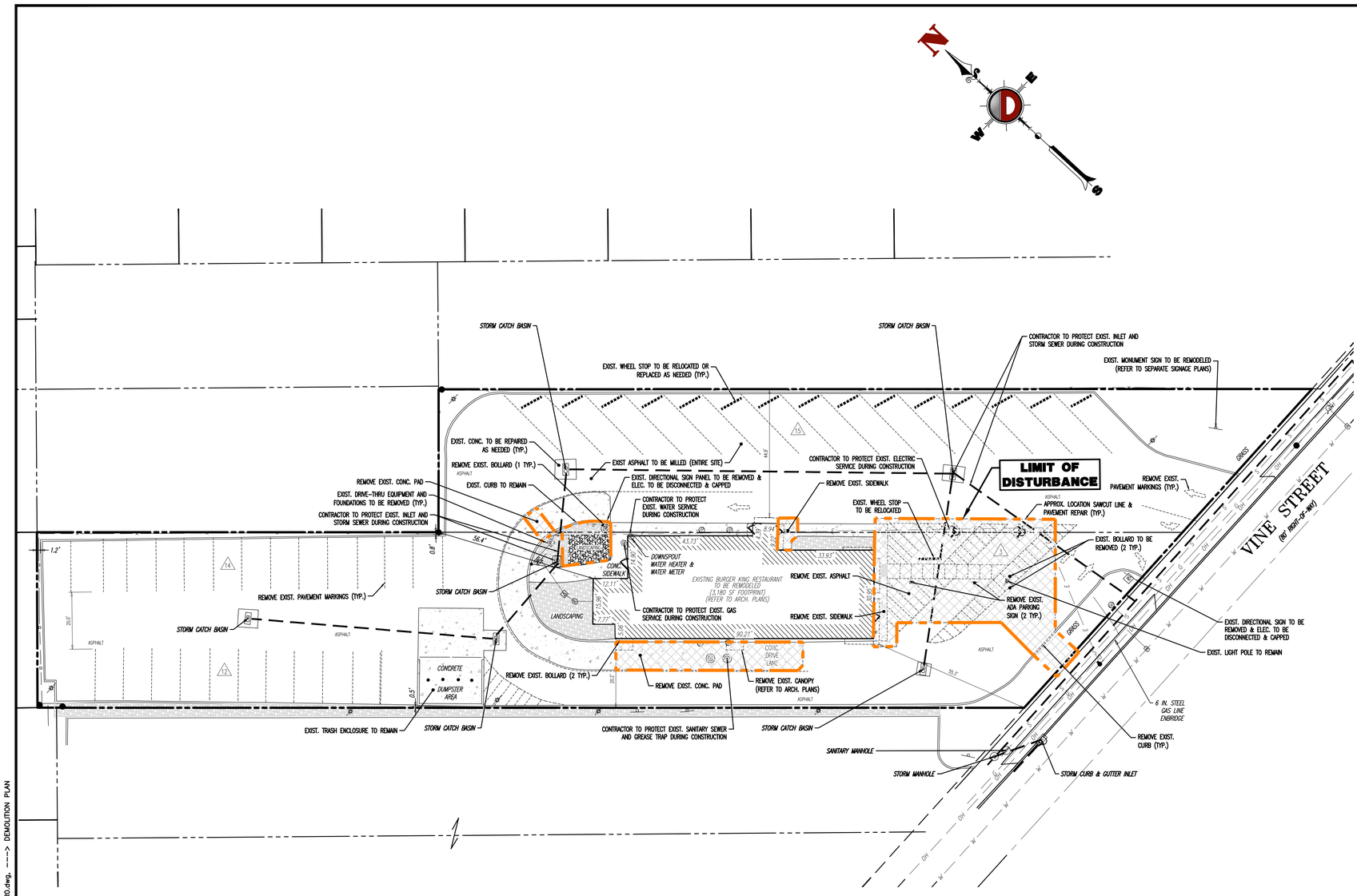


DEMOLITION NOTES

1. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
2. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
3. COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
4. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND.
6. BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY OWNER.
7. LOCATE DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS TO NOT IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.
8. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND ADJACENT FACILITIES, IF APPLICABLE).
9. DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING. ALL OTHER FOUNDATION SYSTEMS, INCLUDING BASEMENTS, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED PAVEMENT OR, BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE. CONTRACTOR TO REVIEW STRUCTURE PRIOR TO DEMOLITION TO DETERMINE IF BASEMENT, CRAWL SPACE OR ANY SUB-STRUCTURE EXISTS. ANY SUB-STRUCTURE, INCLUDING BASEMENTS SHALL BE REMOVED IN ITS ENTIRETY OR AS DIRECTED BY OWNER.
10. ERECT AND MAINTAIN COVERED PASSAGEWAYS IN ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE AND PERSONAL INJURY TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS. PLACE THE SAFETY AND PROTECTION OF THE SURROUNDING COMMUNITY AND PROPERTY AT THE HIGHEST PRIORITY.
11. REFRAIN FROM USING ANY EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES.
12. CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS.
13. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK.
14. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
15. COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL. PRIOR TO PLACEMENT OF FILL MATERIALS, UNDERTAKE ALL NECESSARY ACTION IN ORDER TO ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH AND COMPACT EACH LAYER AT PLACEMENT TO 95% OPTIMUM DENSITY. GRADE THE SURFACE TO MEET ADJACENT CONTOURS AND TO PROVIDE SURFACE DRAINAGE.
16. REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.
17. DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION. MARK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF DEMOLITION SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO ENSURE THE CONTINUATION OF SERVICE.
18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL PROCEDURES ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS NECESSARY.
19. CONTEMPLATION OF ACTIONS NECESSARY TO ADDRESS ENVIRONMENTAL CONSIDERATIONS IS EXCLUDED FROM THIS PLAN SET. SUCH CONSIDERATIONS MAY INCLUDE, BUT ARE NOT LIMITED TO THE CLOSURE/HANDLING/TRANSPORTATION/DISPOSAL OF UNDERGROUND STORAGE TANKS, CONTAMINATED MEDIA, UNIVERSAL WASTE, POTENTIALLY HAZARDOUS MATERIALS, ETC. PRIOR TO INITIATION OF DEMOLITION, THE CONTRACTOR SHALL SPECIFICALLY CONSULT WITH PROJECT OWNERSHIP TO CONFIRM IF ENVIRONMENTAL CONCERNS EXIST AND IF CONSULTATION WITH THE ENVIRONMENTAL PROFESSIONAL RESPONSIBLE FOR THIS PROJECT IS NECESSARY OR APPROPRIATE.
20. GROUNDWATER MONITORING WELLS AND POTABLE WELLS (IF PRESENT) SHALL BE PROTECTED DURING DEMOLITION. IF PROTECTION IS NOT POSSIBLE, THE ENVIRONMENTAL PROFESSIONAL RESPONSIBLE FOR THIS PROJECT SHALL BE CONSULTED. ANY WELLS THAT CANNOT BE MAINTAINED SHALL BE DECOMMISSIONED BY A LICENSED WELL DRILLER AND COORDINATED SPECIFICALLY WITH THE RESPONSIBLE ENVIRONMENTAL PROFESSIONAL.

NOTES
1. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM OR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
3. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED AT THE MAIN FOR WATER, AT THE CLEAN-OUT FOR SEWER AND THE SHUT-OFF VALVE OR MAIN FOR GAS IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS.
4. ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS.

LIMIT OF DISTURBANCE = 3,626 SF (0.08 AC)

DEMOLITION PLAN LEGEND

- PROPOSED LIMIT OF DISTURBANCE LINE
- EXISTING IMPROVEMENTS TO BE REMOVED UNLESS OTHERWISE NOTED

NOTE:
1. ALL EXISTING UTILITIES TO REMAIN UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES, ROOF/STORM DRAINS AND APPURTENANCES (MANHOLES, CLEANOUTS, VALVES, GREASE TRAP, ETC.) AND PROTECT SAME DURING CONSTRUCTION.

GRAPHIC SCALE
-20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FT

DYNAMIC ENGINEERING CONSULTANTS, P.C.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL • TRAFFIC

REV.	DATE	COMMENTS	BY

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: CED | DESIGNED BY: SDP/JCM | CHECKED BY: RJC | CHECKED BY: –

PROJECT: CARROLS, LLC
PROPOSED RESTAURANT REMODEL
PARCEL ID: 28-A-044-B-00-028-0 & 28-A-044-B-00-029-0
31305 VINE STREET
CITY OF WILLOWICK, LAKE COUNTY, OHIO 44095

811 Know what's below. Call before you dig.
PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

DYNAMIC ENGINEERING
LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING
245 Main Street
Suite 110
Chester, NJ 07930
T: 908.879.9229 | F: 908.879.0222
Offices conveniently located throughout the United States:
New Jersey | Florida | Maryland | Pennsylvania | Texas
www.dynamicec.com

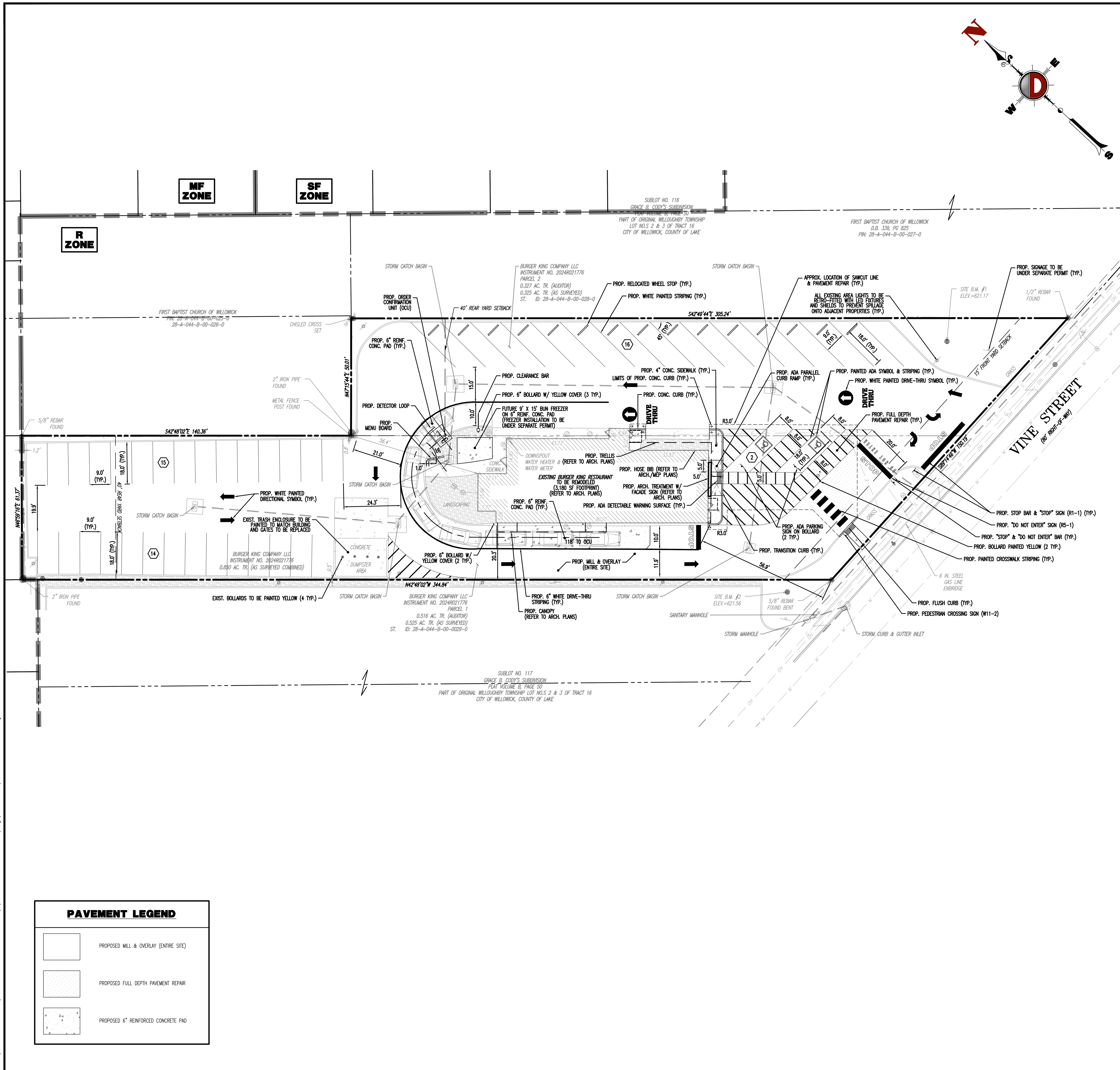
ROBERT J. COLUCCO III
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 55851

JOSEPH D. SPARONE
PROFESSIONAL ENGINEER

TITLE: EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: (H) 1"=20' (V). | DATE: 05/04/2026
PROJECT No: 2766-26-00539

SHEET No: C-1 OF 6 | Rev. #: 0



GENERAL NOTES

1. THIS PLAN HAS BEEN PREPARED BASED ON REFERENCES INCLUDING:

   ALTA/NSPS SURVEY
   SURVEYING AND MAPPING, LLC
   929 EASTWIND DRIVE, SUITE 201
   WESTERVILLE, OHIO 43081
   FILE #: 102617246
   DATED: 03/23/2026

   ARCHITECTURAL PLANS
   SKYBORNE TECHNOLOGIES
   PO BOX #875
   WESTFORD, MASSACHUSETTS 01886
   PROJECT #: 200558
   DATED: 04/10/2026

2. APPLICANT: CARROLS, LLC
   968 JAMES STREET
   SYRACUSE, NEW YORK 13203

3. OWNER: BURGER KING COMPANY LLC
   31305 VINE STREET
   WILLOWICK, OHIO 44095

4. PARCEL DATA: PARCEL ID: 28-A-044-B-00-028-0 & 28-A-044-B-00-029-0
   31305 VINE STREET
   CITY OF WILLOWICK
   LAKE COUNTY, OHIO 44095
   ZONE: RETAIL DISTRICT
   USE: DRIVE-THROUGH RESTAURANT **(PERMITTED USE)** (§1145.03)

5. SCHEDULE OF ZONING REQUIREMENTS (§1163.08, §1163.10, §1145.04)

ZONE REQUIREMENT	RETAIL DISTRICT	EXISTING	PROPOSED
MINIMUM LOT AREA	N/S	37,022 SF (0.85 Ac)	NO CHANGE
MINIMUM FRONT YARD SETBACK	15'	55.3'	56.9'
MINIMUM REAR YARD SETBACK	20% OF LOT DEPTH / 40' (1)	56.4'	NO CHANGE
MINIMUM SIDE YARD SETBACK	N/S	20.2'	20.3'
MAXIMUM BUILDING HEIGHT	35' / 3 STORIES	15.6' / 1 STORY	16.0' / 1 STORY
MAXIMUM IMPERVIOUS COVERAGE	N/S	89.2% (33,035 SF)	89.7% (33,218 SF)

N/S: NO STANDARD N/A: NOT APPLICABLE **(E)**: EXISTING NON-CONFORMANCE **(V)**: VARIANCE

(1) IN A RETAIL AND INDUSTRIAL DISTRICT WHERE THE REAR LINE OF THE LOT ADJOINS A SINGLE FAMILY OR APARTMENT DISTRICT, EVERY BUILDING ERECTED SHALL HAVE THE REAR YARD. THE LEAST DIMENSIONS OF SUCH YARD SHALL BE AT LEAST 20% OF THE DEPTH OF THE LOT, BUT SUCH LEAST DIMENSIONS NEED NOT BE MORE THAN 40' PROVIDED SUCH LEAST DIMENSION SHALL IN NO CASE BE LESS THAN ONE-HALF OF THE HEIGHT OF THE BUILDING

6. PARKING REQUIREMENTS: (§1145.05)

   A. MINIMUM NUMBER OF PARKING SPACES:
   FAST FOOD ESTABLISHMENT: 1 SPACE PER 100 SF OF FLOOR AREA OR 1 SPACE PER 2 SEATS, WHICHEVER IS GREATER
   (3,180 SF)*(1 SPACE/100 SF) = 32 SPACES REQUIRED; OR
   (61 SEATS)*(1 SPACE/2 SEATS) = 31 SPACES REQUIRED;
   THEREFORE:
   32 PARKING SPACES REQUIRED; 44 SPACES EXISTING; 47 PARKING SPACES PROPOSED **(COMPLIES)**

7. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AUTHORITIES.
8. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
9. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC.
10. THE PROPERTY SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS.
11. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
12. SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
13. ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION.
14. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.
15. ALL CONTRACTORS MUST CARRY STATUTORY WORKERS COMPENSATION, EMPLOYERS LIABILITY INSURANCE AND APPROPRIATE LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME DYNAMIC ENGINEERING CONSULTANTS, P.C. , ITS SUBCONSULTANTS AS ADDITIONAL INSURED AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THE HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH DYNAMIC ENGINEERING CONSULTANTS, P.C. WITH CERTIFICATES OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS DYNAMIC ENGINEERING CONSULTANTS, P.C. AND ITS SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.
16. NEITHER THE PROFESSIONAL ACTIVITIES OF DYNAMIC ENGINEERING CONSULTANTS, P.C., NOR THE PRESENCE OF DYNAMIC ENGINEERING CONSULTANTS, P.C. OR ITS EMPLOYEES AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. DYNAMIC ENGINEERING CONSULTANTS, P.C. AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE MADE ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.
17. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN IN THE CONSTRUCTION MEANS OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DYNAMIC ENGINEERING'S REVIEW SHALL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT DYNAMIC ENGINEERING CONSULTANTS, P.C. HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE ATTENTION OF DYNAMIC ENGINEERING CONSULTANTS, P.C. IN WRITING BY THE CONTRACTOR. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
18. IN AN EFFORT TO RESOLVE ANY CONFLICTS THAT ARISE DURING THE DESIGN AND CONSTRUCTION OF THE PROJECT OR FOLLOWING THE COMPLETION OF THE PROJECT, DYNAMIC ENGINEERING CONSULTANTS, P.C. AND THE CONTRACTOR MUST AGREE THAT ALL DISPUTES BETWEEN THEM ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE PROJECT SHALL BE SUBMITTED TO NONBINDING MEDIATION UNLESS THE PARTIES MUTUALLY AGREE OTHERWISE.
19. THE CONTRACTOR MUST INCLUDE A MEDIATION PROVISION IN ALL AGREEMENTS WITH INDEPENDENT SUBCONTRACTORS AND CONSULTANTS RETAINED FOR THE PROJECT AND TO REQUIRE ALL INDEPENDENT CONTRACTORS AND CONSULTANTS ALSO TO INCLUDE A SIMILAR MEDIATION PROVISION IN ALL AGREEMENTS WITH THEIR SUBCONTRACTORS, SUBCONSULTANTS, SUPPLIERS AND FABRICATORS, THEREBY PROVIDING FOR MEDIATION AS THE PRIMARY METHOD FOR DISPUTE RESOLUTION BETWEEN THE PARTIES TO ALL THOSE AGREEMENTS.
20. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND IT SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CONNECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.
21. ALL TRAFFIC SIGNS AND STRIPING SHALL FOLLOW THE REQUIREMENTS SPECIFIED IN THE MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
22. THE BUILDING SETBACK DIMENSIONS ILLUSTRATED AND LISTED ON THE SITE PLAN DRAWINGS ARE MEASURED FROM THE OUTSIDE SURFACE OF BUILDING WALLS. THESE SETBACK DIMENSIONS DO NOT ACCOUNT FOR ROOF OVERHANGS, ORNAMENTAL ELEMENTS, SIGNAGE OR OTHER EXTERIOR EXTENSIONS UNLESS SPECIFICALLY NOTED.
23. BURGER KING AND LANDLORD TO CONFIRM AND AGREE UPON LEASE LINE LOCATION IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.
24. CONTRACTOR TO BE ADVISED THAT THE ENGINEER WAS NOT PROVIDED WITH FINAL FLOOR PLAN DRAWINGS FOR THE BUILDING AT THE TIME OF SITE PLAN DESIGN. AS A RESULT, ENTRANCE DOOR LOCATIONS AS DEPICTED HEREON MAY NOT BE FINAL AND MUST BE CONFIRMED WITH THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. THE HANDICAP ACCESSIBLE PARKING SPACES AND THE ASSOCIATED RAMPS AND ACCESSIBLE ROUTE MUST COMPLY WITH STATE AND MOST CURRENT ADDITION OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND THE HANDICAP PARKING SPACES MUST BE LOCATED AS THE NEAREST SPACES TO THE ENTRANCE. CONTRACTOR TO NOTIFY OWNER AND ENGINEER IMMEDIATELY OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.

DYNAMIC
ENGINEERING • EARTH • SURVEY • TRAFFIC

REV.	DATE	COMMENTS	BY

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: ZAD | DESIGNED BY: SDP/JCM | CHECKED BY: RJC | CHECKED BY: –

PROJECT: **CARROLS, LLC**
PROPOSED RESTAURANT REMODEL
PARCEL ID: 28-A-044-B-00-028-0 & 28-A-044-B-00-029-0
31305 VINE STREET
CITY OF WILLOWICK, LAKE COUNTY, OHIO 44095

CARROLS

811 Know what's below. Call before you dig.
PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

DYNAMIC ENGINEERING
LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING
245 Main Street
Suite 110
Chester, NJ 07930
T: 908.879.9229 | F: 908.879.0222
Offices conveniently located throughout the United States:
New Jersey | Delaware | Florida | Maryland | Pennsylvania | Texas
www.dynamicec.com

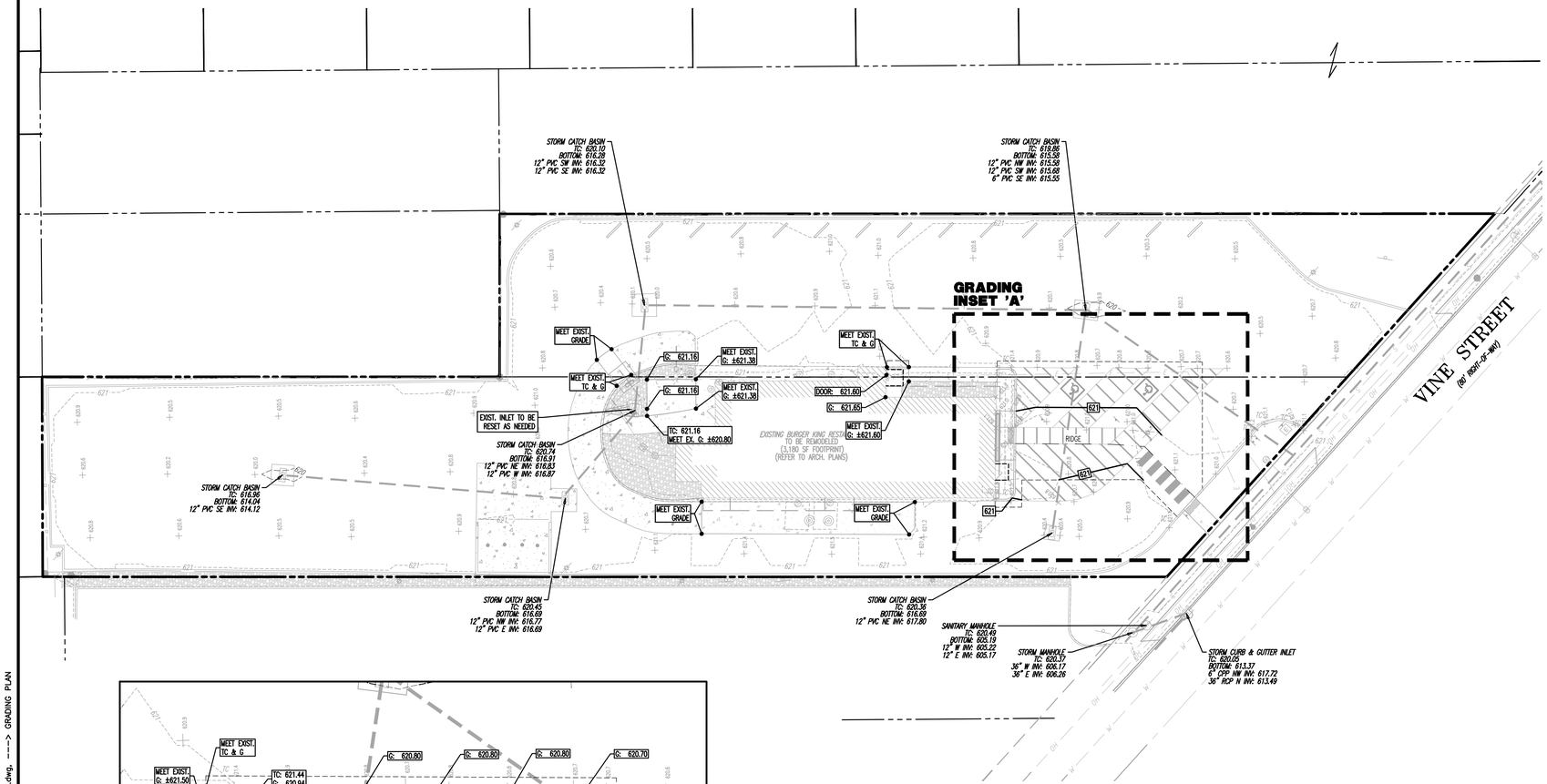
ROBERT J. COLUCCO III
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 55851

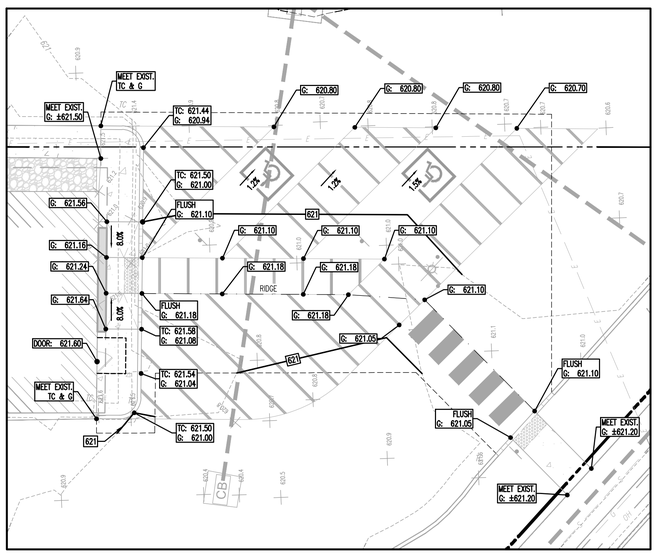
JOSEPH C. SPARONE
PROFESSIONAL ENGINEER
(Seal: STATE OF OHIO, JOSEPH C. SPARONE, E-83563, REGISTERED PROFESSIONAL ENGINEER)

TITLE: **SITE PLAN**

SCALE: (H) 1"=20' (V) .
DATE: 05/04/2026
PROJECT No: 2766-26-00539

SHEET No: **C-2** OF 6
Rev. #: 0





GRADING INSET 'A'

SCALE: 1" = 10'

GRADING NOTES

1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER A.S.T.M. TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A "COMPACTION" REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITHIN THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL ISLAND GUTTERS/CURBS AND 1.0% ON ALL CONCRETE SURFACES, AND 1.5% MIN. ON ASPHALT UNLESS OTHERWISE NOTED. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST, MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK.
3. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MIN. OF 0.75% LONGITUDINAL GUTTER GRADE ALONG CURB FACE RECEIVING SURFACE RUNOFF. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
4. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).
5. REFER TO SITE PLAN FOR ADDITIONAL NOTES.
6. IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IMMEDIATELY.
7. MAXIMUM CROSS SLOPE OF 1:48 (2.08%) ON ALL SIDEWALKS.
8. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND FINAL BASIN PERMEABILITY TESTING.
9. THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.

EXISTING UTILITY NOTES

EXISTING WATER SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING WATER SERVICE CONNECTION IF FEASIBLE. OTHERWISE REMOVE EXISTING WATER SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL WATER COMPANY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL WATER COMPANY PRIOR TO COMPLETION. IF THE EXISTING WATER SERVICE CAN NOT BE UTILIZED, THE NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL WATER COMPANY. CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

EXISTING GAS SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING GAS SERVICE CONNECTION IF FEASIBLE. OTHERWISE REMOVE EXISTING GAS SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL GAS COMPANY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL GAS COMPANY PRIOR TO COMPLETION. ANY NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

SANITARY SEWER SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING SEWER SERVICE CONNECTION IF OF ADEQUATE SIZE AND INTEGRITY AND ACCEPTABLE TO LOCAL SEWER AUTHORITY. OTHERWISE CONTRACTOR TO REMOVE EXISTING SEWER SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL SEWER AUTHORITY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL SEWER AUTHORITY PRIOR TO COMPLETION. IF EXISTING SEWER SERVICE CAN NOT BE UTILIZED THEN THE NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL SEWER AUTHORITY. CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

ADA NOTES

1. ALL SLOPES INDICATED ARE ACTUAL. CONTRACTOR TO CONSTRUCT IMPROVEMENTS IN COMPLIANCE WITH THE LATEST ADA GUIDELINES AND BUILDING CODE REQUIREMENTS. AT THE TIME OF PLAN DESIGN, THESE REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:
   A. SIDEWALKS/ ACCESSIBLE ROUTES:
      - WIDTH: 36" MIN. EXCLUSIVE OF THE WIDTH OF ANY CURB
      - PASSING SPACE: MIN. 60"x 60" AT INTERVALS OF 200' MAX IF ACCESSIBLE ROUTE WIDTH IS LESS THAN 60"
      - RUNNING SLOPE: 1:20 (5%) MAX.
      - CROSS SLOPE: 1:48 (2.08%) MAX., 1.0% MIN.
      - INTERSECTION SLOPE: 1:48 (2.08%) MAX. IN ALL DIRECTIONS
      - CHANGE IN LEVELS: 1/4" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELED EDGE BEVELED EDGE SLOPE OF 1:2 (50%) MAX.
      - GAPS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL
   B. CURB RAMPS:
      - SLOPE 1:12 (8.3%) MAX.
      - SIDE FLARE SLOPE: 1:10 (10%) MAX OR 1:12 (8.3%) MAX IN ALTERATIONS WHERE TOP LANDING IS UNAVAILABLE (WHERE PEDS CROSS RAMP)
      - BOTTOM LANDING: 48" MIN. LENGTH; WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) IN ALL DIRECTIONS
      - TOP LANDING: 36" MIN. LENGTH; WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) CROSS SLOPE AND 1:20 (5%) RUNNING SLOPE WHEN ONLY CONNECTING ACCESSIBLE ROUTE RUNS PARALLEL TO THE RAMP RUN.
      - COUNTER SLOPE: 1:20 (5%) MAX.
   C. ACCESSIBLE PARKING STALLS:
      - SPACE AND ACCESS AISLE SLOPE: 1:48 MAX. (2.08%) IN ALL DIRECTIONS ACROSS ACCESSIBLE PARKING STALLS AND STRIPED ACCESS AISLES
   D. CROSSWALKS
      - RUNNING SLOPE: 1:20 (5%) MAX.
      - CROSS SLOPE: 1:48 (2.08%) MAX.
      - CHANGE IN LEVELS: 1/4" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELED EDGE. BEVELED EDGE SLOPE OF 1:2 (50%) MAX.
      - GAPS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL
   E. RAMPS
      - SLOPE: 1:12 (8.3%) MAX.
      - MAX. RISE: 30"
      - MIN. CLEAR WIDTH: 36"
      - MIN. LANDING CLEAR LENGTH: 60"
      - MAX. CROSS SLOPE: 1:48 (2.08%)
   F. CONTRACTOR SHALL CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION AND/OR GRADING IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.

