

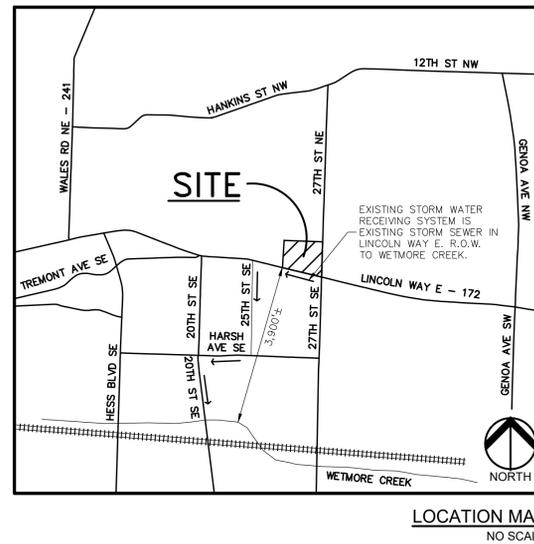
CONSTRUCTION PLANS

THE SPACE SHOP - MASSILLON

2600 LINCOLN WAY E
MASSILLON, STARK COUNTY, OHIO

PERMIT / APPROVAL SUMMARY		
DATE SUBMITTED	DATE APPROVED	PERMIT / APPROVAL

PT OUT LOT 330 & PT OUT LOT 417



SHEET INDEX	
SHEET NUMBER	SHEET TITLE
C-0.0	COVER SHEET
C-1.0	TOPOGRAPHIC SURVEY
C-2.0	DEMOLITION PLAN
C-3.0	SITE PLAN
C-3.1	PAVING PLAN
C-3.2	TRUCK MANEUVERING PLAN
C-3.3	DRIVE DETAILS
C-4.0	GRADING PLAN
C-4.1	DETAIL RESTAURANT GRADING
C-5.0	SESC PLAN
C-5.1	SESC DETAILS
C-6.0	UTILITY PLAN
C-8.0	EXISTING DRAINAGE MAP
C-8.1	STORMWATER MANAGEMENT PLAN
C-8.2	STORM REPORT
C-9.0	NOTES AND DETAILS
C-9.1	NOTES AND DETAILS-2
C-9.2	MASSILLON DETAILS
L-1.0	PRELIMINARY LANDSCAPE PLAN
L-1.1	LANDSCAPE DETAILS
P2.1	ENLARGED FLOOR PLANS
1 OF 1	SITE PHOTOMETRIC PLAN

Approved by the Massillon City Engineer this _____
Day of _____, 20____.

JASON POPIEL, PE

Only approved signed plans by the
City Engineer are to be used for
construction.

DESIGN TEAM

OWNER/APPLICANT/DEVELOPER	CIVIL ENGINEER
STEIN INVESTMENT GROUP 5607 GLENRIDGE DRIVE, SUITE 200 ATLANTA, GA 30342 CONTACT: DANIEL GINBURG PHONE: 404.788.7921 EMAIL: dginburg@steininvest.com	PEA GROUP 2430 ROCHESTER COURT, STE. 100 TROY, MI 48063-1872 CONTACT: JASON SUTTON, PE PHONE: 844.813.2949 EMAIL: JSUTTON@PEAGROUP.COM

ARCHITECT	LANDSCAPE ARCHITECT
PLACE MAKER DESIGN 1000 CIRCLE 75 PARKWAY, SUITE 400 ATLANTA, GA 30339 CONTACT: TIM VACCARO PHONE: 404.549.4499 EMAIL: tvaccaro@placemakerdesign.com	PEA GROUP 7927 MEMCO WAY, STE. 115 BRIGHTON, MI 48116 CONTACT: JANET EVANS, PLA PHONE: 844.813.2949 EMAIL: JEVANS@PEAGROUP.COM



NOTE:

I ACKNOWLEDGE THAT THE IMPERVIOUS FOOTPRINT IS NOT CHANGING AS THE BUILDING WILL BE USED AS IS, THAT THE REDEVELOPMENT CONSTRUCTION IS AT THE PROPOSED RESTAURANT (PARCEL 10014414, ~0.86 ACRES), AND THAT THE CITY ENGINEER DID NOT REQUIRE DETENTION DUE TO THE REDUCTION IN RUNOFF.

I, the undersigned, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

David N Hunter

REVISIONS	
DESCRIPTION	DATE
ORIGINAL ISSUE DATE	7/22/2021
PER CITY REVIEW	9/9/2021
ISSUED FOR CONSTRUCTION	10/15/2021
PER COUNTY COMMENTS	11/3/2021



PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM #2	414009.80	2249614.79	1147.63	"X" ON NORTH SIDE OF LAMP POST
BM #3	414140.66	2249249.36	1149.23	"X" IN S.E. BONNET BOLT OF A FIRE HYDRANT
BM/CTRL #4	414167.65	2248984.62	1148.03	"X" IN WEST END OF CONCRETE DOCK
BM #5	413889.52	2248885.19	1147.66	"X" IN N.E. BOLT OF LAMP POST
BM #6	413682.44	2249484.38	1145.85	"X" IN N.W. BOLT OF LAMP POST
CTRL #80	413844.69	2248945.48	-	COTTON GIN SPIKE SET
CTRL #81	413670.27	2248903.62	-	DRILL HOLE WITH "X" SET IN CONCRETE
CTRL #83	413889.05	2249621.12	-	3/4" ROD W/DEIBEL CAP SET
CTRL #86	413502.84	2249609.40	-	3/4" ROD W/DEIBEL CAP SET
CTRL #120	413893.86	2248740.62	-	5/8" ROD W/BECKER AND BAYER CAP

LEGAL DESCRIPTION
(PER DEIBEL SURVEYING, INC. MARCH 24, 2021)
JANUARY 22, 2020
DESCRIPTION OF A 11.726 ACRES PARCEL

SITUATED IN THE STATE OF OHIO, COUNTY OF STARK, CITY OF MASSILLON, BEING PART OF OUT LOT 330 AND PART OF OUT LOT 417, AND BEING PART OF THE LAND NOW OR FORMERLY OWNED BY DANIEL G. KAMIN MASSILLON LLC (INSTRUMENT NO. 200702080007023), AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A 4" STEEL DISC IN MONUMENT BOX ASSEMBLY FOUND AT THE SOUTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 10 PERRY TOWNSHIP, AND BEING ON THE CENTERLINE OF 27TH ST. N.E. (60 FOOT PUBLIC RIGHT-OF-WAY) AND ALSO ON THE MASSILLON CITY CORPORATION LINE AND THE TRUE PLACE OF BEGINNING OF THE HEREIN DESCRIBED PARCEL:

THENCE S 01°44'17" W, ALONG SAID CENTERLINE AND CORPORATION LINE 447.80 FEET TO A POINT WITNESSED BY A 3/4" STEEL ROD SET N 24°17'24" W, A DISTANCE OF 68.37 FEET,

THENCE N 76°20'42" W, ALONG THE CENTERLINE OF LINCOLN WAY EAST (S.R. 172 VARIABLE WIDTH), A DISTANCE OF 767.26 FEET TO A POINT;

THENCE N 13°29'42" E, ALONG LANDS NOW OR FORMERLY OWNED BY O'REILLY AUTO ENTERPRISES LLC (INSTRUMENT NO. 201405050015933), A DISTANCE OF 229.37 FEET (PASSING OVER A DRILL HOLE MARKED WITH A CHEELED "X" SET IN CONCRETE AT 50.00 FEET) TO A COTTON GIN SPIKE SET,

THENCE N 76°30'14" W, ALONG THE NORTH LINE OF SAID O'REILLY LANDS, A DISTANCE OF 210.68 FEET TO A 5/8" STEEL ROD WITH BAYER AND BECKER CAP FOUND;

THENCE N 01°38'53" E, ALONG THE EAST LINE OF LANDS NOW OR FORMERLY OWNED BY PWREI MASSILLON LLC AND BRAG MASSILLON LLC (INSTRUMENT NO. 201508270034071), A DISTANCE OF 292.46 FEET TO A 1/2" STEEL ROD FOUND;

THENCE N 64°58'14" E, ALONG THE EAST LINE SAID PWREI LANDS, A DISTANCE OF 137.30 FEET TO A 1/2" STEEL ROD WITH COOPER CAP FOUND;

THENCE S 76°21'14" E, ALONG THE SOUTH LINE OF LINCOLN MANNER ALLOTMENT (PLAT BOOK 31, PAGE 51) WHICH IS ALSO THE CORPORATION LINE FOR THE CITY OF MASSILLON A DISTANCE 805.88 FEET (PASSING OVER A 3/4" PIPE FOUND AT A DISTANCE OF 775.52 FEET) TO A POINT,

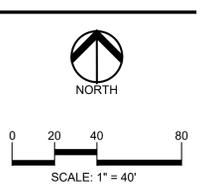
THENCE S 01°48'47" W, ALONG SAID THE MASSILLON CITY CORPORATION LINE AND THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 10 OF SAID PERRY TOWNSHIP, A DISTANCE OF 186.17 FEET TO A 4" STEEL DISC IN MONUMENT BOX ASSEMBLY FOUND AND THE TRUE PLACE OF BEGINNING.

THE ABOVE DESCRIBED PARCEL CONTAINS 11.726 ACRES, OF WHICH 5.424 ACRES ARE WITHIN OUT LOT 330, 6.302 ACRES ARE WITHIN OUT LOT 417, 0.875 ACRES ARE WITHIN THE RIGHT-OF-WAY OF LINCOLN WAY EAST, AND 0.387 ACRES ARE WITHIN RIGHT-OF-WAY OF 27TH ST. N.E., AS SURVEYED BY CURTIS G. DEIBEL, P.S. #6673, IN JANUARY 2020.

BEARINGS ARE BASED ON THE STARK COUNTY GEODETIC REFERENCE SYSTEM.

LEGEND

- 3/4" STEEL ROD W/DEIBEL CAP SET (UNLESS OTHERWISE NOTED)
- MONUMENTATION FOUND (AS NOTED)
- DENOTES RECORD INFORMATION
- COTTON GIN SPIKES EXISTING
- ELEC. PHONE OR CABLE TV O.U. LINE, POLE & GUY WIRE
- UNDERGROUND CABLE TV, CATV, PRESTAL
- TELEPHONE O.G. CABLE, PRESTAL, EXHIBITS
- ELECTRIC O.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS MAIN, VALVE & GAS LINE MARKER
- WATERMAIN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & REEFISH CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BOX/DRYDRY VALVE BOX, SERVICE SHUTOFF
- MALIBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIGN
- CONC. CONCRETE
- ASPH. ASPHALT
- GRAVEL SHOULDER
- WETLAND
- STAR COUNTY MONUMENT
- 3/4" CL. CENTERLINE ROAD
- R/W. RIGHT-OF-WAY
- N.D.L. NEW DIVISION LINE



TOPOGRAPHIC AND BOUNDARY SURVEY DISCLAIMER:
TOPOGRAPHIC AND BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, EXISTING ELEVATIONS, EXISTING PHYSICAL FEATURES AND STRUCTURES WAS PROVIDED BY COPPER AND ASSOCIATES.

PEA GROUP WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY OR FOR DESIGN ERRORS/OMISSIONS RESULTING FROM SURVEY INACCURACIES.

FLOODPLAIN NOTE:
BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE "X", AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 39151C0211E DATED SEPTEMBER 29TH, 2011.

EXISTING UTILITY

STORM SEWER DATA

1. CBR TOP= 1144.46	21. STM CI TOP= 1143.61
6" VCP(N)= 1138.78	12" CPP(NW)= 1140.51
12" VCP(S) STUB= 1139.26	12" STM CI TOP= 1143.68
12" VCP(S)= 1139.16	12" CPP(SE)= 1143.60
2. CBR TOP= 1144.56	23. STM CI TOP= 1143.16
12" VCP(N)= 1135.79	12" CPP(SE)= 1141.06
12" VCP(W)= 1135.74	
3. CBR TOP= 1143.96	24. STM MH RM= 1142.41
12" VCP(E)= 1133.51	12" CPP(NW)= 1137.01
18" VCP(S)= 1135.21	12" CPP(E)= 1137.21
18" VCP(S)= 1133.01	12" CPP(S)= 1136.71
4. CBR TOP= 1146.88	25. STM CI TOP= 1142.39
10" VCP(N)= 1142.03	DO NOT DIP
15" VCP(W)= 1140.63	**SHOW GRAPHICALLY ONLY**
5. CBR TOP= 1147.06	26. CB 2"-8"x2"-8" TOP= 1143.11
12" VCP(N)= 1138.81	CB FULL OF DEBRIS
18" VCP(S)= 1138.76	15" (S)= 1136.36
15" (W)= 1136.31	15" (N)= 1136.11
6. CBR TOP= 1144.72	12" (N)= UNAVAILABLE
12" VCP(E)= 1137.42+/-	27. STM MH COULD NOT OPEN
7. UNKNOWN STORM TIE-IN	28. DID NOT DIP
8. STORM MH RM=1140.78	**SHOW GRAPHICALLY ONLY**
18" RCP(N)= 1133.48	29. CB 2"-8"x2"-8" TOP= 1136.26
12" CPP(W)= 1133.13	PIPES ARE OBTAINED
15" (E)= 1127.26	15" (E)= 1127.26
12" (NE)= 1127.36	12" (NE)= 1127.36
9. CB 2X2 TOP= 1139.33	30. STM CI TOP= 1135.47
6" WOODPIPE= 1138.57	10" PVC(S)= 1130.89
12" CPP(E)= 1135.92	10" PVC(S)= 1130.89
10. CB 2X2 TOP= 1139.99	31. STM CI TOP= 1135.47
21" CPP(W)= 1131.29	10" PVC(N)= 1130.47
21" CPP(SE)= 1131.24	10" PVC(S)= 1130.89
11. CB 2X2 TOP= 1136.79	32. CB 2"-8"x2"-8" TOP= 1132.69
21" CPP(N)= 1130.32	PIPE SIZES AND TYPES ARE ASSUMED
15" RCP(S)= 1130.32	15" (E)= 1124.84
21" CPP(N)= 1130.27	12" RCP(S)= 1128.49
15" (W)= 1124.79	15" (W)= 1124.79
10" CMP(N)= 1125.54	10" CMP(N)= 1125.54
12. STM MH RM= 1141.99	33. STM CI TOP= 1131.89
12" CPP(E)= 1135.59	18" RCP(N)= 1126.89
18" RCP(S)= 1135.39	34. STM CI TOP= 1131.48
18" CPP(W)= 1135.29	10" CPP(NW)= 1127.23
13. 1" WIDE TRENCH DRAIN	35. CB 2"-8"x2"-8" TOP= 1131.33
TOP WEST= 1132.05	PIPE SIZES ASSUMED
15" (E)= 1132.65	PIPES OBTAINED
15" (W)= 1124.79	15" (E)= 1122.00
10" CMP(N)= 1125.54	15" (W)= 1122.00
14. CB 2X2 TOP= 1137.50	36. CB 2X2(PRIVATE) TOP= 1140.47
21" RCP(E)= 1130.00	8" VCP(NW)= 1143.25
21" CPP(W)= 1129.65	8" VCP(N)= 1143.25
15. 1" WIDE TRENCH DRAIN	8" VCP(S)= 1131.85
TOP EAST= 1136.84	51. SAN MH(PRIVATE) RM= 1142.01
12" RCP(W)= 1135.40	DO NOT DIP
12" CPP(E)= 1139.16	**SHOW GRAPHICALLY ONLY**
16. STM MH RM= 1141.99	52. SAN MH(PRIVATE) RM= 1141.20
12" CPP(E)= 1135.59	DO NOT DIP
18" RCP(S)= 1135.39	15" (E)= 1124.84
18" CPP(W)= 1135.29	12" RCP(S)= 1128.49
17. 10" DIAMETER YARD DRAIN	15" (W)= 1124.79
(FULL OF DEBRIS)	10" CMP(N)= 1125.54
18. UNKNOWN STORM TIE-IN	37. CB 2X2(PRIVATE) TOP= 1140.90
19. STM MH RM= 1144.20	10" PVC(NW)= 1137.75
18" CPP(N)= 1138.80	18" RCP(N)= 1132.10
12" CPP(E)= 1138.40	21" RCP(S)= 1138.75
12" CPP(W)= 1139.16	38. STM CI TOP= 1140.42
20. STM CI TOP= 1143.62	10" PVC(SW)= 1138.40
12" CPP(SW)= 1140.42	

SANITARY SEWER DATA

40. SAN MH RM= 1142.60	50. SAN MH RM= 1148.15
8" VCP(NW)= 1132.25	8" VCP(NW)= 1143.25
8" VCP(N)= 1131.85	8" VCP(N)= 1143.25
41. SAN MH RM= 1143.52	51. SAN MH(PRIVATE) RM= 1142.01
8" VCP(N)= 1131.52	DO NOT DIP
42. SAN MH RM= 1144.20	**SHOW GRAPHICALLY ONLY**
8" VCP(N)= 1131.00	52. SAN MH(PRIVATE) RM= 1141.20
8" VCP(N)= 1130.40	DO NOT DIP
8" VCP(S)= 1130.30	15" (E)= 1124.84
43. SAN MH RM= 1145.58	52. SAN MH(PRIVATE) RM= 1141.20
6" VCP(W)= 1134.38	10" VCP(N)= 1132.45
8" VCP(S)= 1134.18	6" VCP(W)= 1132.85
8" VCP(S)= 1131.03	53. SAN MH(PRIVATE) RM= 1140.72
44. SAN MH RM= 1145.44	6" VCP(W)= 1131.03
8" VCP(W)= 1139.59	54. SAN MH RM= 1130.48
8" VCP(W)= 1134.74	8" VCP(N)= 1119.38
45. SAN MH RM= 1140.82	8" VCP(E)= 1119.08
8" VCP(E)= 1128.87	55. SAN MH RM= 1144.13
46. SAN MH RM= 1134.69	8" VCP(E)= 1133.83
8" VCP(E)= 1122.94	8" VCP(E)= 1133.33
47. SAN MH RM= 1131.98	
8" VCP(E)= 1120.78	
48. SAN MH RM= 1121.50	
8" VCP(S)= 1120.35	
49. SAN MH RM= 1148.17	
6" VCP(S)= 1139.07	
8" VCP(W)= 1138.62	

CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP-MASSILLON
2600 LINCOLN WAY E
MASSILLON, STARK COUNTY, OHIO

REVISIONS

PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

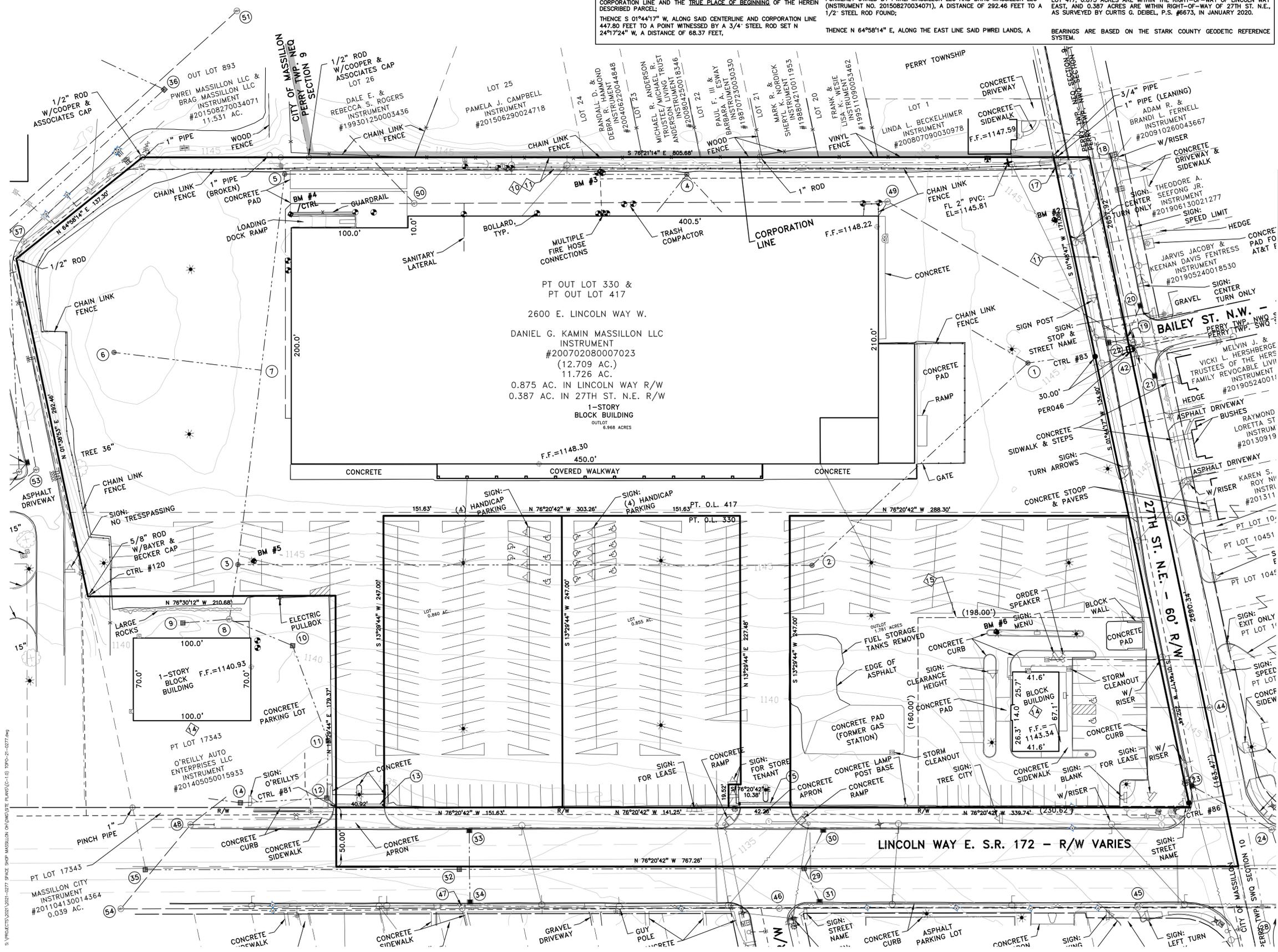
ORIGINAL ISSUE DATE:
JULY 21, 2021

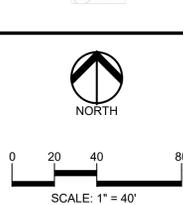
DRAWING TITLE:
TOPOGRAPHIC SURVEY

PEA JOB NO. 2021-0277

P.M.	LA
DN.	JDS
DES.	JDS

DRAWING NUMBER:
C-1.0





811 Know what's below. Call before you dig.

CAUTION!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY AS APPROXIMATED TO THE BEST OF OUR KNOWLEDGE AND BELIEF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP MASSILLON
2600 LINCOLN WAY E
MASSILLON, OHIO

REVISIONS

PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

ORIGINAL ISSUE DATE:
JULY 21, 2021

DRAWING TITLE
DEMOLITION PLAN

PEA JOB NO. 2021-0277
P.M. LA
DN. JKS
DES. JDS

DRAWING NUMBER:
C-2.0

BENCHMARKS AND CONTROL POINTS				
PT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM #2	414009.80	2249614.79	1147.63	"X" ON NORTH SIDE OF LAMP POST
BM #3	414140.66	2249249.36	1148.23	"X" IN S.E. BONNET BOLT OF A FIRE HYDRANT
BM/CTRL #4	414167.65	2248984.62	1148.03	"X" IN WEST END OF CONCRETE DOCK
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CTRL #120	413893.86	2248740.62	-	5/8" ROD W/BECKER AND BAYER CAP

LEGEND

● IRON FOUND	⊕ BRASS PLUG SET	⊕ SEC CORNER FOUND
⊕ IRON SET	⊕ MONUMENT FOUND	⊕ RECORDED
⊕ NAIL FOUND	⊕ MONUMENT SET	⊕ MEASURED
⊕ NAIL & CAP SET		⊕ CALCULATED

EXISTING

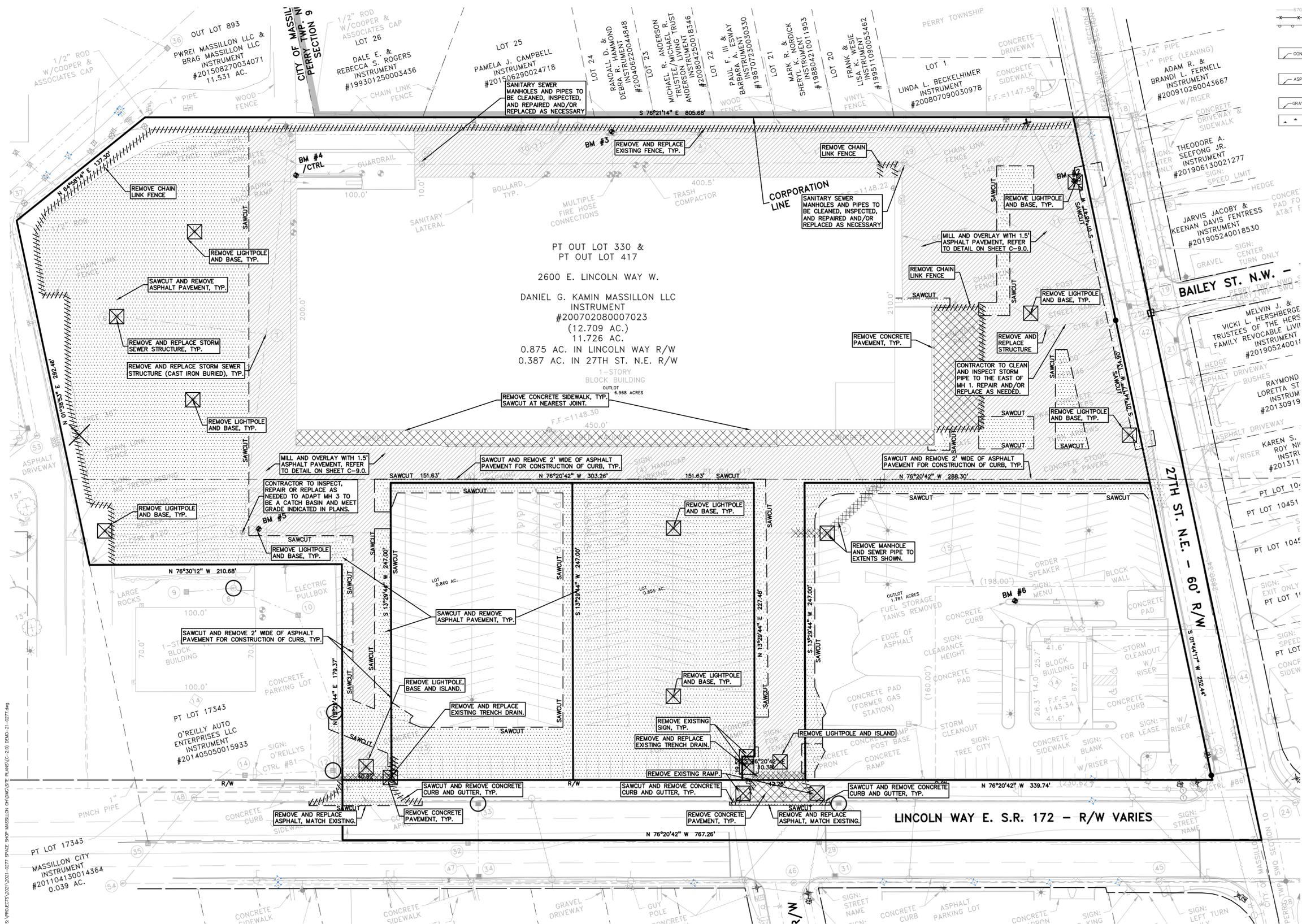
- ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV UNDERGROUND CABLE TV, CATV PEDESTAL
- ELEC. U.G. CABLE, PEDESTAL & MANHOLE
- ELEC. U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS MAIN, VALVE & GAS LINE MARKER
- WATERMAIN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST REGULATOR VALVE
- WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE BRK/STOP
- MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARDRAIL
- STREET LIGHT
- SIGN
- CONC. CONCRETE
- ASPH. ASPHALT
- GRAVEL SHOULDER
- WETLAND

