSTRUCT A STONE FILTER BERM AT LOW POINTS OR OTHER LOCATIONS WHERE WATER WILL LEAVE THE SITE.

54 SILTATION CONTROL FENCE NO SCALE



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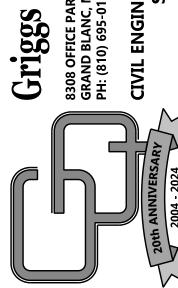
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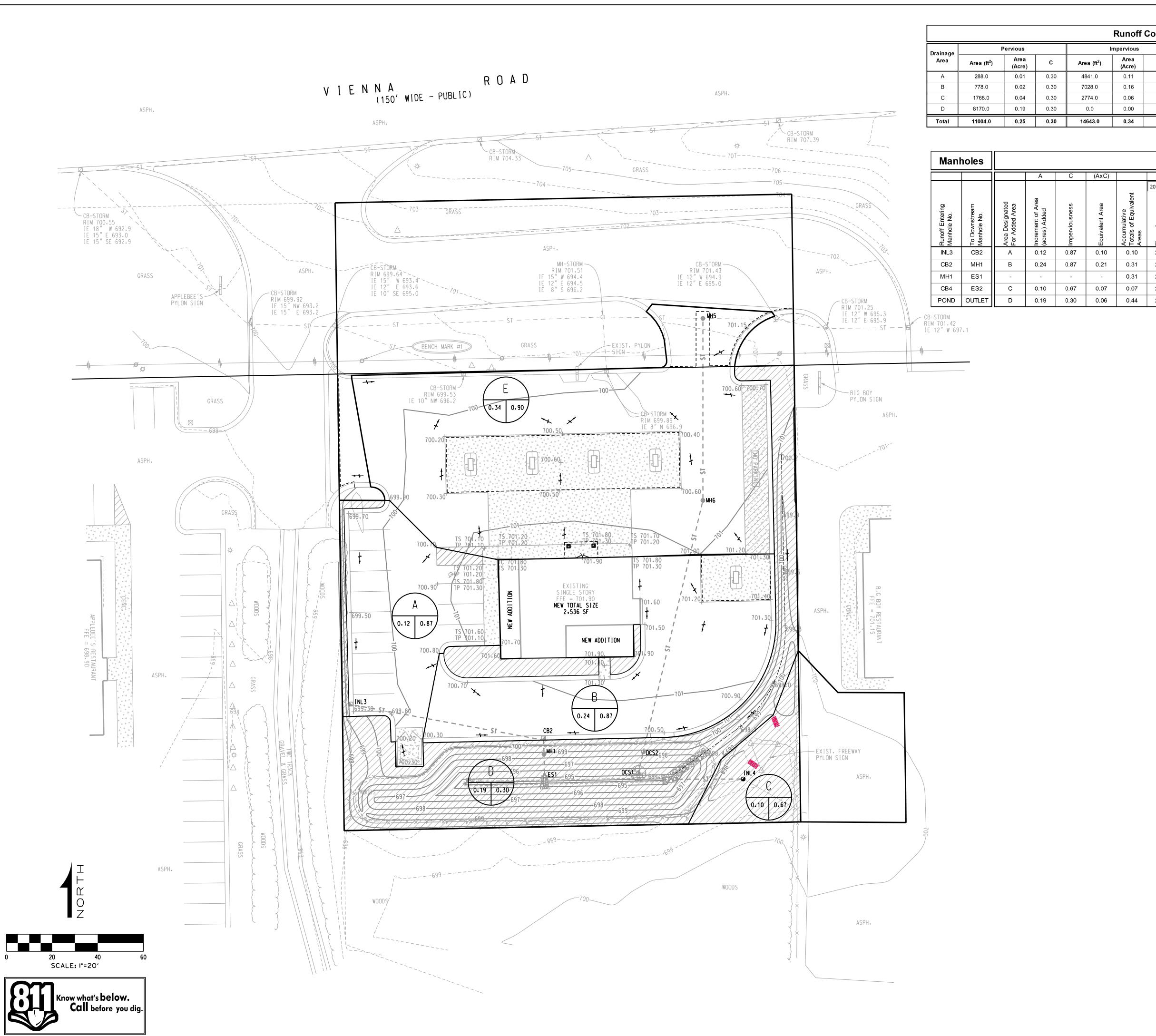
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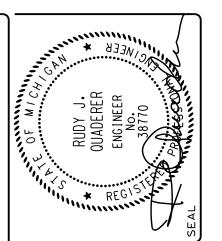
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Runoff Coefficient Calculations													
Drainage	i	Pervious		I	mpervious		F	Roof Top			Runoff		Drainage
Area	Area (ft²)	Area (Acre)	С	Area									
А	288.0	0.01	0.30	4841.0	0.11	0.90	0.0	0.00	0.95	5129.0	0.12	0.87	Α
В	778.0	0.02	0.30	7028.0	0.16	0.90	2536.0	0.06	0.95	10342.0	0.24	0.87	В
С	1768.0	0.04	0.30	2774.0	0.06	0.90	0.0	0.00	0.95	4542.0	0.10	0.67	С
D	8170.0	0.19	0.30	0.0	0.00	0.90	0.0	0.00	0.95	8170.0	0.19	0.30	D
Total	11004.0	0.25	0.30	14643.0	0.34	0.90	2536.0	0.06	0.95	28183.0	0.65	0.67	Total

