

REVISIONS

NO.	DATE	BY	DESCRIPTION

CONSULTANT



**TLM ASSOCIATES, INC.**  
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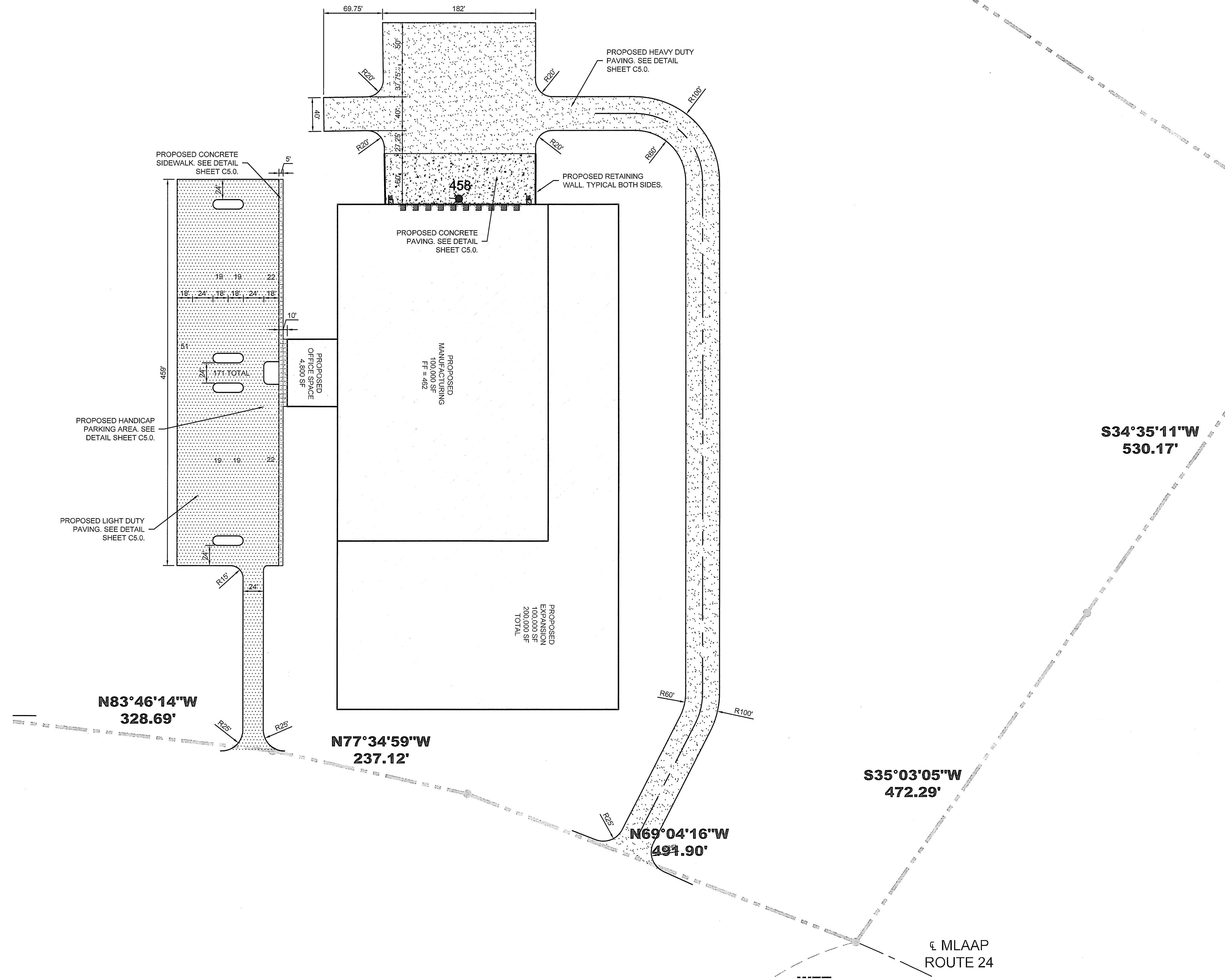
Proposed Layout - Building B  
MILAN COMMERCIAL COMPLEX  
GRABALL SITE  
DYNAMIC BUILDING PLAN  
for  
AMERICAN ORDINANCE, LLC  
Milan, Tennessee

JULY 22, 2016

J-5738

**C2.1**

**GRABALL SITE**  
**107.05 AC**



TLM Associates, Inc. General Construction Notes

- All existing utilities shown, both above and below ground, are approximately located and are not necessarily all that exist. The contractor shall field verify utilities prior to construction. Per Tennessee State Law, the contractor shall notify Tennessee One Call (811 or 1-800-351-1111) at least 72 hours prior to digging.
- The contractor shall be responsible for providing all line, grade and stakeout for the construction of the project. The engineer shall provide a bench mark and horizontal control should they not be stipulated on the drawings.
- The contractor shall insure that all documents including Notice of Interest (NOI), Storm Water Pollution Prevention Plan (SWPPP), and permit fees necessary for a NPDES Permit for Storm Water Discharge have been filed with the TN Dept. of Environment and Conservation (TDEC) and a Notice of Coverage (NOC) received prior to the start of construction.
- All contractors shall be aware that there may be other contractors on site working on other portions of the project. Contractors shall coordinate and cooperate with each other to avoid conflict and damage to each others work.
- The contractor shall confirm elevations and proposed locations of improvements prior to construction and report any discrepancies to the Engineer.
- Items of work referred to using the abbreviations "DOT" shall be constructed and tested in accordance with the Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction, dated January 1, 2015 or latest edition, along with applicable "Standard Drawings" and "Special Provisions".
- All face of curb (or pavement edge where no curb exists) radii are 5'-0" u.n.o.
- All parking lot striping to be white. All striping to be painted in accordance with DOT standard specification section 910.
- Concrete curb shall have expansion joints placed as follows: 1) tangent points of curved sections; 2) between curbs and abutting rigid objects; and 3) a maximum spacing of 40 feet. Expansion joint material shall be 1/2" pre-molded fiber. Contraction joints shall be spaced at ten (10) foot intervals and sawed a minimum depth of 1/4 of the thickness of the section.
- Accessible route: On all accessible routes the maximum slope along the route shall be 5%. The maximum cross slope shall be 2%. All sidewalks shall be considered accessible routes and sloped away from buildings.
- For landings, the maximum slope in any direction shall be 2%. A 5' x 5' area on either side of any door and/ or at the top and bottom of steps shall be considered a landing whether or not specifically identified as such
- The maximum slope in any direction for handicap parking spaces and access aisles shall be 2%.
- Prior to placing any fill material or granular base material, the area shall be proof-rolled with a truck loaded to 30 tons. Unsuitable material shall be removed, replaced with suitable material and compacted to a minimum of 95% standard proctor density. The completed sub-grade and the granular base shall be also be proof-rolled prior to covering with additional materials.
- All earthwork fill areas shall be constructed using 8" maximum compacted lifts achieving 95% standard proctor density. For lifts of more than six (6) feet, compaction shall be 100% standard proctor density. The top one foot of all sub-grades which will be under improvements, including paving, shall be compacted to 100% standard proctor density.
- The following shall be applied to storm drainage piping and installation:
  - a. RCP - abbreviation for Reinforced Concrete Pipe, Class III u.n.o., designed in accordance with ASTM C-76. Joining shall be with O-ring gaskets. Install 6" sand or gravel bedding on solid foundation. Backfill to the spring line with clean sand or gravel (with greater than 50% sand or gravel) and then complete backfill with quality select excavated material. Backfill shall be placed in 8" maximum loose lifts and compacted to a minimum of 90% standard proctor density.
  - b. CMP - abbreviation for Corrugated Metal (steel) Pipe, zinc coated (galvanized), 14 gauge, 2-2/3" x 3/8" corrugations and designed in accordance with AASHTO M 36 u.n.o. Joining shall be with steel bands, u.n.o. Install 6" sand or gravel bedding on solid foundation. Backfill to top of pipe with clean sand or gravel (with greater than 50% sand or gravel) then backfill with quality select excavated material. For pipes 48" diameter and greater, 14 gauge, 3" x 1" corrugations may be used. Backfill shall be placed in 8" maximum loose lifts and compacted to a minimum of 90% standard proctor density.
  - c. HDPE - stands for High Density Polyethylene pipe, smooth interior, corrugated exterior and designed in accordance with AASHTO M 294. Joining shall be soil tight bell and spigot. Install 6" sand or gravel bedding on solid foundation. Backfill to top of pipe with clean sand or gravel (with greater than 50% sand or gravel) then backfill with quality select excavated material. Backfill shall be placed in 8" maximum loose lifts and compacted to a minimum of 90% standard proctor density.
  - d. HP STORM - stands for Polypropylene pipe with material meeting the requirements of ASTM F2736, Section 4 for 12" - 30" diameters and ASTM F2881, Section 5 for 36" - 60" diameters. Pipe shall be smooth interior, corrugated exterior with watertight gasket joining in accordance with ASTM D3212. Install 6" sand or gravel bedding on solid foundation. Backfill to top of pipe with clean sand or gravel (with greater than 50% sand or gravel) then backfill with quality select excavated material. Backfill shall be placed in 8" maximum loose lifts and compacted to a minimum of 90% standard proctor density.
  - e. ULTRA FLO - stands for Contech Construction Products, Inc.'s spiral rib profile pipe with a hydraulic n value of 0.013 or less. Pipe shall be 14 gauge Type 2 aluminum steel with 3/4" x 1/4" x 7/8" corrugations. Joining shall be bell and spigot Contech's QUICK STAB joint. Install 6" sand or gravel bedding on solid foundation. Backfill to 6" above top of pipe with clean sand or gravel (with greater than 50% sand or gravel) then backfill with quality select excavated material. Backfill shall be placed in 8" maximum loose lifts and compacted to a minimum of 90% standard proctor density.
- Adjust valve boxes, meter boxes, manhole tops, catch basins and fire hydrants, etc. to match the finish grade.
- Where catch basins are identified on the plans using TDOT specification numbers, pre-manufactured catch basins which meet or exceed the minimum area of steel may be substituted. All such substitutions shall be certified by a Tennessee licensed engineer as meeting or exceeding the specified requirements.
- All disturbed areas on this project outside of other improvements shall be stabilized with hybrid Bermuda sod.