GENERAL DEMOLITION NOTES:
THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:

- ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER, NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
- ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
- STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
- SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
- REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES, ETC.
- THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION.
- ALL BUILDING GAS LEADS, METERS AND ASSOCIATED EQUIPMENT SHALL BE REMOVED AS SHOWN ON THE PLANS. COORDINATE ALL ASSOCIATED WORK WITH THE APPROPRIATE UTILITY COMPANY.
- REMOVE ALL OVERHEAD AND UNDERGROUND ELECTRICAL LINES WITHIN THE AREA OF CONSTRUCTION AS SHOWN ON THE PLANS. COORDINATE SHUTDOWNS AND REMOVALS WITH ELECTRICAL SERVICE PROVIDER OR THE APPROPRIATE UTILITY COMPANY. (NOTE: PHONE, AND CABLE T.V. SERVICES MAY ALSO BE LOCATED ON OVERHEAD LINES.)
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

DEMOLITION LEGEND:

ITEM TO BE PROTECTED	⊕
ITEM TO BE REMOVED	⊗
CURB/FENCE REMOVAL	///////
CONCRETE PAVEMENT AND SIDEWALK REMOVAL	XXXXXX
AREA OR ITEMS TO BE REMOVED	▭
UTILITY REMOVAL	XXXXXX
ABANDON UTILITY
ASPHALT REMOVAL	XXXXXX
SAWCUT LINE	—
MILL AND OVERLAY ASPHALT	XXXXXX



S:\PROJECTS\2021\0277 SPACE SHOP MASSILLON ON\DWG\STATE PLANS\C-2.0.DWG-21-0277.dwg

GENERAL NOTES:

- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
- ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA, ODOT AND MUNICIPALITY STANDARDS AND REGULATIONS.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF MASSILLON ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR MUST CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK.
- ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL CITY INSPECTION FEES.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- CONTRACTOR TO VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE, VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL, HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
- ANY WORK WITHIN THE STREET OR HIGHWAY RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
- ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, CITY AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
- THE USE OF CRUSHED CONCRETE IS PROHIBITED ON THE PROJECT WITHIN 100 FEET OF ANY WATER COURSE (STREAM, RIVER, COUNTY DRAIN, ETC.) AND LAKE, REGARDLESS OF THE APPLICATION OR LOCATION OF THE WATER COURSE OR LAKE RELATIVE TO THE PROJECT LIMITS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR SEPARATELY.

SIGN LEGEND:

- 'NO PARKING FIRE LANE' SIGN [1]
 - 'STOP' SIGN [2]
 - 'BARRIER FREE PARKING' SIGN [3]
 - 'VAN ACCESSIBLE' SIGN [4]
 - 'DO NOT ENTER' SIGN [5]
 - 'ONE WAY' SIGN [6]
- REFER TO DETAIL SHEET FOR SIGN DETAILS

SIDEWALK RAMP LEGEND:

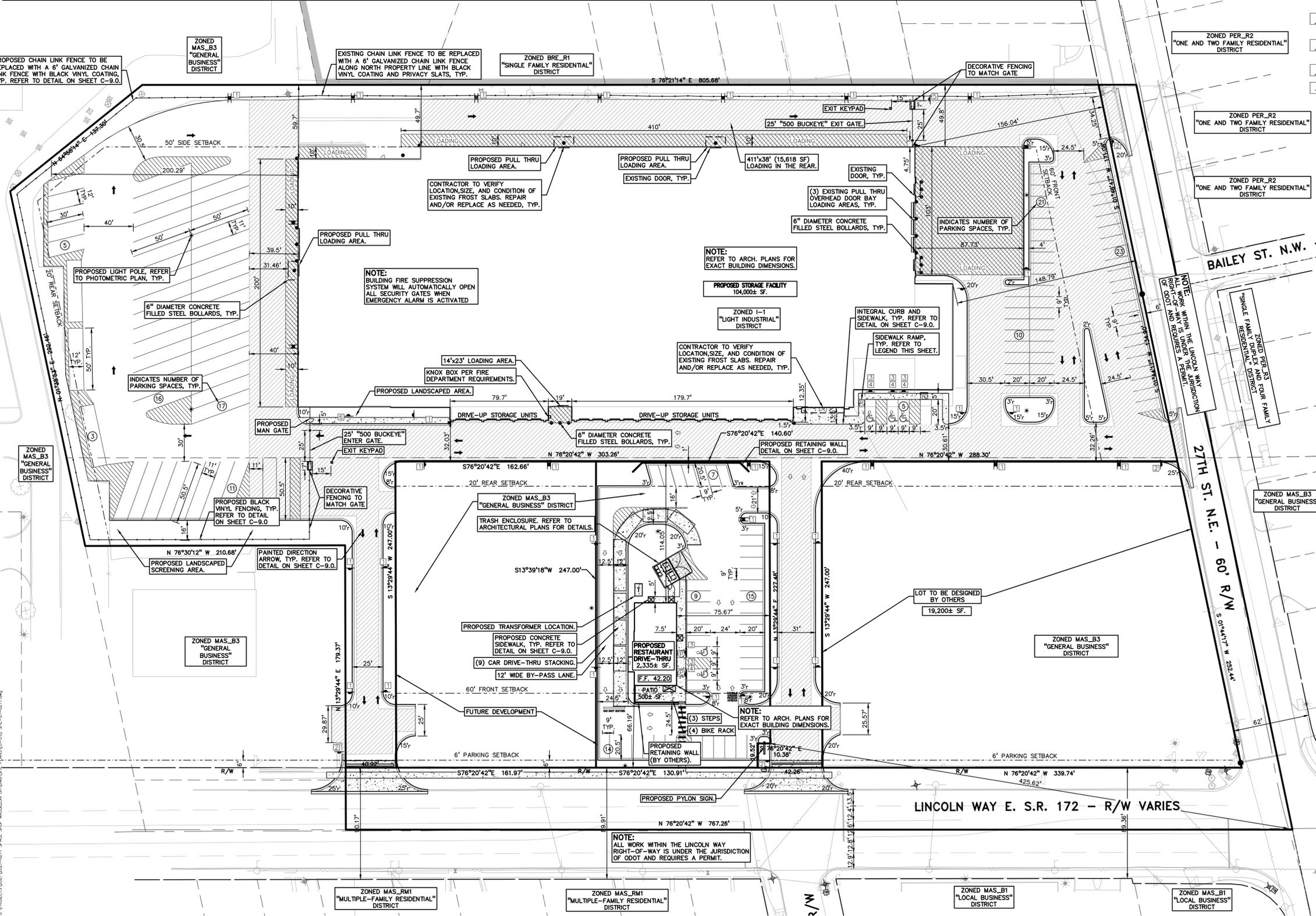
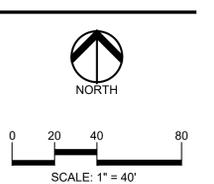
- SIDEWALK RAMP 'TYPE R' [7]
 - SIDEWALK RAMP 'TYPE P' [8]
- REFER TO LATEST ODOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS

LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊙ R. RECORDED
⊗ NAIL FOUND	⊗ NAIL & CAP SET	⊙ M. MEASURED
		⊙ C. CALCULATED

—OH-ELEC—	ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
—UG-CATV—	UNDERGROUND CABLE TV, CATV PEDESTAL
—UG-PHONE—	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
—UG-ELEC—	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
—GAS—	GAS MAIN, VALVE & GAS LINE MARKER
—WATER—	WATER MAIN, VALVE, GATE VALVE, TAPPING BREECH & VALVE
—SEWER—	SANITARY SEWER, CLEANOUT & MANHOLE
—STORM—	STORM SEWER, CLEANOUT & MANHOLE
—COMB.—	COMBINED SEWER & MANHOLE
—SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN	
—POST REGULATOR VALVE	
—WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF	
—MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE	
—UNIDENTIFIED STRUCTURE	
—SPOT ELEVATION	
—CONTOUR LINE	
—FENCE	
—GUARDRAIL	
—STREET LIGHT	
—SIGN	
—CONC.—	CONCRETE
—ASPH.—	ASPHALT
—GRAVEL—	GRAVEL SHOULDER
—WETLAND	

—310—	HEAVY FLOW DUTY ONLY
—310—	HEAVY FLOW DUTY ONLY
—310—	HEAVY FLOW DUTY ONLY



SITE DATA TABLE:

TOTAL SITE AREA:	10.46 ACRES (455,834 SQ.FT.) NET AND GROSS
ZONING:	B-3 (GENERAL BUSINESS) & I-1 (LIGHT INDUSTRIAL)
TOTAL BUILDING AREA:	106,335 SF
TOTAL PAVED AREA:	299,357 SF
TOTAL LANDSCAPED AREA:	50,142 SF
PROPOSED USES:	AREA: LOT
COVERAGE:	
STORAGE FACILITY	104,000 SF 34.3%
RESTAURANT	2,335 SF 6.3%

BUILDING INFORMATION:
 MAXIMUM ALLOWABLE BUILDING HEIGHT (B-3) = 30 FEET (3 STORIES)
 MAXIMUM ALLOWABLE BUILDING HEIGHT (I-1) = 40 FEET

PROPOSED BUILDING HEIGHT:
 STORAGE FACILITY = 29', 8" (1 STORY)
 RESTAURANT = 20', 8" (1 STORY)

SETBACK REQUIREMENTS:	REQUIRED:	PROPOSED:
WAREHOUSE FRONT (27TH STREET)	60'	119.07'
SIDE (NORTH)	25'	49.75'
SIDE (SOUTH)	25'	32.03'
REAR (WEST)	25'	200.29'
RESTAURANT FRONT:	60'	66.19'
SIDE (EAST)	0'	75.67'
SIDE (WEST)	0'	24.50'
REAR:	20'	114.05'

(60' FRONT SETBACK FOR DRIVE-THRU BUILDINGS AND 10' SIDE SETBACK IF WALL CONTAINS WINDOWS OR OTHER OPENINGS)

PARKING CALCULATIONS:
 WAREHOUSE = 5 SPACES + 1 SPACE PER EMPLOYEE ON LARGEST SHIFT
 WAREHOUSE PARKING REQUIRED = 5 + 2 = 7 SPACES
 PROPOSED PARKING SPACES = 59 SPACES INC. 3 H/C SPACES

RESTAURANT = (2335 x 0.8)/150 = 12 SPACES
 PROPOSED PARKING SPACES = 45 SPACES INC. 2 H/C SPACES

TOTAL PROPOSED PARKING SPACES = 104 INC. 5 H/C SPACES

LOADING CALCULATIONS:
 LOADING REQUIRED = LOADING IN REAR YARD AT 15% OF GROSS FLOOR AREA
 104,000 S.F. X 15% = 15,600 S.F.
 OFF-LOADING SPACE LOADING PROVIDED = 15,685 SQ.FT.

SITE SOILS INFORMATION:
 ACCORDING TO THE USDA NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY FOR STARK COUNTY, THE SITE CONSISTS OF THE FOLLOWING SOIL TYPES:
 8.8 ACRES OF DANFIELD-URBAN LAND COMPLEX, 2 TO 6 PERCENT SLOPES
 1.2 ACRES OF RAVENNA-URBAN LAND COMPLEX, 0 TO 6 PERCENT SLOPES

GENERAL NOTES:

- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
 - 'NO PARKING-FIRE LANE' SIGNS SHALL BE POSTED ALONG ALL FIRE LANES AT 100 FOOT INTERVALS OR AS DIRECTED BY THE FIRE OFFICIAL.
 - REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.
 - REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

REFER TO SHEET C-3.1 FOR ALL PAVING NOTES.



CAUTION!
 THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY AS NEAR AS TO THE COMPLETENESS ON ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
STEIN INVESTMENT GROUP
 5607 GLENRIDGE DRIVE, SUITE 200
 ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP-MASSILLON
 2600 LINCOLN WAY E
 MASSILLON, STARK COUNTY, OHIO

REVISIONS

PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

ORIGINAL ISSUE DATE:
 JULY 21, 2021
 DRAWING TITLE
SITE PLAN

PEA JOB NO.	2021-0277
P.M.	LA
DN.	JKS
DES.	JDS
DRAWING NUMBER:	

C-3.0

PAVING NOTES:

1. IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
2. PROVIDE EXPANSION JOINTS AND JOINT SEALANT AT TWO "END-OF-RADIUS" LOCATIONS (OPPOSITE SIDES AT EACH LONG END) OF CONCRETE CURB ISLANDS.
3. REFER TO ARCHITECTURAL PLANS FOR DETAILS OF FROST SLAB AT EXTERIOR BUILDING DOORS.
4. CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE INITIAL LIFT THICKNESS COULD BE INCREASED AND PLACEMENT OF THE FINAL LIFT COULD BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM.
5. CONCRETE PAVEMENT JOINTING - UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION:
 - 5.1. WHERE PROPOSED CONCRETE ABUTS A STRUCTURE PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SEALANT, THE JOINT FILLER BOARD MUST BE AT LEAST THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A 1/4" TO ALLOW FOR SEALING
 - 5.2. WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR IN BETWEEN POURS OF PROPOSED CONCRETE (CONSTRUCTION JOINT) PROVIDE 5/8" DOWELS EVERY 30' CENTER TO CENTER HALF WAY ALONG THE THICKNESS OF THE PROPOSED PAVEMENT. ALTERNATE DOWELS SIZES AND SPACING MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
 - 5.3. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SEALANT
 - 5.4. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED CURBING PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SEALANT
 - 5.5. CONTROL LONGITUDINAL AND/OR TRANSVERSE JOINTS SHALL BE PLACED TO PROVIDE PANELS WITHIN THE PAVEMENT AS SQUARE AS POSSIBLE WITH THE FOLLOWING MAXIMUM SPACING PARAMETERS:
 - 5.5.1. 8-INCH THICK CONCRETE PAVEMENT: 12' X 12'
 - 5.5.2. 8-INCH THICK CONCRETE PAVEMENT: 15' X 15'
 - 5.6. IRREGULAR-SHAPED PANELS MAY REQUIRE THE USE OF REINFORCING MESH OR FIBER MESH AS DETERMINED BY THE ENGINEER. THE USE OF MESH MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
 - 5.7. IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
6. CONCRETE CURBING JOINTING - UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION:
 - 6.1. WHERE PROPOSED CONCRETE CURBING ABUTS A STRUCTURE PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SEALANT
 - 6.2. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SEALANT
 - 6.3. WHERE PROPOSED CONCRETE ABUTS EXISTING CURBING PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SEALANT
 - 6.4. IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION JOINT)
 - 6.4.1. CARRY THE REBAR CONTINUOUSLY BETWEEN POURS
 - 6.4.2. IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY THEN TIE TWO PIECES OF REBAR PER THE LATEST MDOT SPECIFICATIONS
 - 6.5. CONTROL JOINTS SHALL BE PLACED A MAXIMUM 10' CENTER TO CENTER AND AT ALL RADIUS RETURNS

LEGEND

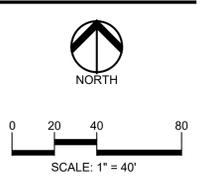
● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
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⊗ NAIL & CAP SET		⊙ C. CALCULATED

EXISTING

- OH-ELEC—W—O— ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV— UG. CATV
- UG-PHONE— TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC—ELEC. U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS— GAS MAIN, VALVE & GAS LINE MARKER
- WATER— WATER MAIN, HYD. GATE VALVE, TAPPING BLEEVE & VALVE
- SEWER— SANITARY SEWER, CLEANOUT & MANHOLE
- STORM— STORM SEWER, CLEANOUT & MANHOLE
- COMBINED— COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST— POST INDICATOR VALVE
- VALVE— WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF
- MBOX— MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED— UNIDENTIFIED STRUCTURE
- SPOT— SPOT ELEVATION
- CONTOUR— CONTOUR LINE
- FENCE— FENCE
- GUARDRAIL— GUARDRAIL
- STREET LIGHT— STREET LIGHT
- SIGN— SIGN

PROPOSED

- CONC.— CONCRETE
- ASPH.— ASPHALT
- GRAVEL— GRAVEL SHOULDER
- WETLAND— WETLAND
- STD. 3" REIN. FLOUT DUTY ONLY
- STD. 3" REIN. MILL AND DUTY OVERLAY



811 Know what's below. Call before you dig.

CAUTION!
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CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP-MASSILLON
2600 LINCOLN WAY E
MASSILLON, STARK COUNTY, OHIO

REVISIONS

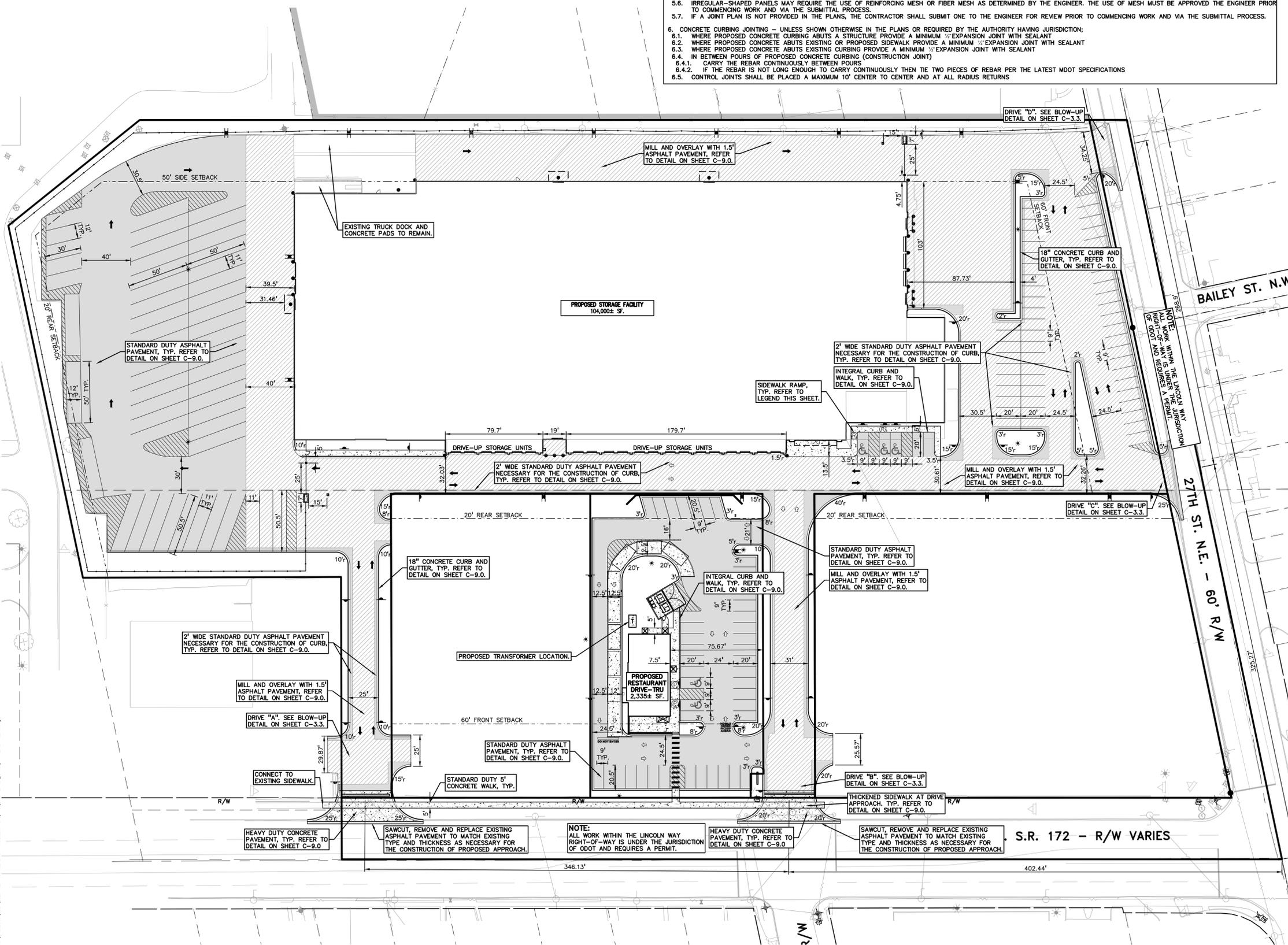
PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

ORIGINAL ISSUE DATE:
JULY 21, 2021

DRAWING TITLE
PAVING PLAN

PEA JOB NO.	2021-0277
P.M.	LA
DN.	JKS
DES.	JDS
DRAWING NUMBER:	

C-3.1

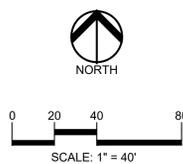


CONSTRUCTION MATERIAL SUBMITTALS

UNLESS REQUIRED OTHERWISE IN THE PROJECT SPECIFICATIONS, THE CONTRACTOR SHALL ONLY SUBMIT THE FOLLOWING CONSTRUCTION MATERIAL SUBMITTALS, AS APPLICABLE TO THE PLANS, FOR REVIEW BY THE ENGINEER. UNLESS APPROVED IN ADVANCE AND IN WRITING BY THE ENGINEER, ANY MATERIAL SUBMITTALS PROVIDED TO THE ENGINEER FOR REVIEW IN ADDITION TO THIS LIST SHALL BE RETURNED TO THE CONTRACTOR WITHOUT A REVIEW BEING PERFORMED.

1. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES
2. UTILITY TRENCH BACKFILL MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER
3. RIP RAP MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER
4. STORM AND SANITARY SEWER PIPING INCLUDING JOINTS
5. STORM AND SANITARY SEWER STRUCTURES
6. STORM AND SANITARY SEWER STRUCTURE FRAME AND COVERS INCLUDING CLEAN OUTS
7. WATER DISTRIBUTION SYSTEM PIPING INCLUDING JOINTS
8. WATER DISTRIBUTION SYSTEM STRUCTURES
9. WATER DISTRIBUTION SYSTEM STRUCTURE FRAME AND COVERS
10. WATER DISTRIBUTION SYSTEM SHUT OFF BOXES
11. WATER DISTRIBUTION SYSTEM FIRE HYDRANTS
12. WATER DISTRIBUTION SYSTEM GATE VALVES
13. STORM WATER MANAGEMENT OUTLET CONTROL STRUCTURES INCLUDING COVERS OR GRATES
14. STORM WATER MANAGEMENT OUTLET SEDIMENTATION BASIN RISERS INCLUDING GRATES
15. STORM WATER MANAGEMENT MECHANICAL PRE-TREATMENT UNITS INCLUDING COVERS
16. STORM WATER MANAGEMENT OIL/GREASE SEPARATORS
17. STORM WATER MANAGEMENT UNDERGROUND DETENTION SYSTEM MATERIAL AND SHOP DRAWINGS DEPICTING THE LAYOUT OF THE SYSTEM
18. PAVEMENT AGGREGATE BASE MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER
19. PAVEMENT UNDERDRAIN MATERIAL AND BACKFILL WITH ALL BACKFILL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER:
 1. 8.1. CONCRETE MIX DESIGN REVIEW CHECKLIST (FORM 2000)
 2. 8.2. SUPERPAVE MIX DESIGN CHECKLIST (FORM 1882)
 3. 8.3. MARSHALL MIX DESIGN CHECKLIST (FORM 1849)
20. PAVEMENT MIX DESIGNS SUBMITTED FOR REVIEW BY THE ENGINEER MUST FOLLOW THE CURRENT MDOT REVIEW CHECKLISTS AS SUMMARIZED BELOW AND ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER:
21. SITE FENCING AND GATES INCLUDING FOOTINGS
22. SITE RAILINGS INCLUDING FOOTING OR EMBEDMENTS
23. ANY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY STATE FOR THE CONTRACTOR TO SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW BUT THE CONTRACTOR REQUESTS TO BE REVIEWED. THE CONTRACTOR'S REQUEST FOR REVIEW MUST BE IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO SUBMITTING THE INFORMATION.
24. RETAINING WALL MATERIAL AND STRUCTURAL CALCULATIONS
25. TRENCH DRAIN MATERIAL AND SHOP DRAWING DEPICTING THE LAYOUT OF THE SYSTEM
26. ANY SPECIALTY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY DO NOT STATE FOR THE CONTRACTOR TO SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW BUT THE CONTRACTOR REQUESTS TO BE REVIEWED. THE CONTRACTOR'S REQUEST FOR REVIEW MUST BE IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO SUBMITTING THE INFORMATION.