GRADING/UTILITY GRAPHIC LEGEND

PROPERTY LINE (PARCEL IN QUESTION)
OFF-SITE PROPERTY LINES
EXIST. GUY WIRE
EXIST. LIGHT POLE
EXIST. BUILDING LIGHT
EXIST. SHOE BOX LIGHT
EXIST. COBRA LIGHT POLE
EXIST. TRAFFIC SIGNAL POLE
EXIST. MANHOLE
EXIST. "A" INLET
EXIST. "B" INLET
EXIST. "E" INLET
EXIST. YARD INLET
EXIST. FLARED END SECTION
EXIST. HEADWALL
EXIST. UTILITY POLE
EXIST. MONITORING WELL
APPROX. TEST PIT LOCATION
EXIST. FIRE HYDRANT
EXIST. WATER VALVE
EXIST. GAS VALVE
EXIST. GAS METER
EXIST. ELECTRIC METER
EXIST. ELECTRIC BOX
EXIST. CLEAN OUT
EXIST. WELL
EXIST. WATER SHUT OFF VALVE
EXIST. TELEPHONE BOX
EXIST. CABLE TV BOX
PROP. HEADWALL
PROP. WATER VALVE
PROP. GAS VALVE
PROP. STORM CLEANOUT
PROP. SANITARY CLEANOUT
PROP. AREA LIGHT
PROP. OUTLET CONTROL STRUCTURE
PROP. DRAINAGE MANHOLE
PROP. SANITARY SEWER MANHOLE
PROP. "A" INLET
PROP. "B" INLET
PROP. "E" INLET
PROP. YARD INLET
PROP. FLARED END SECTION
EXIST. CABLE LINE
PROP. CABLE LINE
EXIST. ELECTRIC LINE
PROP. ELECTRIC LINE
EXIST. FIBER OPTIC LINE
PROP. FIBER OPTIC LINE
EXIST. GAS LINE
PROP. GAS LINE
EXIST. OVERHEAD WIRES
PROP. OVERHEAD WIRES
EXIST. TELEPHONE LINE
PROP. TELEPHONE LINE
EXIST. WATER SERVICE
PROP. WATER SERVICE
EXIST. FIRE SERVICE
PROP. FIRE SERVICE
EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
PROP. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
EXIST. SANITARY SEWER LINE
PROP. SANITARY SEWER LINE
EXIST. FORCE MAIN
PROP. FORCE MAIN
EXIST. STORM DRAIN LINE
PROP. STORM DRAIN LINE
UNDERGROUND UTILITY QUALITY LEVEL
EXIST. MINOR CONTOUR & ELEVATION
EXIST. MAJOR CONTOUR & ELEVATION
PROP. FINISH GRADE CONTOUR & ELEVATION
PROP. DIRECTION OF DRAINAGE FLOW ARROW
DOOR
TYPICAL ADA MANEUVERING CLEARANCE AREA AT DOOR (SEE ARCHITECTURAL PLAN)
EXIST. SPOT ELEVATIONS
EXIST. GUTTER ELEV.
EXIST. TOP OF CURB ELEV.
EXIST. FINISH FLOOR ELEV.
EXIST. GARAGE FLOOR ELEV.
PROP. GRADE SPOT ELEV.
PROP. TOP OF CURB & FINISHED GRADE ELEV.
PROP. FINISHED FLOOR ELEV.
PROP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF WALL (ACTUAL BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)
PROP. TOP OF EXTENDED CURB, (GH) FINISHED GRADE @ HIGH SIDE OF EXTENDED CURB & (GL) FINISHED GRADE @ LOW SIDE OF EXTENDED CURB

GRAPHIC SCALE
-20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FT

Plotted: 05/05/26 - 9:49 AM, By: jmeditz, - Product Ver: 25.1
File: P:\DECPC PROJECTS\2766 Carrols Restaurant Group\26-00539 Willowick OH\Dwg\Site Plans\D27662600539SXG.dwg, ---> GRADING PLAN

DYNAMIC ENGINEERING CONSULTANTS, PC

BY	COMMENTS	DATE	REV.

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: JCM | DESIGNED BY: SDP/JCM | CHECKED BY: RJC | CHECKED BY: -

PROJECT: CARROLS, LLC
PROPOSED RESTAURANT REMODEL
PARCEL ID: 28-A-044-B-00-028-0 & 28-A-044-B-00-029-0
31305 VINE STREET
CITY OF WILLOWICK, LAKE COUNTY, OHIO 44095

811 Know what's below. Call before you dig.
PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

DYNAMIC ENGINEERING
LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING
245 Main Street
Suite 110
Chester, NJ 07930
T: 908.879.9229 | F: 908.879.0222
Offices conveniently located throughout the United States:
New Jersey | Delaware | Florida | Maryland | Pennsylvania | Texas
www.dynamicec.com

ROBERT J. COLUCCO III
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 55851

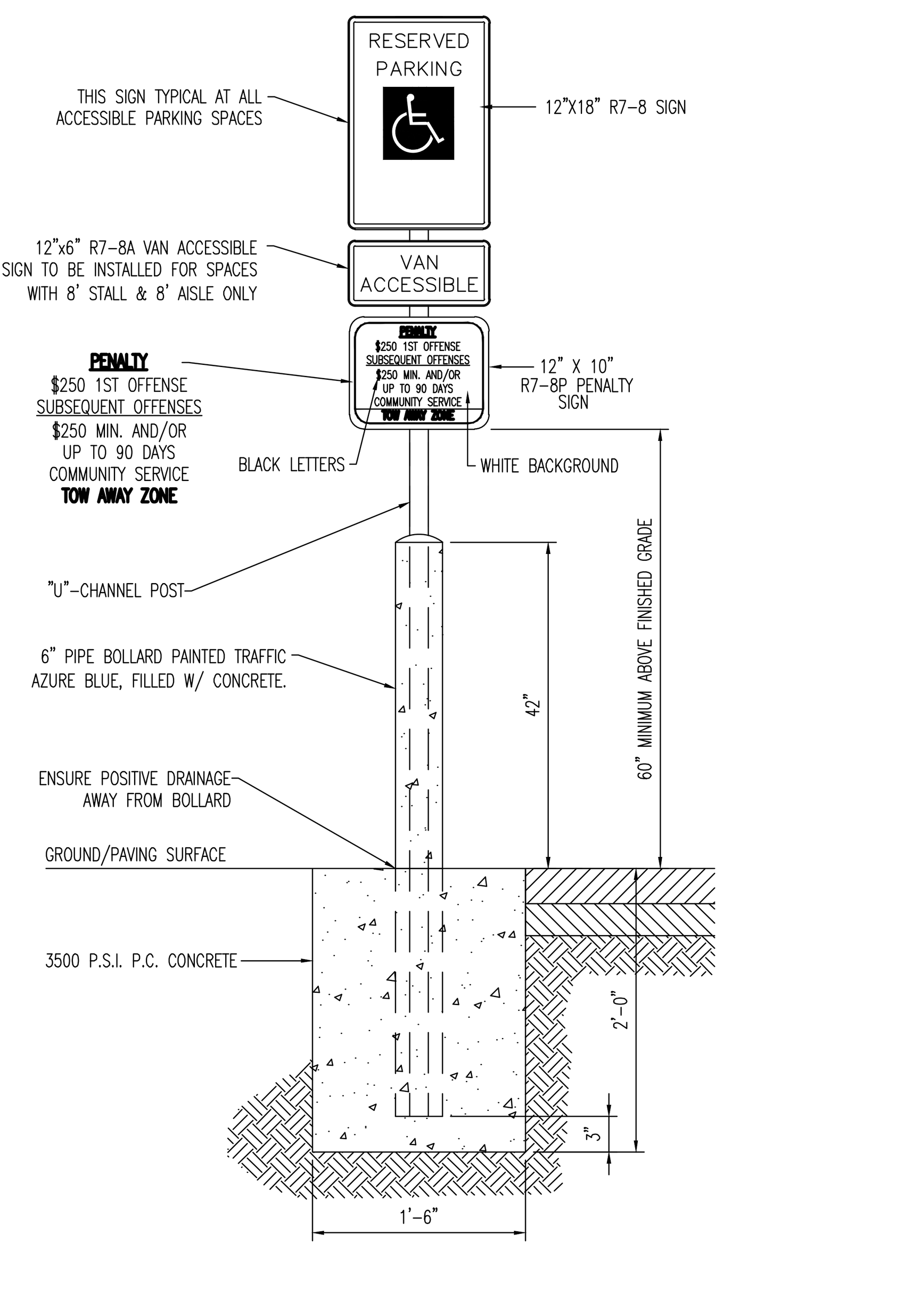
JOSEPH K. SPERONE
PROFESSIONAL ENGINEER
STATE OF OHIO
JOSEPH K. SPERONE
E-67563
REGISTERED PROFESSIONAL ENGINEER

TITLE: GRADING PLAN

SCALE: (V) 1"=20' (H) | DATE: 05/04/2026
PROJECT No: 2766-26-00539

SHEET No: C-3 OF 6 | Rev. #: 0

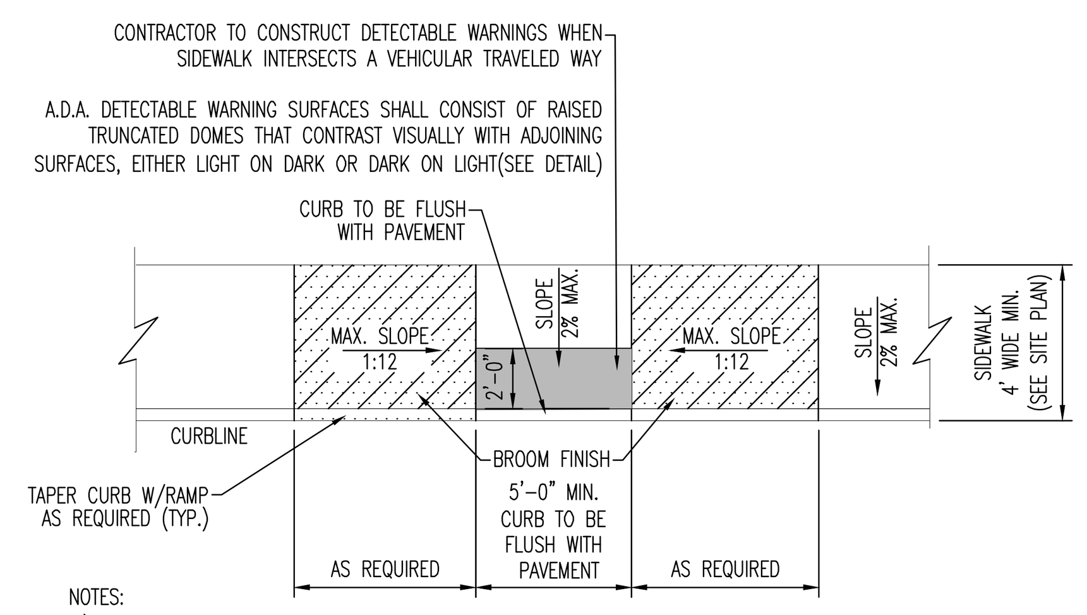
MUNICIPAL, COUNTY, STATE AND MUA DETAILS TO SUPERSEDE DYNAMIC ENGINEERING DETAILS WHERE APPLICABLE



NOTES:
1.) IF AT THE TIME OF CONSTRUCTION THE STATE OF OHIO HAS APPROVED FINES/PENALTIES DIFFERENT THAN THOSE INDICATED ON THIS DETAIL, CONTRACTOR IS TO PROVIDE SIGNAGE INDICATING THE CURRENT FINES/PENALTIES AS APPROVED BY THE STATE OF OHIO.

2.) ALL SIGNAGE SHALL BE 60" MINIMUM ABOVE FINISHED GRADE WHERE APPLICABLE.

A.D.A. PARKING SIGN ON BOLLARD DETAIL
NOT TO SCALE



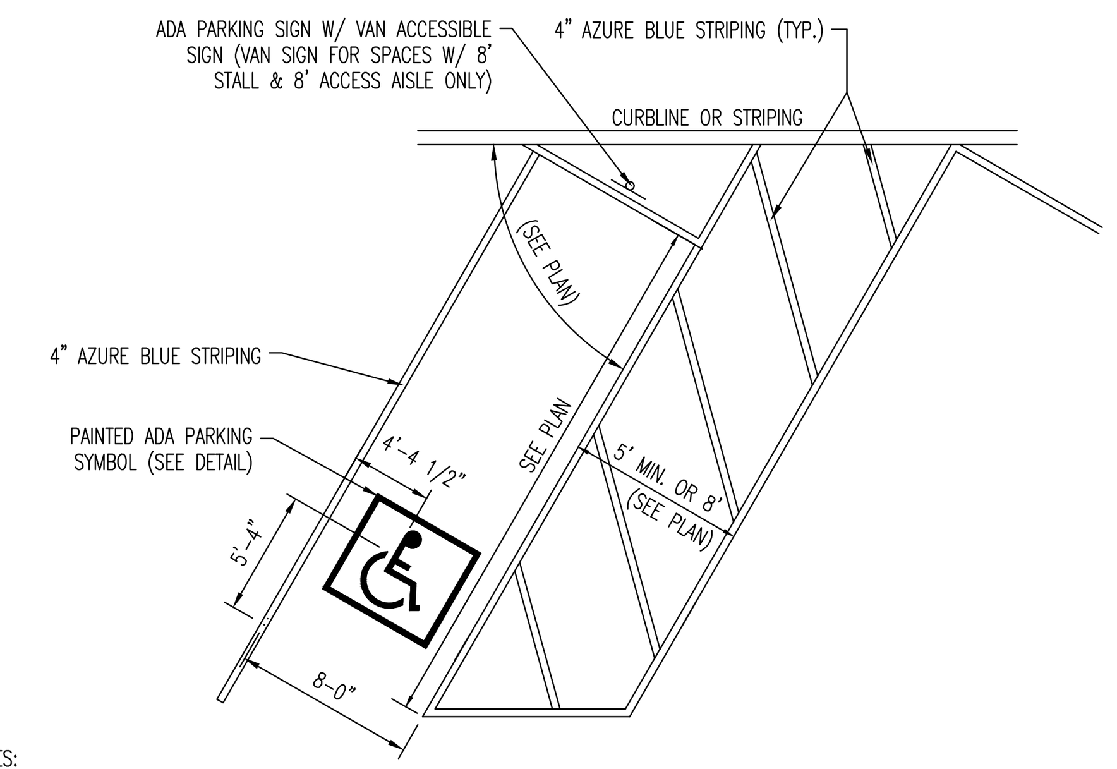
NOTES:
1.) CURB RAMPS MAY NOT EXTEND INTO ANY PORTION OF THE PARKING SPACE OR ASSOCIATED STRIPED ISLAND.

2.) COUNTER SLOPES OF ADJOINING GUTTERS AND PAVEMENT SHALL NOT BE STEEPER THAN 1:20 WITH A MAX. CROSS SLOPE OF 2%.

3. A LEVEL LANDING AREA(MAX. SLOPE 2% IN ANY DIRECTION) SHALL BE PROVIDED AT THE TOP OF THE RAMP. THE LANDING CLEAR LENGTH SHALL BE 36" MIN AND THE CLEAR WIDTH SHALL BE AS WIDE AS THE RAMP.

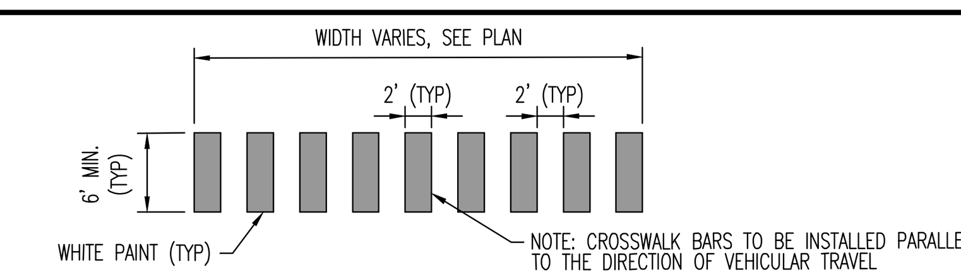
4.) CURB RAMPS, PAVEMENT MARKINGS & APPLICABLE SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST A.D.A. ACCESSIBILITY GUIDELINES.

A.D.A. PARALLEL CURB RAMP DETAIL
NOT TO SCALE



NOTES:
1. PAVEMENT STRIPING FOR ALL ADA PARKING SPACES SHALL BE PAINTED AZURE BLUE.
2. WHERE AN ADA PARKING STALL MEETS A STANDARD PARKING STALL, AN AZURE BLUE AND WHITE PAVEMENT STRIPE SHALL BE PAINTED.
3. ALL PAVEMENT STRIPING, MARKINGS AND SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADA ACCESSIBILITY GUIDELINES.