Manl	holes						Sto	orm De	sign						
			Α	С	(AxC)		t	I	Q	D	S	L	V		Q
Runoff Entering Manhole No.	To Downstream Manhole No.	Area Designated For Added Area	Increment of Area (acres) Added	Imperviousness	Equivalent Area	Accumulative Totals of Equivalent Areas	Time of min min or concentration (min)	10yr. Rainfall Intensity (in. / hr.)	Quantity of Rainfall (cfs)	Diameter (inch) of Pipe Out of Manhole	Slope (%) of Individual Gradient	Length (ft) of Line Between M.H.'s	Velocity (ft/s) Flowing Full	Time (min) of Flow to Next M.H.	Discharge Capactiy (cfs)
INL3	CB2	Α	0.12	0.87	0.10	0.10	20.00	3.80	0.38	12 in.	0.32%	87	2.79	0.52	2.19
CB2	MH1	В	0.24	0.87	0.21	0.31	20.52	3.76	1.16	12 in.	0.32%	6	2.79	0.04	2.19
MH1	ES1	-	-	-	-	0.31	20.56	3.75	1.16	12 in.	0.32%	9	2.79	0.05	2.19
CB4	ES2	С	0.10	0.67	0.07	0.07	20.00	3.80	0.27	12 in.	0.32%	30	2.79	0.18	2.19
POND	OUTLET	D	0.19	0.30	0.06	0.44	20.61	3.75	1.65	12 in.	0.32%	193	2.79	1.15	2.19

De	etentior	Capac i	ity
	Average E	nd Method	
Contour	Area (ft²)	Volume (ft ³)	Total Volume (ft³)
694	74.0		0
Average	229.5	230	
695	385.0		230
Average	704.0	704	
696	1023.0		934
Average	1354.5	1355	
697	1686.0		2288
Average	2142.0	2142	
698	2598.0		4430
Average	3182.5	3183	
699	3767.0	7613	
Average	4178.5	4179	
700	4590.0	11791	
Total I	Detention C	apacity	11791
Requi	rement A (Vo	olume)	1380
Requir	ement A (Ele	evation)	696.63
Requi	rement B (V	olume)	2956
Requir	ement B (Ele	evation)	697.49
Requi	rement C (Vo	olume)	4544
Requir	ement C (Ele	evation)	698.05

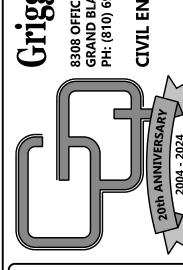


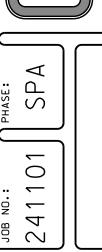
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4465 VIENNA ROAD	CHECK
VIENNA TOWNSHIP, COUNTY OF GENESEE, STATE OF MICHIGAN	FIEL

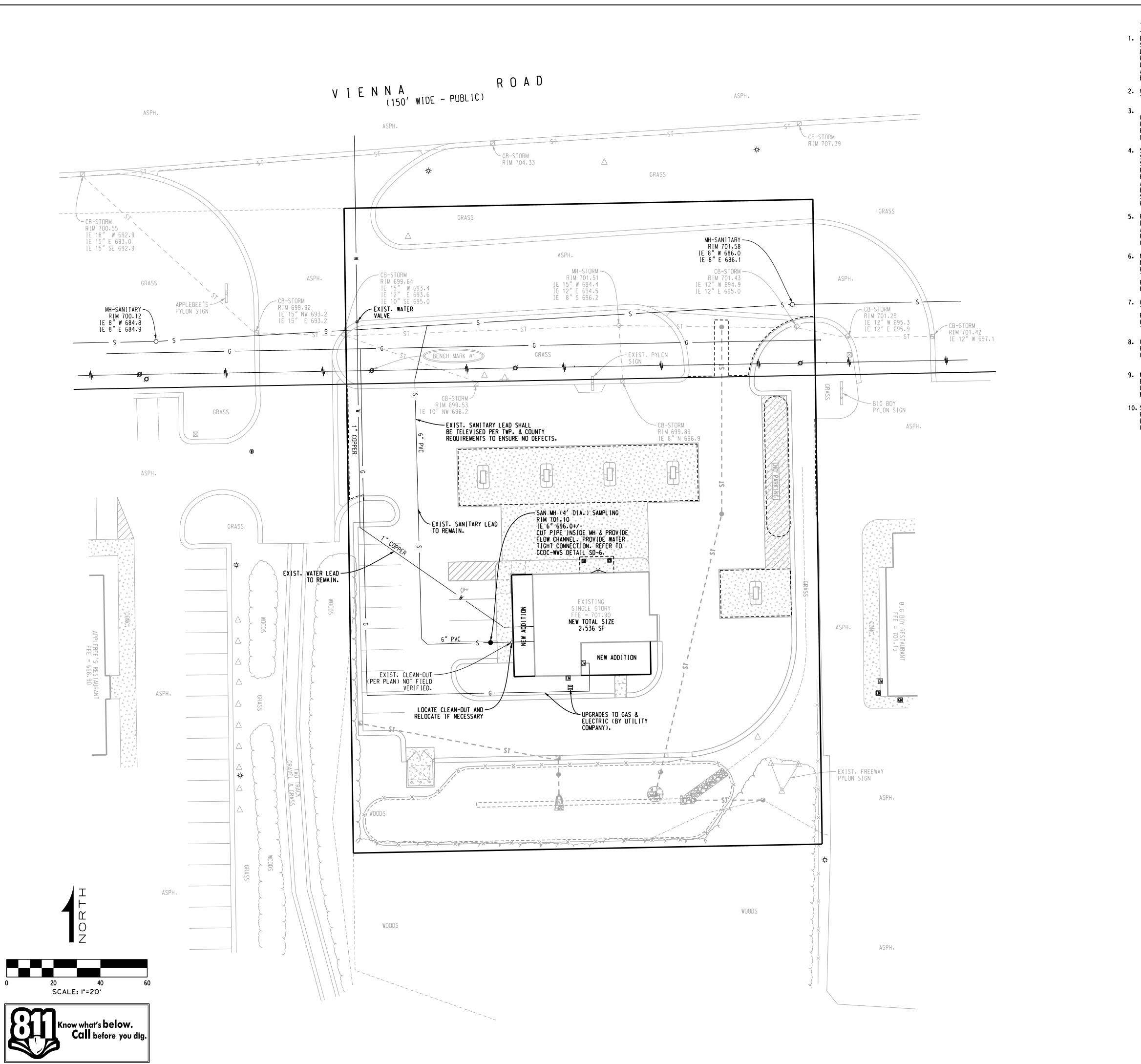
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8308 OFFICE PARK DRIVE WWW.GQINCORP.C
GRAND BLANC, MI 48439 RUDY@GQINCORP.C
PH: (810) 695-0154 CHRIS@GQINCORP.C
CIVIL ENGINEERING - LAND SURVEYII