S:\PROJECTS\2021-0277 SPACE SHOP MASSILLON ON\DWG\STATE PLANS\C-3.1) PAVE-24-0277.dwg



CAUTION!
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CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP MASSILLON
2600 LINCOLN WAY E.
MASSILLON, STARK COUNTY, OHIO

REVISIONS	
PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

ORIGINAL ISSUE DATE:
JULY 21, 2021

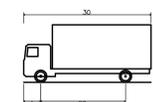
DRAWING TITLE
TRUCK MANEUVERING PLAN

PEA JOB NO.	2021-0277
P.M.	LA
DN.	JKS
DES.	JDS
DRAWING NUMBER:	

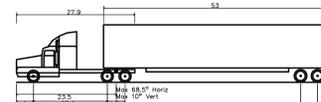
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LEGEND

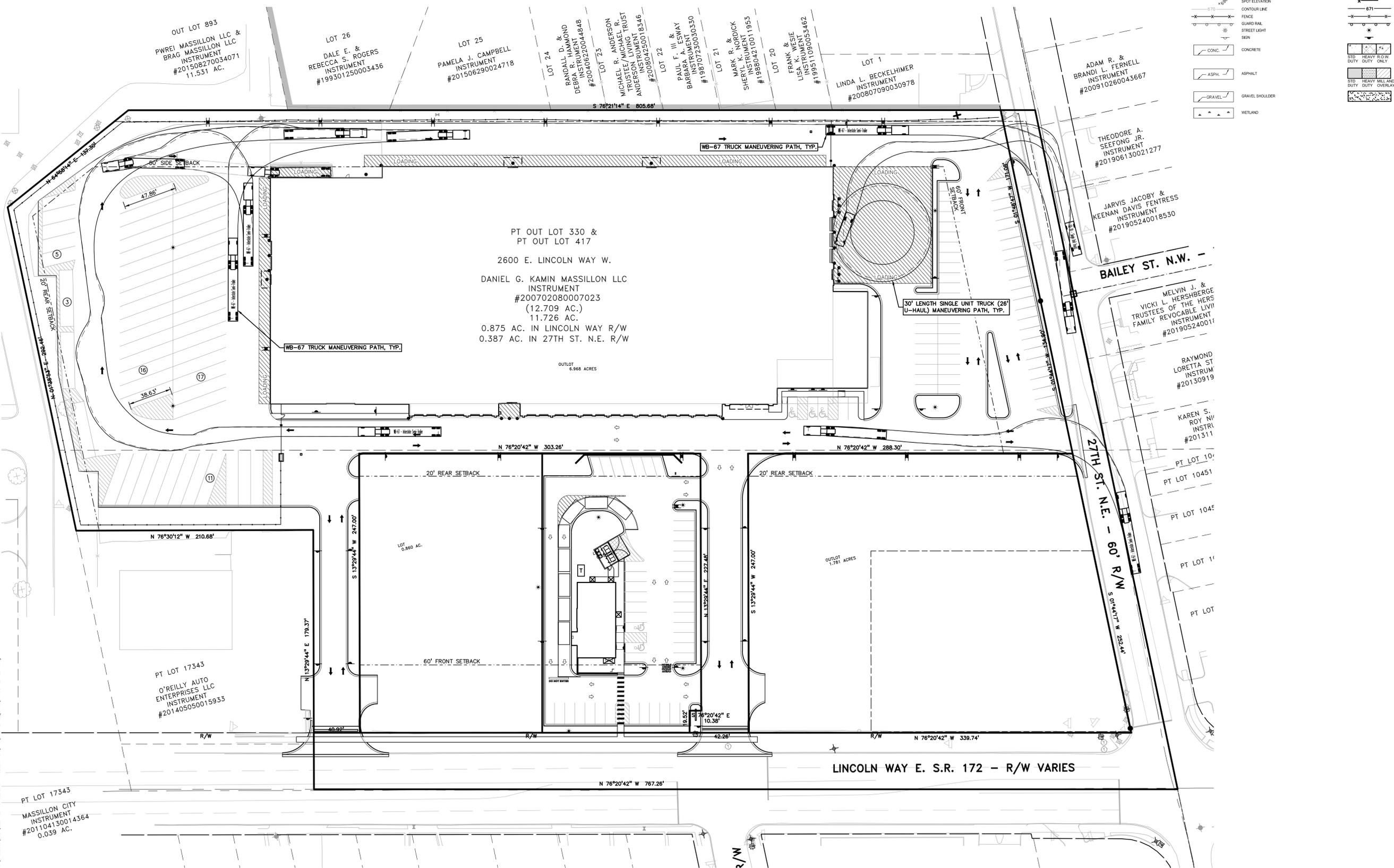
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- | | |
|---|--|
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| — WETLAND | WETLAND |



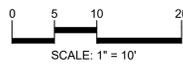
SU-30 - Single Unit Truck
Overall Length 30.000ft
Overall Width 8.000ft
Overall Body Height 14.500ft
Min Body Ground Clearance 1.367ft
Track Width 8.500ft
Lock-to-lock time 8.00s
Max Steering Angle (Virtual) 31.80°
SCALE: 1" = 20'-0"



WB-67 - Interstate Semi-Trailer
Overall Length 73.501ft
Overall Width 8.500ft
Overall Body Height 13.601ft
Min Body Ground Clearance 1.334ft
Max Track Width 8.500ft
Lock-to-lock time 6.00s
Max Steering Angle (Virtual) 28.40°
SCALE: 1" = 20'-0"



S:\PROJECTS\2021\0277 SPACE SHOP MASSILLON ON\DWG\SITE PLANS\C-3.2 TRUCK-21-0277.dwg



CAUTION!
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CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP-MASSILLON
2600 LINCOLN WAY E
MASSILLON, STARK COUNTY, OHIO

REVISIONS	
PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

ORIGINAL ISSUE DATE:
JULY 21, 2021

DRAWING TITLE
DRIVE DETAILS

PEA JOB NO.	2021-0277
P.M.	LA
DN.	JKS
DES.	JDS

DRAWING NUMBER:

C-3.3

LEGEND

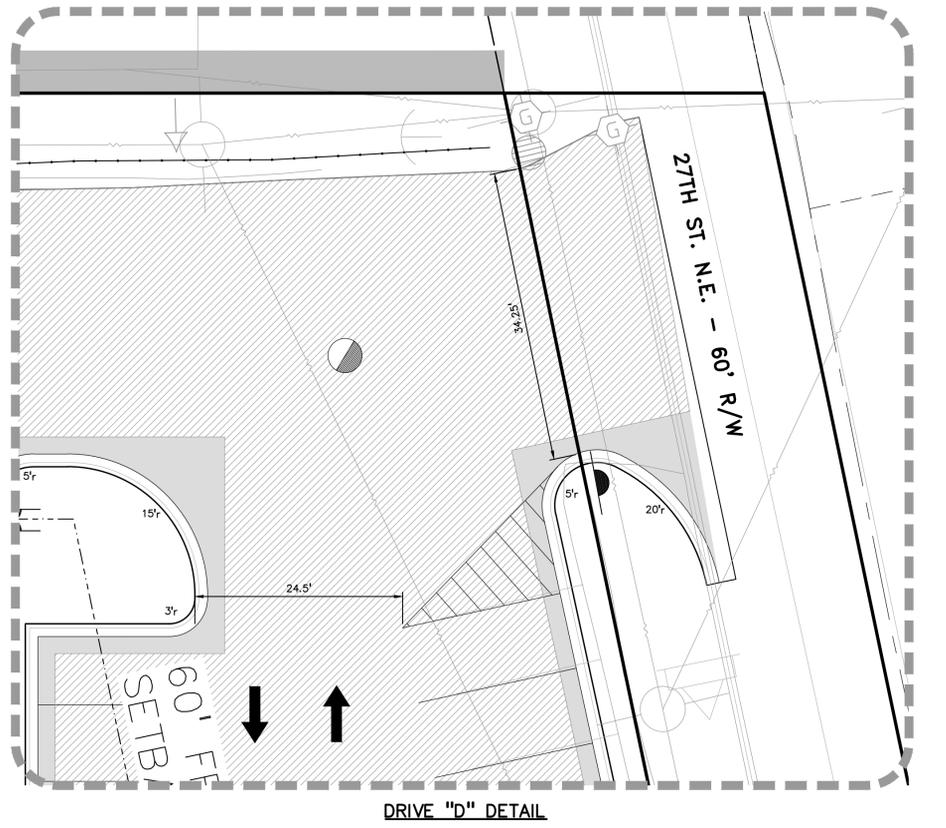
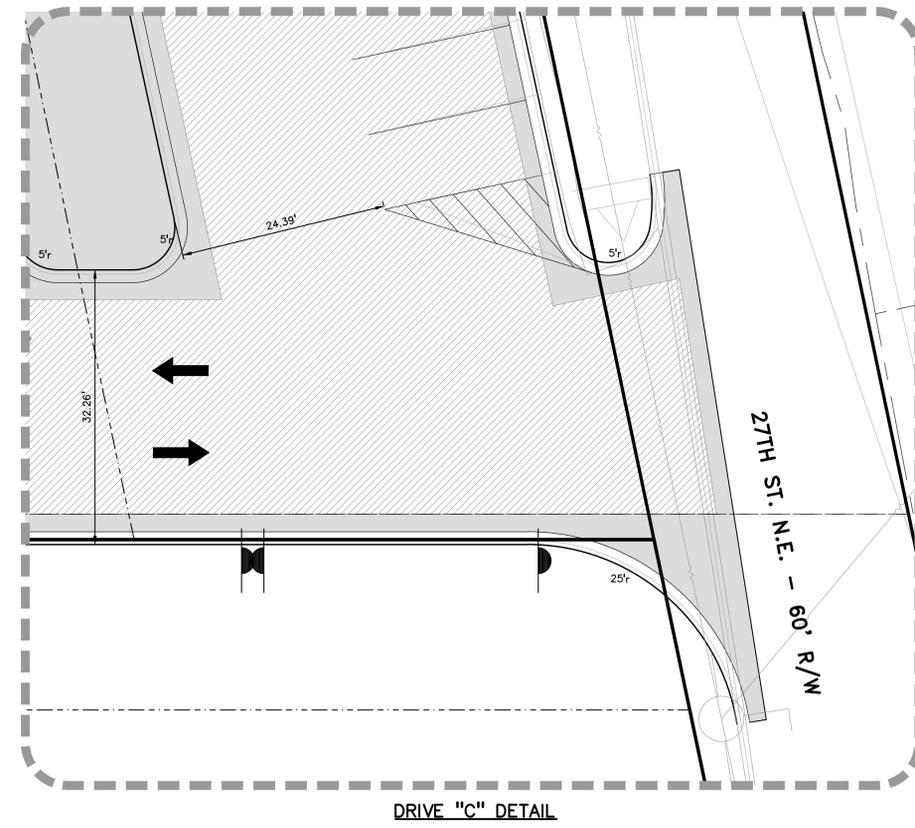
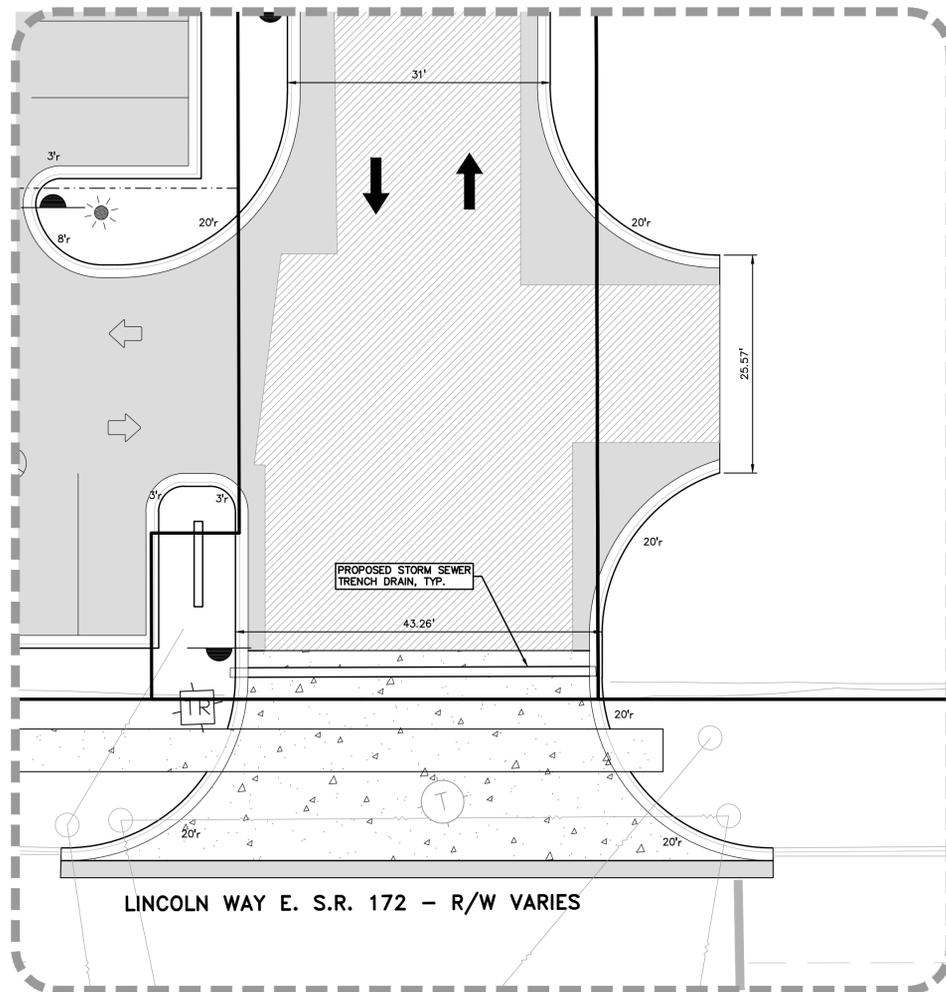
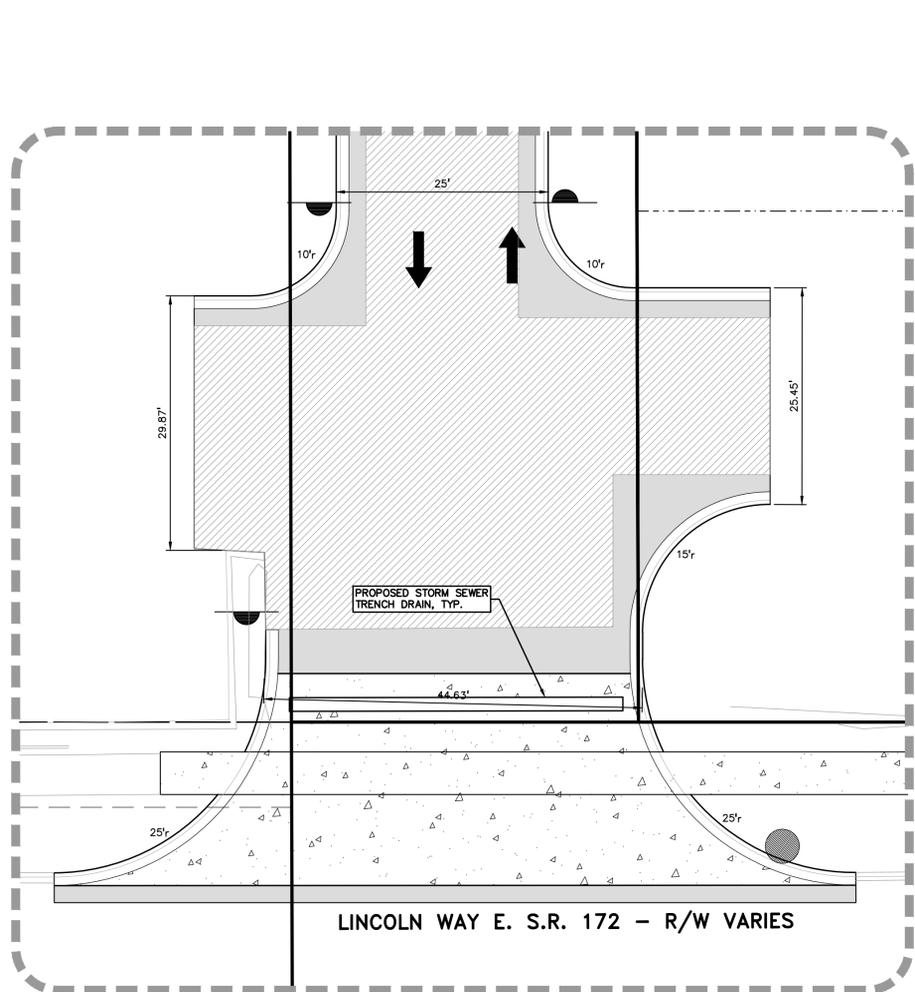
● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊙ MONUMENT FOUND	R RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	M MEASURED
⊗ NAIL & CAP SET		C CALCULATED

EXISTING

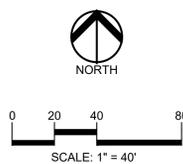
- OH-ELEC- W-ELEC. PHONE OR CABLE TV O.U. LINE, POLE & GUY WIRE
- UG-CATV- U-G. CABLE TV, CATV PEDESTAL
- UG-PHONE- U-G. CABLE, MANHOLE, PEDESTAL & MANHOLE
- UG-ELEC- U-G. CABLE, MANHOLE, METER & HANDHOLE
- ⊗ GAS MARK, VALVE & GAS LINE MARKER
- ⊗ WATER MAIN, HYD. GATE VALVE, TAPPING BLEEVE & VALVE
- ⊗ SANITARY SEWER, CLEANOUT & MANHOLE
- ⊗ STORM SEWER, CLEANOUT & MANHOLE
- ⊗ COMBINED SEWER & MANHOLE
- ⊗ SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- ⊗ POST INDICATOR VALVE
- ⊗ WATER VALVE BODY/DRYANT VALVE BOX, SERVICE SHUTOFF
- ⊗ MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- ⊗ UNIDENTIFIED STRUCTURE
- ⊗ SPOT ELEVATION
- ⊗ CONTOUR LINE
- ⊗ FENCE
- ⊗ GUARD RAIL
- ⊗ STREET LIGHT
- ⊗ SIGN

PROPOSED

- CONC. CONCRETE
- ASPH. ASPHALT
- GRAVEL GRAVEL SHOULDER
- WETLAND WETLAND
- 310 HEAVY FLOW DUTY
- 310 HEAVY FLOW DUTY ONLY
- 310 HEAVY MILL AND DUTY OVERLAY



S:\PROJECTS\2021\0277 SPACE SHOP MASSILLON ON\WD\SITE PLANS\C-3.3 DRIVE DETAILS-9-10277.dwg



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CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP-MASSILLON
2600 LINCOLN WAY E
MASSILLON, OHIO

REVISIONS	
PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

ORIGINAL ISSUE DATE:
JULY 21, 2021

DRAWING TITLE
GRADING PLAN

PEA JOB NO.	2021-0277
P.M.	LA
DN.	JKS
DES.	JDS
DRAWING NUMBER:	

C-4.0

LEGEND

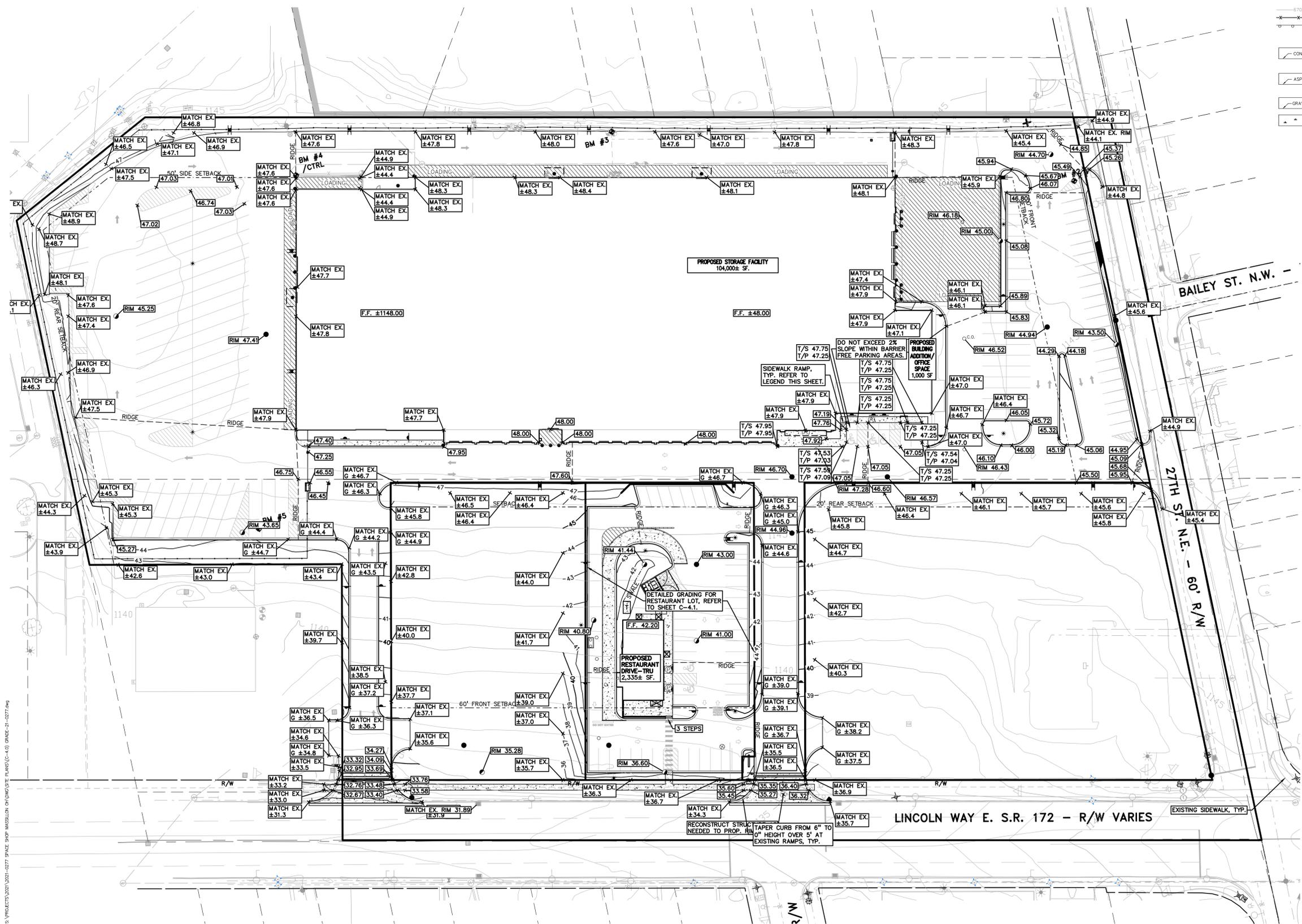
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|------------------|------------------|---------------------|
| ● IRON FOUND | ⊗ BRASS PLUG SET | ⊙ SEC. CORNER FOUND |
| ⊗ IRON SET | ⊗ MONUMENT FOUND | ⊙ R. RECORDED |
| ⊗ NAIL FOUND | ⊗ NAIL & CAP SET | ⊙ M. MEASURED |
| ⊗ NAIL & CAP SET | | ⊙ C. CALCULATED |
-
- | | |
|-------------|---|
| — OH-ELEC— | ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE |
| — UG-CATV— | UNDERGROUND CABLE TV, CATV PEDESTAL |
| ⊗ UG-PHONE | TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE |
| ⊗ UG-ELEC | ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE |
| ⊗ | GAS MAIN, VALVE & GAS LINE MARKER |
| ⊗ | WATERMAIN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE |
| ⊗ | SANITARY SEWER, CLEANOUT & MANHOLE |
| ⊗ | STORM SEWER, CLEANOUT & MANHOLE |
| ⊗ | COMBINED SEWER & MANHOLE |
| ⊗ | SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN |
| ⊗ | POST INDICATOR VALVE |
| ⊗ | WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF |
| ⊗ | MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE |
| ⊗ | UNIDENTIFIED STRUCTURE |
| ⊗ | SPOT ELEVATION |
| — 670 — | CONTOUR LINE |
| — X — | FENCE |
| — X — | GUARDRAIL |
| — X — | STREET LIGHT |
| — X — | SIGN |
| — CONC. — | CONCRETE |
| — ASPHL — | ASPHALT |
| — GRAVEL — | GRAVEL SHOULDER |
| — WETLAND — | WETLAND |

NOTE
FOR SIGN TYPES REFER TO SHEET C-3.0.

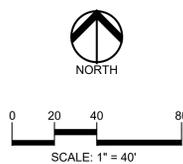
SYMBOLS: GRADING
PROPOSED SPOT ELEVATION:
TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES.

PROPOSED CONTOUR LINE
— 35 —
ABBREVIATIONS:
T/C = TOP OF CURB
G = GUTTER GRADE
T/P = TOP OF PAVEMENT
T/S = TOP OF SIDEWALK
T/W = TOP OF WALL
B/W = BOTTOM OF WALL
F.C. = FINISH GRADE
RIM = RIM ELEVATION

RETAINING WALL NOTE:
TOP OF WALL (T/W) AND BOTTOM OF WALL (B/W) GRADES ARE THE FINISH GRADE AT THE TOP AND BOTTOM OF THE RETAINING WALL, NOT ACTUAL TOP AND BOTTOM OF THE WALL STRUCTURE.