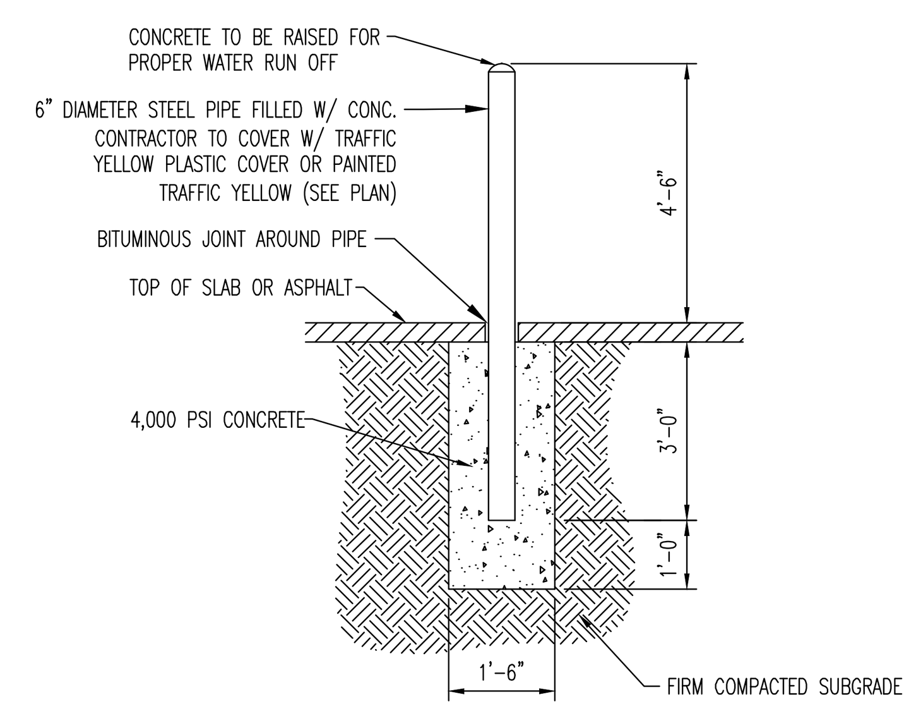
ADA PARKING STALL MARKINGS
NOT TO SCALE



TYPICAL CONTINENTAL CROSSWALK

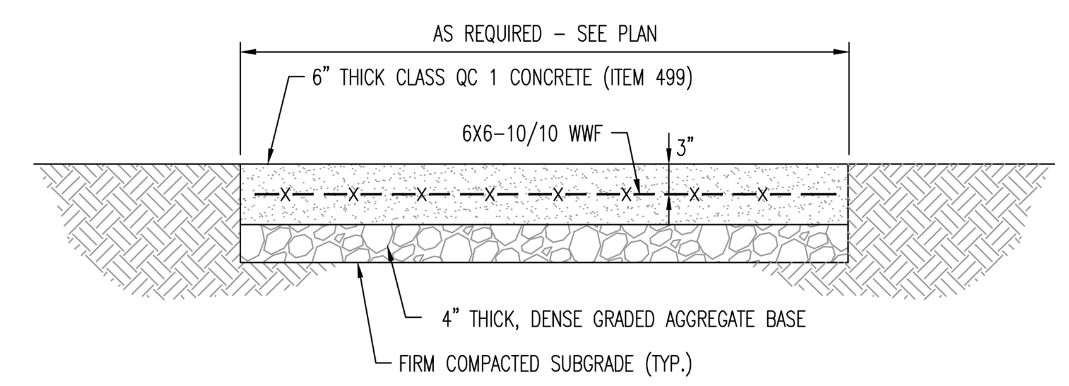
NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE IN COMPLETE CONFORMANCE WITH THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
2. SEE PLAN FOR TYPE OF CROSSWALK MARKING PROPOSED.

PAINTED CROSSWALK STRIPING DETAILS
NOT TO SCALE



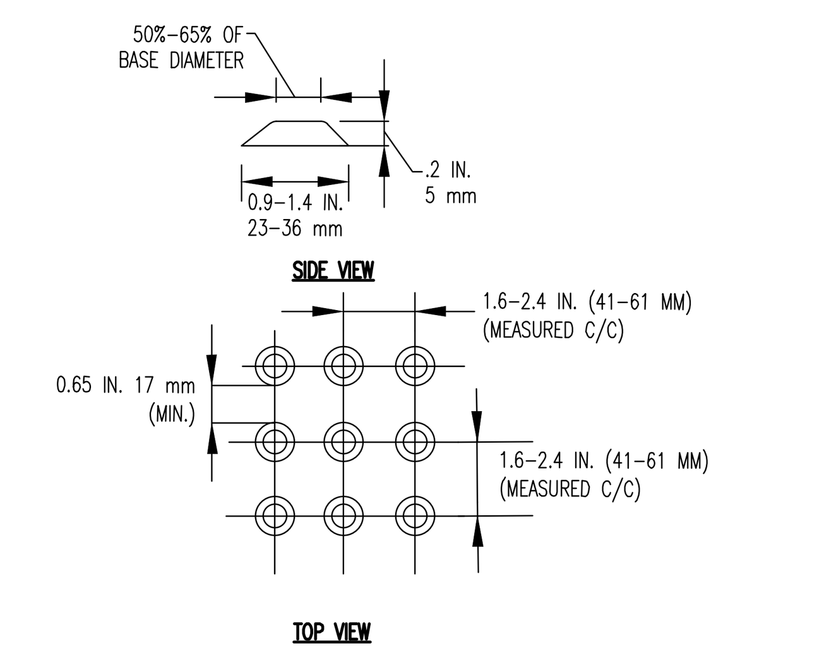
NOTES:
1. BOLLARD MUST RESIST A FORCE OF 12,000 POUNDS APPLIED 36" ABOVE THE DRIVING SURFACE.
2. BOLLARDS REQUIRED AS DEPICTED ON SITE PLAN DRAWINGS. TYPICALLY LOCATED AT BUILDING CORNERS, TRANSFORMERS, FIRE HYDRANTS, EXTERIOR WATER METER, GAS METER, FIRE DEPARTMENT CONNECTIONS, AND TRASH ENCLOSURES.

6" BOLLARD DETAIL
NOT TO SCALE



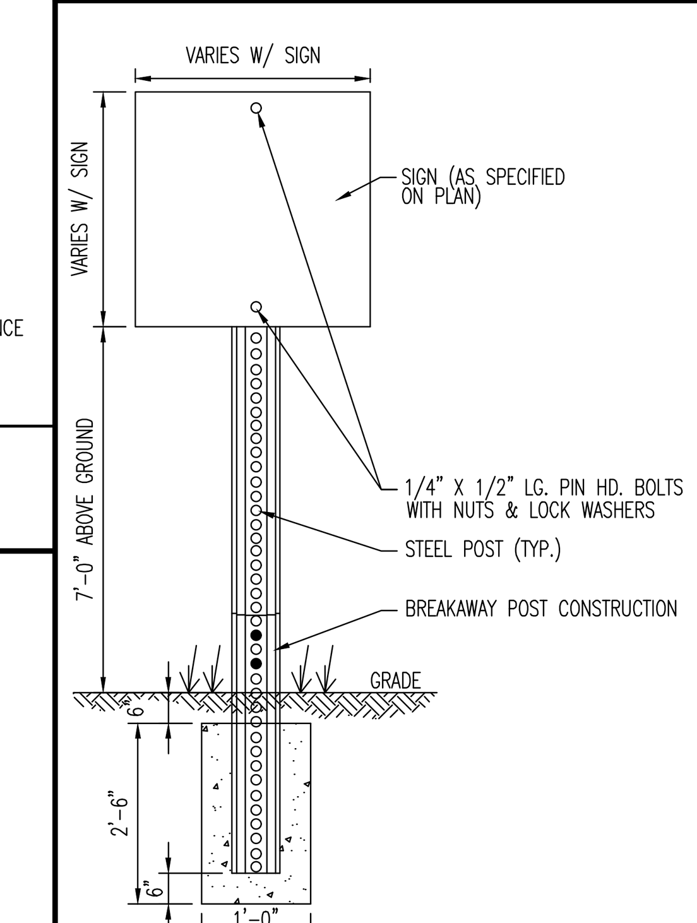
NOTES:
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS PER CUBIC YARD FOR ALL FOOTINGS.
2. ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1".
3. ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED, (6% WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.
4. REINFORCING STEEL SHALL BE A MINIMUM ASTM A615, GRADE 60, AND SHALL BE FIELD WIRED IN PLACE.
5. ALL FORMWORK, AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND REGULATIONS, AS WELL AS THE ACI AND UNIFORM BUILDING CODE.
6. PROVIDE CONTRACTION JOINTS AT DEPTH NO LESS THAN 1-1/2" AND A WIDTH OF 1/4" TO 3/8" MAX., SPACED IN BOTH DIRECTIONS, NO GREATER THAN 20'.
7. PROVIDE EXPANSION JOINTS CONSISTING OF 1/2" WIDE PREMOLDED BITUMINOUS MATERIAL AND SPACED IN BOTH DIRECTIONS, NO GREATER THAN 40', AND AT EDGES OF BUILDINGS, WALLS AND OTHER STRUCTURES.
8. EXPANSION AND CONTRACTION JOINT PATTERNS SHOULD DIVIDE CONCRETE INTO APPROXIMATE RECTANGULAR PANELS WITH LENGTHS NOT MORE THAN 125% OF WIDTH AND AVOID ACUTE ANGLES.

6" REINFORCED CONCRETE PAD DETAIL
NOT TO SCALE

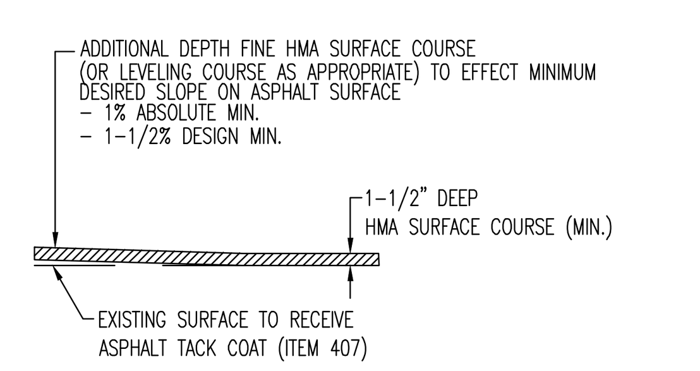


NOTES:
1. DETECTABLE WARNINGS SHALL BE A PRE-MANUFACTURED ARMOUR TILE TACTILE SYSTEM OR APPROVED EQUIVALENT.
2. WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT ON DARK OR DARK ON LIGHT PER LATEST A.D.A. ACCESSIBILITY GUIDELINES.
3. CONTRACTOR TO COORDINATE SPECIFIC SYSTEM AND MATERIALS UTILIZED WITH THE ENGINEER TO ENSURE LOCAL, STATE AND A.D.A. COMPLIANCE PRIOR TO CONSTRUCTION.
4. DETECTABLE WARNING SURFACE SHALL BE IN ACCORDANCE WITH THE LATEST ADA ACCESSIBILITY GUIDELINES.

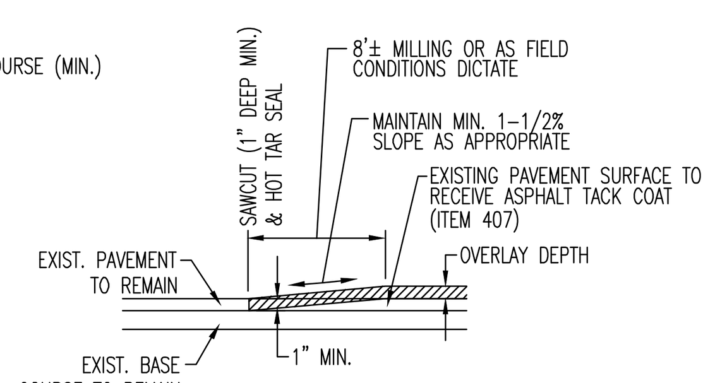
TRUNCATED DOME PATTERN FOR A.D.A. DETECTABLE WARNING SURFACE
NOT TO SCALE



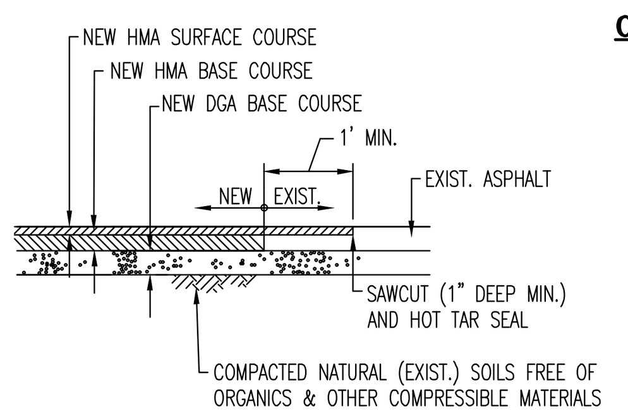
SIGN POST & FOOTING DETAIL
NOT TO SCALE



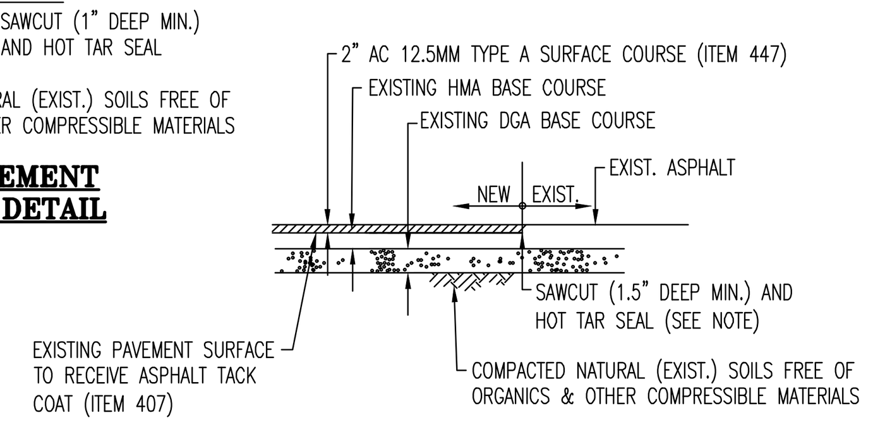
OVERLAY PAVEMENT DETAIL



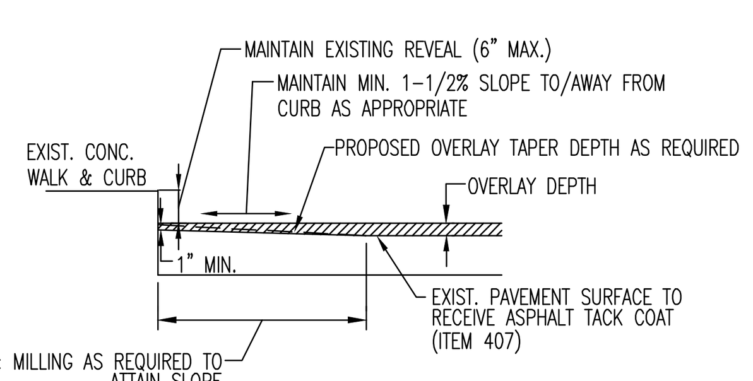
OVERLAY PAVEMENT EDGE CONDITION DETAIL



FULL DEPTH PAVEMENT EDGE CONDITION DETAIL



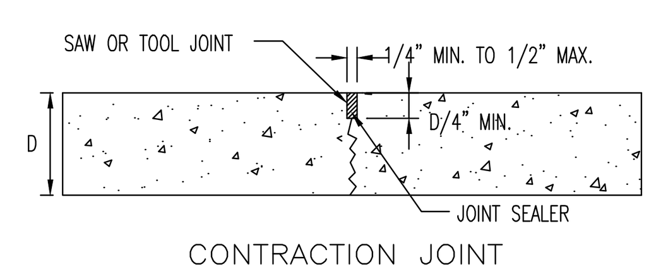
MILLING & OVERLAY DETAIL



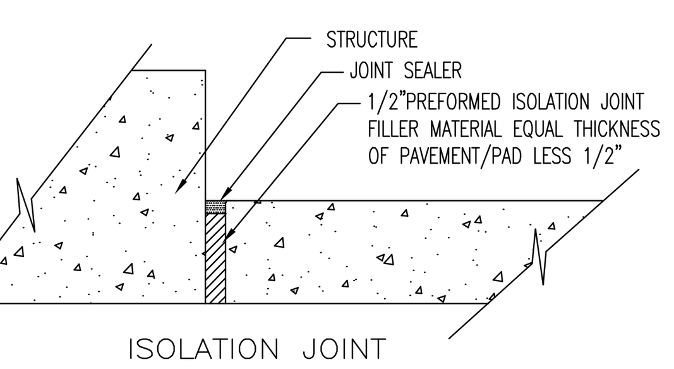
EXISTING CONCRETE WALK AND EDGE CONDITION PAVEMENT DETAIL

NOTES:
1. REMOVE THE HMA MATERIAL LEFT BY THE DRUM RADIUS AT THE LIMITS OF THE MILLING OPERATION. ENSURE THAT THE FACE IS CLEAN AND VERTICAL BY SAWCUTTING OR TRANSVERSE MILLING.
2. ALL PAVEMENT SECTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS 2023.
3. SEE PAVING DETAILS FOR ADDITIONAL INFORMATION.