(30)



10 STANDARD NOTES (7th EDITION):

1. EXTENSION OF PUBLIC UTILITIES: ALL PUBLIC SANITARY SEWER AND/OR WATERMAIN SHALL BE EXTENDED TO THE FURTHEST LIMITS OF THE PROPERTY. INCLUDING CORNER LOTS. WITH THE PIPE SIZE AND MATERIAL APPROVED BY GCDC-WWS. THIS IS NECESSARY FOR PLAN APPROVAL. FOR WATER SERVICE OF 1" OR LESS OR A BUILDING ON A CORNER LOT. THE REQUIREMENTS TO EXTEND THE PUBLIC WATERMAIN AND/OR SANITARY SEWER ALONG BOTH PROPERTY LINES WILL BE REVIEWED. FINAL DETERMINATION SHALL BE MADE

2. WATERMAIN LOOPING: ALL PUBLIC WATERMAINS SHALL BE LOOPED WHENEVER POSSIBLE. THE PIPE SIZING SHALL BE APPROVED BY GCDC-WWS.

3. INDUSTRIAL PRETREATMENT PROGRAM (IPP): THIS PERMIT IS REQUIRED FOR ALL COMMERCIAL AND INDUSTRIAL DISCHARGES. THE OWNER SHALL OBTAIN AN INDUSTRIAL PRETREATMENT DISCHARGE PERMIT PRIOR TO THE ISSUANCE OF A SEWER CONNECTION IN PROGRESS PERMIT. INDUSTRIAL DISCHARGE PERMITS ARE NON-TRANSFERABLE. CHANGES IN FACILITY USE WILL REQUIRE A NEW INDUSTRIAL DISCHARGE PERMIT.

4. SOIL EROSION: THE DEVELOPER SHALL SUBMIT A DETAILED SOIL EROSION AND SEDIMENTATION CONTROL PLAN AND OBTAIN AN ACT 451 PART 91. SOIL EROSION AND SEDIMENTATION CONTROL PERMIT. THIS INCLUDES THE PAYMENT OF FEES AND THE PROVIDING OF NECESSARY BONDS. NO EARTH CHANGES OR EXCAVATION SHALL BE STARTED DEVICE. IN PROGRESS PRIOR TO THE ISSUANCE OF THIS PERMIT. THE DEVELOPER SHALL PROTECT ALL EXISTING AND PROPOSED STORM SEWER FACILITIES ON AND ADJACENT TO THE SITE DURING EXCAVATION AND CONSTRUCTION. ALL SEDIMENT SHALL BE CONTAINED ON SITE. ANY SILT IN COUNTY DRAINS. STORM SEWER. CULVERTS. ETC. AS A RESULT OF THIS PROJECT. SHALL BE REMOVED BY THE DEVELOPER AT THE COST OF THE DEVELOPER.

5. FLOOD PLAIN OR WETLAND CONSTRUCTION: THE DEVELOPER SHALL APPLY TO THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES AND ENERGY (EGLE) FOR A PERMIT FOR THE ALTERATION AND/OR OCCUPATION OF A FLOOD PLAIN OR FLOODWAY, AS REQUIRED UNDER PA 451. EVIDENCE OF THIS PERMIT MAY BE REQUIRED PRIOR TO PLAN APPROVAL BY GCDC-WWS.

6. NPDES STORM WATER DISCHARGE PERMIT: THE OWNER OF THE PROPERTY SHALL OBTAIN A NPDES STORM WATER DISCHARGE PERMIT FOR CONSTRUCTION ACTIVITIES FROM EGLE AS REQUIRED UNDER PUBLIC ACT 451. THE NOTICE OF COVERAGE FORM SHALL BE SUBMITTED N/A THROUGH GCDC-WWS WITH THE SOIL EROSION CONTROL PERMIT APPLICATION. ALL EGLE FEES SHALL ACCOMPANY THE NOTICE OF COVERAGE. EVIDENCE OF THIS PERMIT MAY BE REQUIRED PRIOR TO PLAN APPROVAL BY GCDC-WWS.