S:\PROJECTS\2021\0277 SPACE SHOP MASSILLON ON\WD\STATE PLANS\C-4.0 GRADING-21-0277.dwg



CAUTION!
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CLIENT
STEIN INVESTMENT GROUP
 5607 GLENRIDGE DRIVE, SUITE 200
 ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP-MASSILLON
 2600 LINCOLN WAY E
 MASSILLON, STARK COUNTY, OHIO

REVISIONS	
PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

ORIGINAL ISSUE DATE:
 JULY 21, 2021

DRAWING TITLE
DETAIL RESTAURANT GRADING

PEA JOB NO.	2021-0277
P.M.	LA
DN.	JKS
DES.	JDS

DRAWING NUMBER:

C-4.1

LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊙ R. RECORDED
⊗ NAL FOUND	⊗ MONUMENT SET	⊙ M. MEASURED
⊗ NAL & CAP SET		⊙ C. CALCULATED

EXISTING

- OH-ELEC-U-G: ELEC. PHONE OR CABLE TV U.G. LINE, POLE & GUY WIRE
- UG-CATV: UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE: TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC: ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS VALVE: GAS VALVE & GAS LINE MARKER
- WATERMAN, HYD.: WATERMAN, HYD., GATE VALVE, TAPPING BLEEVE & VALVE
- SANITARY SEWER: SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER: STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER: COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BOX: WATER VALVE BOX, HYDRANT VALVE BOX, SERVICE SHUTOFF
- MALBOX: MALBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIEN
- CONC.: CONCRETE
- ASPH.: ASPHALT
- GRAVEL: GRAVEL SHOULDER
- WETLAND

PROPOSED

- 310: HEAVY FLOW DUTY ONLY
- 315: HEAVY MILL AND DUTY OVERLAY

NOTE
 FOR SIGN TYPES REFER TO SHEET C-3.0.

SYMBOLS: GRADING

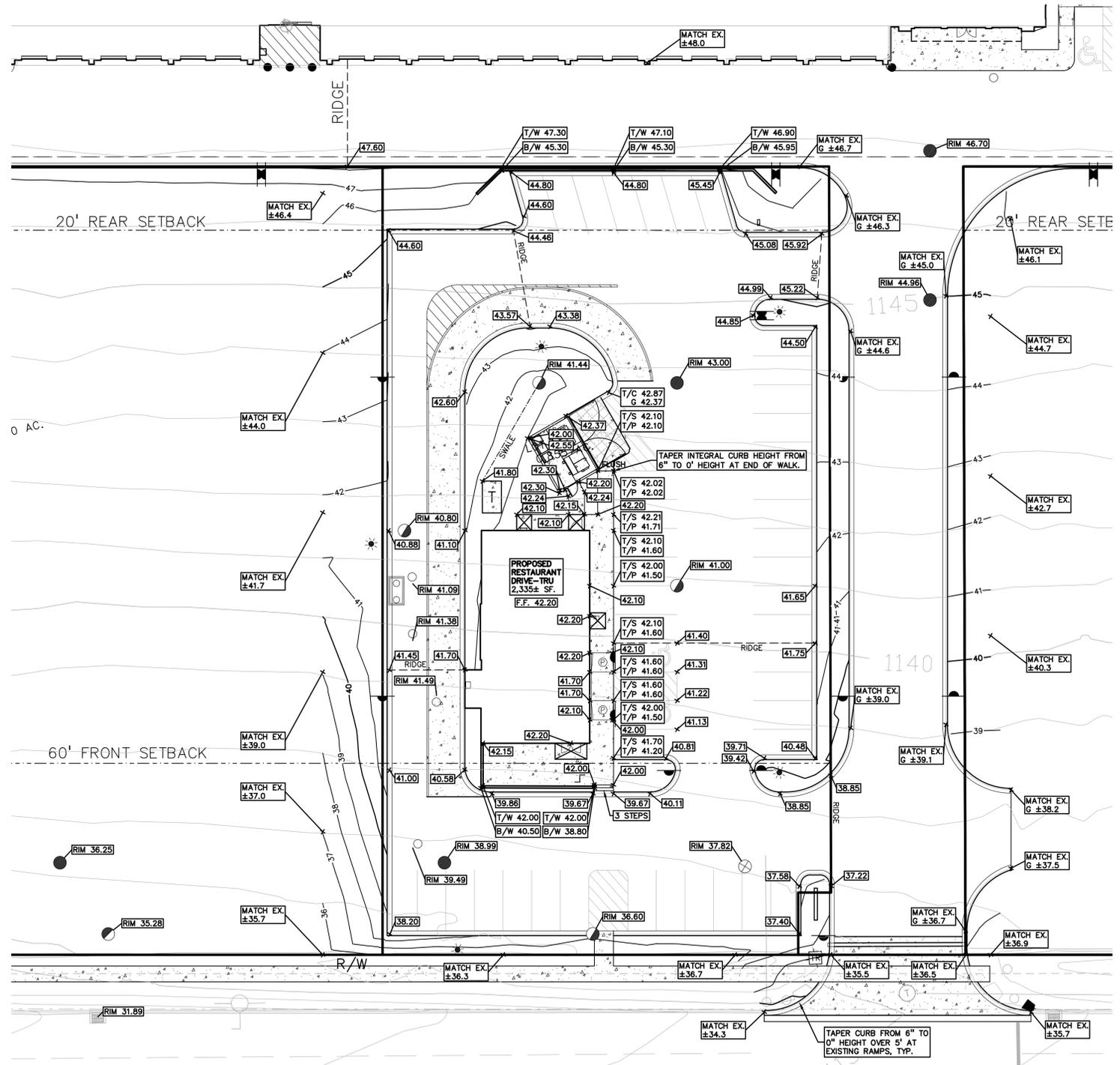
PROPOSED SPOT ELEVATION: TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES.

PROPOSED CONTOUR LINE

ABBREVIATIONS:
 T/C = TOP OF CURB
 G = GUTTER GRADE
 T/P = TOP OF PAVEMENT
 T/S = TOP OF SIDEWALK
 T/W = TOP OF WALL
 B/W = BOTTOM OF WALL
 F.C. = FINISH GRADE
 RIM = RIM ELEVATION

NOTE: ALL PROPOSED GRADES, RIMS AND INVERTS ARE SHOWN -1100' FROM REAL ELEVATION VALUE.

RETAINING WALL NOTE:
 TOP OF WALL (T/W) AND BOTTOM OF WALL (B/W) GRADES ARE THE FINISH GRADE AT THE TOP AND BOTTOM OF THE RETAINING WALL, NOT ACTUAL TOP AND BOTTOM OF THE WALL STRUCTURE.



CITY OF MASSILLON NOTE:

THE CONTRACTOR SHALL PREVENT AND/OR REDUCE AND CONTROL SOIL EROSION RESULTING FROM THE PROPOSED IMPROVEMENTS. THE USE OF SILT FENCING, MUTE MATTING, TEMPORARY SEEDING, SILT CHECKS, INLET PROTECTION AROUNDALL CATCH BASINS, STABILIZED CONSTRUCTION ENTRANCE(S), ETC. WILL BE REQUIRED. SEDIMENT CONTROL STRUCTURES/DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL RAINWATER AND LAND DEVELOPMENT - OHIO'S STANDARDS FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION. SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS SET FORTH ON THE APPROVED STORM WATER POLLUTION PREVENTION PLAN IF APPLICABLE, OR AS DETAILED ON THE CONSTRUCTION PLANS, AS SPECIFIED BY THE CITY OF MASSILLON.

SEQUENCE OF CONSTRUCTION:

START DAY	END DAY	DESCRIPTION
1	90	INSTALL CRUSHED CONCRETE ACCESS APPROACH AT SITE ROAD APPROACH.
1	90	INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES, SILT FENCES, INLET PROTECTION, ETC. AS NECESSARY.
1	120	MAINTAIN A 25' BUFFER OF VEGETATION AROUND PERIMETER OF SITE WHERE POSSIBLE.
1	15	REMOVE ALL VEGETATION, TREES AND BRUSH FROM THE PROPOSED CONSTRUCTION AREA UNLESS MARKED TO REMAIN. STRIP AND STOCKPILE TOPSOIL AS REQUIRED RESTORATION. ALL STOCKPILES MUST BE GRADED AND SEEDED.
5	14	REMOVE ALL PAVEMENT, CURB, UTILITIES, ETC. AS REQUIRED TO INSTALL THE PROPOSED WORK AS SHOWN ON THE TOPOGRAPHIC SURVEY AND DEMOLITION PLAN.
5	14	DISPOSE OF ALL EXCESS/UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO ON-SITE BURN OR BURY PITS ALLOWED.
14	28	ROUGH GRADE SITE. SEE AND MULCH BLANKETS MUST BE INSTALLED AS SHOWN WITHIN 5 DAYS OF FINAL GRADE. REPAIR AND/OR RE-INSTALL ALL TEMPORARY SOIL EROSION CONTROL MEASURES THAT WERE DAMAGED DURING GRADING OPERATIONS.

SOIL EROSION NARRATIVE:

EROSION CONTROL WILL BE UTILIZED FOR BOTH THE EXISTING BUILDING, PAVEMENT AND SEWER RETROFIT. ALL STORM CATCH BASINS WILL REQUIRE A SILT SACK OR APPROVED ALTERNATIVE. TRENCH DRAINS WILL BE PROTECTED FROM SILTED RUNOFF. PAVEMENT AREAS TO BE REMOVED AS NECESSARY FOR GRADING. THESE AREAS WILL REQUIRE SEEDING. ALL MEASURES TO BE CONSTRUCTED PER SEDIMENTATION CONTROL NOTES ON THIS PAGE.

THE PROPOSED DRIVE-THRU RESTAURANT WILL REQUIRE STANDARD TYPICAL SOIL EROSION AND SEDIMENT CONTROL. ALL CATCH BASINS WILL REQUIRE A SILT SACK OR APPROVED ALTERNATIVE. ALL MEASURES TO BE CONSTRUCTED PER SEDIMENTATION CONTROL NOTES ON THIS PAGE.

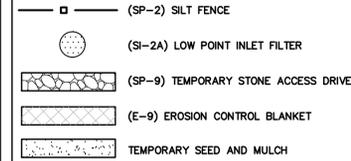
NOTE:

IT IS PROHIBITED TO BURN, BURY OR POUR OUT ONTO THE GROUND OR INTO THE STORM SEWERS ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, AND ANTIFREEZE, CEMENT CURING COMPOUNDS AND OTHER SUCH TOXIC OR HAZARDOUS WASTES.

EROSION CONTROL QUANTITIES:

SILT FENCE	3,444 LF
LOW POINT INLET FILTER	16 EA.
TEMPORARY CONSTRUCTION ACCESS DRIVE	1 EA.
EROSION CONTROL BLANKETS	920 SY.

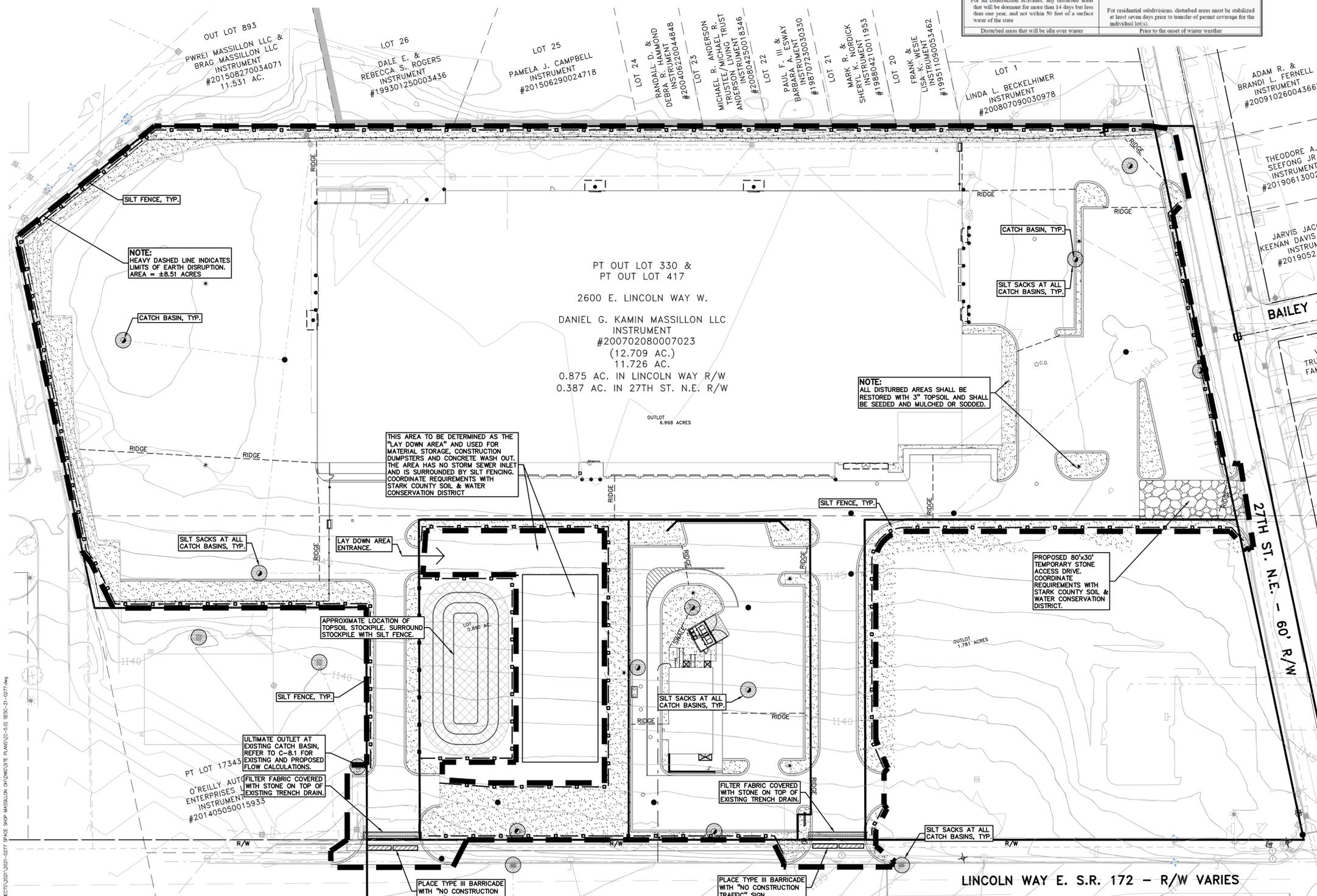
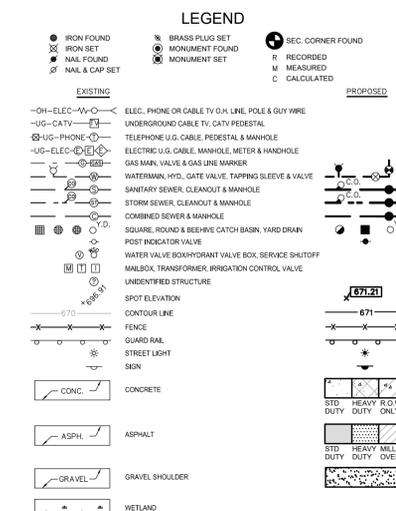
SYMBOLS: EROSION CONTROL:



REFER TO SOIL EROSION DETAIL SHEET C-5.1 AND SEDIMENTATION CONTROL COUNTY DETAILS SHEET FOR ALL DEVICE DETAILS.

Permanent Stabilization	
Area requiring permanent stabilization	Time frame to apply erosion controls
Any areas that will be dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a surface water of the state and at final grade	Within two days of reaching final grade
Any other areas at final grade	Within seven days of reaching final grade within that area

Temporary Stabilization	
Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a surface water of the state and not at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 14 days
For all construction activities, any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of a surface water of the state	Within seven days of the most recent disturbance within the area
Disturbed areas that will be idle over winter	For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s). For non-residential subdivisions, disturbed areas must be stabilized prior to the onset of winter weather



SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE OF CONSTRUCTION

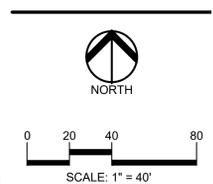
- CONTACT STARK SOIL & WATER CONSERVATION DISTRICT TO SCHEDULE A PRE-CONSTRUCTION MEETING AT (330) 451-7645 PRIOR TO ANY EARTH MOVING ACTIVITY.
- SEE STARK COUNTY W.R.C. SOIL EROSION AND SEDIMENTATION CONTROL DETAILS SHEET FOR ALL SOIL EROSION CONTROL RELATED DETAILS.
- PLACE SILT FENCE & INSTALL INLET FILTERS ON EXISTING STORM SEWER STRUCTURES, ACCORDING TO PLANS.
- INSTALL TEMPORARY CRUSHED CONCRETE ACCESS DRIVE AT ALL CONSTRUCTION ENTRANCES. (80"x24"x8" W/MINIMUM OF 1"-3" CRUSHED CONCRETE - NO FINES).
- REMOVE CURB, PAVEMENT, TREES, ETC. AS DIRECTED ON THE DEMOLITION PLAN.
- STRIP AND STOCKPILE TOPSOIL FOR RESTORATION REQUIREMENTS.
- DISPOSE OF ALL EXCESS, UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO BURN OR BURY PITS ALLOWED.
- UNDESIRABLE MATERIALS CONSIST OF, BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING: CONCRETE, ASPHALT, TREES, BRUSH, STUMPS, ROOTS, OR OTHER MISCELLANEOUS DEBRIS OR TRASH.
- MASS GRADE THE SITE IN ACCORDANCE WITH THE PLANS.
- INSTALL SEED, MULCH AND EROSION CONTROL BLANKETS AS SHOWN ON THE PLAN WITHIN 5 DAYS OF COMPLETION OF MASS GRADING OR WHENEVER DISTURBED AREAS WILL REMAIN UNCHANGED FOR 30 DAYS OR GREATER. 3-4" TOPSOIL WILL BE USED WHERE VEGETATION IS REQUIRED. REFER TO STABILIZATION CHART ON THIS SHEET PER STARK COUNTY REQUIREMENTS.
- COMPLETE ROUGH GRADING OF SITE AND INSTALL UTILITIES. PLACE INLET FILTERS AT ALL INLETS AND CATCH BASINS, AS SHOWN.
- FINISH GRADE AND PAVE SITE AS PROPOSED TO DRAIN TO STORM SEWER SYSTEM. REPAIR INLET FILTERS AS REQUIRED.
- APPLY TOPSOIL, SEED AND MULCH/SOD TO ALL DISTURBED AREAS UPON COMPLETION OF GRADING. THE CONTRACTOR SHALL STAGE CONSTRUCTION ACTIVITIES IN ORDER TO MINIMIZE THE EXPOSURE OF UNSTABILIZED AREAS.
- CLEAN PAVEMENT AND STORM SEWERS. REMOVE SILT FENCE, AND INLET FILTERS ONCE VEGETATION HAS BEEN ESTABLISHED.
- CLEAN DETENTION BASIN AND OVERFLOW SPILLWAYS AND REPAIR RIPRAP AS NECESSARY.
- ALL DIRT AND MUD TRACKED ONTO PUBLIC ROADS SHALL BE REMOVED DAILY.
- STREET CATCH BASINS TO BE PERIODICALLY CLEANED AND FILTER CLOTH CHANGED AND MAINTAINED.

SOIL EROSION MAINTENANCE SCHEDULE AND NOTES:

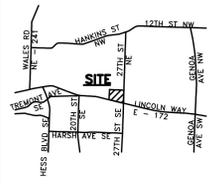
- THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY: TBD
- IF ANY DAMAGE HAS OCCURRED OR WHEN EROSION PRACTICES FAIL OR NEED REPAIRS AS A RESULT OF STORM WATER DISCHARGE FROM THE SITE, THE FOLLOWING STEPS SHALL BE IMPLEMENTED.
- ANY DEBRIS OR DIRT ON ANY PAVED AREA RESULTING FROM CONSTRUCTION TRAFFIC SHALL BE CLEANED IN A PROMPT MANNER BY THE CONTRACTOR. THE CONSTRUCTION DRIVE SHALL BE CLEANED AT THE END OF EACH DAY.
- ALL DIRT AND MUD TRACKED ONTO PAVED AREAS SHALL BE REMOVED BY THE CONTRACTOR DAILY BY SCRAPING. STREET SWEEPING IS REQUIRED WEEKLY.
- SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT UP SEDIMENT WHEN THE SEDIMENT HEIGHT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE FENCE. THE CONTRACTOR IS RESPONSIBLE TO REMOVE, REPLACE, RETRENCH OR REBACKFILL. THE SILTATION FENCE SHOULD IT FALL OR BE DAMAGED DURING CONSTRUCTION.
- INLET FILTER MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY ACCUMULATED SILT OR OTHER DEBRIS. THE REMOVAL OF SILT SHOULD BE WITH THE USE OF A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF INLET FILTERS CAN NOT BE CLEANED OR ARE DAMAGED, THEN THE FABRIC MUST BE REPLACED.
- CONTRACTOR TO PROVIDE WATER TRUCK TO WATER DOWN THE SITE ON A DAILY BASIS AS REQUIRED TO MAINTAIN SILT CONTROL.
- IF HIGH GROUNDWATER IS ANTICIPATED OR ENCOUNTERED DURING CONSTRUCTION A DEWATERING PLAN MUST BE SUBMITTED TO THE CITY ENGINEERING DIVISION FOR REVIEW.
- IF EROSION PRACTICES REPEATEDLY FAIL THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER.
- IF THE CONTRACTOR FINDS THAT THE SOIL EROSION MEASURES HAVE NOT BEEN INSTALLED PER THE SWPPP AND THIS PLAN, ALL WORK SHALL HALT UNTIL THE INSTALLATION HAS BEEN CORRECTED.
- REFER TO C-5.1 FOR OHIO EPA PERMIT OCH000005, PART III.G.2.I INSPECTION REQUIREMENTS.

GENERAL SITE CONDITIONS:

- TOTAL DISTURBED AREA = ±8.51 ACRES
- N.P.D.E.S. NOTICE OF COVERAGE IS REQUIRED



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CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP-MASSILLON
2600 LINCOLN WAY E.
MASSILLON, STARK COUNTY, OHIO

REVISIONS

NO.	DESCRIPTION	DATE
1	PER CITY REVIEW	9.9.2021
2	ISSUED FOR CONSTRUCTION	10.15.2021
3	PER COUNTY COMMENTS	11.03.2021

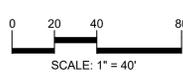
ORIGINAL ISSUE DATE:
JULY 21, 2021
DRAWING TITLE:
SESC PLAN

PEA JOB NO. 2021-0277

P.M.	LA
DN.	JDS
DES.	JDS

DRAWING NUMBER:

C-5.0



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CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP MASSILLON
2600 LINCOLN WAY E
MASSILLON, STARK COUNTY, OHIO

REVISIONS	
PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

ORIGINAL ISSUE DATE:
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DRAWING TITLE
SESC DETAILS

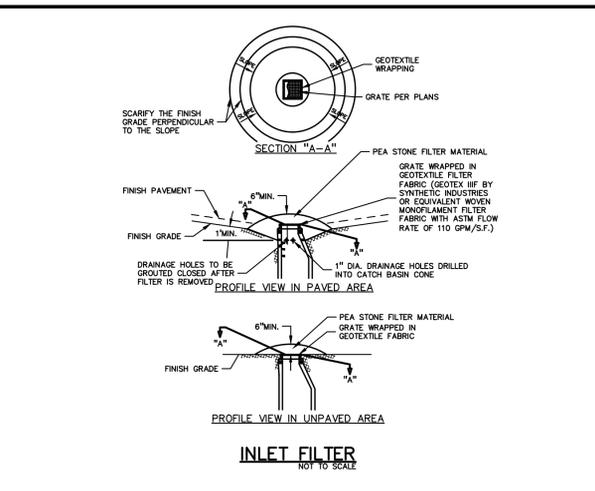
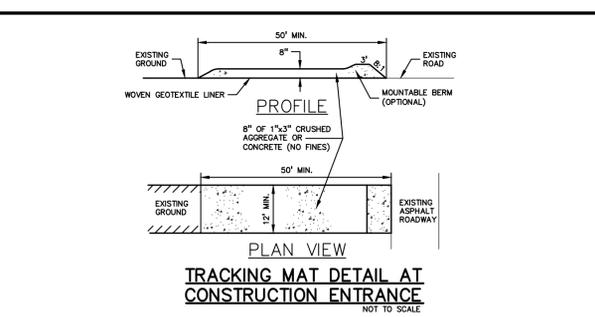
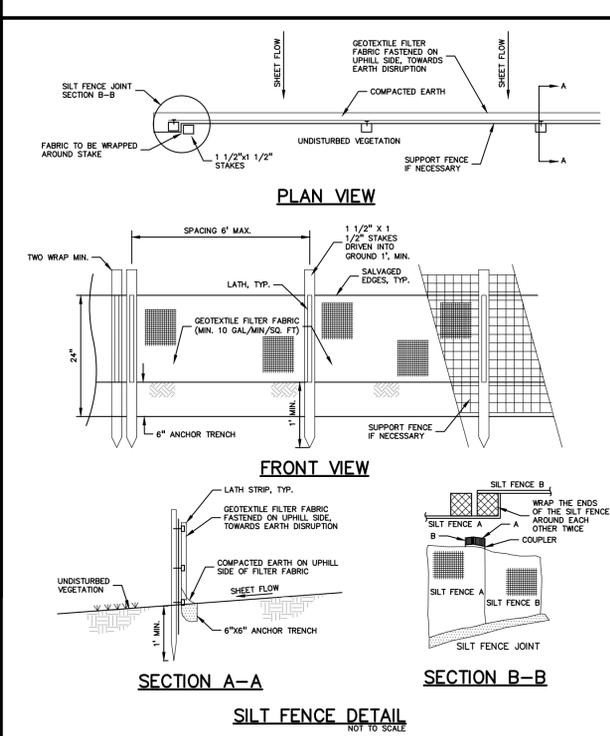
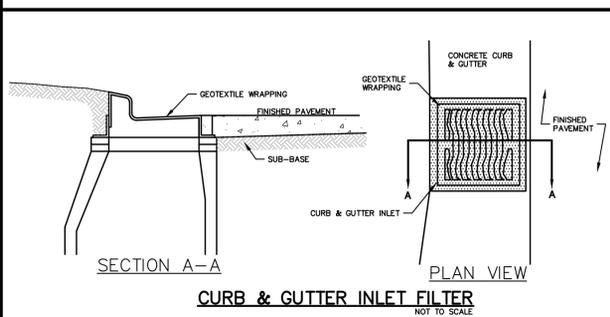
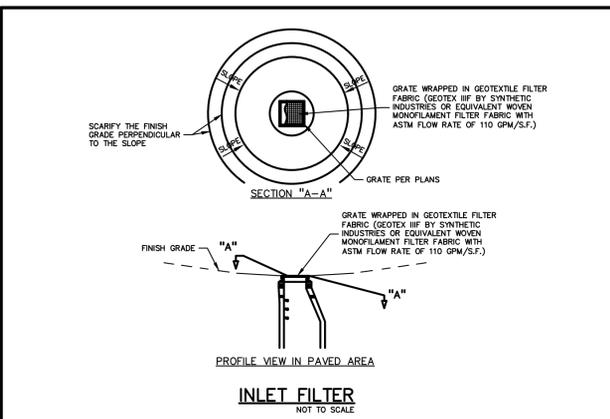
PEA JOB NO.	2021-0277
P.M.	LA
DN.	JKS
DES.	JDS