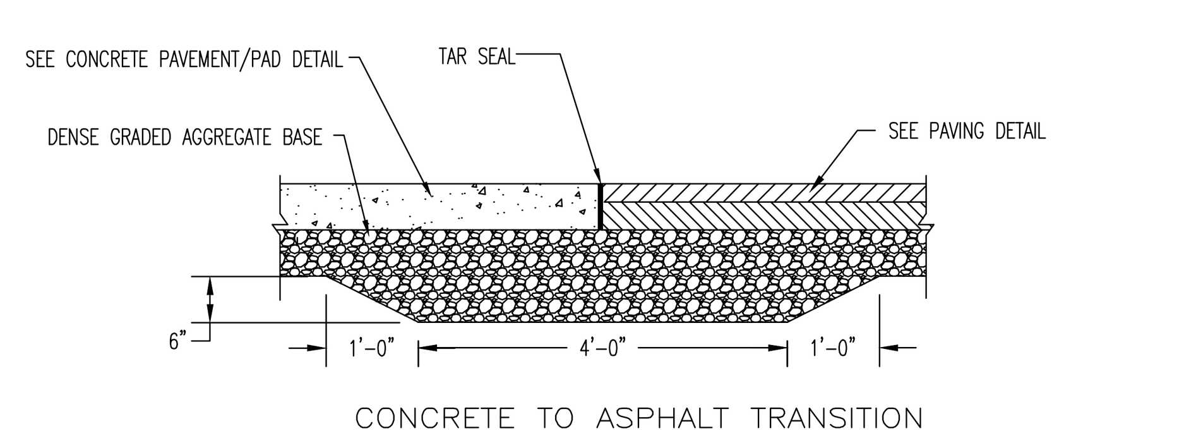
MILLING DETAILS
NOT TO SCALE



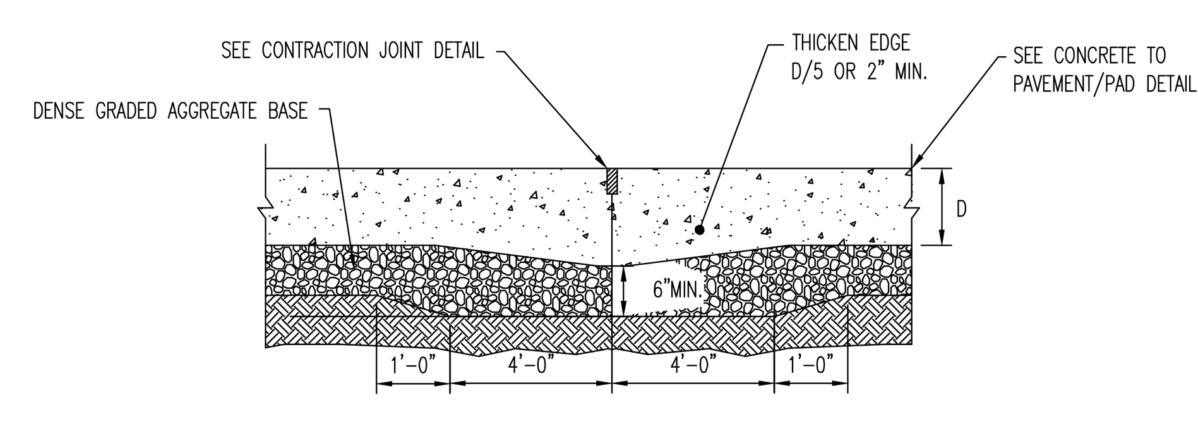
CONTRACTION JOINT



ISOLATION JOINT



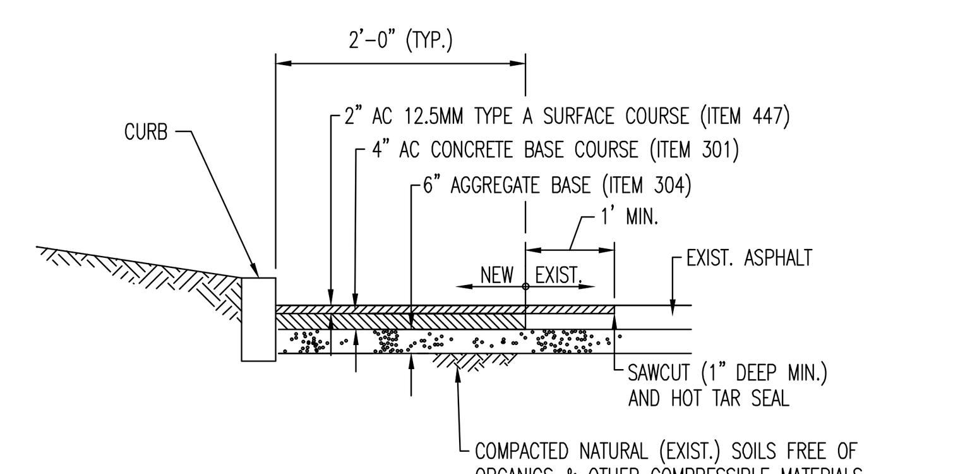
CONCRETE TO ASPHALT TRANSITION



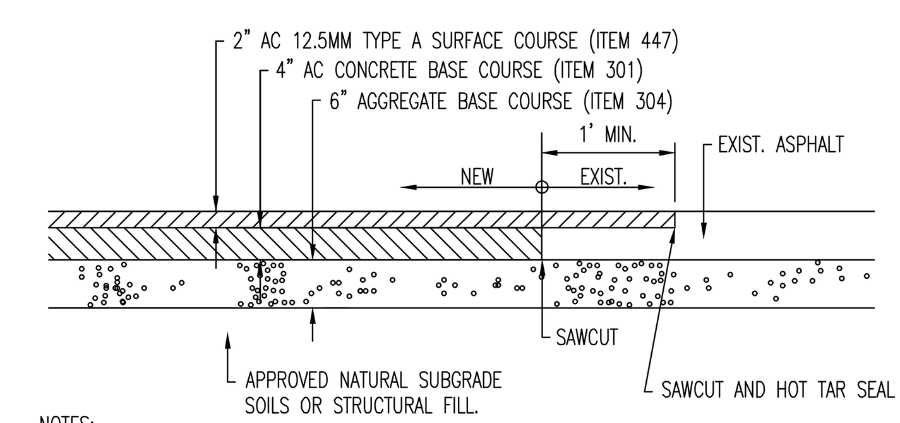
CONSTRUCTION BUTT JOINT

NOTES:
1. FINISH EDGES USING AN EDGING TOOL WITH A 1/4" RADIUS.
2. JOINT SEALER TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. DISTRIBUTED STEEL REINFORCEMENT SHALL BE INTERRUPTED AT JOINTS UNLESS OTHERWISE NOTED.
4. ISOLATION JOINTS TO BE PROVIDED AT STRUCTURES SUCH AS ISLANDS, BUILDINGS, CANOPY, COLUMNS, ETC.
5. ALL FORMWORK, AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND REGULATIONS, AS WELL AS THE ACI AND UNIFORM BUILDING CODE.
6. PROVIDE CONTRACTION JOINT SPACING NO GREATER THAN 15', ISOLATION JOINTS AT STRUCTURES AND CONSTRUCTION JOINTS WHEN WORK IS INTERRUPTED ALL AT REGULAR JOINT INTERVALS. JOINT PATTERNS SHOULD DIVIDE CONCRETE INTO APPROXIMATE SQUARE PANELS WITH LENGTHS NOT MORE THAN 125% OF WIDTH AND AVOID ACUTE ANGLES.

CONCRETE PAVEMENT/PAD JOINT DETAILS
NOT TO SCALE

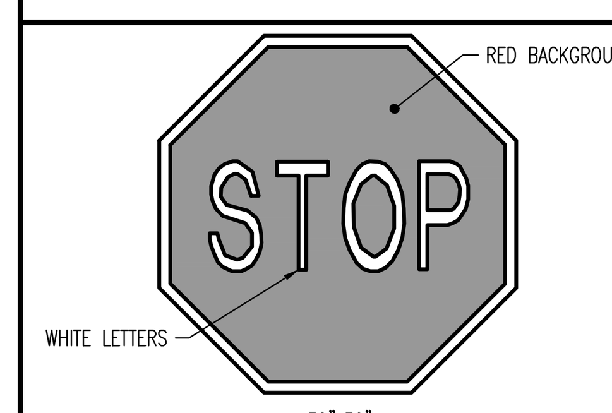


FULL DEPTH PAVEMENT REPAIR DETAIL
NOT TO SCALE

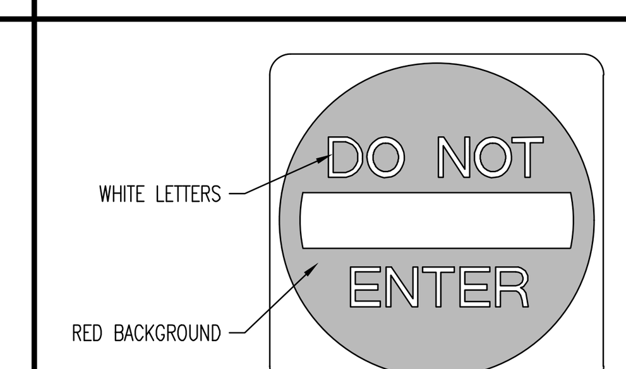


NOTES:
1. ALL PAVEMENT SECTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS 2023.
2. OWNER SHALL CONTACT AND ENGAGE DYNAMIC EARTH, LLC. TO INSPECT AND TEST SUBGRADE SOILS. CONTRACTOR SHALL CONTACT DYNAMIC EARTH, LLC. AT (908) 879-7095 (WWW.DYNAMIC-EARTH.COM) AT ONSET OF CONSTRUCTION TO CONFIRM REQUIREMENTS AND COORDINATE INSPECTIONS.
3. SUBGRADE SOILS SHALL BE APPROVED BY DYNAMIC EARTH, LLC. APPROVED NATURAL SOILS SHALL BE COMPACTED AND PROOFROLLED WITH A LOADED TANDEM AXLE TRUCK TO A FIRM AND UNYIELDING CONDITION. UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL OR STABILIZED AS DIRECTED BY DYNAMIC EARTH, LLC. ANY STRUCTURAL FILL AT OR BELOW PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM-D1557.
4. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR FINAL PAVEMENT SECTION DESCRIPTION.

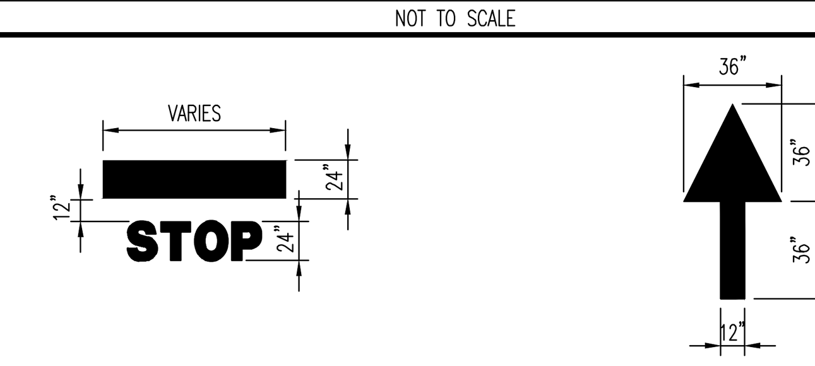
STANDARD DUTY ASPHALT PAVEMENT DETAIL
NOT TO SCALE



R1-1 SIGN DETAIL
NOT TO SCALE

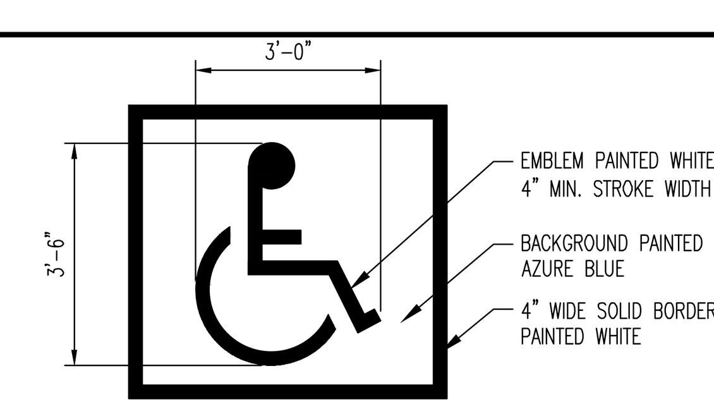


R5-1 SIGN DETAIL
NOT TO SCALE



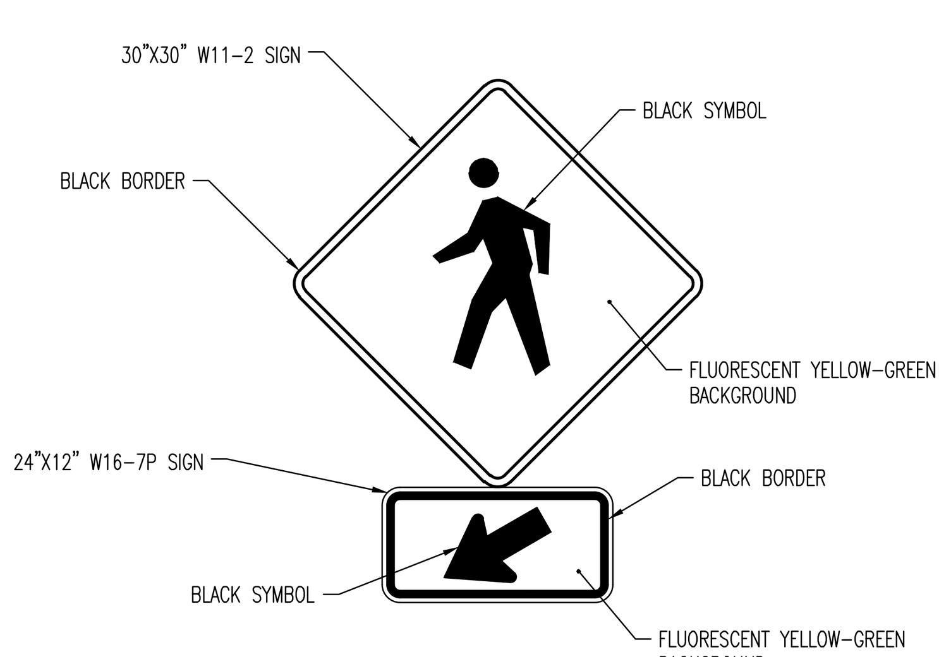
NOTE: ARROWS AND WORDS CAN BE ARRANGED IN OTHER COMBINATIONS THAN THOSE ILLUSTRATED HERE TO ACHIEVE DESIRED RESULT. ALL PAINT TO BE THERMOPLASTIC.

PAINTED MARKING DETAILS
NOT TO SCALE

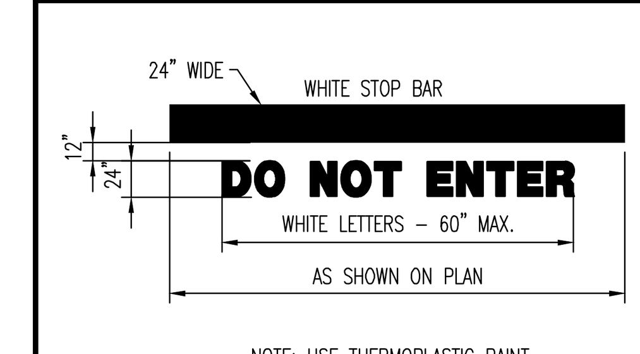


NOTE: ALL PAVEMENT STRIPING, MARKINGS & APPLICABLE SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST A.D.A. ACCESSIBILITY GUIDELINES.