7. GENESEE COUNTY PERMIT TO CONSTRUCT A PUBLIC UTILITY: AFTER THE APPROVAL OF THIS PRELIMINARY PLAT OR SITE PLAN, THE DEVELOPER SHALL SUBMIT A DETAILED PLAN FOR CONSTRUCTION OF ALL PUBLIC SANITARY SEWER AND WATERMAIN. THE PLANS MUST HAVE GCDC-WWS APPROVAL, AN S-PERMIT ISSUED, AND APPROVAL FROM THE EGLE PRIOR TO BEGINNING OF CONSTRUCTION.

8. GENESEE COUNTY ROAD COMMISSION PERMIT: THE DEVELOPER SHALL OBTAIN A PERMIT FROM THE GENESEE COUNTY ROAD COMMISSION TO PERFORM WORK WITHIN THE GENESEE N/A COUNTY ROAD COMMISSION RIGHT-OF-WAY. ALL FEES FOR THE PERMIT. BONDS AND INSURANCES ARE THE RESPONSIBILITY OF THE DEVELOPER.

9. MUNICIPALITY SANITARY SEWER AND WATER PERMIT: PRIOR TO THE ISSUANCE OF A BUILDING PERMIT BY THE LOCAL MUNICIPALITY. THE DEVELOPER SHALL BE REQUIRED TO IN PROGRESS OBTAIN A SANITARY SEWER AND/OR WATER TAP-IN PERMIT FROM THE LOCAL MUNICIPALITY. IF AUTHORIZED. OR GCDC-WWS.

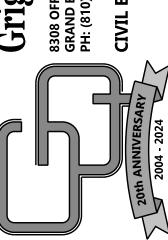
10. STATE CONSTRUCTION PERMITS: THE SANITARY SEWER AND WATERMAIN CONSTRUCTION PERMIT APPLICATION FROM THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES & ENERGY (EGLE) SHALL BE SUBMITTED TO THE EGLE AFTER RECEIVING APPROVAL FROM GCDC-WWS. CONSTRUCTION SHALL NOT BEGIN UNTIL THESE STATE PERMITS ARE ISSUED.

	04-03-25	04-03-25 REISSUED TO VIENNA TWP.
	02-10-25	02-10-25 ISSUED TO VIENNA TWP.
	12-03-24	12-03-24 PRELIM. TOPOGRAPHY
. ON	DATE	SUBJECT
REVI	REVISION OR ISSUE	J.C

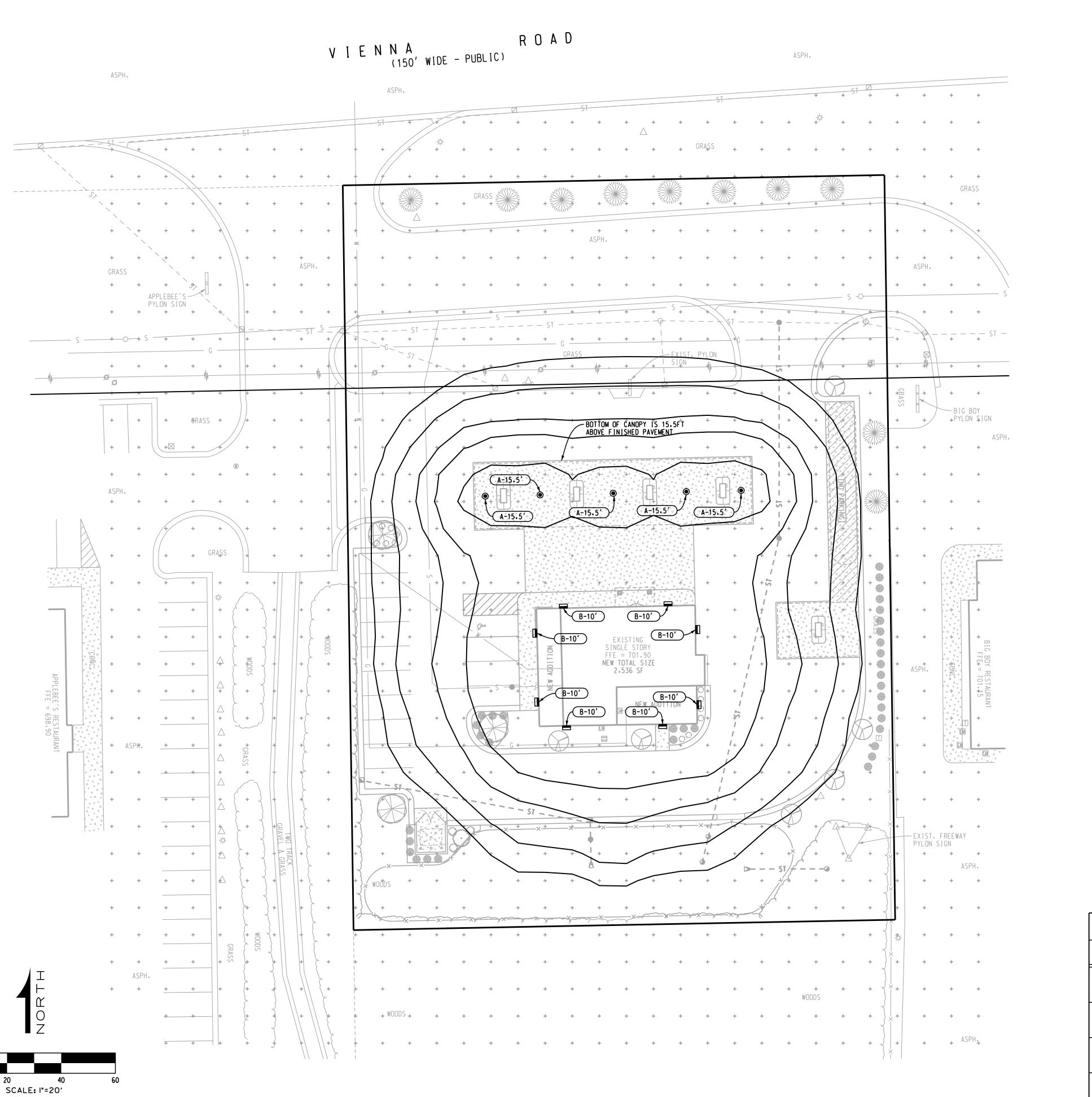
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Griggs Quaderer,