DRAWING NUMBER:
C-5.1

LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊙ MONUMENT FOUND	R RECORDED
⊗ NAL FOUND	⊗ MONUMENT SET	M MEASURED
⊗ NAL & CAP SET		C CALCULATED

—OH-ELEC—	ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
—UG-CATV—	UNDERGROUND CABLE TV, CATV PEDESTAL
—UG-PHONE—	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
—UG-ELEC—	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
—GAS—	GAS MAIN, VALVE & GAS LINE MARKER
—WATER—	WATERMAIN, HYD. GATE VALVE, TAPPING BLEEVE & VALVE
—SEWER—	SANITARY SEWER, CLEANOUT & MANHOLE
—STORM—	STORM SEWER, CLEANOUT & MANHOLE
—COMB.—	COMBINED SEWER & MANHOLE
—SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN	
—POST INDICATOR VALVE	
—WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF	
—MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE	
—UNIDENTIFIED STRUCTURE	
—SPOT ELEVATION	
—CONTOUR LINE	
—FENCE	
—GUARD RAIL	
—STREET LIGHT	
—SIGN	
—CONC.—	CONCRETE
—ASPH.—	ASPHALT
—GRAVEL—	GRAVEL SHOULDER
—WETLAND	

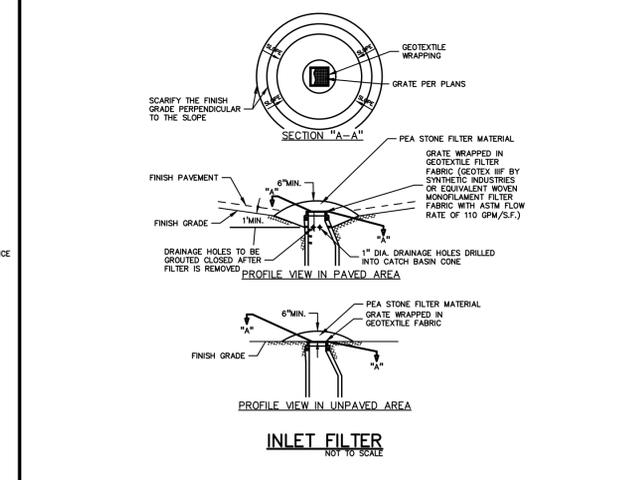
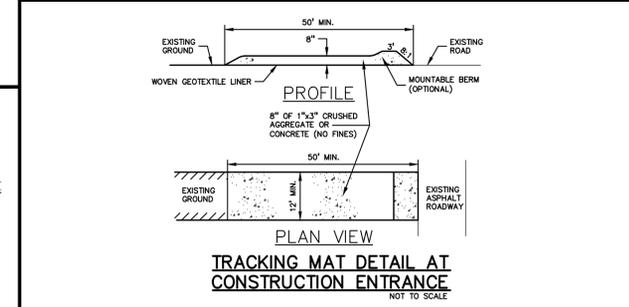
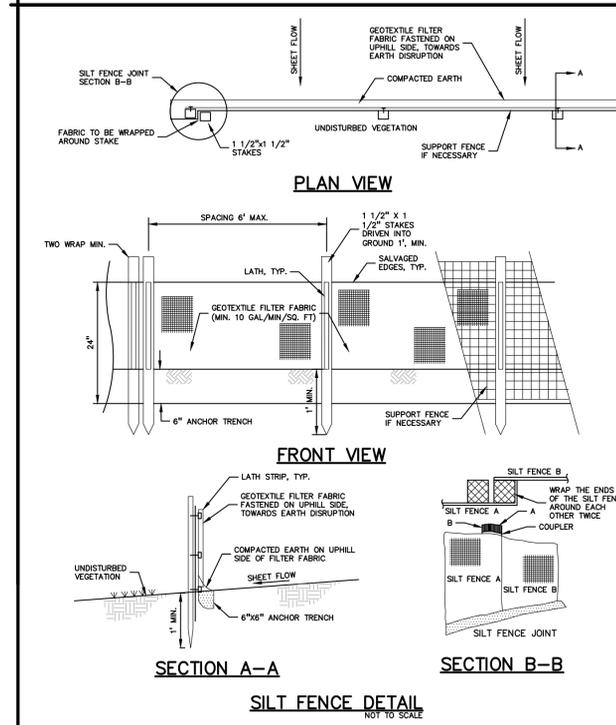
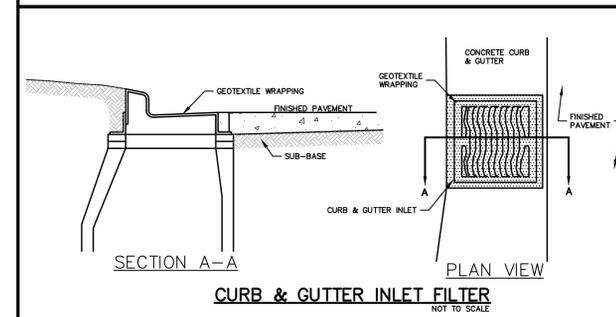
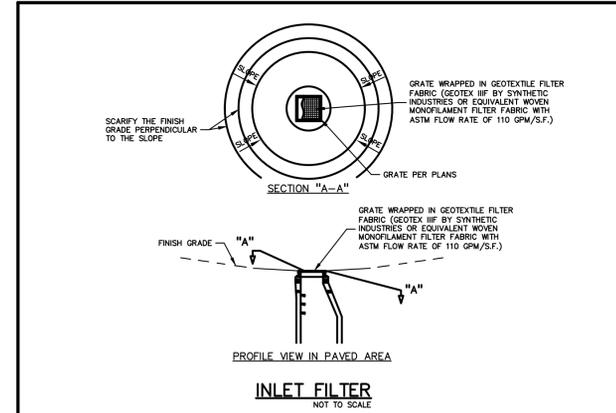


Per Ohio EPA Permit OCH000005, Part III.G.2.i – Inspections:
 The permittee shall maintain for three years following the submittal of a notice of termination form, a record summarizing the results of the inspection, names(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWP3 and a certification as to whether the facility is in compliance with the SWP3 and the permit and identify any incidents of non-compliance. The record and certification shall be signed in accordance with Part V.G. of this permit.

i. When practices require repair or maintenance. If the inspection reveals that a control practice is in need of repair or maintenance, with the exception of a sediment settling pond, it shall be repaired or maintained within 3 days of the inspection. Sediment settling ponds shall be repaired or maintained within 10 days of the inspection.

ii. When practices fail to provide their intended function. If the inspection reveals that a control practice fails to perform its intended function and that another, more appropriate control practice is required, the SWP3 shall be amended and the new control practice shall be installed within 10 days of the inspection.

iii. When practices depicted on the SWP3 are not installed. If the inspection reveals that a control practice has not been implemented in accordance with the schedule contained in Part III.G.1.h of this permit, the control practice shall be implemented within 10 days from the date of the inspection. If the inspection reveals that the planned control practice is not needed, the record shall contain a statement of explanation as to why the control practice is not needed



LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	R RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	M MEASURED
⊗ NAIL & CAP SET		C CALCULATED

EXISTING

- OH-ELEC- W-O- ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV- UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE- TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC- U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS- GAS MAIN, VALVE & GAS LINE MARKER
- WATER- WATER MAIN, HYD. GATE VALVE, TAPPING BLEEVE & VALVE
- SEWER- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM- STORM SEWER, CLEANOUT & MANHOLE
- COMB- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BODY/DRYANT VALVE BOX, SERVICE SHUTOFF
- MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARDRAIL
- STREET LIGHT
- SIGN
- CONC. CONCRETE
- ASPH. ASPHALT
- GRAVEL GRAVEL SHOULDER
- WETLAND WETLAND

PROPOSED

- 310 HEAVY FLOW DUTY ONLY
- 310 HEAVY MILL AND DUTY OVERLAY

PEA GROUP
 t. 844.813.2949
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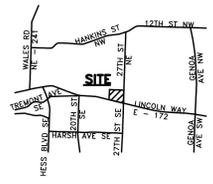
STATE OF OHIO
 David N. Hunter
 74979
 REGISTERED PROFESSIONAL ENGINEER

NORTH

0 20 40 80
 SCALE: 1" = 40'

811 Know what's below. Call before you dig.

CAUTION!
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CLIENT
STEIN INVESTMENT GROUP
 5607 GLENRIDGE DRIVE, SUITE 200
 ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP-MASSILLON
 2600 LINCOLN WAY E
 MASSILLON, STARK COUNTY, OHIO

REVISIONS

PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

ORIGINAL ISSUE DATE:
 JULY 21, 2021

DRAWING TITLE
SESC DETAILS

PEA JOB NO.	2021-0277
P.M.	LA
DN.	JKS
DES.	JDS

DRAWING NUMBER:
C-5.1



0 20 40 80
SCALE: 1" = 40'



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CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP MASSILLON
2600 LINCOLN WAY E.
MASSILLON, STARK COUNTY, OHIO

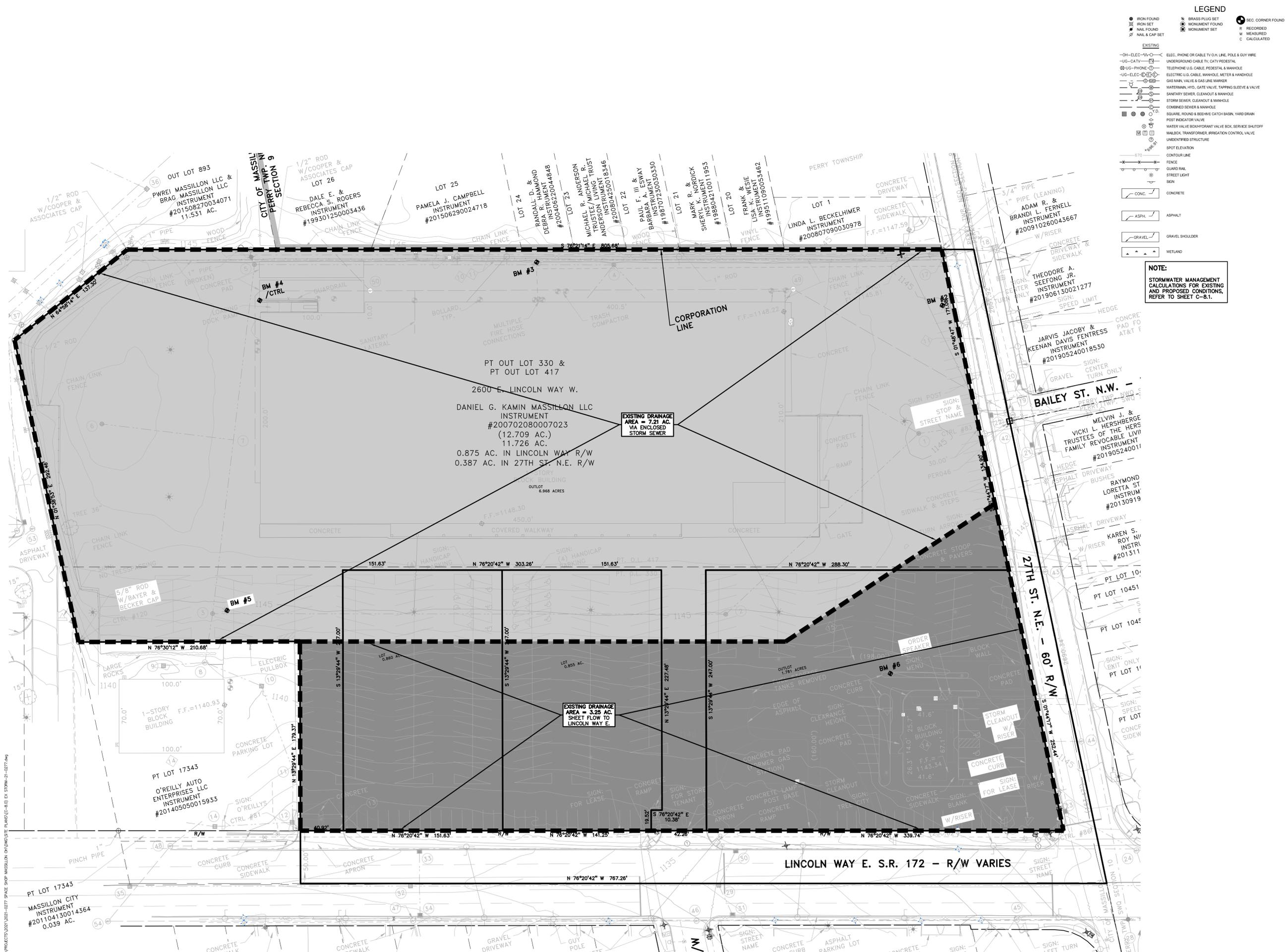
REVISIONS	
PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

ORIGINAL ISSUE DATE:
JULY 21, 2021

DRAWING TITLE
EXISTING DRAINAGE MAP

PEA JOB NO.	2021-0277
P.M.	LA
DN.	JKS
DES.	JDS
DRAWING NUMBER:	

C-8.0



LEGEND

- IRON FOUND
 - ⊗ IRON SET
 - ⊙ NAIL FOUND
 - ⊗ NAIL & CAP SET
 - ⊗ BRASS PLUG SET
 - ⊙ MONUMENT FOUND
 - ⊗ MONUMENT SET
 - ⊙ SEC. CORNER FOUND
 - ⊗ RECORDED
 - ⊙ M. MEASURED
 - ⊗ C. CALCULATED
- EXISTING**
- ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
 - UG-CATV
 - UG-PHONE
 - ELEC. U.G. CABLE, MANHOLE, METER & HANDHOLE
 - GAS MAN. VALVE & GAS LINE MARKER
 - WATERMAN. HYD. GATE VALVE, TAPPING BLEEVE & VALVE
 - SANITARY SEWER, CLEANOUT & MANHOLE
 - STORM SEWER, CLEANOUT & MANHOLE
 - COMBINED SEWER & MANHOLE
 - SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
 - POST INDICATOR VALVE
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 - SPOT ELEVATION
 - CONTOUR LINE
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 - GUARDRAIL
 - STREET LIGHT
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 - CONC. CONCRETE
 - ASPH. ASPHALT
 - GRAVEL SHOULDER
 - WETLAND

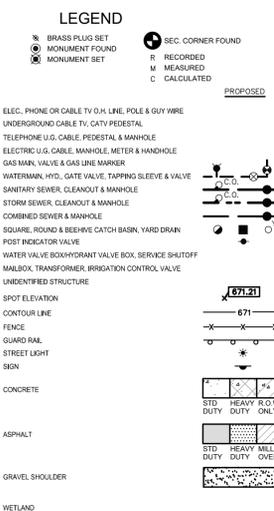
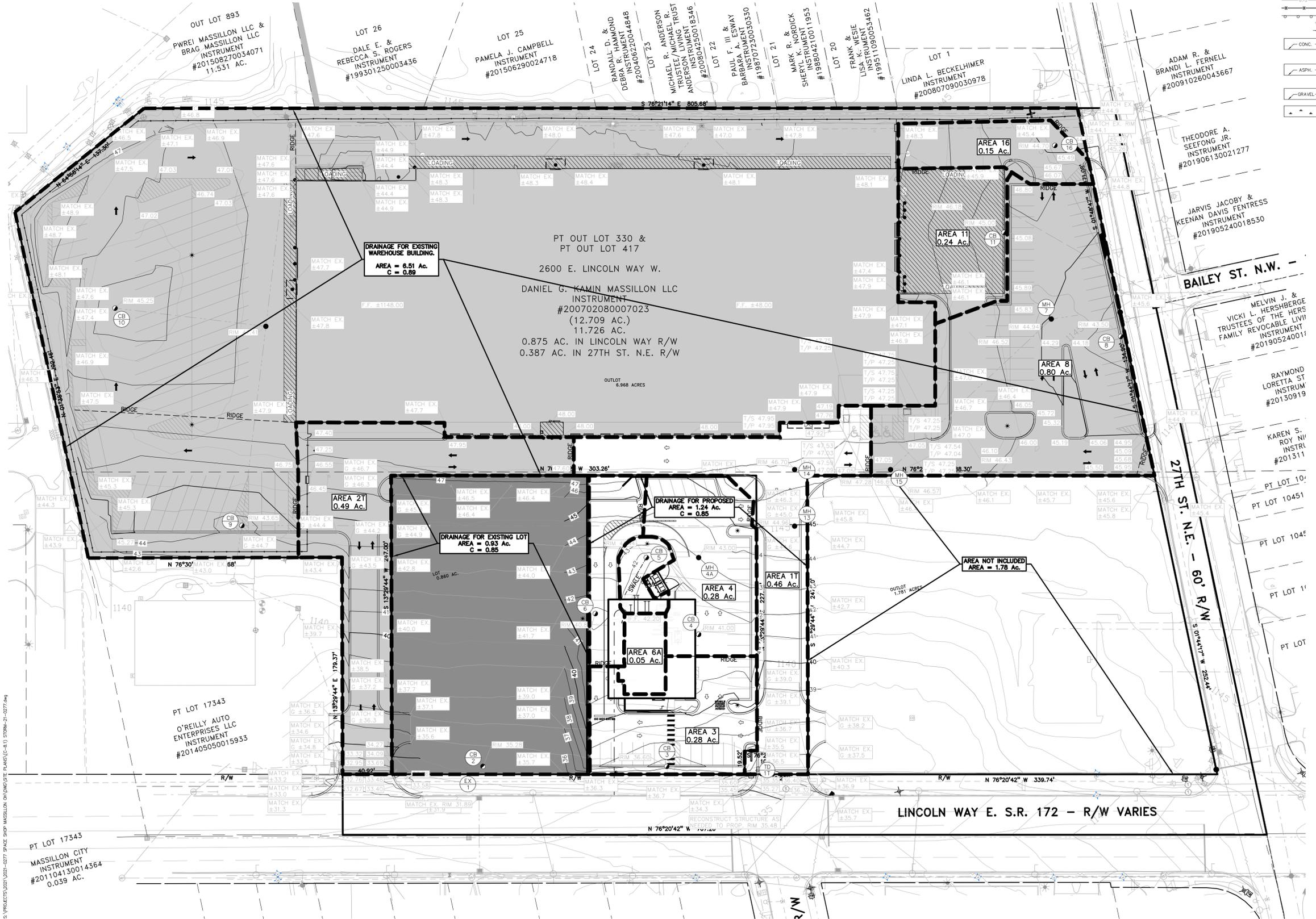
NOTE:
STORMWATER MANAGEMENT CALCULATIONS FOR EXISTING AND PROPOSED CONDITIONS, REFER TO SHEET C-8.1.

S:\PROJECTS\2021\0277 SPACE SHOP MASSILLON ON\DWG\SITE PLANS\C-8.0 EX STORM-21-0277.dwg

STORM SEWER SYSTEM DESIGN - 10 YEAR

I = B(T+D) * E
 B = 175.0 D = 25.0 E = 1
 C = varies
 T = 15 (min.)
 Pipe "n" Value = 0.013

FROM STR	TO STR	AREA (A) (Acres)	COEF. C	A x C	TOTAL AREA (Acres)	TIME t (min.)	INT. I (in/hr)	FLOW Q (cfs)	PIPE CAP. (cfs)	PIPE DIA. (in.)	PIPE LENGTH (ft.)	PIPE SLOPE (%)	MIN HG PER "Q"	VEL. FULL (ft/sec)	TIME FLOW (min.)	H.G.L. ELEV. UP STREAM	H.G.L. ELEV. DOWN STREAM	RIM ELEV. UP STREAM	RIM ELEV. DOWN STREAM	INVERT ELEV. UP STREAM	INVERT ELEV. DOWN STREAM	PIPE COVER UP STREAM	PIPE COVER DOWN STREAM	HGL COVER UP STREAM	HGL COVER DOWN STREAM	
6	5	0.12	0.81	0.10	0.15	0.18	15.00	4.38	0.65	2.52	12	63	0.50	0.03%	3.2	0.3	37.55	37.24	40.80	41.44	38.75	36.44	2.88	3.84	3.25	4.20
5	4A	0.05	0.49	0.02	0.17	0.22	15.30	4.34	0.75	2.52	12	43	0.50	0.04%	3.2	0.2	35.74	35.52	41.44	43.00	34.94	34.72	5.34	7.11	5.70	7.48
4A	4	0.00	0.00	0.17	0.22	15.50	4.32	0.75	18.00	24	84	0.50	0.00%	5.1	0.2	34.02	33.71	43.00	41.00	32.42	32.11	8.33	6.84	8.98	7.29	
4	3	0.28	0.90	0.25	0.42	0.50	15.70	4.30	1.81	47.16	36	112	0.50	0.00%	6.7	0.3	32.21	31.84	41.00	36.60	29.81	29.24	7.96	4.02	8.79	4.96
3	2	0.28	0.87	0.24	1.10	1.24	16.00	4.27	4.69	47.16	36	153	0.50	0.00%	6.7	0.4	31.38	31.37	36.60	35.28	27.74	26.98	5.52	4.96	5.22	3.90
2	1	0.00	0.00	0.00	1.10	1.24	16.40	4.23	4.69	0.71	8	26	0.35	15.00%	2.0	0.2	31.37	27.42	35.28	31.89	26.98	26.89	7.49	4.19	3.90	4.47
8	7	0.80	0.88	0.70	0.70	0.80	15.00	4.38	3.06	3.10	15	99	0.23	0.22%	2.5	0.4	40.30	40.16	43.50	44.94	39.30	39.16	2.77	4.34	3.20	4.78
16	11	0.15	0.91	0.13	0.13	0.15	15.00	4.38	0.58	2.02	12	83	0.32	0.03%	2.6	0.5	40.49	40.22	44.70	45.00	39.69	39.42	3.85	4.41	4.21	4.78
11	7	0.24	0.91	0.22	0.35	0.39	15.50	4.32	1.52	2.02	12	82	0.32	0.18%	2.6	0.5	40.22	39.96	44.94	45.00	39.42	38.16	4.41	4.62	4.78	4.98
15	14	0.00	0.00	0.00	0.00	0.00	15.00	4.38	0.00	3.51	12	80	0.97	0.00%	4.5	0.3	37.51	36.73	46.57	46.70	36.71	35.93	8.69	9.60	9.06	9.96
14	13	0.00	0.00	0.00	0.00	0.00	15.30	4.34	0.00	3.51	12	47	0.97	0.00%	4.5	0.2	36.73	36.28	46.70	44.96	35.93	35.48	9.60	8.31	9.96	8.68
17	3	0.46	0.95	0.44	0.44	0.46	15.00	4.38	1.92	2.25	12	75	0.40	0.29%	2.9	0.4	31.60	31.38	35.75	36.60	29.64	29.34	4.94	6.09	4.15	5.22



PEA GROUP
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STATE OF OHIO
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CLIENT
STEIN INVESTMENT GROUP
 5607 GLENRIDGE DRIVE, SUITE 200
 ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP-MASSILLON
 2600 LINCOLN WAY E
 MASSILLON, OHIO

REVISIONS
 PER CITY REVIEW 9.9.2021
 ISSUED FOR CONSTRUCTION 10.15.2021
 PER COUNTY COMMENTS 11.03.2021

ORIGINAL ISSUE DATE:
 JULY 21, 2021

DRAWING TITLE
STORMWATER MANAGEMENT PLAN

PEA JOB NO. 2021-0277
 P.M. LA
 DN. JKS
 DS. JKS

DRAWING NUMBER:
C-8.1

STORM WATER MANAGEMENT NARRATIVE:

PROJECT NARRATIVE:
 THE EXISTING FULLY DEVELOPED SITE IS 10.46 NET ACRES OF THAT 1.78 ACRES WILL NOT BE PART OF THIS DEVELOPMENT. CURRENTLY 7.21 ACRES OF THE SITE IS CAPTURED IN AN ENCLOSED STORM SYSTEM THAT DRAINS TO THE LINCOLN WAY STORM SYSTEM. THE REMAINING 1.47 ACRES SHEET FLOWS TO THE LINCOLN WAY STORM SYSTEM. ALL OF THIS DRAINAGE FLOWS TO LINCOLN WAY UNRESTRICTED.

OUR DESIGN PROPOSES TO LEAVE THE EXISTING STORM SEWER IN PLACE BUT REDUCE THE AREA CONTRIBUTING TO IT TO 6.51 ACRES. THE REMAINING 2.17 ACRES WILL DRAIN THROUGH A NEW STORM SYSTEM WHICH IS RESTRICTED AND UTILIZES OVERSIZED PIPES TO PROVIDE STORAGE. WE HAVE NOT INCLUDED ANY REQUIRED VOLUME CALCULATIONS FOR DETENTION BASED ON DISCUSSIONS WITH THE CITY ENGINEER DUE TO OUR REDUCTION IN RUNOFF.

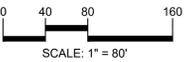
OVER ALL CALCULATIONS:
 THE INITIAL DESIGN WAS TO SIMPLY LOOK AT A COMPARISON OF THE EXISTING VS PROPOSED 100 YEAR FLOWS FROM THE SITE. SEE EXHIBIT. THIS SHOWS A DECREASE IN FLOW FROM 55.65 CFS TO 43.26 CFS BEFORE THE RESTRICTION IS EVEN CONSIDERED.