PAINTED A.D.A. PARKING SYMBOL DETAIL
NOT TO SCALE



PEDESTRIAN CROSSING (W11-2) SIGN DETAIL
NOT TO SCALE



NOTE: USE THERMOPLASTIC PAINT

DO NOT ENTER STRIPING DETAIL
NOT TO SCALE

DYNAMIC
ENGINEERING • SURVEY • TRAFFIC

REV.	DATE	COMMENTS	BY

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY:	DESIGNED BY:	CHECKED BY:	CHECKED BY:
CED	SDP/JCM	RJC	-

PROJECT: CARROLS, LLC
PROPOSED RESTAURANT REMODEL
PARCEL ID: 28-A-044-B-00-028-0 & 28-A-044-B-00-029-0
37305 VINE STREET
CITY OF WILLOWICK, LAKE COUNTY, OHIO 44095

811 Know what's below. Call before you dig.
PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

DYNAMIC ENGINEERING
LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING
245 Main Street
Suite 110
Chester, NJ 07930
T: 908.879.9229 | F: 908.879.0222
Offices conveniently located throughout the United States
www.dynamicec.com

ROBERT J. COLUCCO III
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 55851

JOSEPH C. SPARONE

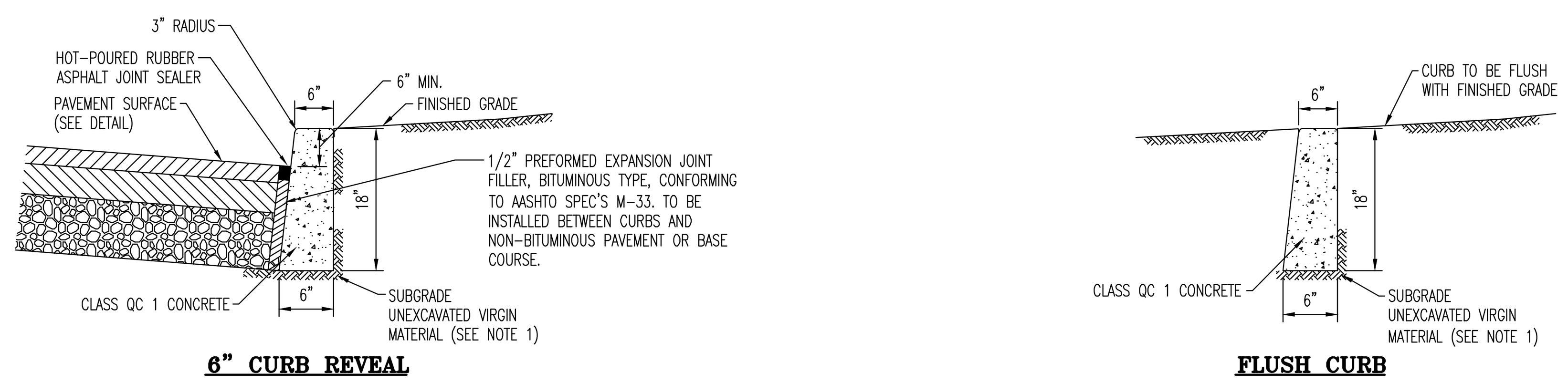
TITLE: CONSTRUCTION DETAILS

SCALE: (H) AS (V) SHOWN	DATE: 05/04/2026
PROJECT No: 2766-26-00539	

SHEET No: C-4 OF 6 | Rev. #: 0

Plotted: 05/05/26 - 9:49 AM, By: jmeditz - Product Ver: 25.1
File: P:\DECPC PROJECTS\2766 Carrols Restaurant Group\26-00539 Willowick OH\Dwg\Site Plans\D2766260539SD0.dwg. ---> C-4 CONSTRUCTION DETAILS

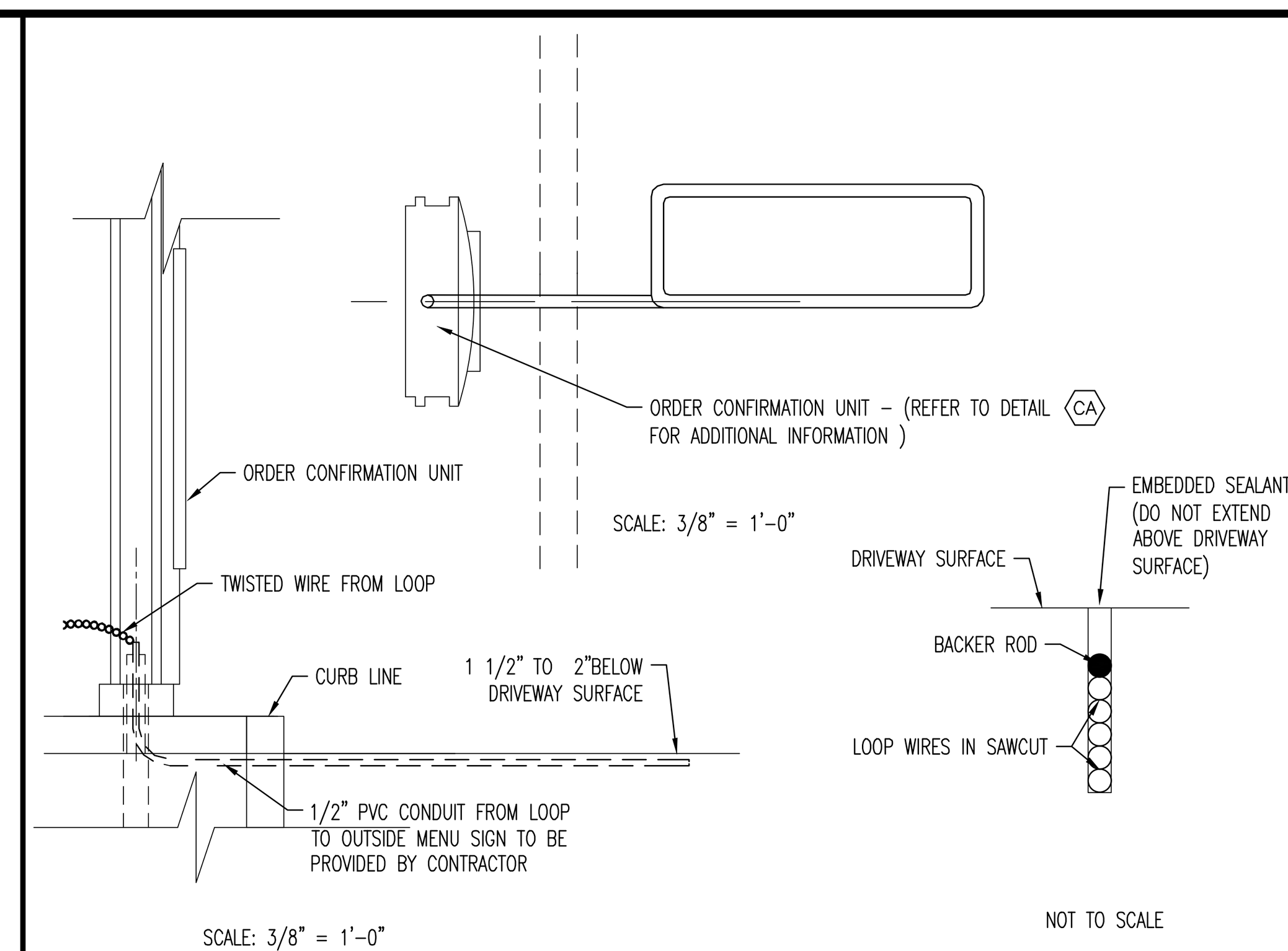
MUNICIPAL, COUNTY, STATE AND MUA DETAILS TO SUPERSEDE DYNAMIC ENGINEERING DETAILS WHERE APPLICABLE



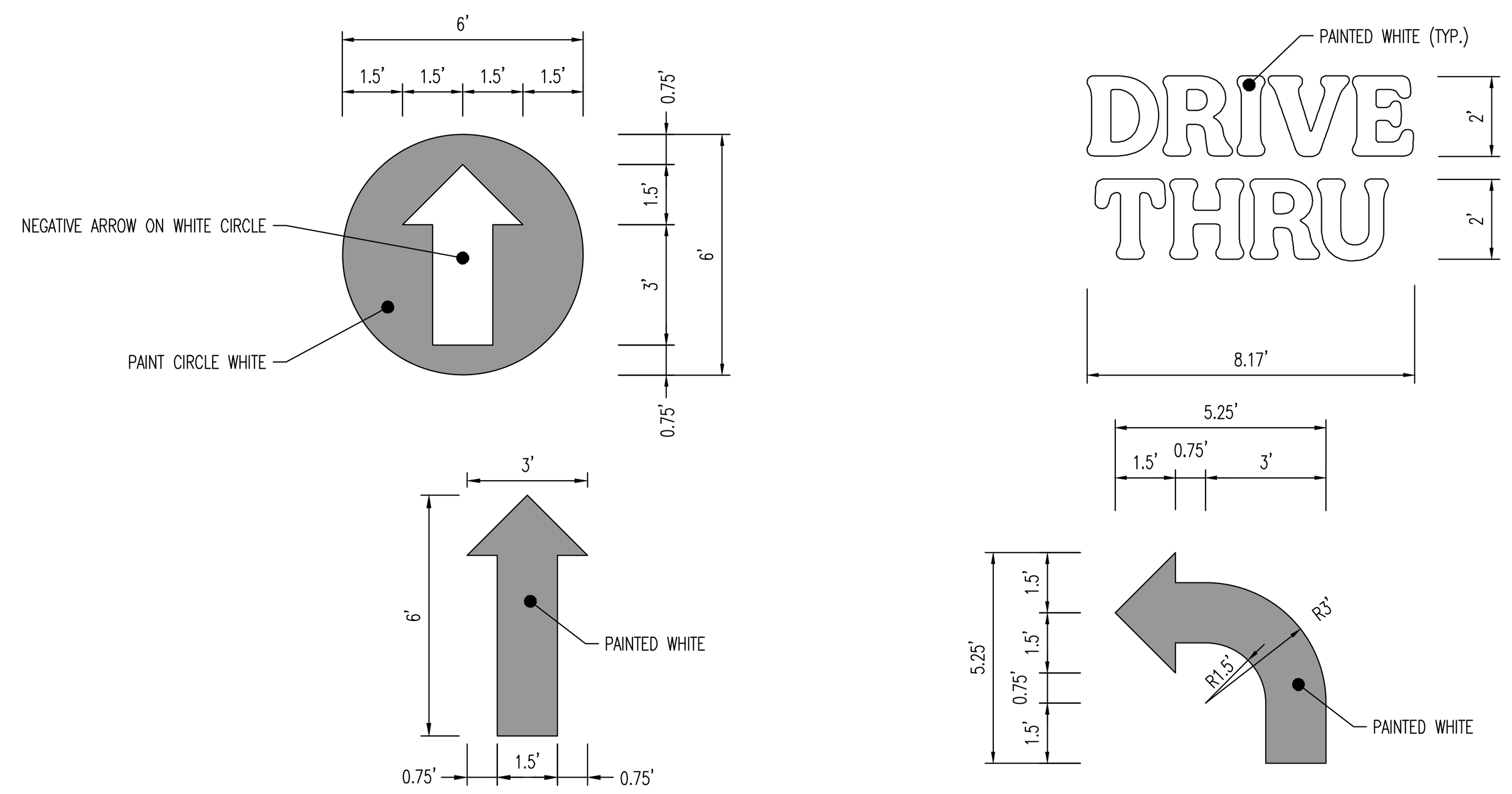
NOTES:

1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL BE APPROVED BY THE MUNICIPAL ENGINEER PRIOR TO POURING.
2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20'-0" APART AND SHALL BE FILLED WITH PREFORMED, BITUMINOUS-IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF AASHTO M-213, RECESSED 1/4" FROM THE FRONT FACE AND TOP OF THE CURB.
3. DUMMY JOINTS (FORMED) SHALL BE INSTALLED MIDWAY BETWEEN EXPANSION JOINTS.
4. WIDTH OF JOINT FILLER STRIP EQUAL TO THE THICKNESS OF THE PAVEMENT LESS 1/2".

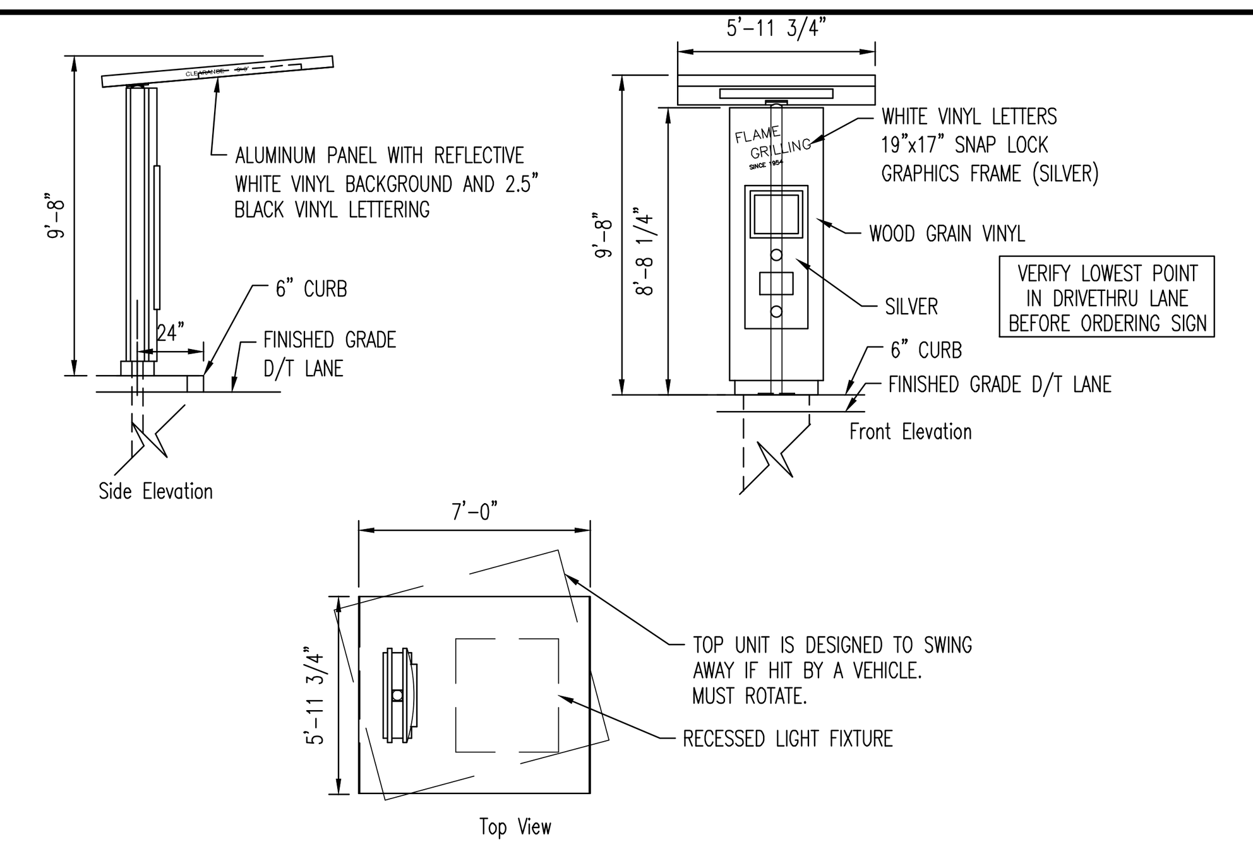
CONCRETE CURB DETAIL
NOT TO SCALE



DETECTOR LOOP DETAIL
NOT TO SCALE



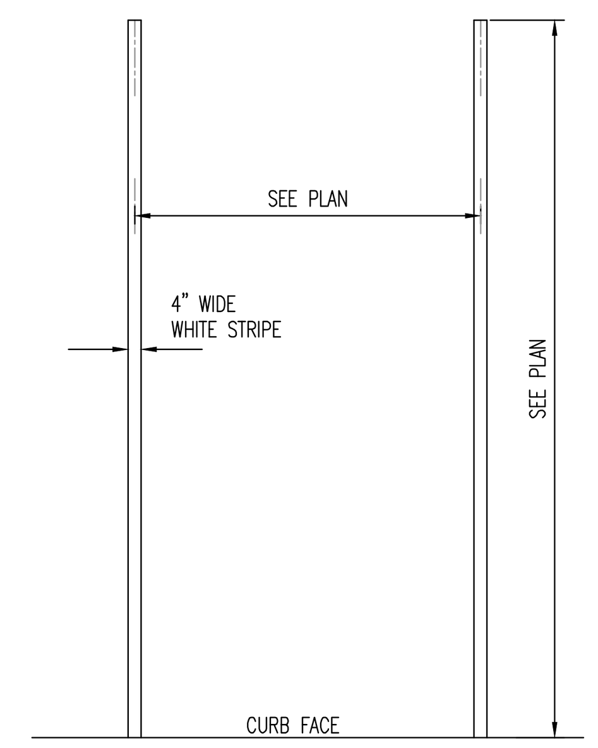
BURGER KING STRIPING DETAILS
NOT TO SCALE