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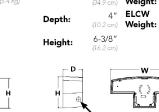




D-Series Size 1 LED Wall Luminaire

NGHTIME facts

Back Box (BBW, ELCW)



The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical

and control options for customized performance. With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

DSXW1-LED Rev. 3/06/19

					exceptionally illuminated.					
Orderi	ng Inforn	nation		EXAM	PLE: D	SXW1 LED 20	OC 1000 40K T3M MVOLT DDBTXD			
DSXW1 LED										
Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options			
DSXW1LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines) 1	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) ¹	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S lype II Short T2M lype II Medium T3S lype III Short T3M lype III Medium T4M lype IV Medium TFTM Forward Throw Medium ASYDF Asymmetric diffuse	MVOLT ² 120 ³ 208 ³ 240 ³ 277 ³ 347 ^{3,4} 480 ^{3,4}	Shipped included (blank) Surface mounting bracket BBW Surface- mounted back box (for conduit entry) 5	Shipped installed PE Photoelectric cell, button type ³ DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) PIR 180° motion/ambient light sensor, <15′ mtg ht ¹⁷ PIRH 180° motion/ambient light sensor, 15-30′ mtg ht ¹⁷ PIR1FG3V Motion/ambient sensor, 8-15′ mounting height, ambient sensor enabled at 1tr. ¹⁷ PIRH1FG3V Motion/ambient sensor, 15-30′ mounting height, ambient sensor enabled at 1tr. ¹⁷ ELCW Energency battery backup (includes external component enclosure), CA (title 20 Noncompliant ⁸⁹			

Shipp	ed installed	Shippe	ed separately 11	DDBXD	Dark bronze	DSSXD	Sandstone	DWHGXD	Textured white	
SF	Single fuse (120, 277 or 347V) 3.10	BSW	Bird-deterrent spikes	DBLXD	Black	DDBTXD	Textured dark bronze	DSSTXD	Textured sandstone	
DF	Double fuse (208, 240 or 480V) 3,10	WG	Wire guard	DNAXD	Natural aluminum	DBLBXD	Textured black			
HS	House-side shield 11	VG	Vandal guard	DWHXD	White	DNATXD	Textured natural aluminum			
SPD	Separate surge protection 12	DDL	Diffused drop lens							
				I						
	Accessics	NOTES								

	cessories	NC 1	200
DSX WHS U	House-side shield (one per light engine)	2 3 4 5	Sin Or Ba
DSXWBSW U DSXW1WG U	Bird-deterrent spikes Wire guard accessory	6 7	Phe
DSXWTVG U	Vandal guard accessory	8	Co vol No
		10	No

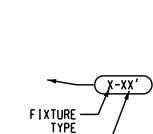
LITHONIA LIGHTING.

20C 1000 is not available with PIR, PIRH, PIR1FC3V or PIRH1FC3V.

MVCIIT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH. Back box ships installed on fixture. Cannot be field installed. Canno: be ordered as an accessory.

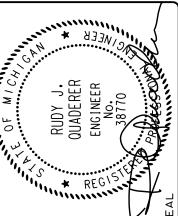
Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH). Photocontrol (PD) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
 Reference Motion Sensor table on page 3.
 Cold weather (20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com
 Not available with SPD.
 Not available with ELCW.
 Also available as a separate accessory; see Accessories information.
 Not available with ELCW

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • www.lithonia.com



	STATISTICAL AREA SUMMARY				
AVG	MAX	MIN	AVG/MIN	MAX/M N	
1.2	5.2	0.1	-	-	

LUMINAIRE SCHEDULE							
QTY	LABEL	ARRANGEMENT	MANUF ACTURER	CATALOG NO.	DESCRIPTION	LAMP	WATTAGE
5	A	SINGLE	L I THON I A	SCNY LED ALO2-4L SWW2-30K PFL MVOLT DWHXD M3	CANOPY MOUNTED DOWNLIGHT	LED	27.3
8	В	SINGLE =	L THON A	DSXW1 P2 30K TFTM	DW-SERIES AREA SIZE 1. WALL MOUNTED. SINGLE (ONE) LIGHT FIXTURE. DOWNLIGHT	LED	14.6