THE EXISTING LINCOLN WAY SYSTEM WAS VERIFIED BASED ON OLD PLANS PROVIDED BY THE CITY. AS YOU CAN SEE THE SYSTEM IS CURRENTLY UNDER DESIGNED FOR WHAT IS RECEIVING. WHEN WE MODIFY WHERE THE FLOW IS GOING INTO THE SYSTEM AND TAKE INTO ACCOUNT THE RESTRICTED PORTION THERE IS A REDUCTION OF THE FLOW IN THE SYSTEM.

STORM WATER MANAGEMENT

EXISTING CONDITION (100 YEAR)	
EXISTING STORM SEWER	
GROSS AREA =	7.21 Acres
C =	0.95
INTENSITY =	5.60 in/hr
Q _{ex} =	38.36 cfs
EXISTING SHEET FLOW	
GROSS AREA =	3.25 Acres
C =	0.95
INTENSITY =	5.60 in/hr
Q _{ex} =	17.29 cfs
TOTAL Q =	55.65 cfs
PROPOSED CONDITION (100 YEAR)	
EXISTING STORM SEWER	
GROSS AREA =	6.51 Acres
C =	0.89
INTENSITY =	5.60 in/hr
Q _{ex} =	32.45 cfs
PROPOSED STORM SEWER:	
GROSS AREA =	2.17 Acres
C =	0.89
INTENSITY =	5.60 in/hr
Q _{ex} =	10.82 cfs
TOTAL Q =	43.26 cfs

S:\PROJECTS\2021\0277 SPACE SHOP MASSILLON ON\DWG\SITE PLANS\C-8.1 STORM-21-0277.dwg



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CLIENT
STEIN INVESTMENT GROUP
5607 KENNESAW DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP MASSILLON
2690 LINCOLN WAY E
MASSILLON, STARK COUNTY, OHIO

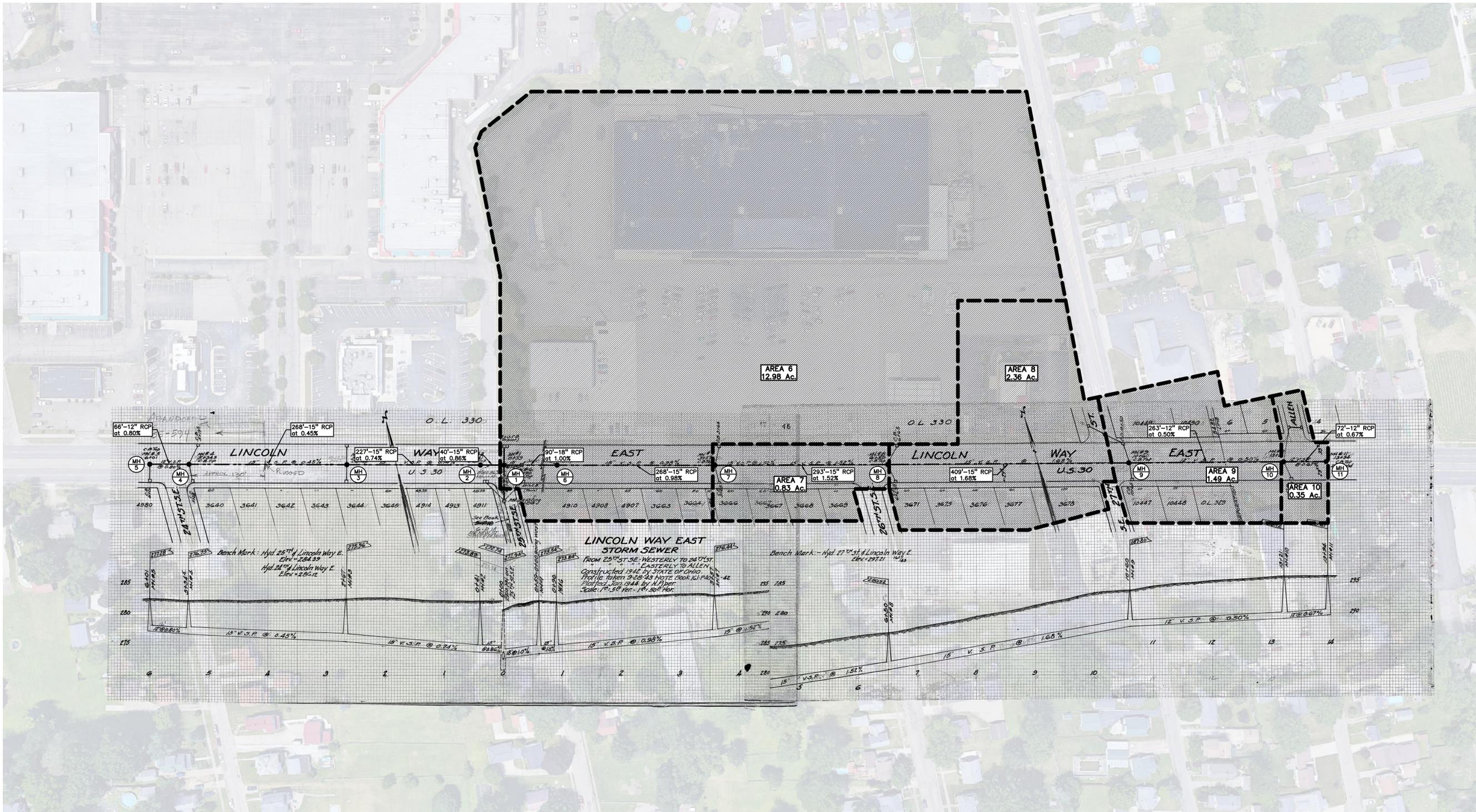
REVISIONS		
PER CITY REVIEW		9.9.2021
ISSUED FOR CONSTRUCTION		10.15.2021
PER COUNTY COMMENTS		11.03.2021

ORIGINAL ISSUE DATE:
JULY 21, 2021

DRAWING TITLE
STORM REPORT

PEA JOB NO. 2021-0277
P.M. LA
DN. JKS
DES. JDS
DRAWING NUMBER:

C-8.2



EXISTING STORM SEWER SYSTEM DESIGN

FROM STR	TO STR	AREA (A) (Acres)	COEF. C	A x C	TOTAL AREA (Ax C) (Acres)	TOTAL AREA (Acres)	TIME t (min.)	INT. I (in/hr)	FLOW Q (cfs)	PIPE CAP. (cfs)	PIPE DIA. (in.)	PIPE LENGTH (ft.)	PIPE SLOPE (%)	MIN HG PER "Q"	VEL. FULL (ft./sec)	TIME FLOW (min.)	INVERT ELEV.	
																	UP STREAM	DOWN STREAM
11	10	0.00	0.00	0.00	0.00	0.00	20.00	3.89	0.00	2.92	12	72	0.67	0.00%	3.7	0.3	290.60	290.12
10	9	0.35	0.68	0.24	0.24	0.35	20.30	3.86	0.92	2.52	12	263	0.50	0.07%	3.2	1.4	290.12	288.81
9	8	1.49	0.85	1.27	1.50	1.84	21.70	3.75	5.64	8.37	15	409	1.68	0.76%	6.8	1.0	288.61	281.73
8	7	2.36	0.87	2.06	3.57	4.20	22.70	3.67	13.08	7.96	15	293	1.52	4.11%	6.5	0.8	281.73	277.28
7	6	0.83	0.71	0.59	4.15	5.02	23.50	3.61	14.98	6.39	15	268	0.98	5.38%	5.2	0.9	277.28	274.65
6	1	12.98	0.95	12.33	16.49	18.01	24.40	3.54	58.40	10.50	18	90	1.00	30.93%	5.9	0.3	274.45	273.55
1	EX1	0.00	0.00	0.00	16.49	18.01	24.70	3.52	58.40	10.50	18	61	1.00	30.93%	5.9	0.2	273.55	272.94

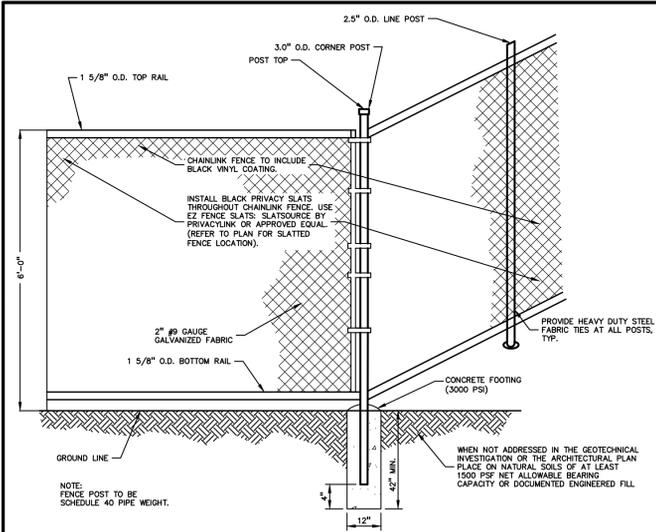
PROPOSED STORM SEWER SYSTEM DESIGN

FROM STR	TO STR	AREA (A) (Acres)	COEF. C	A x C	TOTAL AREA (Ax C) (Acres)	TOTAL AREA (Acres)	TIME t (min.)	INT. I (in/hr)	FLOW Q (cfs)	PIPE CAP. (cfs)	PIPE DIA. (in.)	PIPE LENGTH (ft.)	PIPE SLOPE (%)	MIN HG PER "Q"	VEL. FULL (ft./sec)	TIME FLOW (min.)	INVERT ELEV.	
																	UP STREAM	DOWN STREAM
11	10	0.00	0.00	0.00	0.00	0.00	20.00	3.89	0.00	2.92	12	72	0.67	0.00%	3.7	0.3	290.60	290.12
10	9	0.35	0.68	0.24	0.24	0.35	20.30	3.86	0.92	2.52	12	263	0.50	0.07%	3.2	1.4	290.12	288.81
9	8	1.49	0.85	1.27	1.50	1.84	21.70	3.75	5.64	8.37	15	409	1.68	0.76%	6.8	1.0	288.61	281.73
8	7	2.36	0.87	2.06	3.57	4.20	22.70	3.67	13.08	7.96	15	293	1.52	4.11%	6.5	0.8	281.73	277.28
7	6	0.83	0.71	0.59	4.15	5.02	23.50	3.61	14.98	6.39	15	268	0.98	5.38%	5.2	0.9	277.28	274.65
6	1	10.81	0.89	9.62	15.86	18.01	24.40	3.54	56.17	10.50	18	90	1.00	28.62%	5.9	0.3	274.45	273.55
1	EX1	0.00	0.00	0.00	15.86	18.01	24.70	3.52	56.17	10.50	18	61	1.00	28.62%	5.9	0.2	273.55	272.94

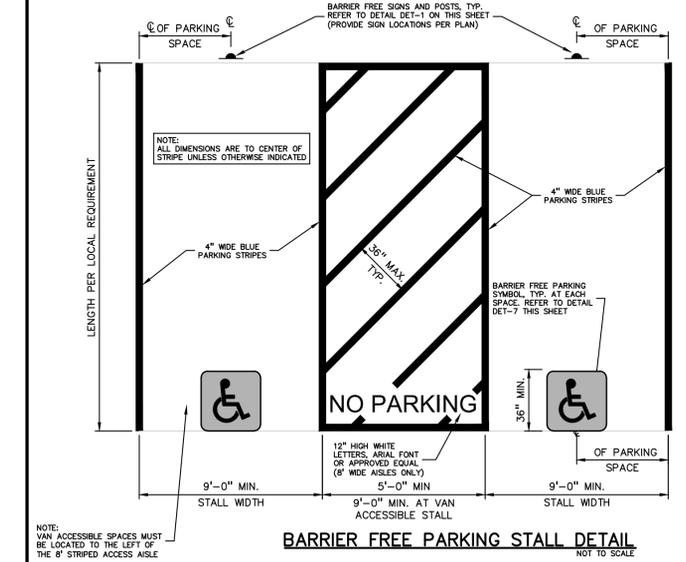
GENERAL BARRIER FREE NOTES:

THE FOLLOWING NOTES PROVIDE AN OUTLINE OF SOME OF THE REQUIREMENTS CONTAINED WITHIN THE "STANDARDS FOR ACCESSIBLE DESIGN - AMERICANS WITH DISABILITIES ACT 2010", AND "ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES", ICC/ANSI A117.1-2009. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE REQUIREMENTS PRESENTED WITHIN THESE DOCUMENTS, WHICH ARE AVAILABLE IN FULL UPON REQUEST.

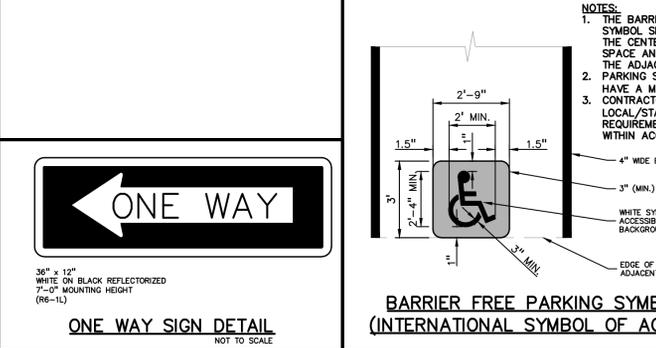
1. AN ACCESSIBLE ROUTE CONSISTS OF WALK SURFACES, CURB RAMPS AND RAMPS. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES, ACCESSIBLE PASSENGER LOADING ZONES, PUBLIC STREETS AND SIDEWALKS, AND PUBLIC TRANSPORTATION STOPS TO THE BUILDING OR FACILITY ENTRANCE THEY SERVE.
2. THE RUNNING SLOPE OF ALL WALKING SURFACES SHALL NOT EXCEED 5% (1:20) AND THE CROSS-SLOPE SHALL NOT EXCEED 2% (1:48).
3. WALKING SURFACES MUST BE LEVEL WITH PERMITTED VERTICAL CHANGES IN LEVEL NOT TO EXCEED 1/4", OR BEVELED CHANGES IN LEVEL NOT TO EXCEED 1/2". REFER TO DETAIL DET-8 THIS SHEET. ANY CHANGE IN LEVEL GREATER THAN 1/2" MUST BE RAMPED.
4. TURNING SPACES ALONG ACCESSIBLE ROUTES MUST BE AT LEAST 5 FEET WIDE IN ALL DIRECTIONS AND NOT EXCEED 2% SLOPE (1:48) IN ANY DIRECTION.
5. ACCESSIBLE ROUTES WILL BE DESIGNED TO BE A MINIMUM OF 5 FEET WIDE. THE MINIMUM CLEAR WIDTH IS 3 FEET.
6. RAMPS ALONG ACCESSIBLE ROUTES WILL HAVE A RUNNING SLOPE GREATER THAN 5% (1:20) AND LESS THAN 8.3% (1:12).
7. THE CROSS-SLOPE OF RAMP RUNS SHALL NOT EXCEED 2% (1:48).
8. THE MINIMUM CLEAR WIDTH OF ANY RAMP IS 36 INCHES.
9. THE MAXIMUM RISE FOR ANY RAMP (NOT INCLUDING CURB RAMPS) SHALL NOT EXCEED 30 INCHES. LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF EACH RAMP. LANDINGS SHALL HAVE A CROSS-SLOPE NOT EXCEEDING 2% (1:48). SHALL BE 5 FEET LONG AND AT LEAST AS WIDE AS THE RAMP CLEAR WIDTH. IF THERE IS A CHANGE OF DIRECTION AT A LANDING, THEN THE LANDING MUST BE AT LEAST 5 FEET WIDE AND 5 FEET LONG.
10. HANDRAILS ARE REQUIRED FOR ANY RAMP (NOT INCLUDING CURB RAMPS) WITH A RISE GREATER THAN 6 INCHES. ALL HANDRAILS ARE REQUIRED TO HAVE EDGE PROTECTION UNLESS ADJOINING ANOTHER ACCESS POINT OR IF THE VERTICAL DROP-OFF AT THE EDGE OF THE RAMP DOES NOT EXCEED 1/2" IN 10 FEET. EDGE PROTECTION CAN BE PROVIDED BY MEANS OF A 4" MIN. CURB OR BARRIER.
11. CURB RAMPS ALONG ACCESSIBLE ROUTES SHALL NOT RISE MORE THAN 6 INCHES, NOR BE STEEPER THAN 8.3% (1:12). APPROACHING SLOPES TO THE RAMP CANNOT EXCEED 5%, WHICH INCLUDES SIDEWALKS, PAVEMENT, GUTTERS ETC.
12. IF CURB RAMP SIDES ARE FLARED, THE FLARES SHALL NOT BE STEEPER THAN 10% (1:10).
13. LANDINGS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS. THE CLEAR LENGTH OF THE LANDING SHALL BE A MINIMUM OF 36" AND WILL BE AS WIDE AS THE CURB RAMP.
14. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
15. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS.
16. WHERE DETECTABLE WARNING IS REQUIRED AT CURB RAMPS, THE DETECTABLE WARNING SHALL BE 24" MINIMUM IN DEPTH AND SHALL EXTEND THE FULL WIDTH OF THE RAMP. THE DETECTABLE WARNING SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE CURB LINE.
17. ACCESSIBLE PARKING SPACES ON SITE SHALL BE PROVIDED AS REQUIRED IN SECTION 502 OF THE A.D.A. IF THE SITE HAS MORE THAN ONE PARKING FACILITY, EACH FACILITY IS REQUIRED TO MEET THESE REQUIREMENTS SEPARATELY. THE REQUIRED NUMBER OF SPACES SHALL BE BASED ON THE TOTAL NUMBER OF PARKING SPACES IN EACH PARKING FACILITY ON SITE.
18. FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, ONE VAN ACCESSIBLE SPACE SHALL BE PROVIDED.
19. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE FROM PARKING TO A BUILDING ENTRANCE. IF THERE IS MORE THAN ONE ACCESSIBLE ENTRANCE, PARKING SHALL BE DISPersed ALONG THE SHORTEST ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCES.
20. BARRIER FREE CAR PARKING SPACES SHALL BE A MINIMUM OF 8 FEET WIDE WITH AN ACCESS AISLE 5 FEET WIDE MINIMUM. VAN ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 11 FEET WIDE WITH A 5' WIDE ACCESS AISLE. VAN ACCESSIBLE SPACES ARE ALSO ACCEPTABLE WITH AN 8 FOOT WIDTH AND 8 FOOT WIDE ACCESS AISLE. THE ACCESS AISLE IN ALL CASES MUST EXTEND THE FULL LENGTH OF THE PARKING SPACE.
21. SURFACE SLOPES WITHIN THE PARKING SPACES AND AISLES SHALL NOT EXCEED 2% (1:48).
22. ACCESSIBLE AREAS INCLUDING PARKING SPACES, AISLES AND PATHWAYS, REQUIRE A MINIMUM VERTICAL CLEARANCE OF 98 INCHES.
23. ACCESSIBLE PARKING SPACES ARE REQUIRED TO BE IDENTIFIED BY SIGNS. THE SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. VAN PARKING SPACES ARE REQUIRED TO BE DESIGNATED AS "VAN ACCESSIBLE". REFER TO DETAILS ON THIS SHEET.
24. ACCESSIBLE STAIRS SHALL HAVE A UNIFORM RISER HEIGHT AND UNIFORM TREAD DEPTH. RISERS SHALL BE 4 INCHES MINIMUM AND 7 INCHES MAXIMUM. TREADS SHALL BE AT LEAST 11 INCHES IN DEPTH. OPEN RISERS ARE NOT PERMITTED. 25. REFER TO DETAILS THIS SHEET REGARDING TREAD SURFACE, NOSING AND HANDRAILS.



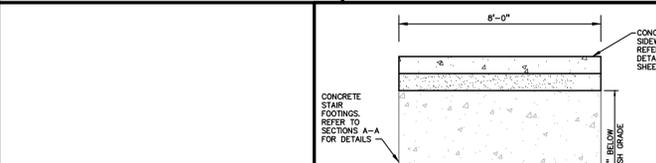
CHAIN LINK FENCE DETAIL
NOT TO SCALE



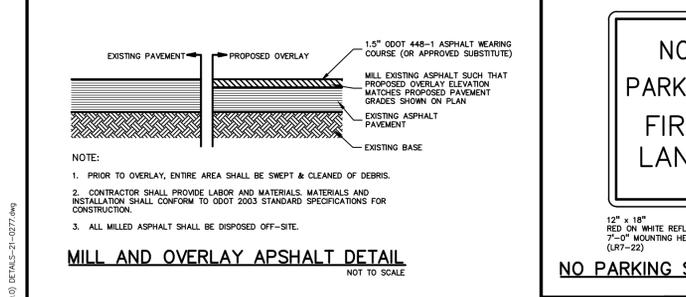
BARRIER FREE PARKING STALL DETAIL
NOT TO SCALE



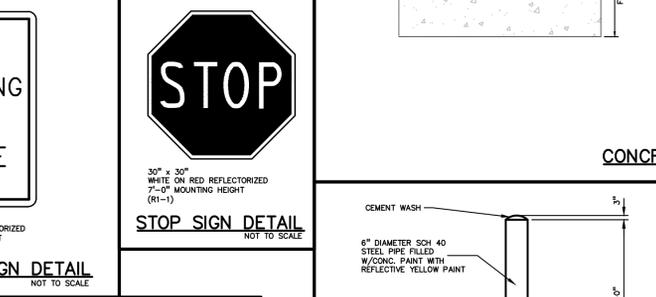
BARRIER FREE PARKING SYMBOL DETAIL (INTERNATIONAL SYMBOL OF ACCESSIBILITY)
NOT TO SCALE



ONE WAY SIGN DETAIL
NOT TO SCALE

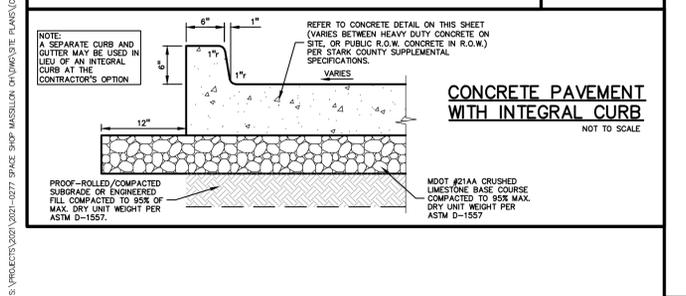


MILL AND OVERLAY ASPHALT DETAIL
NOT TO SCALE

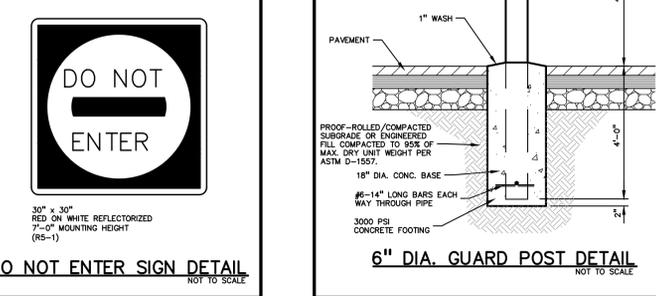


NO PARKING SIGN DETAIL
NOT TO SCALE

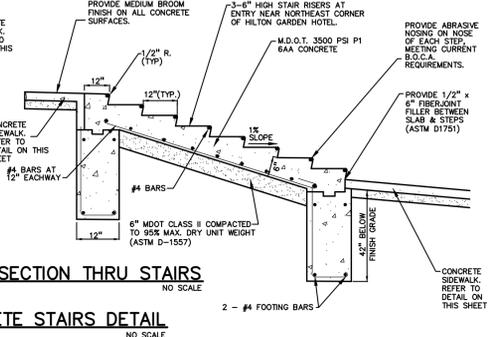
STOP SIGN DETAIL
NOT TO SCALE



CONCRETE PAVEMENT WITH INTEGRAL CURB
NOT TO SCALE

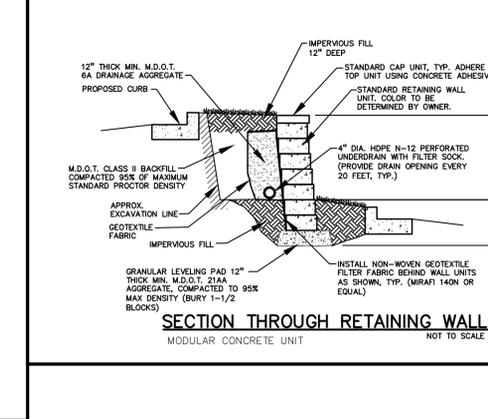


DO NOT ENTER SIGN DETAIL
NOT TO SCALE



SECTION THRU STAIRS
NO SCALE

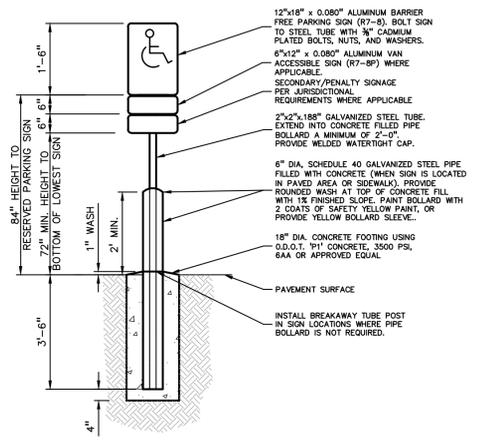
CONCRETE STAIRS DETAIL
NO SCALE



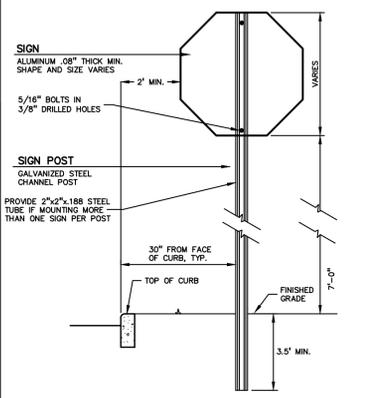
SECTION THROUGH RETAINING WALL
MODULAR CONCRETE UNIT
NOT TO SCALE

BARRIER FREE SIGN NOTES:

1. ONE SIGN IS REQUIRED AT EACH BARRIER FREE PARKING SPACE.
2. ALL SIGNS SHALL COMPLY WITH THE LATEST STANDARDS OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
3. WHEN TWO BARRIER FREE PARKING SPACES ARE ADJACENT AND FACING EACH OTHER, TWO SIGNS ARE REQUIRED, BUT CAN BE MOUNTED ON THE SAME POST. SIGN POSTS SHALL BE 2" NOM. SQUARE 14-GAUGE GALVANIZED STEEL TUBE WITH 7/16" HOLES AT 1" CENTERS. POSTS SHALL TELESCOPE INSIDE ANCHOR POSTS A MINIMUM OF 12".
4. ANCHOR POSTS SHALL BE 2.25" NOM. SQUARE 12-GAUGE GALVANIZED STEEL POST, A MINIMUM OF 3 FEET LONG.
5. IF THESE NOTES AND DETAILS CONFLICT WITH LOCAL CODES AND ORDINANCES, THE STRICTER REQUIREMENT SHOULD BE USED.
6. ALTERNATE MATERIALS MAY BE USED IF IN COMPLIANCE WITH A.D.A. GUIDELINES AND LOCAL REQUIREMENTS.



BARRIER FREE SIGN AND POST DETAIL
NOT TO SCALE



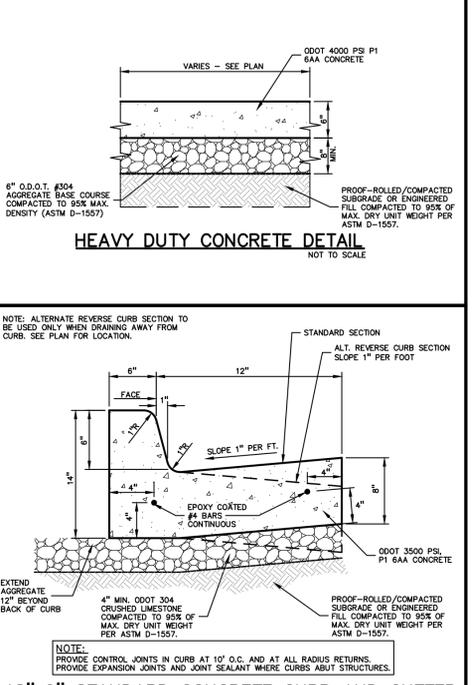
SIGN AND POST INSTALLATION IN LANDSCAPED AREAS
NOT TO SCALE



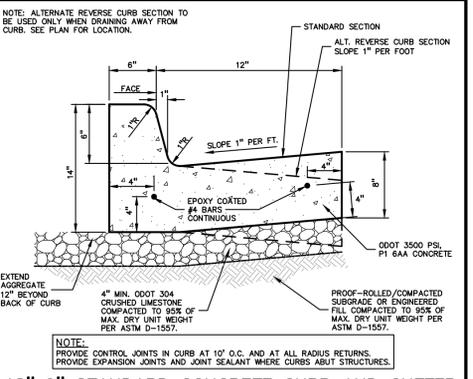
RESERVED PARKING ONLY
VAN ACCESSIBLE PARKING SIGN DETAIL
NOT TO SCALE



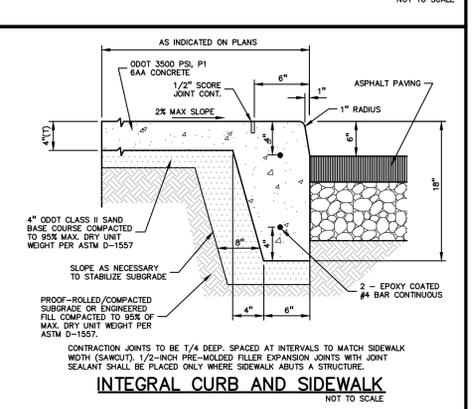
BARRIER FREE PARKING SIGN DETAIL
NOT TO SCALE



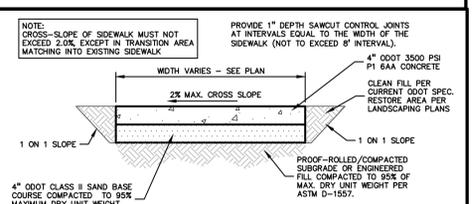
HEAVY DUTY CONCRETE DETAIL
NOT TO SCALE



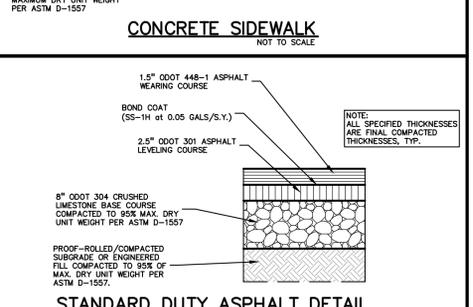
18"x6" STANDARD CONCRETE CURB AND GUTTER
NOT TO SCALE



INTEGRAL CURB AND SIDEWALK
NOT TO SCALE



CONCRETE SIDEWALK
NOT TO SCALE



STANDARD DUTY ASPHALT DETAIL
NOT TO SCALE



CAUTION!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY AS FAR AS IS KNOWN BY THE ENGINEER OR SURVEYOR. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP-MASSILLON
2600 LINCOLN WAY E
MASSILLON, OHIO

REVISIONS

PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

ORIGINAL ISSUE DATE:
JULY 21, 2021

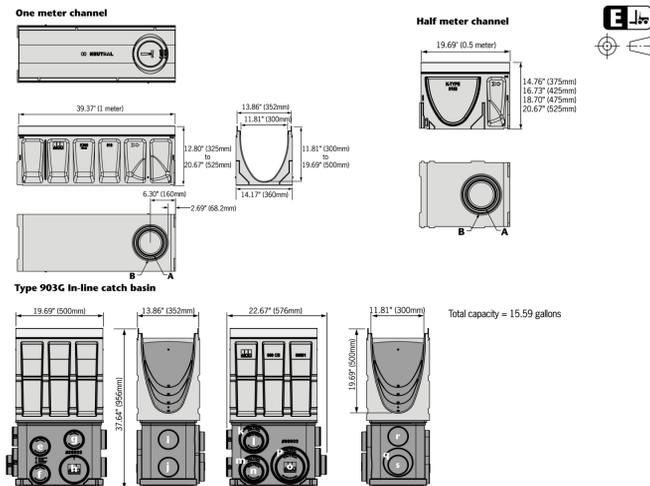
NOTES AND DETAILS

PEA JOB NO. 2021-0277

P.M.	LA
DN.	JDS
DES.	KCS

DRAWING NUMBER:

ACO DRAIN
KlassikDrain - K300 Galvanized steel edge rail channel system



Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - K3-00	6" round	11.81"	421	0.94
A	Bottom outlet - K3-040	6" round	19.69"	544	1.21
B	Bottom outlet - K3-00	8" round	11.81"	749	1.67
B	Bottom outlet - K3-040	8" round	19.69"	966	2.15
C	End outlet - K3-00	6" round	11.81"	364	0.81
C	End outlet - K3-40	6" round	19.69"	500	1.11
D	End outlet - K3-10	8" round	13.78"	681	1.52
D	End outlet - K3-40	8" round	19.69"	863	1.92
E	End outlet - K3-20	10" round	15.75"	1116	2.49
E	End outlet - K3-40	10" round	19.69"	1304	2.91
F	Type K3-903G	4" round	29.80"	287	0.64
G	Type K3-903G	4" round	36.29"	319	0.71
H	Type K3-903G	4" round	28.22"	279	0.62
I	Type K3-903G	4" round	36.29"	319	0.71
J	Type K3-903G	4" round	28.37"	280	0.62
K	Type K3-903G	4" round	34.87"	312	0.70
L	Type K3-903G	6" round	29.15"	626	1.40
M	Type K3-903G	4" round	28.59"	281	0.63
N	Type K3-903G	6" round	36.28"	707	1.57
O	Type K3-903G	4" round	35.72"	316	0.70
P	Type K3-903G	6" round	35.72"	701	1.56
Q	Type K3-903G	8" round	36.28"	1237	2.76
R	Type K3-903G	6" round	34.78"	690	1.54
S	Type K3-903G	4" round	27.63"	276	0.61
T	Type K3-903G	4" round	34.36"	310	0.69

Note: These are the pipe flow rates at the specified outlet. **NOT** correct flow rates. Catch basin flow rates are without trash bucket using trash bucket reduces flow.

Note: 1. Riser can be cut down in 1" (25mm) increments.
2. Maximum capacity including riser 27.52 gallons.
3. Add 12" (300mm) to all heights if using riser.
4. Outlet flow rates will be higher due to increased depth - contact ACO Sales Office for more details.

Type 904G in-line catch basin
1. Riser can be cut down in 1" (25mm) increments.
2. Maximum capacity including riser 27.52 gallons.
3. Add 12" (300mm) to all heights if using riser.
4. Outlet flow rates will be higher due to increased depth - contact ACO Sales Office for more details.

End Cap
0.20" (5mm)
1.25" (32mm)

April 2018 www.ACOdrain.us



ACO DRAIN
KlassikDrain - K300 Galvanized steel edge rail channel system

Description	Part No.	Invert	Weight Lbs.	Description	Part No.	Invert	Weight Lbs.
K3-00 Neutral channel - 39.37" (1m) ²	76041	11.81	300	K3-28 Sloped channel - 39.37" (1m)	76028	17.32	440
K3-1 Sloped channel - 39.37" (1m)	76001	12.01	305	K3-29 Sloped channel - 39.37" (1m)	76029	17.52	445
K3-2 Sloped channel - 39.37" (1m)	76002	12.20	310	K3-30 Sloped channel - 39.37" (1m) ²	76030	17.72	450
K3-3 Sloped channel - 39.37" (1m)	76003	12.40	315	K3-000 Neutral channel - 39.37" (1m) ²	76047	17.72	450
K3-4 Sloped channel - 39.37" (1m)	76004	12.60	320	K3-0000 Neutral channel - 19.69" (0.5m) ²	76048	17.72	450
K3-5 Sloped channel - 39.37" (1m) ²	76005	12.80	325	K3-1 Sloped channel - 39.37" (1m)	76031	17.91	455
K3-6 Sloped channel - 39.37" (1m)	76006	12.99	330	K3-2 Sloped channel - 39.37" (1m)	76032	18.11	460
K3-7 Sloped channel - 39.37" (1m)	76007	13.19	335	K3-3 Sloped channel - 39.37" (1m)	76033	18.31	465
K3-8 Sloped channel - 39.37" (1m)	76008	13.39	340	K3-34 Sloped channel - 39.37" (1m)	76034	18.50	470
K3-9 Sloped channel - 39.37" (1m)	76009	13.58	345	K3-35 Sloped channel - 39.37" (1m) ²	76035	18.70	475
K3-10 Sloped channel - 39.37" (1m) ²	76010	13.78	350	K3-36 Sloped channel - 39.37" (1m)	76036	18.90	480
K3-010 Neutral channel - 39.37" (1m) ²	76043	13.78	350	K3-37 Sloped channel - 39.37" (1m)	76037	19.09	485
K3-0103 Neutral channel - 19.69" (0.5m) ²	76044	13.78	350	K3-38 Sloped channel - 39.37" (1m)	76038	19.29	490
K3-11 Sloped channel - 39.37" (1m)	76011	13.98	355	K3-39 Sloped channel - 39.37" (1m)	76039	19.49	495
K3-12 Sloped channel - 39.37" (1m)	76012	14.17	360	K3-40 Sloped channel - 39.37" (1m) ²	76040	19.69	500
K3-13 Sloped channel - 39.37" (1m)	76013	14.37	365	K3-040 Neutral channel - 39.37" (1m) ²	76049	19.69	500
K3-14 Sloped channel - 39.37" (1m)	76014	14.57	370	K3-0403 Neutral channel - 19.69" (0.5m) ²	76050	19.69	500
K3-15 Sloped channel - 39.37" (1m) ²	76015	14.76	375	K3-903G in-line catch basin - 19.69" (0.5m) ²	94614	37.40	950
K3-16 Sloped channel - 39.37" (1m)	76016	14.96	380	K3-904G in-line catch basin - 19.69" (0.5m) ²	94635	37.40	950
K3-17 Sloped channel - 39.37" (1m)	76017	15.16	385	K3-Series 600 Optional plastic riser	99002	-	10.0
K3-18 Sloped channel - 39.37" (1m)	76018	15.35	390	Foot air trap - fits both 900 & 600 series basins	90854	-	1.2
K3-19 Sloped channel - 39.37" (1m)	76019	15.55	395	Universal end cap	96826	15.71	399
K3-20 Sloped channel - 39.37" (1m)	76020	15.75	400	K3-Installation device	97479	-	4.9
K3-21 Sloped channel - 39.37" (1m) ²	76021	15.94	405	Grate removal tool	01318	-	0.3
K3-22 Sloped channel - 39.37" (1m)	76022	16.14	410	K3-QuickLock locking bar	10458	-	0.7
K3-23 Sloped channel - 39.37" (1m)	76023	16.34	415				
K3-24 Sloped channel - 39.37" (1m)	76024	16.54	420				
K3-25 Sloped channel - 39.37" (1m) ²	76025	16.73	425				
K3-26 Sloped channel - 39.37" (1m)	76026	16.93	430				
K3-27 Sloped channel - 39.37" (1m)	76027	17.13	435				

Notes:
1. This channel offers a bottom knockout feature, 6" & 8" round.
2. Inverts shown are for the male end; for female invert depth subtract 5mm (-0.2") from the male invert (except for neutral channels, where it will be same as male invert).
3. To calculate the overall channel depth add 20mm (-0.8") to invert depth.
4. This catch basin kit includes a polymer concrete top, removable QuickLock locking bar, trash bucket and plastic base. Select an appropriate grate.

Specifications
General
The surface drainage system shall be ACO Drain K300 complete with gratings secured with QuickLock locking as manufactured by ACO, Inc. or approved riser.
Materials
The trench system bodies shall be manufactured from polyester polymer concrete with the minimum properties as follows:
Compressive strength: 14,000 psi
Flexural strength: 4,000 psi
Water absorption
Frost proof: YES
Salt proof: YES
Dilute acid and alkali resistant: YES
Grates
Grates shall be specified. See separate ACO Spec info grate sheets for details. After removal of gratings and QuickLock bar there shall be uninterrupted access to the trench to aid maintenance.
Installation
The trench drain system shall be installed in accordance with the manufacturer's installation instructions and recommendations.

ACO, Inc.
Northeast Sales Office
9470 Picocone Drive
Mentor, OH 44060
Tel: (440) 639-7230
Tel: (440) 639-7230
Fax: (440) 639-7235

West Sales Office
825 W. Beechcraft St.
Casa Grande, AZ 85122
Tel: (520) 421-9889
Toll Free: (888) 490-9552
Fax: (520) 421-9899

Southeast Sales Office
4211 Pleasant Road
Fort Mill, SC 29708
Tel: (803) 543-4764
Fax: (803) 802-1063

Electronic Contact:
info@ACODrain.us
www.ACOdrain.us

April 2018 www.ACOdrain.us



ACO DRAIN
12" width - ductile iron longitudinal grate



Specifications

General
The surface drainage system shall be ACO PowerDrain or StabDrain, complete with ACO ductile iron longitudinal grate with PowerLock[®] locking as manufactured by ACO, Inc. or similar approved.

Materials
The covers shall be manufactured from ductile iron and have minimum properties as follows:
• Independently certified to meet Load Class E to EN 1433 - 135,000 lbs - 2,323 psi
• Ductile iron to ASTM 536-84 - Grade 65-45-12
• Intake area of 348 sq. cm per 1/2 meter of grate

The overall width of 13.25" (337mm) and overall length of 19.68" (500mm). Slots measure at a maximum of 0.75" (19mm).

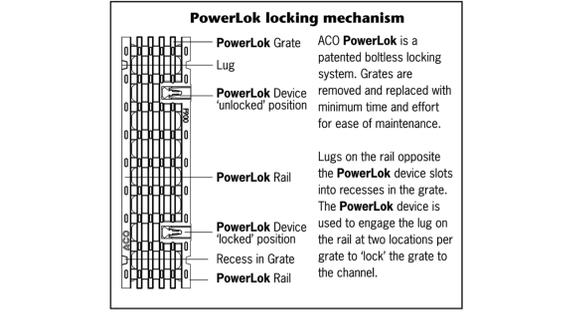
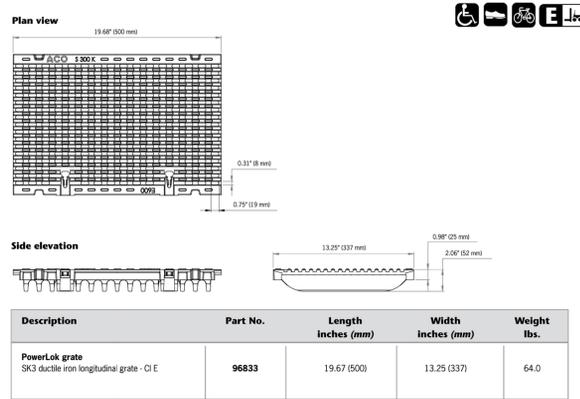
Grate
Grate is longitudinal ductile iron. Ductile iron ASTM 536-84 - Grade 65-45-12. After removal of gratings there shall be uninterrupted access to the trench to aid maintenance. Grates can be used for PowerDrain or StabDrain.

Installation
The trench drain system and gratings shall be installed in accordance with the manufacturer's installation instructions and recommendations.

April 2018 www.ACOdrain.us



ACO DRAIN
12" width - ductile iron longitudinal grates



ACO, Inc.
Northeast Sales Office
9470 Picocone Drive
Mentor, Ohio 44060
Tel: (440) 639-7230
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Fax: (520) 421-9899

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ACO Specification Information

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CAUTION!
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CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP MASSILLON
2600 LINCOLN WAY E
MASSILLON, STARK COUNTY, OHIO

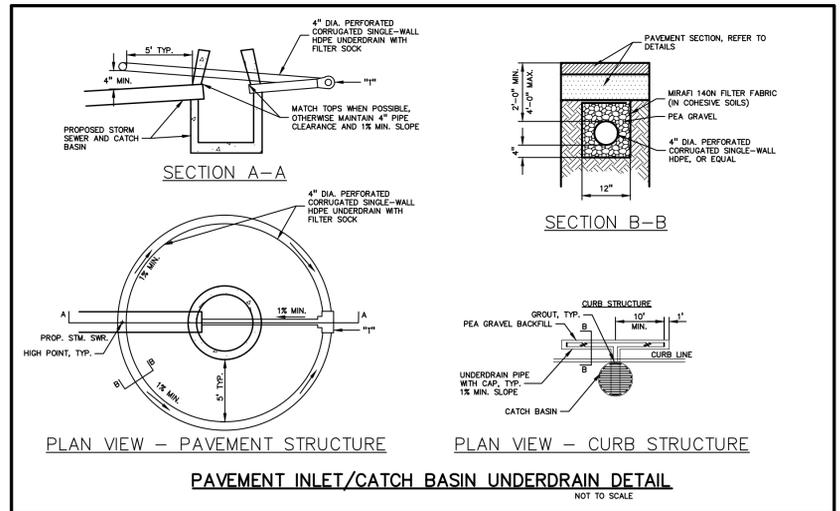
REVISIONS

REVISIONS	DATE
PER CITY REVIEW	9.9.2021
ISSUED FOR CONSTRUCTION	10.15.2021
PER COUNTY COMMENTS	11.03.2021

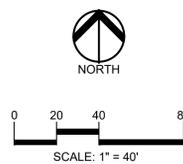
ORIGINAL ISSUE DATE:
JULY 21, 2021
DRAWING TITLE
NOTES AND DETAILS-2

PEA JOB NO.	2021-0277
P.M.	LA
DN.	JDS
DES.	JDS
DRAWING NUMBER:	

C-9.1



PAVEMENT INLET/CATCH BASIN UNDERDRAIN DETAIL
NOT TO SCALE



CAUTION!
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CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

PROJECT TITLE
THE SPACE SHOP-MASSILLON
2600 LINCOLN WAY E
MASSILLON, OHIO

REVISIONS
FOR OWNER REVIEW 8.20.2021

ORIGINAL ISSUE DATE:
JULY 21, 2021

DRAWING TITLE
PRELIMINARY LANDSCAPE PLAN

PEA JOB NO. 2021-0277
P.M. LA
DN. CLR
DES. JTS
DRAWING NUMBER:

DECIDUOUS TREE PLANT LIST:

QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	SPEC
3	AR2.5	Red Maple	<i>Acer rubrum</i>	2.5" Cal.	B&B
1	CC8	Eastern Redbud	<i>Cercis canadensis</i>	8" Ht.	B&B
3	GT2.5	Skyline Honeylocust	<i>Gleditsia triacanthos f. Inermis 'Skycole'</i>	2.5" Cal.	B&B
1	UF2.5	Frontier Elm	<i>Ulmus 'Frontier'</i>	2.5" Cal.	B&B
8	TOTAL DEC.				

EVERGREEN TREE PLANT LIST:

QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	SPEC
1	AC8	Concolor Fir	<i>Abies concolor</i>	8" Ht.	B&B
6	PA8	Norway Spruce	<i>Picea abies</i>	8" Ht.	B&B
7	TOTAL EVG.				

SHRUB PLANT LIST:

QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	SPEC
22	EA30	Compact Burning Bush	<i>Euonymus alatus 'Compactus'</i>	30" Ht.	Cont.
5	HLQ30	Quick Fire Hydranga	<i>Hydrangea paniculata 'Little Quick Fire'</i>	30" Ht.	Cont.
10	HQ30	Quick Fire Hydranga	<i>Hydrangea paniculata 'Quick Fire'</i>	30" Ht.	Cont.
14	JH6	Hetz Columnar Juniper	<i>Juniperus chinensis 'Hetzl Columnaris'</i>	6" Ht.	B&B
40	RA24	Gro Low Sumac	<i>Rhus aromatica 'Gro-Low'</i>	24" Ht.	Cont.
11	SA24	Anthony Waterer Spirea	<i>Spiraea x bum. 'Anthony Waterer'</i>	24" Ht.	Cont.
8	TM24	Dense Yew	<i>Taxus x media 'Densiformis'</i>	24" Ht.	Cont.
3	VC36	Korean Spice Viburnum	<i>Viburnum carlesii 'Compacta'</i>	36" Ht.	Cont.
113	TOTAL SHRUB				

PERENNIAL PLANT LIST:

QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	SPEC
53	CA	Feather Reed Grass	<i>Calamagrostis x acutiflora 'Karl Foerster'</i>	1 Gal.	Cont.
16	NF	Six Hills Giant Catmint	<i>Nepeta x faassenii 'Six Hills Giant'</i>	1 Gal.	Cont.
31	PV	Shenandoah Switch Grass	<i>Panicum virgatum 'Shenandoah'</i>	1 Gal.	Cont.
34	SN	Blue Hill Salvia	<i>Salvia nemorosa 'Blue Hill'</i>	1 Gal.	Cont.
134	TOTAL PER.				

KEY:

- = GENERAL SITE TREES
- = GREENBELT TREES
- = SHRUBS
- = PERENNIALS
- = IRRIGATED SEED LAWN
- = NON-IRRIGATED SEED LAWN
- = RIVER ROCK OVER WEED FABRIC
- = TREE PROTECTION FENCE

LANDSCAPE CALCULATIONS:
PER CITY OF MASSILLON ZONING ORDINANCE
ZONE: MAS_B3 GENERAL BUSINESS DISTRICT

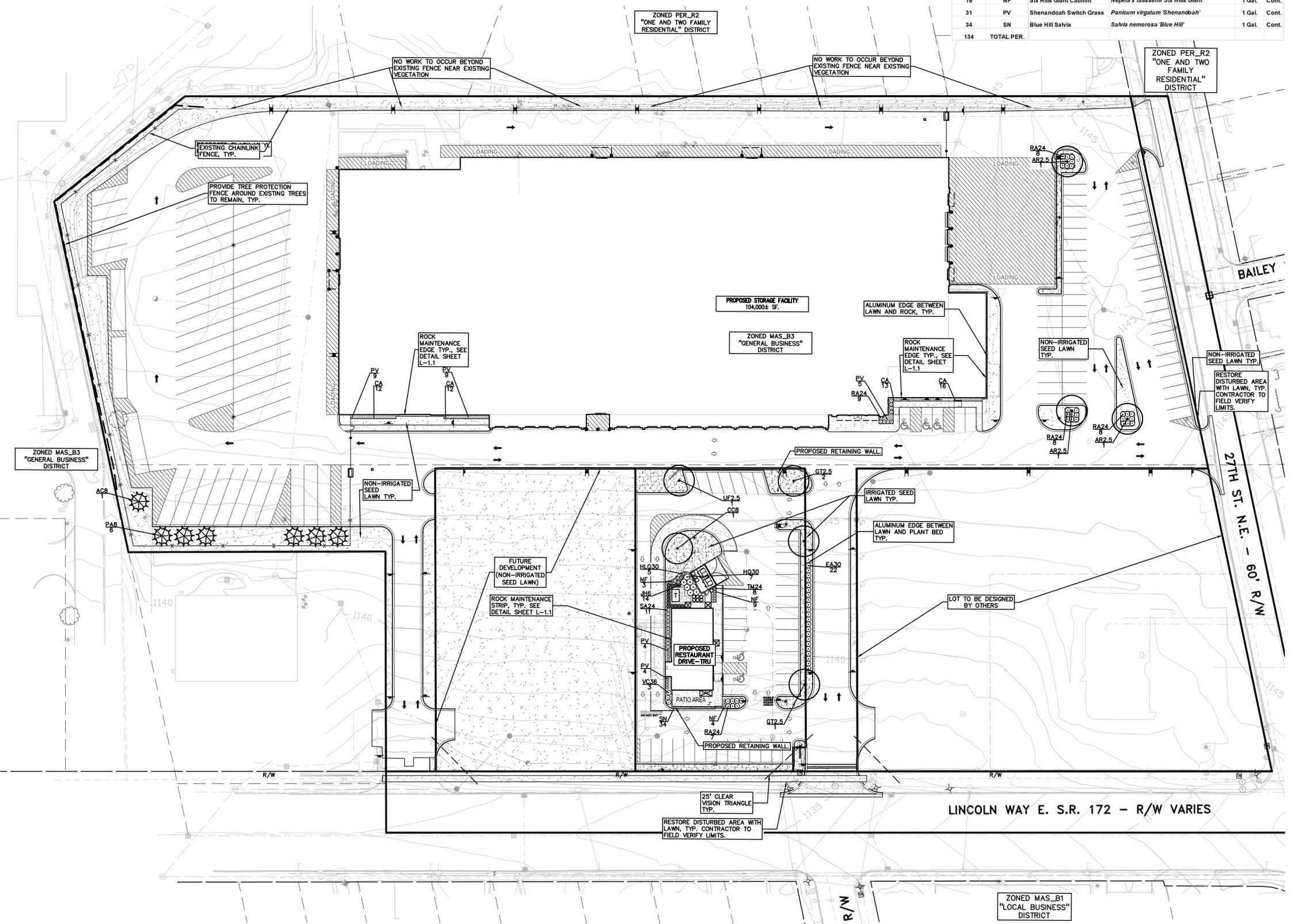
GREENBELT:
REQUIRED: 8' HT. LANDSCAPING BETWEEN OUTDOOR STORAGE AND ABUTTING ZONES
PROVIDED: 7, 8' HT. EVG. TREES

PARKING ISLAND STORMWATER MANAGEMENT:
PROVIDED: 3 DECIDUOUS TREES + 24 LOW SHRUBS AT EAST PARKING AREA

GENERAL SITE LANDSCAPING:
REQUIRED: GENERAL LANDSCAPING PER CITY SITE PLAN REVIEW REQUIREMENT
PROVIDED: MINIMAL FOUNDATION PLANTINGS + LANDSCAPING AT PROPOSED RESTAURANT

NOTE:
ALL LANDSCAPED AREAS SHALL BE IRRIGATED WITH AN UNDERGROUND IRRIGATION SYSTEM UNLESS OTHERWISE NOTED

- GENERAL PLANTING NOTES:**
- LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING SITE CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY CONCERNS.
 - CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION MAY BE LOCATED BY CALLING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTATIVE PRIOR TO COMMENCING.
 - ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY STOCK AND SHALL SATISFY AMERICAN ASSOCIATION OF NURSERYMEN STANDARD FOR NURSERY STOCK. ALL LANDSCAPE MATERIAL SHALL BE NORTHERN GROWN, NO. 1, GRADE.
 - CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.
 - THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
 - ALL SINGLE STEM SHADE TREES TO HAVE STRAIGHT TRUNKS AND SYMMETRICAL CROWNS.
 - ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER; TREES WITH FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED.
 - ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT BE ACCEPTED.
 - ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE GROWING SEASONS.
 - ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS, TREES WITH SAND BALLS WILL BE REJECTED.
 - NO MACHINERY IS TO BE USED WITHIN THE DRIP LINE OF EXISTING TREES; HAND GRADE ALL LAWN AREAS WITHIN THE DRIP LINE OF EXISTING TREES.
 - ALL TREE LOCATIONS SHALL BE STAKED BY LANDSCAPE CONTRACTOR AND ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE PLANT MATERIAL.
 - IT IS MANDATORY THAT POSITIVE DRAINAGE IS PROVIDED AWAY FROM ALL BUILDINGS.
 - ALL PLANTING BEDS SHALL RECEIVE 3" SHREDDED HARDWOOD BARK MULCH WITH PRE EMERGENT, SEE SPECIFICATIONS. SHREDDED PALETTE AND DYED MULCH WILL NOT BE ACCEPTED.
 - ALL LANDSCAPED AREAS SHALL RECEIVE 3" COMPACTED TOPSOIL.
 - SEE SPECIFICATIONS FOR ADDITIONAL COMMENTS, REQUIREMENTS, PLANTING PROCEDURES AND WARRANTY STANDARDS.
 - FOR NON-LAWN SEED MIX AREAS, AS NOTED ON PLAN, BRUSH MOW ONCE SEASONALLY FOR INVASIVE SPECIES CONTROL.
 - CONTRACTOR SHALL NOT INSTALL PLANTS UNDER BUILDING OVERHANG AND SHALL NOTIFY LANDSCAPE ARCHITECT IF DRAWINGS CONFLICT WITH BUILDING OVERHANGS.





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CLIENT
STEIN INVESTMENT GROUP
5607 GLENRIDGE DRIVE, SUITE 200
ATLANTA, GA 30342

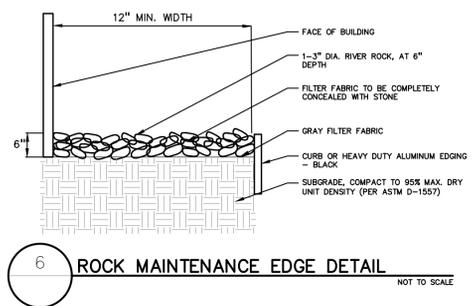
PROJECT TITLE
THE SPACE SHOP MASSILLON
2600 LINCOLN WAY E
MASSILLON, STARK COUNTY, OHIO

REVISIONS
FOR OWNER REVIEW 8.20.2021

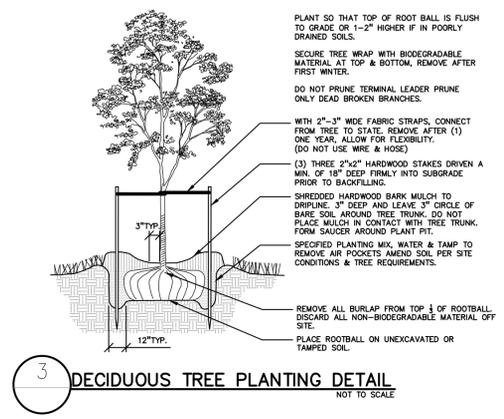
ORIGINAL ISSUE DATE:
JULY 21, 2021
DRAWING TITLE
LANDSCAPE DETAILS

PEA JOB NO. 2021-0277
P.M. LA
DN. CLR
DES. JTS
DRAWING NUMBER:

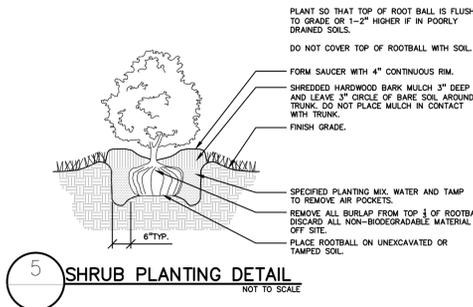
NOT FOR CONSTRUCTION **L-1.1**



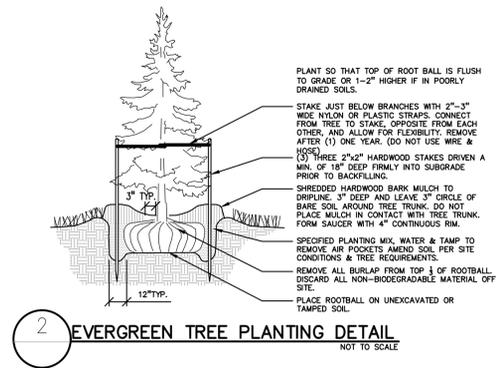
6 ROCK MAINTENANCE EDGE DETAIL
NOT TO SCALE



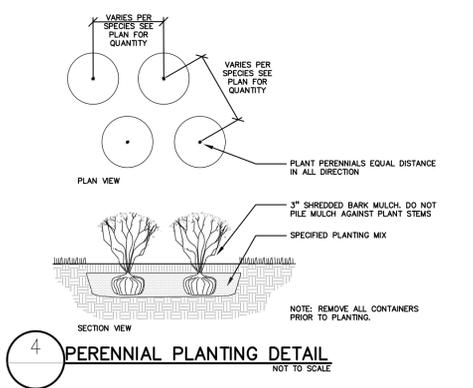
3 DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE



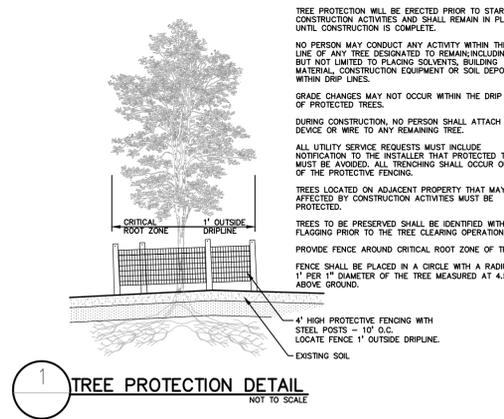
5 SHRUB PLANTING DETAIL
NOT TO SCALE



2 EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

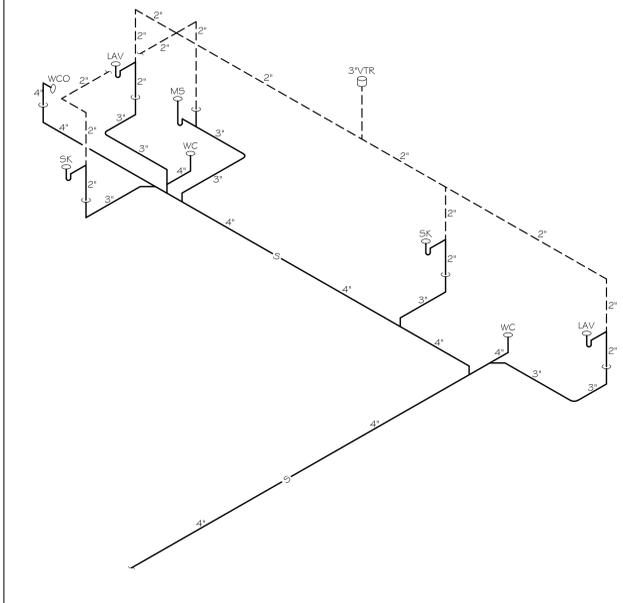


4 PERENNIAL PLANTING DETAIL
NOT TO SCALE



1 TREE PROTECTION DETAIL
NOT TO SCALE

WASTE/VENT ISOMETRIC
NO SCALE

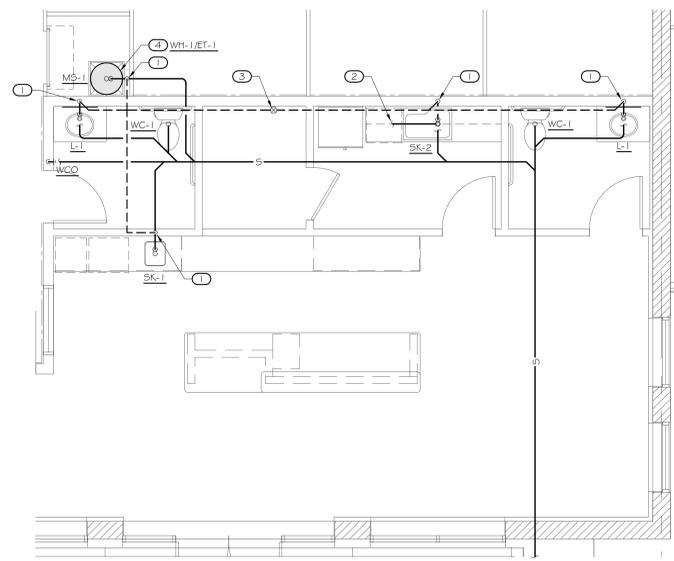


- KEYNOTES**
- 1 2" V DN
 - 2 CONNECT DISHWASHER HOSE TO SINK P-TRAP (OR DISPOSER, AS APPLICABLE) WITH AIR BREAK, SEE DETAIL
 - 3 3" V UP TO 3" VTR
 - 4 DISCHARGE WATER HEATER PAN DRAIN TO MOP SINK WITH AIR GAP
 - 5 1/2" CW 4 1/2" HW DN
 - 6 1" CW 4 1/2" HW DN
 - 7 VALVED HW TO DW CONNECTION W/WATER HAMMER ARRESTOR (SIOUX CHIEF "MINI-RESTER," SERIES 660, SIZE "AA")
 - 8 1" CW 4 1" HW TO SHELF MOUNTED WATER HEATER, SEE DETAIL
 - 9 1/2" CW DN TO ICE MAKER BOX FOR COFFEE MAKER, FIELD VERIFY EXACT LOCATION PRIOR TO COMMENCING WORK.

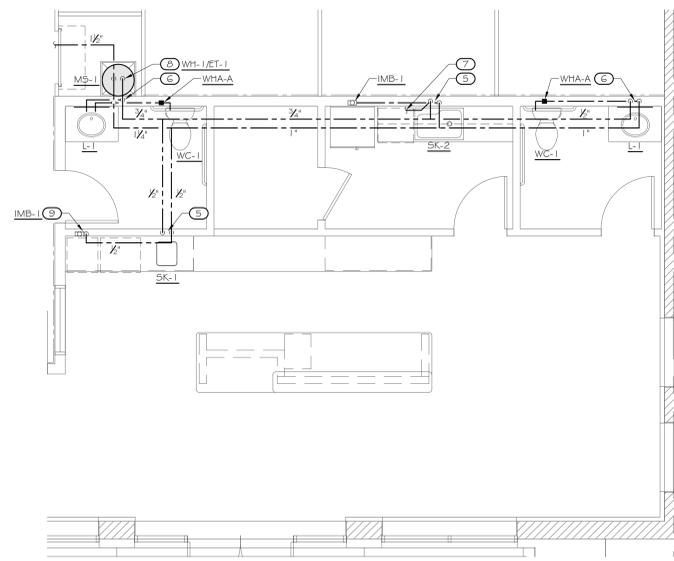
KEVIN J. MAHER AIA
PROFICIENT ENGINEERING
6991 Peachtree Industrial Blvd Building 700
Peachtree Corners, Georgia 30092
404.333.9799
PROJECT # 121428

REV #	DATE	DESCRIPTION

SPACE SHOP
SELF STORAGE
MASSILLON STORAGE
2600 LINCOLN WAY E - MASSILLON, OH 44646
STEIN INVESTMENT GROUP



1 ENLARGED FLOOR PLAN - WASTE & VENT
SCALE: 1/4" = 1'-0"



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

STATE OF OHIO
JOHN PAUL KENNEY
E-77213
PROFESSIONAL ENGINEER

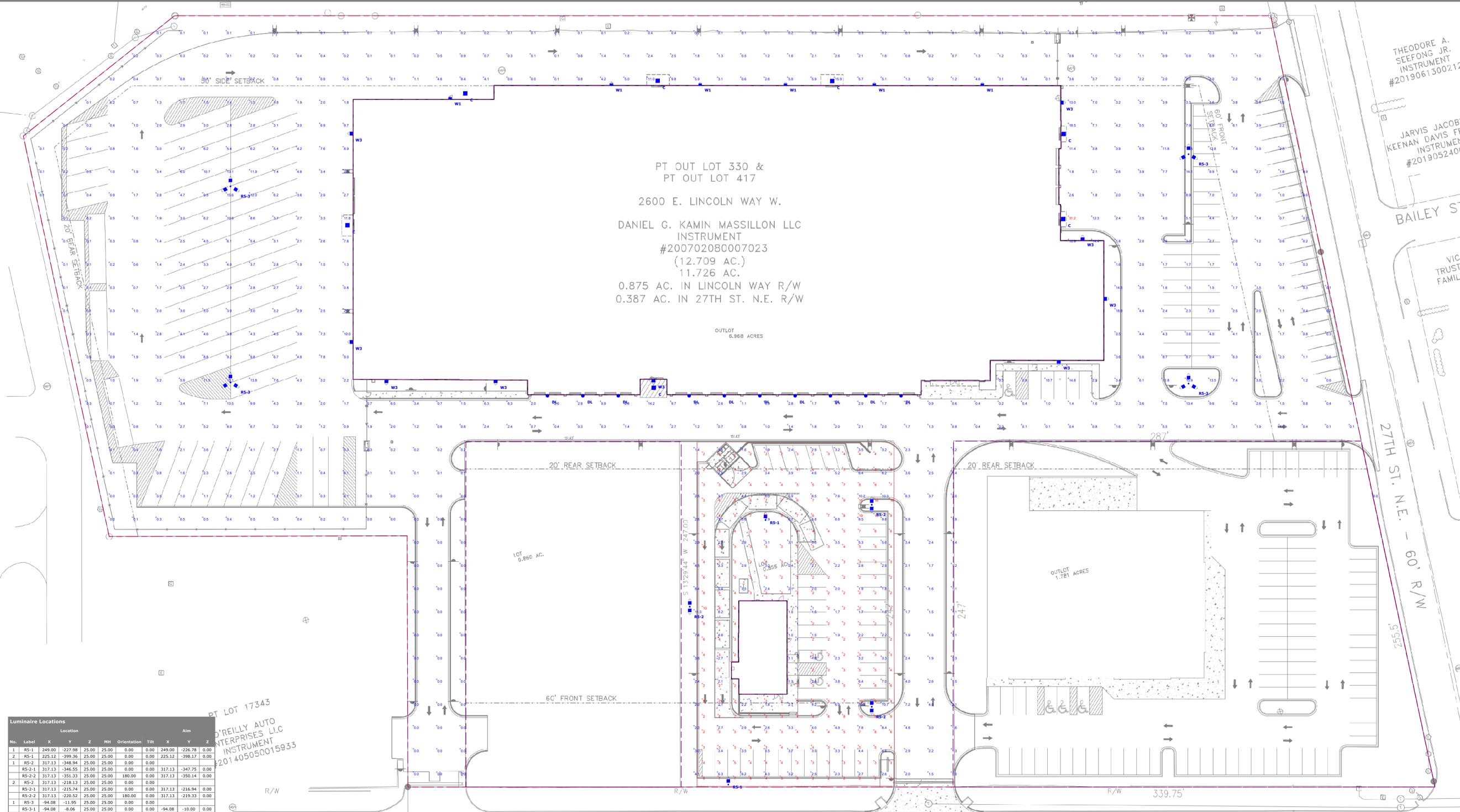
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KEVIN J. MAHER, AIA
1000 CIRCLE 75 PARKWAY
SUITE 400
ATLANTA, GEORGIA 30339
404.549.4499 (p)

ISSUE DATE	09/17/2021
DRAWN BY	HW/HC/CR
CHECKED BY	PK/A
PLND PROJ #	20202

SHEET TITLE
ENLARGED FLOOR PLANS

SHEET # **P2.1**



THEODORE A. SEEFORD JR.
INSTRUMENT
#20190613002127

JARVIS JACOBY
KEENAN DAVIS FEI
INSTRUMENT
#2019052400

BAILEY ST

VICK TRUSTE FAMILY

27TH ST. N.E. - 60' R/W

LINCOLN WAY E. S.R. 172 - R/W VARIES

Luminaire Locations

No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z
1	RS-1	249.00	-227.98	25.00	25.00	0.00	0.00	249.00	-226.78	0.00
1	RS-1	225.12	-399.36	25.00	25.00	0.00	0.00	225.12	-398.17	0.00
1	RS-2	317.13	-348.94	25.00	25.00	0.00	0.00	317.13	-347.75	0.00
1	RS-2-1	317.13	-346.55	25.00	25.00	0.00	0.00	317.13	-345.36	0.00
1	RS-2-2	317.13	-351.33	25.00	25.00	180.00	0.00	317.13	-350.14	0.00
2	RS-2	317.13	-218.13	25.00	25.00	0.00	0.00	317.13	-216.94	0.00
1	RS-2-1	317.13	-215.74	25.00	25.00	0.00	0.00	317.13	-214.55	0.00
1	RS-2-2	317.13	-229.52	25.00	25.00	180.00	0.00	317.13	-228.33	0.00
1	RS-3	-94.08	-11.95	25.00	25.00	0.00	0.00	-94.08	-10.76	0.00
1	RS-3-1	-94.08	-8.06	25.00	25.00	0.00	0.00	-94.08	-10.00	0.00
1	RS-3-2	-90.71	-13.89	25.00	25.00	120.00	0.00	-92.40	-12.92	0.00
1	RS-3-3	-97.45	-18.89	25.00	25.00	240.00	0.00	-99.77	-12.92	0.00
2	RS-3	-94.09	-138.94	25.00	25.00	0.00	0.00	-94.09	-136.99	0.00
1	RS-3-1	-94.09	-135.05	25.00	25.00	0.00	0.00	-94.09	-136.99	0.00
1	RS-3-2	-90.72	-140.88	25.00	25.00	120.00	0.00	-92.40	-139.91	0.00
1	RS-3-3	-97.45	-140.88	25.00	25.00	240.00	0.00	-99.77	-139.91	0.00
3	RS-3	520.27	8.90	25.00	25.00	0.00	0.00	520.27	10.85	0.00
1	RS-3-1	520.27	12.79	25.00	25.00	0.00	0.00	520.27	10.85	0.00
1	RS-3-2	523.64	6.96	25.00	25.00	120.00	0.00	521.96	7.93	0.00
1	RS-3-3	516.90	6.96	25.00	25.00	240.00	0.00	518.59	7.93	0.00
4	RS-3	520.27	-139.64	25.00	25.00	0.00	0.00	520.27	-137.70	0.00
1	RS-3-1	520.27	-135.75	25.00	25.00	0.00	0.00	520.27	-137.70	0.00
1	RS-3-2	523.64	-141.59	25.00	25.00	120.00	0.00	521.96	-140.62	0.00
1	RS-3-3	516.90	-141.59	25.00	25.00	240.00	0.00	518.59	-140.62	0.00
2	W1	46.80	45.16	12.00	12.00	0.00	0.00	46.80	45.16	0.00
1	W1	150.14	54.03	12.00	12.00	0.00	0.00	150.14	54.03	0.00
7	W1	207.09	54.03	12.00	12.00	0.00	0.00	207.09	54.03	0.00
4	W1	261.81	54.03	12.00	12.00	0.00	0.00	261.81	54.03	0.00
5	W1	318.75	54.03	12.00	12.00	0.00	0.00	318.75	54.03	0.00
6	W1	388.04	54.03	12.00	12.00	0.00	0.00	388.04	54.03	0.00
2	W3	439.13	42.33	14.00	14.00	0.00	0.00	439.13	42.33	0.00
5	W3	75.94	-138.33	14.00	14.00	180.00	0.00	75.94	-138.33	0.00
6	W3	-16.66	-112.69	14.00	14.00	270.00	0.00	-16.66	-112.69	0.00
7	W3	-16.66	-22.23	14.00	14.00	270.00	0.00	-16.66	-22.23	0.00
8	W3	5.95	-138.33	14.00	14.00	180.00	0.00	5.95	-138.33	0.00
9	W3	177.10	-137.88	14.00	14.00	180.00	0.00	177.10	-137.88	0.00
1	C	177.33	-142.32	10.00	10.00	0.00	0.00	177.33	-142.32	0.00
2	C	-19.06	-37.04	14.00	14.00	0.00	0.00	-19.06	-37.04	0.00
3	C	179.87	56.46	14.00	14.00	0.00	0.00	179.87	56.46	0.00
4	C	293.76	56.29	14.00	14.00	0.00	0.00	293.76	56.29	0.00
5	C	440.16	21.96	10.00	10.00	0.00	0.00	440.16	21.96	0.00
6	C	439.88	-33.09	10.00	10.00	0.00	0.00	439.88	-33.09	0.00
7	C	56.48	48.31	14.00	14.00	0.00	0.00	56.48	48.31	0.00
1	DL	109.18	-147.56	8.00	8.00	0.00	0.00	109.18	-147.56	0.00
2	DL	131.86	-147.56	8.00	8.00	0.00	0.00	131.86	-147.56	0.00
3	DL	154.61	-147.56	8.00	8.00	0.00	0.00	154.61	-147.56	0.00
4	DL	200.02	-147.56	8.00	8.00	0.00	0.00	200.02	-147.56	0.00
5	DL	223.61	-147.56	8.00	8.00	0.00	0.00	223.61	-147.56	0.00
6	DL	245.35	-147.56	8.00	8.00	0.00	0.00	245.35	-147.56	0.00
7	DL	268.00	-147.56	8.00	8.00	0.00	0.00	268.00	-147.56	0.00
8	DL	290.62	-147.56	8.00	8.00	0.00	0.00	290.62	-147.56	0.00
9	DL	313.30	-147.56	8.00	8.00	0.00	0.00	313.30	-147.56	0.00
10	DL	335.92	-147.56	8.00	8.00	0.00	0.00	335.92	-147.56	0.00
10	W3	452.31	-45.89	9.00	9.00	0.00	0.00	452.31	-45.89	0.00
11	W3	466.88	-84.76	9.00	9.00	0.00	0.00	466.88	-84.76	0.00
12	W3	437.04	-125.64	9.00	9.00	180.00	0.00	437.04	-125.64	0.00
3	RS-2	200.41	-284.13	25.00	25.00	0.00	0.00	200.41	-282.93	0.00
1	RS-2-1	200.41	-281.74	25.00	25.00	0.00	0.00	200.41	-280.54	0.00
1	RS-2-2	200.41	-286.52	25.00	25.00	180.00	0.00	200.41	-285.32	0.00

Statistics

Description	Symbol	Avg	Max	Min	Max/Min Avg/Min
Chopped	+	4 fc	11 fc	1 fc	11.0:1 4.0:1
Overall Property	+	2.9 fc	31.2 fc	0.0 fc	N/A N/A

Existing Lighting Survey Notes

- Readings are shown in units of maintained footcandles.
- Total Light Loss Factor (LLF) = 5% or 0.95
- Test Plane = 0' AFF
- Fixture Mounting Height = 25' AG for all pole-mounted area lights, 12' or 9' AG for wall packs, 14' or 10' AG for canopy, 8' for downlights.
- Building Height = 25' AFF
- Building Reflectance Value = 10/10/10
- Fixture Spacing = See Fixture Locations Schedule
- This photometric layout was calculated using specific criteria. Any deviation from stated parameters will affect actual performance.
- These lighting calculations are not a substitute for independent engineering analysis of lighting system suitability and safety.

Disclaimer

This lighting design is not a professional engineering drawing and is provided for informational purposes only, without warranty as to accuracy, completeness, reliability or otherwise. CED National Accounts is not responsible for specifying the lighting or illumination requirements for any specific project. It is the obligation of the end-user to consult with a professional engineering advisor to determine whether this lighting design meets the applicable project requirements for lighting system performance, safety, suitability and effectiveness for use in a particular application. End-user environment and application (including, but not limited to, voltage variation and dirt accumulation) can cause actual field performance to differ from the calculated photometric performance represented in this lighting design. In no event will CED National Accounts be held responsible for any loss resulting from any use of this lighting design.