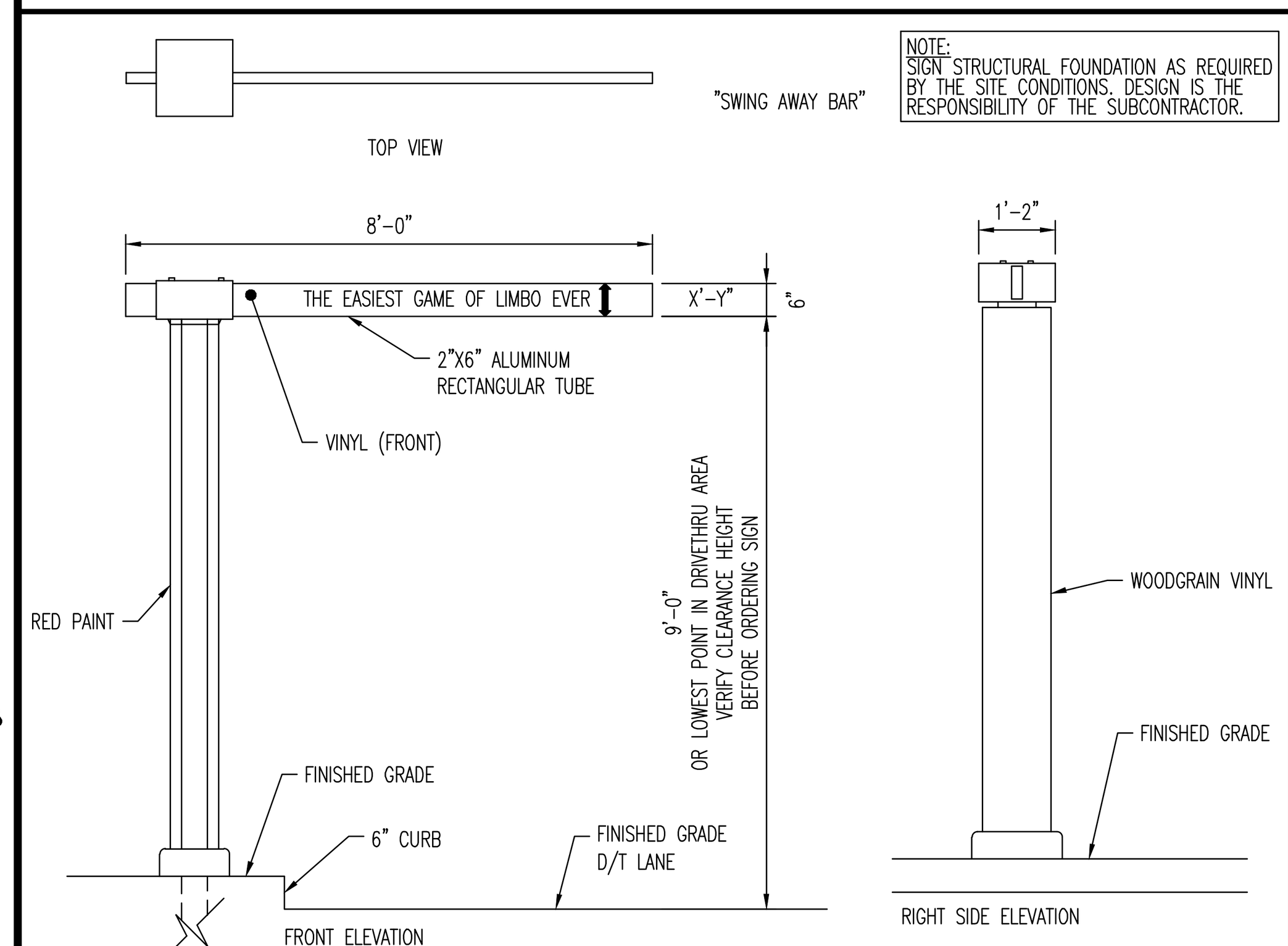
1. 120 VOLT 20 AMP ELECTRICAL SUPPLY TO SIGN
2. DATA CABLE REQUIRED

NOTE:
SIGN STRUCTURAL FOUNDATION AS REQUIRED BY SITE CONDITIONS. DESIGN IS THE RESPONSIBILITY OF THE SUBCONTRACTOR.

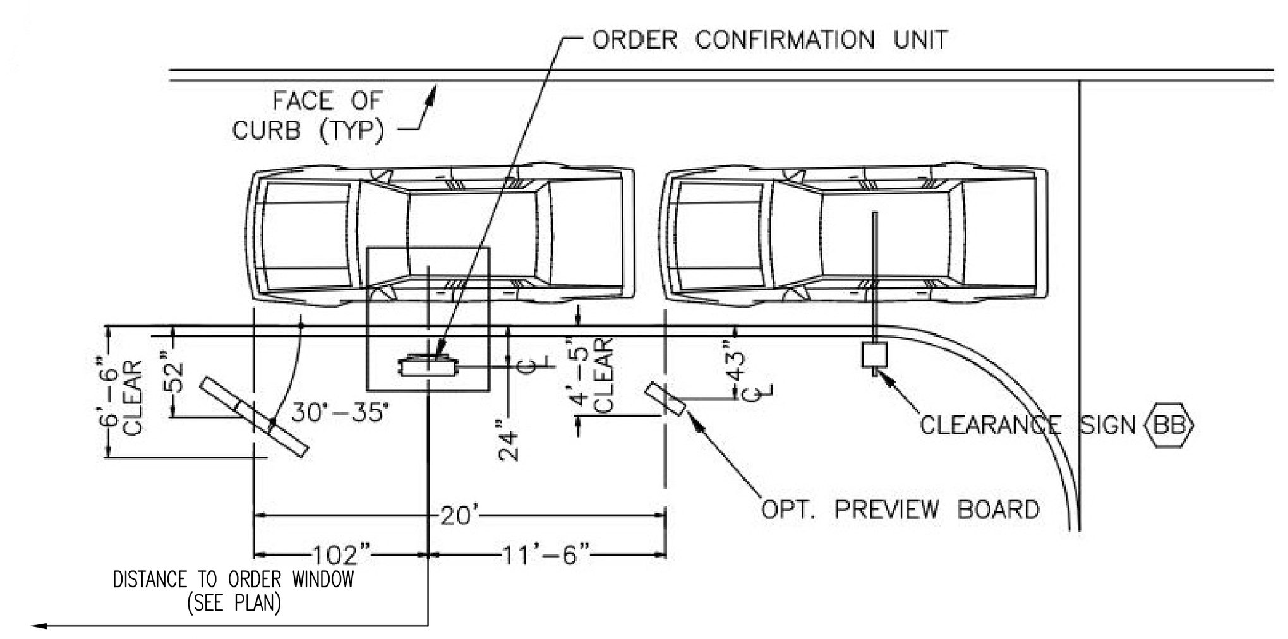
ORDER CONFIRMATION UNIT
NOT TO SCALE



PARKING STALL STRIPING DETAIL
NOT TO SCALE



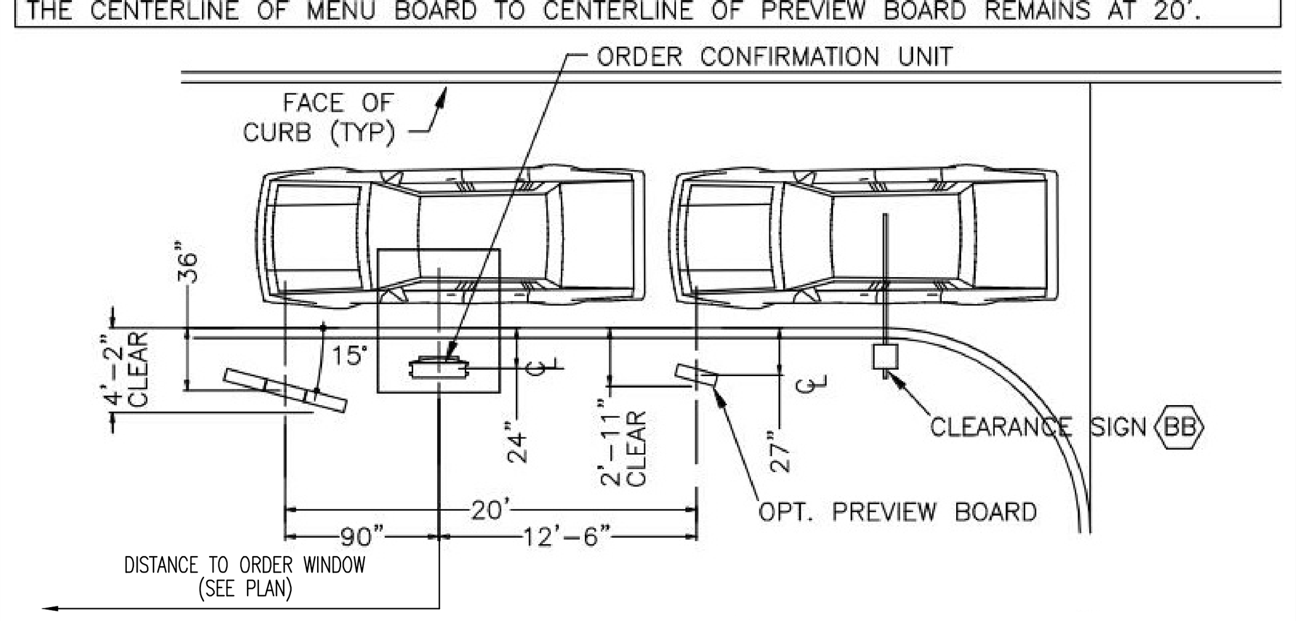
DRIVE-THRU CLEARANCE SIGN DETAIL
NOT TO SCALE



Preferred Layout
SCALE: 1" = 10'

NOTE: THE PREFERRED LAYOUT SHOULD BE USED WHENEVER SPACE ALLOWS. 30° ROTATION ANGLE SHOULD BE CONSIDERED OPTIMAL. ANGLES BETWEEN THE PREFERRED LAYOUT AND MINIMUM LAYOUT ARE ACCEPTABLE AS LONG AS:
(1) THE DISTANCES FROM THE CENTERLINES OF THE SUPPORT POLES OF THE MENU BOARD AND PREVIEW BOARD TO THE FACE OF CURB ARE REDUCED BY 4" FOR EVERY 5 DEGREES OF ROTATION, AND:
(2) THE DISTANCE FROM THE CENTERLINE OF THE ORDER CONFIRMATION UNIT AND THE CENTERLINE OF THE MENU BOARD IS REDUCED BY 3" FOR EVERY 5 DEGREES OF ROTATION.

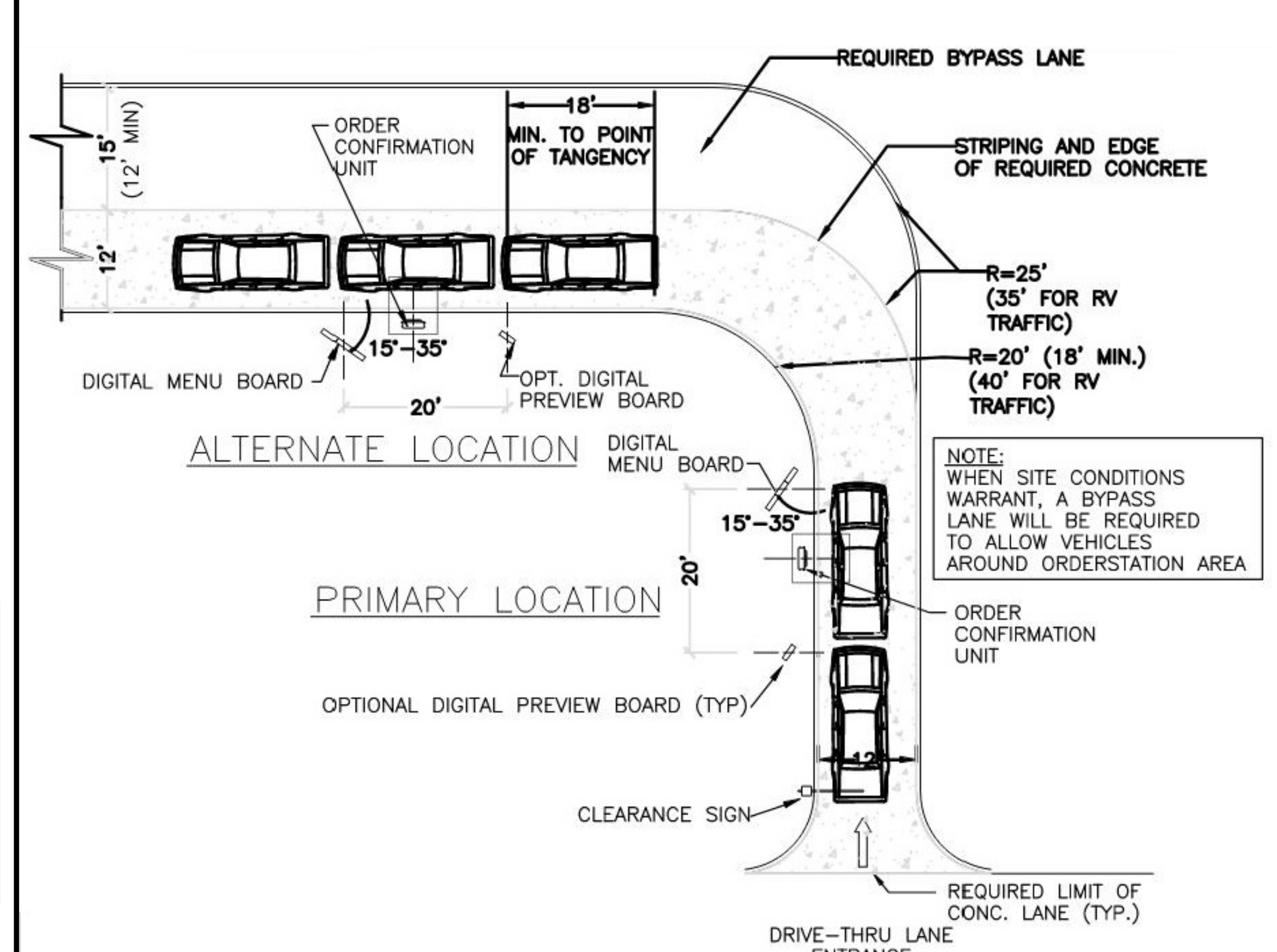
THE CENTERLINE OF MENU BOARD TO CENTERLINE OF PREVIEW BOARD REMAINS AT 20'.



Minimum Layout
SCALE: 1" = 10'

NOTE:
THIS ORDER STATION LAYOUT IS BASED ON THE BURGER KING CORPORATE PROTOTYPICAL DRIVE-THRU ORDER STATION STANDARD DETAIL. CONTRACTOR TO REFER TO SITE PLANS FOR FINAL LAYOUT AND EQUIPMENT SEPARATION DIMENSIONING.

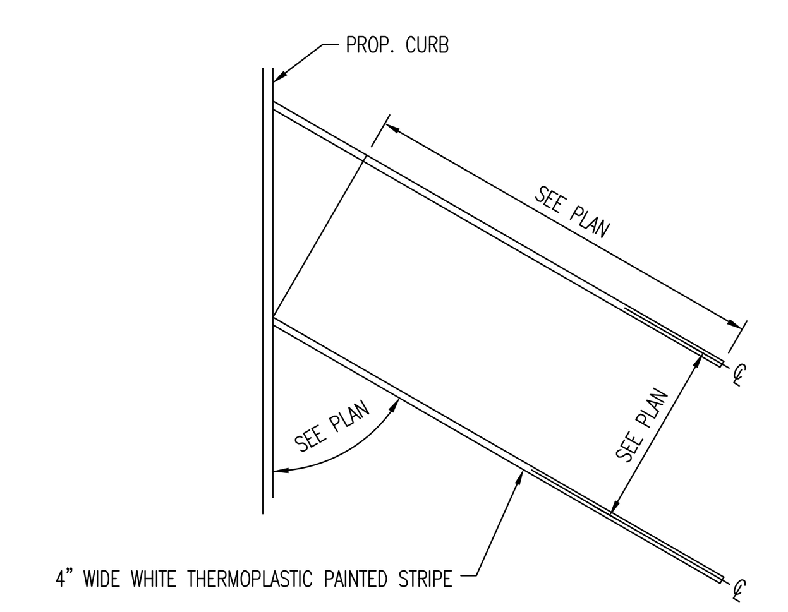
DRIVE-THRU ORDER STATION DETAIL
NOT TO SCALE



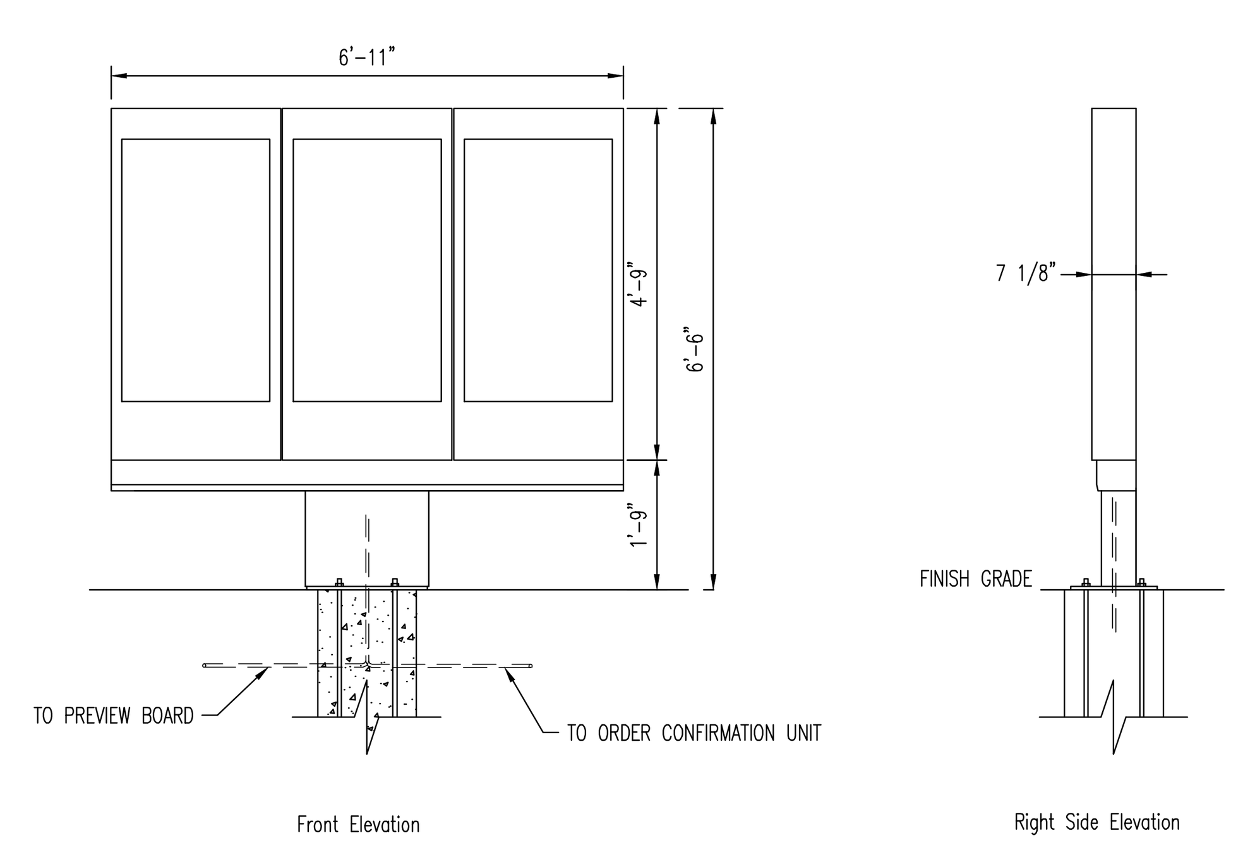
NOTES:

1. THIS SINGLE DRIVETHRU LANE WILL BE APPROVED AS AN EXCEPTION ONLY. THE DOUBLE WING DRIVETHRU IS REQUIRED. REFER TO REFER TO DETAIL Ii OF IX AND SITE DETAIL CA.
2. DRAWING REFLECTS DIGITAL MENU BOARD IN PREFERRED LOCATIONS. FOR ADDITIONAL INFORMATION, REFER TO DETAIL I OF IX AND SITE DETAIL CA.
3. ORDER CONFIRMATION UNITS SHOULD BE 100' (MIN.) FROM FOOD DELIVERY WINDOW.
4. IN NO CASE SHOULD THE ORDER STATIONS BE PLACED ON THE CURVE.
5. DRIVE-THROUGH WIDTH IS MEASURED FROM FACE OF CURB.
6. CONCRETE DRIVETHRU LANE IS REQUIRED FOR THE ENTIRE LENGTH OF THE LANE – FROM THE VERY BEGINNING OF THE LANE AS SHOWN ABOVE, TO 9' PAST THE CENTERLINE OF THE DRIVETHRU PICKUP WINDOW.
7. CONCRETE DRIVETHRU LANE IS TO BE 3,000 PSI CONC., 6" THICK, WITH 6X6-W2.9XW2.9 W.W.M. WITH PREMOLDED BITUMINOUS NON-EXTRUDING EXPANSION JOINTS AT 10' O.C. IT IS REQUIRED TO COLOR THE CONCRETE BLACK USING ADMIXTURE (CHROMIX C-24 CHARCOAL BY SCOFIELD CO., OR EQUAL)
8. THE USE OF CONCRETE PADS IN LIEU OF FULL CONCRETE D/T LANE IS NOT ALLOWED.
9. THIS DRIVE-THRU LAYOUT IS BASED ON THE BURGER KING CORPORATE PROTOTYPICAL SINGLE LANE DRIVE-THRU STANDARD DETAIL. CONTRACTOR TO REFER TO SITE PLANS FOR FINAL LAYOUT AND EQUIPMENT SEPARATION DIMENSIONING.

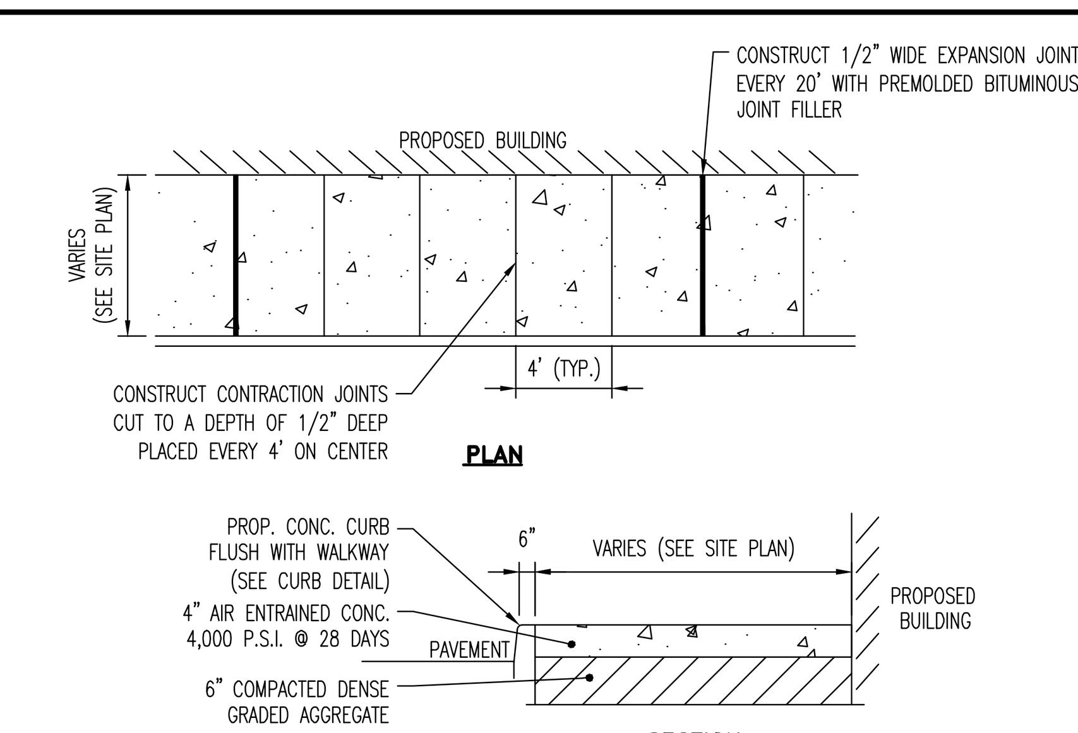
SINGLE LANE ORDER STATION DETAIL
NOT TO SCALE



ANGLED PARKING STRIPING DETAIL
NOT TO SCALE



MENU BOARD ELEVATIONS
NOT TO SCALE



NOTE:
1. MAX. CROSS SLOPE 1/4" PER FOOT PITCHED AWAY FROM BUILDING.
2. PROVIDE 1/2" WIDE PREMOLDED BITUMINOUS EXPANSION JOINT AT 20' INTERVALS.
3. REFER TO SITE PLAN FOR SIDEWALK WIDTH.
4. PROVIDE A BROOM FINISH TO PROVIDE A SLIP RESISTANT WEARING SURFACE IN ACCORDANCE WITH A.D.A. REGULATIONS. FINISH THE EDGES OF THE GROOVES USING AN EDGING TOOL WITH A 1/4" RADIUS.

CURB AND WALK DETAIL AT BUILDING
NOT TO SCALE

DYNAMIC ENGINEERING • CONSULTING • SURVEY • TRAFFIC

REV.	DATE	COMMENTS	BY

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: CED | DESIGNED BY: SDP/JCM | CHECKED BY: RJC | CHECKED BY: –

PROJECT: CARROLS, LLC
PROPOSED RESTAURANT REMODEL
PARCEL ID: 28-A-044-B-00-028-0 & 28-A-044-B-00-029-0
31305 VINE STREET
CITY OF WILLOWICK, LAKE COUNTY, OHIO 44095

811 Know what's below. Call before you dig.
PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

DYNAMIC ENGINEERING
LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING
245 Main Street
Suite 110
Chester, NJ 07930
T: 908.879.9229 | F: 908.879.0222
Offices conveniently located throughout the United States:
New Jersey | Delaware | Florida | Maryland | Pennsylvania | Texas
www.dynamicec.com

ROBERT J. COLUCCO III
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 55851

JOSEPH C. SPARONE
PROFESSIONAL ENGINEER

TITLE:
CONSTRUCTION DETAILS

SCALE: (H) AS (V) SHOWN | DATE: 05/04/2026
PROJECT No: 2766-26-00539

SHEET No: C-5 OF 6 | Rev. #: 0

Plotted: 05/05/26 – 9:49 AM, By: jmeditz, – Product Ver: 25.1
File: P:\DECPC PROJECTS\2766 Carrols Restaurant Group\26-00539 Willowick OH\Dwg\Site Plans\D276626 00539SD0.dwg, ---> C-5 CONSTRUCTION DETAILS

EXISTING AREA LIGHT DETAIL
NOT TO SCALE

Catalog # : _____ Project : _____

Prepared By : _____ Date : _____

Mirada Small Area (MRS)
Outdoor LED Area Light

IP66 IK08

OVERVIEW	
Lumen Package	6,000 - 30,000
Wattage Range	39 - 209
Efficacy Range (LPW)	112 - 163
Weight lbs(kg)	20 (9.1)
Control Options	IMSBT, ALB, ALS, 7-Pin, PCI

QUICK LINKS
Ordering Guide | Performance | Photometrics | Dimensions

FEATURES & SPECIFICATIONS

Construction
- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 27 lbs in carton.

Optical System
- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 4, SW, FT, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

Electrical
- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L70 Calculated Life: >60k Hours
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 30L lumen packages rated to +40°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.

Controls
- Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via iOS or Android configuration app.
- LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7.

Installation
- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional B3 drill pattern.

Warranty
- LSI luminaires carry a 5-year limited warranty. Refer to https://www.lsicorp.com/resources/terms-conditions-warranty/ for more information.

Listings
- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet locations.
- IP66 rated Luminaire per IEC 60598-1.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- IK08 rated luminaire per IEC 66262 mechanical impact code
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

LED FIXTURE DETAIL
NOT TO SCALE

MUNICIPAL, COUNTY, STATE AND MUA DETAILS TO SUPERSEDE DYNAMIC ENGINEERING DETAILS WHERE APPLICABLE

Mirada Small Area Light (MRS)

Type: _____

Have questions? Call us at (800) 456-7800

ORDERING GUIDE
Back to Quick Links

TYPICAL ORDER EXAMPLE: MRS LED 18L SIL FT UNV DIM 40 70CRI ALBCS1 BLK IH

Prefix	Light Source	Lumen Package	Lens	Distribution	Orientation[2]	Voltage	Driver
MRS - Mirada Small Area Light	**LED**	**6L** - 6,000 lms, 39W **9L** - 9,000 lms, 65W **12L** - 12,000 lms, 86W **15L** - 15,000 lms, 111W **18L** - 18,000 lms, 135W **21L** - 21,000 lms, 165W **24L** - 24,000 lms, 196W **30L** - 30,000 lms, 209W[1] Custom Lumen Packages[1]	**SIL** - Silicone	**2** - Type 2 **3** - Type 3 **4** - Type 4 **SW** - Type 5 Wide **FT** - Forward Throw **LC** - Left Corner **RC** - Right Corner	**(blank)** - standard **L** - Optics rotated left 90° **R** - Optics rotated right 90°	**UNV** - Universal Voltage (120-277V) **HV** - High Voltage (347-480V)	**DIM** - 0-10V Dimming (0-10%)

Color Temp	Color Rendering	Controls (Choose One)	Finish	Options
50 - 5,000 CCT **40** - 4,000 CCT **30** - 3,000 CCT	**70CRI** - 70 CRI	**(Blank)** - None **Wireless Controls System** **ALSC** - AirLink Synapse Control System **ALSC2** - AirLink Synapse Control System with 12-20' Mtl Motion Sensor **ALSC4** - AirLink Synapse Control System with 20-40' Mtl Motion Sensor **ALBCS1** - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' Mtl)[4] **ALBCS2** - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' Mtl)[4] **Stand-Alone Controls** **EXT** - 0-10V dimming leads extended to housing exterior **C07P** - 7 Pin Control Receptacle ANSI C136.41[3] **IMSBT1** - Integral Bluetooth™ Motion and Photocell Sensor (8-24' Mtl)[4] **IMSBT2** - Integral Bluetooth™ Motion and Photocell Sensor (25-40' Mtl)[4]	**BLK** - Black **BRZ** - Dark Bronze **GMG** - Gun Metal Gray **GPT** - Graphite **MSV** - Metallic Silver **PLP** - Platinum Plus **SVG** - Satin Verde Green **WHT** - White	**(Blank)** - None **IH** - Integral Half Louver (Moderate Spill Light Cutoff)[2] **IL** - Integral Louver (Sharp Spill Light Cutoff)[2]

Need more information? Click here for our glossary

Have additional questions? Call us at (800) 456-7800

Accessory Ordering Information[5]

CONTROLS ACCESSORIES	
Description	**Order Number**
Twist Lock Photocell (120V) for use with C07P	**122514**
Twist Lock Photocell (208-277) for use with C07P	**122515**
Twist Lock Photocell (347V) for use with C07P	**122516**
Twist Lock Photocell (480V) for use with C07P	**1225180**
AirLink 5 Pin Twist Lock Controller	**661409**
AirLink 7 Pin Twist Lock Controller	**661410**
Shorting Cap for use with C07P	**149328**

FUSING OPTIONS[7]	
Description	**Order Number**
Single Fusing (120V)	See Fusing Accessory Guide
Single Fusing (277V)	
Double Fusing (208V, 240V)	
Double Fusing (480V)	
Double Fusing (347V)	

SHIELDING OPTIONS	
Description	**Order Number**
Mirada Small	See Shielding Guide
Mirada Medium	
Mirada Large	
Zone Medium	
Zone Large	
Slice Medium	

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available on "Type SW" distribution.
3. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
4. Motion sensors are field configurable via the LSI app that can be downloaded from your smartphone's native app store.
5. Accessories are shipped separately and field installed.
6. "CLR" denotes finish. See Finish options.
7. Fusing must be located in hand hole of pole. See Fusing Accessory Guide for compatability.
8. ALSC, ALB, and IMSBT not available with 30LHV.

DYNAMIC ENGINEERING CONSULTANTS, PC (DYNAMIC ENGINEERING)

BY	DATE	COMMENTS	REV.

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: JCM | DESIGNED BY: SDP/JCM | CHECKED BY: RJC | CHECKED BY: _____

PROJECT: CARROLS, LLC
PROPOSED RESTAURANT REMODEL
PARCEL ID: 28-A-044-B-00-028-0 & 28-A-044-B-00-029-0
31305 VINE STREET
CITY OF WILLOWICK, LAKE COUNTY, OHIO 44095

811 Know what's below. Call before you dig.
PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

DYNAMIC ENGINEERING
LAND DEVELOPMENT CONSULTING • PERMITTING
GEOTECHNICAL • ENVIRONMENTAL
TRAFFIC • SURVEY • PLANNING & ZONING
245 Main Street
Suite 110
Chester, NJ 07930
T: 908.879.9229 | F: 908.879.0222
Offices conveniently located throughout the United States:
New Jersey | Delaware | Florida | Maryland | Pennsylvania | Texas
www.dynamicec.com

ROBERT J. COLUCCO III
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 55851

JOSEPH D. SPARONE
STATE OF OHIO
JOSEPH D. SPARONE
E-39965
PROFESSIONAL ENGINEER

TITLE: CONSTRUCTION DETAILS

SCALE: (H) AS (V) SHOWN | DATE: 05/04/2026

PROJECT No: 2766-26-00539

SHEET No: C-6 OF 6 | Rev. #: 0