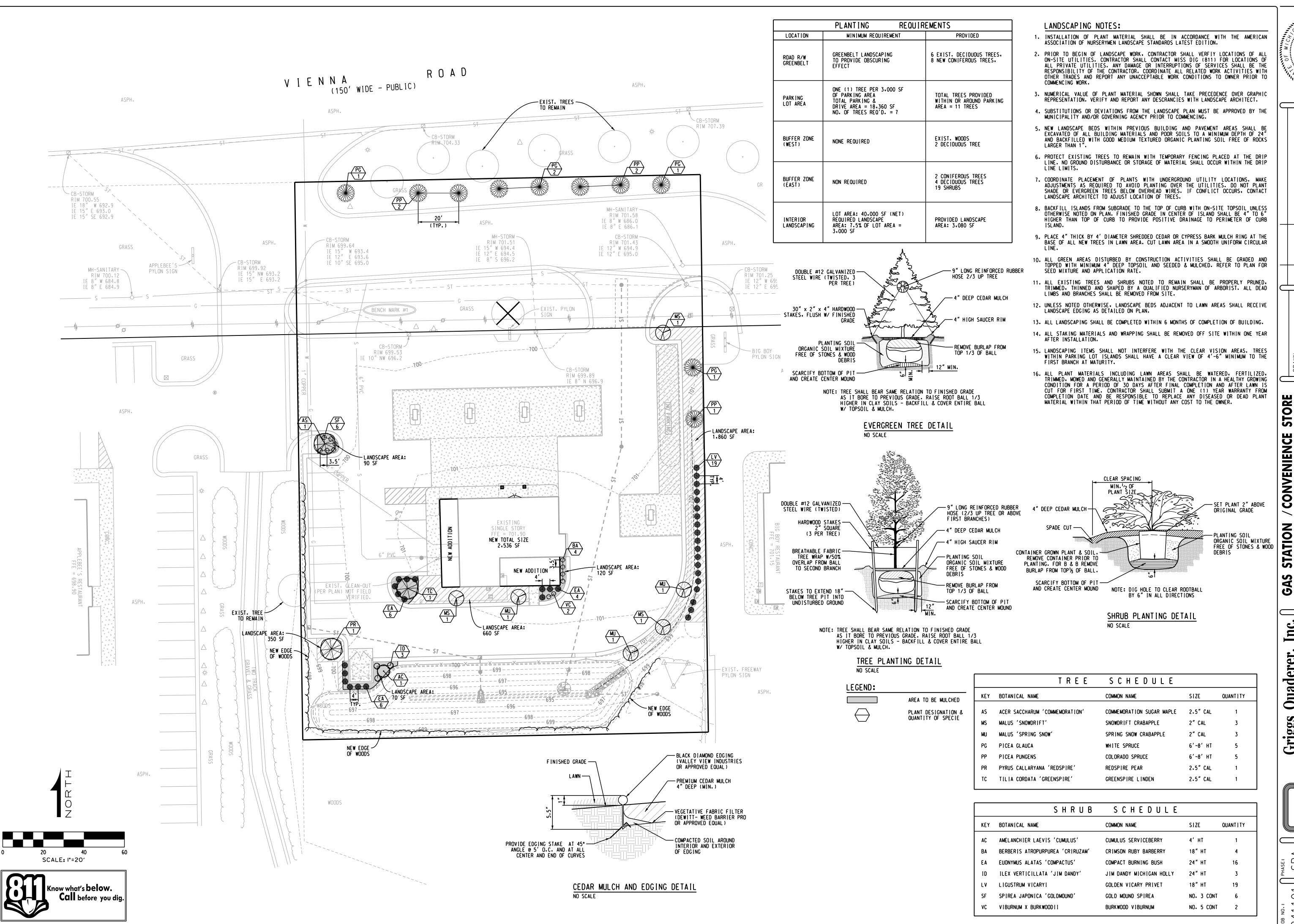
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	TO VIENNA TWP.	O VIENNA TWP.	TOPOGRAPHY	SUBJECT		

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CONVEN	ITION /BLDG	4465 VIENNA ROAD OUNTY OF GENESEE,
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2	2	MEN

Griggs Quaderer,

PHASE: JOB NO.:



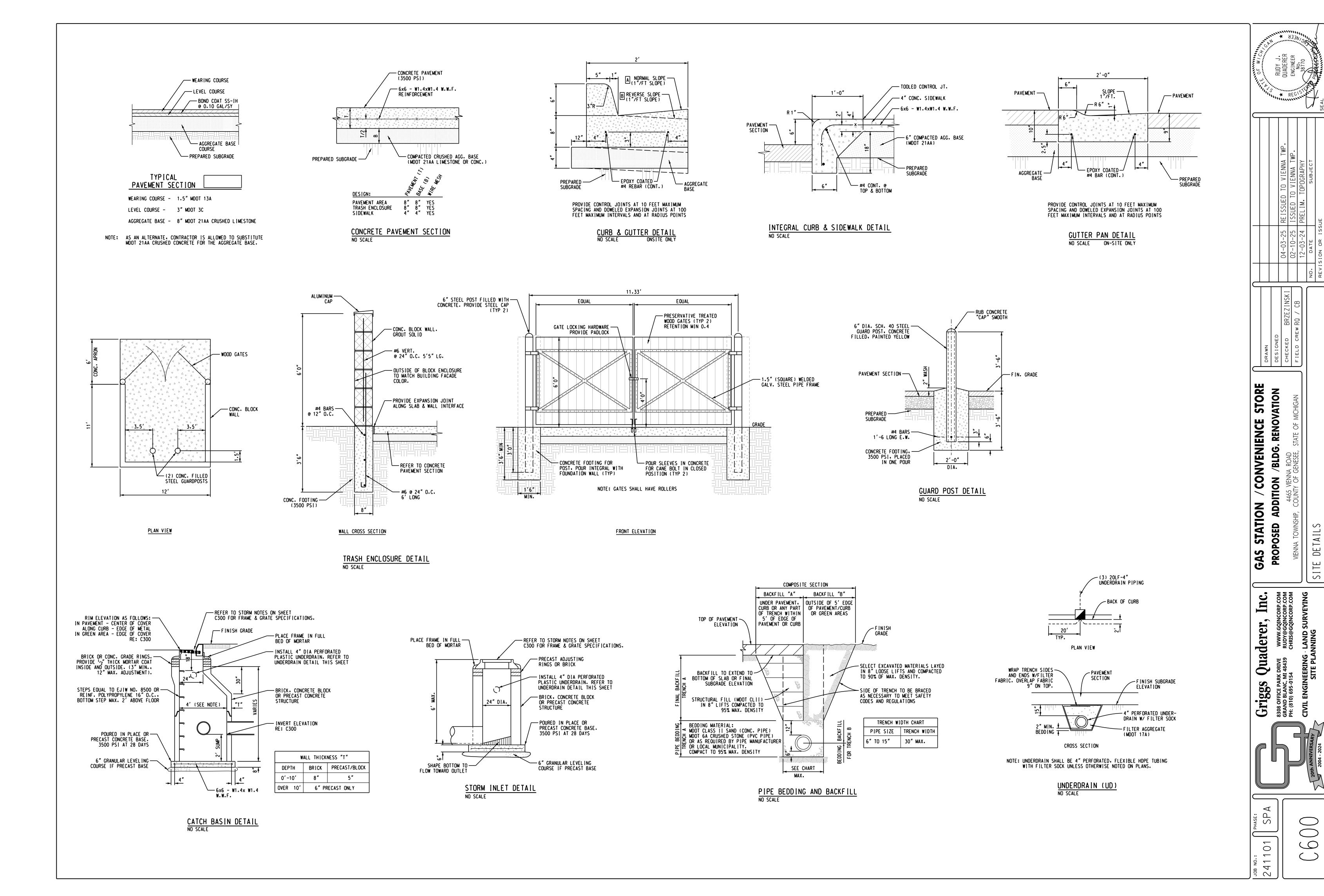
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Quaderer, Griggs

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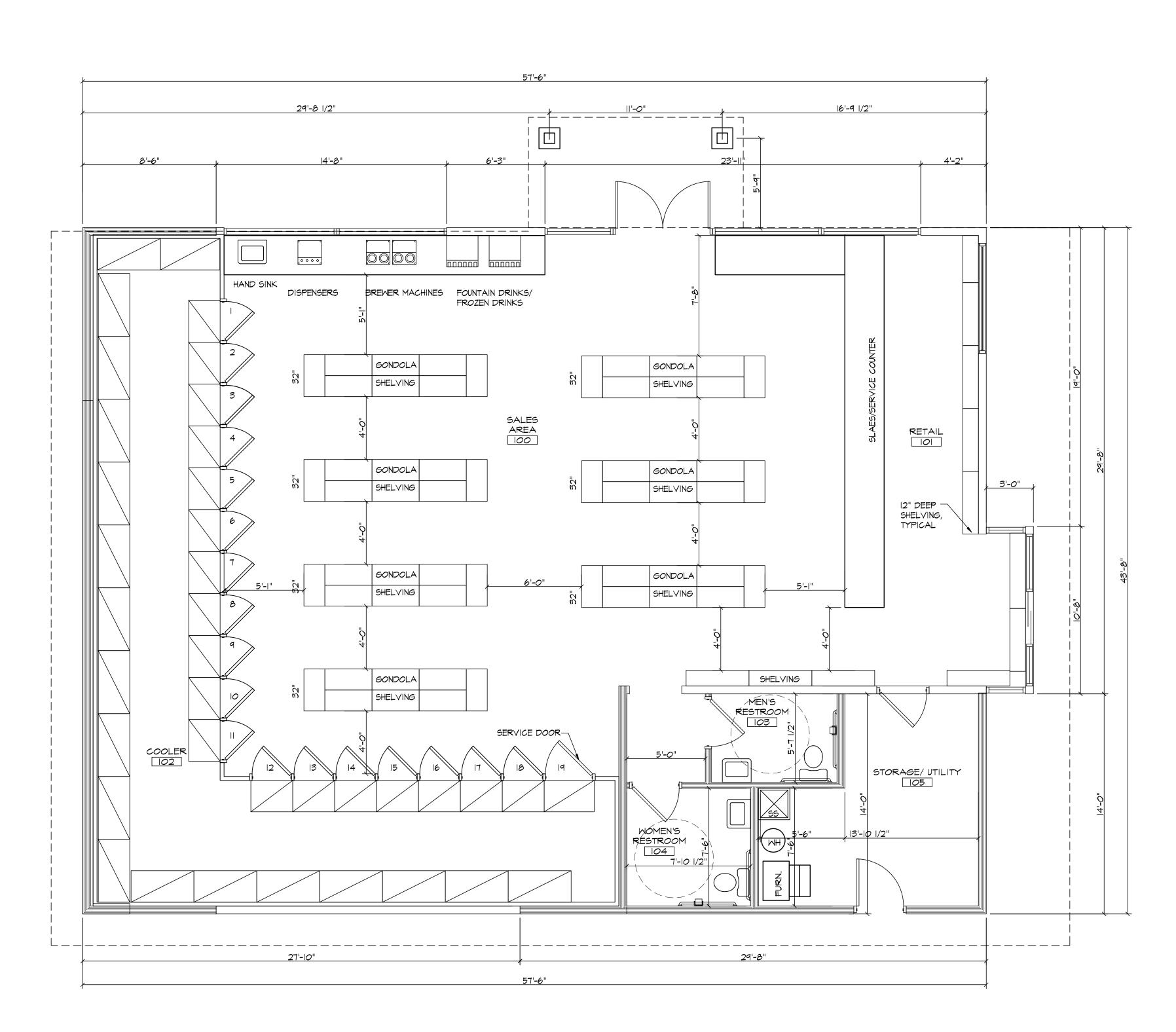
DATE: 2-15-2024

DRAWN BY: JKC

SCALE: AS NOTED

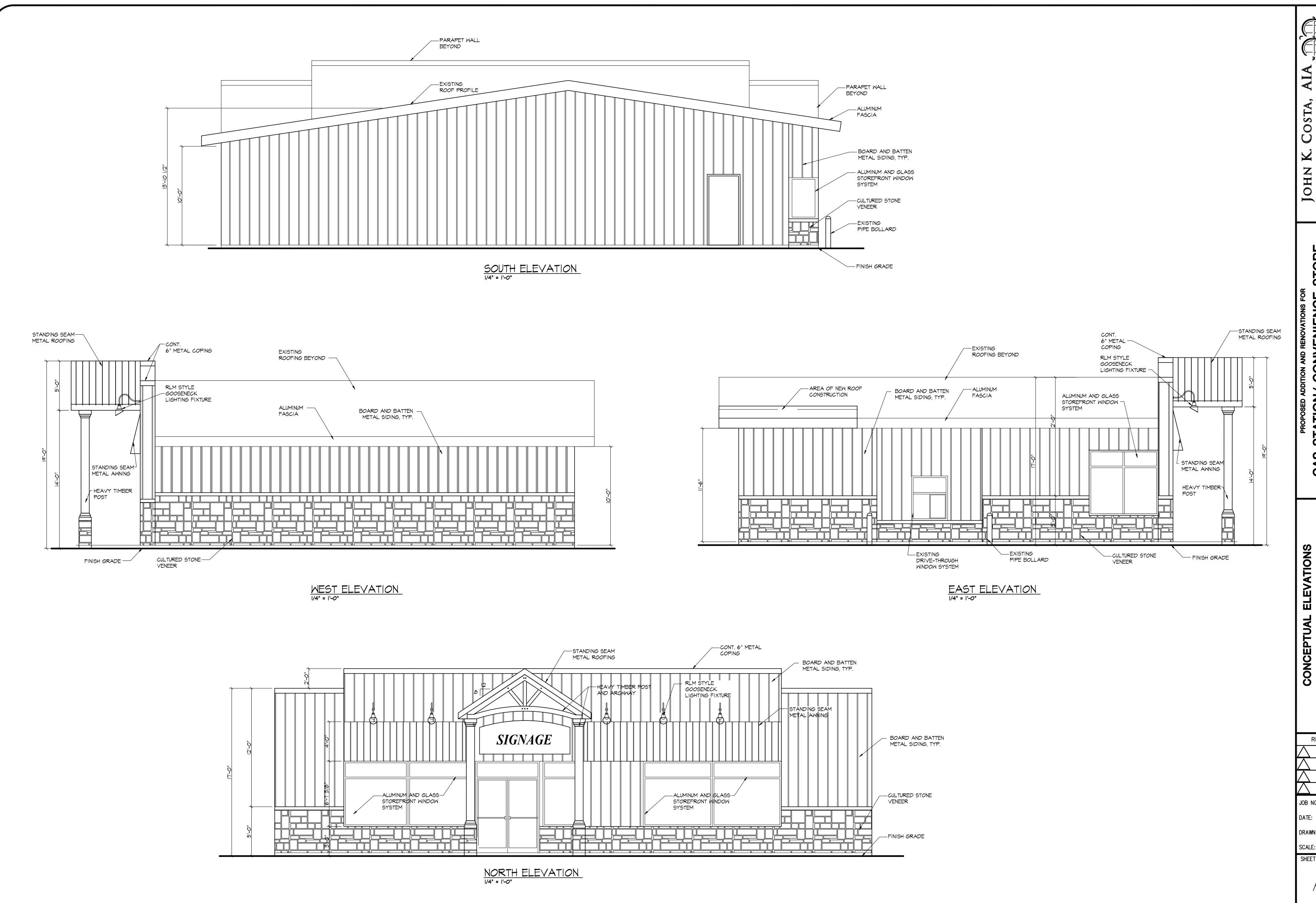
SHEET NO:

A 1





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



JOHN K. COSTA,
ARCHITECTURAL DE
& CONSULTATION,
417 OLD MILL DRIVE
FLUSHING, MICHIGAN 48433 810-65

STATION/ CONVENIENCE STORE 4465 W. VIENNA RD, CLIO MI 48420

REVISIONS JOB NO: 024-010

DATE: 2-15-2024 DRAWN BY: JKC SCALE: AS NOTED

SHEET NO: