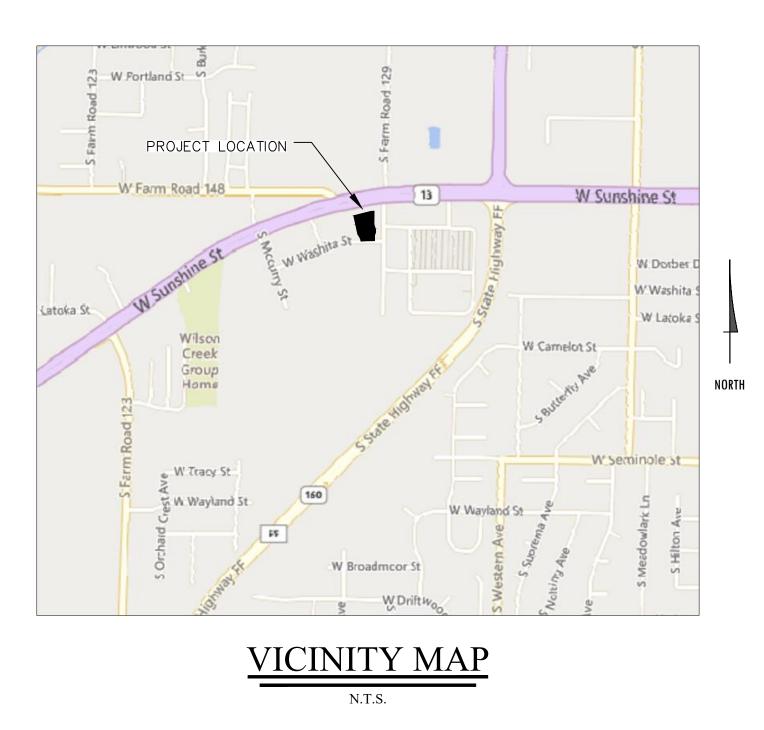
# CIVIL CONSTRUCTION PLANS FOR McDONALD'S NEW PROJECT L/C 024-1290 3720 WEST SUNSHINE STREET SPRINGFIELD, GREENE COUNTY, MISSOURI

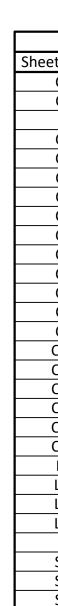


| AREA CONSTRUCTION MANAGER: | McDONALD'S USA, LLC                  |
|----------------------------|--------------------------------------|
|                            | NASHVILLE FIELD OFFICE               |
|                            | 1801 WEST END AVE, SUITE 1000        |
|                            | NASHVILLE, TN 37203                  |
|                            | CONTACT: AMY SWITZER                 |
|                            | PHONE: (913) 660-2205                |
|                            |                                      |
| CIVIL ENGINEER:            | LANGAN                               |
|                            | 8951 CYPRESS WATERS BLVD., SUITE 150 |
|                            | DALLAS, TX 75019                     |
|                            | CONTACT: MARGARET GRISSOM            |
|                            | PHONE: (817) 328-3242                |
|                            |                                      |
| LANDSCAPE ARCHITECT:       |                                      |
|                            | 2700 KELLY ROAD, SUITE 200           |
|                            | WARRINGTON, PA 18976                 |
|                            | CONTACT: MICHAEL SZURA, LA           |
|                            | PHONE: (215) 491-6500                |
| STRUCTURAL ENGINEER:       | LANGAN                               |
|                            | 1818 MARKET STREET, SUITE 3300       |
|                            | PHILADELPHIA, PA 19103               |
|                            | CONTACT: LATISHA GARRETT, PE         |
|                            | PHONE: (267) 838-5350                |
|                            |                                      |
| SURVEYOR:                  | ANDERSON ENGINEERING, INC            |
|                            | 3213 S. WEST BYPASS                  |
|                            | SPRINGFIELD, MO 65087                |
|                            | CONTACT: KENT R. PETERSON, PLS       |
|                            | PHONE: (417) 866-2741                |

### \*\* NOTICE TO CONTRACTOR - BIDDING \*\*

All questions regarding the General Contractor's preparation of his bid shall be directed to the McDonald's Construction Department. Sub-contractors must direct their questions through the General Contractor only. The Consulting Architect and/or Engineer shall not be contacted by the General Contractors, Sub-contractors, or Suppliers without direct prior authorization from McDonald's.





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Sheet **1** 

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| _ DEMOLITION NOTES   | EROSION CONTROL SEQUENCE  | EROSION CONTROL NOTES  |
| <ul> <li><u>DEMOLITION NOTES</u> <ol> <li>REFER TO MCDONALD'S SPECIFICATIONS SECTION 017329.</li> <li>CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND PINS.</li> <li>CONTRACTOR SHALL REMOVE PAVEMENT IN ACCORDANCE WITH SPECIFICATIONS.</li> <li>CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, E NOT LIMITED TO: DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTIC CONDITIONS.</li> </ol> </li> <li>ALL WORK ON THIS PLAN SHALL BE DONE IN STRICT ACCORDANCE WITH SITE WORK SPECIFICATIONS.</li> <li>CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCH HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. CONTRACTOR SHALL US SUPPORT SYSTEMS, SLOPING, BENCHING, CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.</li> <li>CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.</li> <li>CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE PUBLIC DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: CONSTRUCTION FENCING, BARRICADES, SIGNAGE, ETC.</li> <li>CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.</li> <li>CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.</li> </ul> | <ol> <li>INSTALL COMPOST FILTER SOCK AROUND PERIMETER OF PROPERTY AND DISTURBED AREAS AS SHOWN.</li> <li>INSTALL INLET PROTECTION FOR ALL EXISTING GRATE INLETS, CURB INLETS AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES,<br/>IF PRESENT.</li> <li>CONSTRUCT TEMPORARY CONSTRUCTION EXIT, INSTALL PORTA POTTY, SOLID WASTE DUMPSTER, MATERIAL STORAGE AREA, WITH SPILL<br/>CONTROL KIT.</li> <li>COMMENCE GRUBBING AND REMOVAL OF VEGETATION IN AREA TO RECEIVE CUT OR FILL.</li> <li>COMMENCE GRADING OPERATION FOR BUILDING PAD PREPARATION (SEE GRADING PLAN).</li> <li>INSTALL ALL UNDERGROUND UTILITIES.</li> <li>FINALIZE PAVEMENT SUBGRADE PREPARATION.</li> <li>INSTALL ALL PROPOSED STORM SEWER PIPES AND INLET PROTECTION.</li> <li>CONSTRUCT ALL GRATE INLETS AND DRAINAGE STRUCTURES. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS<br/>CONSTRUCTION.</li> <li>REMOVE INLET PROTECTION DEVICES AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE</li> </ol> | <ol> <li>CONTRACTOR MUST COMPLETE A CONSTRUCTION GENERAL PERMIT (SON CONTRACTOR (IF APPLICABLE TO THIS SITTE SMALL CONSTRUCTION ACTIVITY RELATED TO EAR THE SCGP) MUST BE FAMILIAR WITH THE OFTHE REQUIREMENTS SET FORTH IN THE SCONCH REQUIREMENTS DURING ALL CONSTRUCTION FROM THIS SEQUENCE DEEMED PREVENTION PLAN BE MODIFIED IN ACCOR PREVENTION PLAN.</li> <li>THE CONTRACTOR SHALL MODIFY THIS PLAMAINTENANCE/REPAIR AREAS, STOCKPILE FOR EACH, AS SOON AS POSSIBLE. THE TRUCKS THAT ARE ASSOCIATED WITH OFFIC DESIGNATED DIKED AREAS WHICH HAVE BE AND STORMWATER WHICH WILL BE DISCHARMANTER WHICH WILL BE DISCHARMANTER</li></ol>                      |
| <u>UTILITY NOTES</u><br>1. REFER TO MCDONALD'S SPECIFICATIONS SECTIONS 220523, 221116, 221316, 221319, 221413, 221423, 231123, 330513, 331116, AM  | LANDSCAPING PLAN. THROUGHOUT THE PROJECT AND THE MAINTENANCE PERIOD FOR TURFGRASS, IT IS THE CONTRACTOR'S<br>RESPONSIBILITY TO MAINTAIN THE TOPSOIL IN PLACE AT SPECIFIED GRADES. TOPSOIL AND TURFGRASS LOSSES DUE TO EROSION WILL<br>BE REPLACED BY THE CONTRACTOR UNTIL ESTABLISHMENT AND ACCEPTANCE IS ACHIEVED.<br>14. REMOVE TEMPORARY CONSTRUCTION EXIT AND COMPOST FILTER SOCK.<br>D <u>SWPPP NOTES</u>  | CONCRETE WASHOUT DETAIL SHOWN IN PL<br>THE STATE, INCLUDING DISCHARGE TO STO<br>AT CONSTRCUTION SITE, CONTRACTOR SHA<br>4. THE GENERAL CONTRACTOR SHALL PERFOR<br>FREQUENCIES GIVEN IN THE SCGP, AND SI<br>WATER POLLUTION PREVENTION PLAN).   |
| <ul> <li>333100.</li> <li>2. ALL ELECTRICAL/CONDUIT RUNS ARE SCHEMATIC ONLY. LOT LIGHTS ARE TO BE WIRED TO 2 (TWO) OR MORE CIRCUITS IN AN ALTERNATING SEQUENCE.</li> <li>3. PRIVATE UTILITY CONNECTIONS SHOWN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR BID.</li> <li>4. ADJUST TO FINISHED GRADE ANY ACCESS POINTS FOR EXISTING UTILITIES REMAINING.</li> <li>5. IT SHALL BE THE SIGN INSTALLER'S RESPONSIBILITY TO ENSURE THE PROPOSED SIGN LOCATION DOES NOT INTERFERE WITH ANY UTILITIES AND COMPLIES WITH ALL APPLICABLE CITY CODES. SIGN INSTALLER SHALL ALSO OBTAIN APPROVAL FROM THE APPROPRIATE ENTITIES PRIOR TO INSTALLING THE SIGN OVER ANY EXISTING EASEMENTS.</li> </ul>  | 1. THE MDEQ SMALL CONSTRUCTION GENERAL PERMIT (SCGP) REQUIRES THAT THE PERMITTEE REVISE OR UPDATE THIS SWPPP<br>WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, OR WHENEVER THE RESULT OF AN<br>INSPECTION INDICATES THAT THIS SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS IN STORM WATER<br>DISCHARGES. HOWEVER, THE REGULATIONS OF THE MISSOURI BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND<br>SURVEYORS REQUIRE THAT CHANGES MADE BY THE CONTRACTOR DURING CONSTRUCTION MUST BE AUTHORIZED BY A LICENSED<br>MISSOURI ENGINEER. THESE CHANGES MAY BE AUTHORIZED BY THE ENGINEER OF RECORD THROUGH UPDATED DRAWINGS, WORK<br>ORDER CHANGES, OR OTHER METHODS ACCEPTABLE TO THE ENGINEER; OR BY ANOTHER ENGINEER PROVIDED THAT THEY NOTIFY THE<br>ENGINEER OF RECORD.   | <ol> <li>OIL AND GREASE ABSORBING MATERIALS S<br/>AND/OR CLEAN UP ALL FUEL OR CHEMICA</li> <li>DUST CONTROL SHALL BE ACCOMPLISHED<br/>BASED OR TOXIC LIQUIDS FOR THIS PURPO</li> <li>DISTURBED AREAS OF THE SITE WHERE CO<br/>TEMPORARILY STABILIZED WITH VEGETATION</li> <li>DISTURBED AREAS OF THE SITE WHERE CO<br/>WITHIN FOURTEEN DAYS PER SEEDING OR</li> <li>ALL VEHICLES SHALL BE CLEANED AT THE</li> </ol>  |
| <ul> <li>6. REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES, AND CIRCUITIN</li> <li>7. ⅔" EMPTY CONDUIT TO LOCATIONS SHOWN AT THE LOT PERIMETER FOR LOT LIGHTING IS BY THE GENERAL CONTRACTOR.</li> <li>SITE NOTES</li> <li>1. CONTRACTOR SHALL REFER TO ARCHITECTURAL BUILDING PLANS FOR EXACT LOCATION AND ORIENTATION OF EXTERIOR DOORS.</li> <li>2. TRASH ENCLOSURE FINISH TO MATCH BUILDING. REFER TO TRASH ENCLOSURE/STORAGE DETAILS FOR FOUNDATION DESIGN.</li> <li>3. LOCATION OF ID SIGN IS APPROXIMATE. IT IS THE RESPONSIBILITY OF THE SIGN CONTRACTOR TO VERIFY COMPLIANCE WITH SETB</li> </ul>   | <ul> <li>SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON ON A SCHEDULE WHICH COMPLIES WITH THE GENERAL PERMIT REQUIREMENTS AND CLEANED AND REPAIRED WITHIN 48 HOURS OF THE INSPECTION IN ACCORDANCE WITH THE FOLLOWING: <ul> <li>a. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.</li> <li>b. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEDED AS NEEDED.</li> <li>c. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES. WITH THE DEACHES ONE. HALE THE VERTURE OF THE SHOPE</li> </ul> </li> </ul>   | <ol> <li>9. ALL VEHICLES SHALL BE CLEANED AT THE<br/>THE MAJORITY OF MUD OR DIRT IS NOT R<br/>EXIT POINTS, AND VEHICLE TIRES SHALL E<br/>SHALL BE INTERCEPTED AND TRAPPED BE</li> <li>10. ALL MATERIALS SPILLED, DROPPED, WASHE<br/>CLEANED OR REMOVED IMMEDIATELY.</li> <li>11. CONTRACTOR SHALL PREVENT ANY SILTAT<br/>BE FULLY ENCIRCLED WITH APPROPRIATE IN<br/>12. THE CONTRACTOR SHALL REMOVE ALL ACCONTRACTOR SHALL ACCONTRACTOR SHALL REMOVE ALL ACCONTRACTOR SHALL REMOVE ALL ACCONTRACTOR SHALL SHALL ACCONTRACTOR SHALL ACCONTRACTOR SHALL ACCONTRACTOR SHALL ACCONTRACTOR SHALL SHALL ACCONTRACTOR SHALL ACCONTRACTOR SHALL SHALL ACCONTRACTOR SHALL SHALL ACCONTRACTOR SHALL SHALL SHALL SHALL SHALL SHALL SHALL SHAL</li></ol> |

- SIZE/HEIGHT AND RELATED ZONING REQUIREMENTS PRIOR TO SETTING.
- 4. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS NOTED OTHERWISE. 5. DUE TO NATURE OF THE WORK, ALL DIMENSIONS SHOWN SHALL BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER FOR APPROVAL PRIOR TO FABRICATION TO ANY ITEM. FAILURE TO ADHERE TO THIS PROCEDURE SHALL PLACE FULL RESPONSIBILITY FOR ANY ERRORS DIRECTLY UPON THE CONTRACTOR.
- 6. BASES, CONDUIT, AND WIRING FOR ALL SIGNS ARE BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR TO COORDINATE WITH ACM AND SIGN PROVIDER FOR ANCHOR BOLTS.

### GRADING NOTES

- 1. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
- 2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
- 3. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- 5. PROPOSED SPOT GRADES SHOWN ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
- 6. EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT ONE FOOT (1').
- 7. ALL UN-SURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- 8. FOR LOCATION OF ALL UTILITY ENTRANCES, SEE ARCHITECTURAL PLANS AND SPECIFICATIONS.
- 9. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, TELEPHONE COMPANY & GAS COMPANY FOR ACTUAL ROUTING OF POWER AND SERVICES TO BUILDING.
- 10. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- 11. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL ON SITE AT ALL TIMES BY WATERING SITE AS OFTEN AS NEEDED.
- 12. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF ADJACENT PROPERTIES TO MCDONALD'S SITE. IF EXISTING GRADES DO NOT MATCH THOSE SHOWN ON THIS PLAN, CONTRACTOR SHALL NOTIFY MCDONALD'S PROJECT MANAGER.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRAFFIC CONTROL NECESSARY FOR DRIVE DEMOLITION/CONSTRUCTION.
- 14. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUNDBREAK.
- 15. CURB ELEVATIONS SHALL BE 6" ABOVE FINISH PAVEMENT UNLESS NOTED OTHERWISE.
- 16. ALL LANDSCAPE AREAS SHALL BE ROUGH GRADED TO 6" BELOW TOP OF ALL WALKS AND CURBS. FINISHED GRADING, LANDSCAPING, AND SPRINKLER SYSTEM ARE BY THE OWNER/OPERATOR.

### GENERAL NOTES

- COMPLETION.

d. THE TEMPORARY PARKING AND STORAGE AREA (IF PRESENT) SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

e. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS OR SEDIMENT TRAPS (IF PRESENT) SHALL BE MAINTAINED IN OPERATIONAL CONDITION AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

f. MAINTENANCE PROCEDURES FOR THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SPECIFIED ARE GIVEN IN SECTION 5 OF THE STORM WATER POLLUTION PREVENTION PLAN.

1. GENERAL CONTRACTOR MUST PROVIDE EXACT "AS BUILT" INFORMATION UPON COMPLETION.

2. IT IS STRONGLY RECOMMENDED THAT NO CONTRACTUAL AGREEMENT OF ANY KIND BE SIGNED PRIOR TO RECEIVING AND THOROUGHLY REVIEWING ALL APPROVALS FROM ALL OF THE REGULATORY AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT. 3. CONTRACTOR SHALL CONTACT APPROPRIATE JURISDICTION AGENCIES PRIOR TO CONSTRUCTION TO CONFIRM IF INDEPENDENT TESTING

OR INSPECTIONS WILL BE REQUIRED AS A CONDITION OF THEIR ACCEPTANCE OF WORK. CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS TO INSURE PROPER TESTING & INSPECTIONS ARE DOCUMENTED SUCH THAT WORK WILL BE ACCEPTED AT PROJECT

4. ALL MATERIALS AND CONSTRUCTION WITHIN EASEMENTS AND R.O.W. SHALL CONFORM TO ALL GOVERNING AUTHORITIES' JURISDICTION STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS. ALL OTHER MATERIALS AND CONSTRUCTION SHALL CONFORM TO MCDONALD'S PROJECT MANUAL AND SPECIFICATIONS.

5. TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON ENGINEERING, INC. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&E), WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM THE CONTRACTOR'S FAILURE TO NOTIFY THE ENGINEER AND OWNER.

6. FLOOD STATEMENT: ACCORDING TO MAP NO. 28033C0055H, DATED DECEMBER 17, 2010, OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY, NATIONAL FLOOD INSURANCE PROGRAM MAP, THIS PROPERTY IS WITHIN FLOOD ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. IF THIS SITE IS NOT WITHIN AN IDENTIFIED SPECIAL FLOOD HAZARD AREA, THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF LANGAN ENGINEERING.

TRUCTION SITE NOTICE, OBTAIN SIGNED COPIES OF SCNOI FORM FOR BOTH OWNER AND SITE), AND POST THEM AT THE CONSTRUCTION SITE, IN ACCORDANCE WITH THE MISSOURI (SCGP). THE GENERAL CONTRACTOR, (AND ALL SUBCONTRACTORS INVOLVED WITH ANY EARTHWORK, EROSION CONTROL., ETC., OR WHICH UTILIZE POSSIBLE POLLUTANTS AS DEFINED IN HE CONTENTS OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS WELL AS ALL SCGP AND ANY APPLICABLE LOCAL PERMIT REQUIREMENTS, AND SHALL COMPLY WITH ALL STRUCTION ACTIVITIES.

THE SEQUENCE OF OPERATIONS FOR EROSION CONTROL IMPLEMENTATION SHOWN HEREON. ANY ED NECESSARY BY THE CONTRACTOR MAY REQUIRE THAT THE STORM WATER POLLUTION CORDANCE WITH THE SCGP GUIDELINES AND SECTION 1.01 F OF THE STORM WATER POLLUTION

PLAN TO SHOW LOCATIONS OF TEMPORARY WASHDOWN AREAS, PORTABLE TOILETS, EQUIPMENT ILE AREAS, FUEL STORAGE AREAS, CONCRETE WASH-OUT PITS, AND POLLUTANT CONTROLS HE GENERAL PERMIT AUTHORIZES THE LAND DISPOSAL OF WASH OUT WATER FROM CONCRETE DFF-SITE PRODUCTION FACILITIES, AS LONG AS THE DISCHARGE IS INTO SPECIFICALLY BEEN PREPARED TO PREVENT CONTACT BETWEEN THE CONCRETE AND/OR WASH OUT WATER CHARGED FROM THE SITE, TO PREVENT DIRECT DISCHARGE TO SURFACE WATERS (SEE PLANS). DIRECT DISCHARGE OF CONCRETE TRUCK WASH OUT WATER TO SURFACE WATERS IN STORM SEWERS, IS PROHIBITED BY THE GENERAL PERMIT. IF A CONCRETE PLANT IS LOCATED SHALL OBTAIN COVERAGE UNDER AND COMPLY WITH MDEQ PERMITTING.

RFORM ALL REQUIRED INSPECTIONS OF STORMWATER CONTROLS AND PRACTICES AT SHALL COMPLETE AND SIGN APPROPRIATE INSPECTION FORMS (AS PROVIDED IN THE STORM

LS SHALL BE READILY AVAILABLE ON-SITE AND SHALL BE PROMPTLY USED TO CONTAIN MICAL SPILLS OR LEAKS.

ED BY WATERING DRY, EXPOSED AREAS ON A REGULAR BASIS. SPRAYING OF PETROLEUM IRPOSE IS PROHIBITED.

CONSTRUCTION ACTIVITIES HAVE CEASED FOR AT LEAST FOURTEEN DAYS SHALL BE TION AND MULCH.

OR LANDSCAPING SPECIFICATIONS. THE CONSTRUCTION EXIT POINTS ACCORDING TO NOTES SHOWN ON THE DETAIL THEREOF. IF REMOVED FROM EXITING TRAFFIC, HOSE BIBS SHALL BE PROVIDED AT CONSTRUCTION TRAFFIC BE WASHED BEFORE EXITING ONTO PUBLIC ROADS. SILT FROM THIS WASHING OPERATION BEFORE WASHWATER IS ALLOWED TO BE DISCHARGED OFF-SITE.

SHED OR TRACKED ONTO ADJACENT ROADWAYS BY VEHICLES EXITING THE SITE SHALL BE

ACCUMULATED SILT IN ANY TEMPORARY OR PERMANENT DETENTION PONDS, STORM SEWER ENCES, WITHIN 48 HOURS AFTER INSPECTION OF DEVICES REVEALS THE PRESENCE OF I SECTION 5.02 OF THE STORM WATER POLLUTION PREVENTION PLAN).

13. SILT FENCES SHALL BE PLACED AROUND ANY STOCKPILES USED ON THIS SITE. 14. THE CONTRACTOR IS ADVISED TO CONSTRUCT TEMPORARY OR PERMANENT FENCING AROUND DETENTION PONDS AND SEDIMENT BASINS AT THE EARLIEST POSSIBLE TIME TO PREVENT ACCIDENTAL ACCESS BY PERSONS OR ANIMALS.

15. ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED TO ENSURE COMPLIANCE WITH THE SCGP OR LOCAL PERMIT SHALL BE IMPLEMENTED BY THE CONTRACTOR, AT NO ADDITIONAL EXPENSE TO THE OWNER.

16. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE WITHIN TH AFTER STABILIZATION OF ALL SURFACES.

17. THE CONTRACTOR SHALL ASSUME LIABILITY FOR DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT-OF-WAY FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION CONTROL PROCEDURES SHOWN AND NOTED IN THES 18. WHENEVER DIRT, ROCK, OR OTHER MATERIALS ARE IMPORTED OR EXPORTED ON THE PRIMARY CONSTRUCTION SITE, C SHALL ASSUME RESPONSIBILITY FOR COMPLIANCE WITH ALL MDEQ STORMWATER REQUIREMENTS FOR THE REMOTE SITE SHALL FURNISH THE ENGINEER AND THE OWNER'S CONSTRUCTION MANAGER WITH DOCUMENTATION OF COVERAGE FOR OR FILL SITE UNDER A MDEQ NPDES PERMIT FOR STORMWATER DISCHARGES AND OF A WRITTEN AGREEMENT WITH TH OF THE REMOTE SITE INDICATING EROSION CONTROL MEASURES HAVE BEEN IMPLEMENTED THEREON. AT A MINIMUM, CONTROL MEASURES MUST CONSIST OF PERIMETER CONTROLS (SILT FENCES) ON ALL DOWN SLOPES AND SIDE SLOPE

ANY DISTURBED AREA, PLUS PROVISIONS FOR RE-VEGETATION AFTER THE FILL MATERIALS ARE IN PLACE.

19. ALL SLOPES ON SITE WHICH ARE 3:1 OR STEEPER SHALL BE STABILIZED BY TRACK WALKING (TRAVERSING UP AND WITH A TRACKED VEHICLE) FOLLOWED BY INSTALLATION OF EROSION CONTROL BLANKET INSTALLED IN ACCORDANCE MANUFACTURER'S INSTRUCTIONS. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S150 OR APPROVE 20. THE CONTRACTOR SHALL NOTE ON SITE PLAN THE LOCATION OF ALL MATERIAL STORAGE AREAS, EQUIPMENT STORAG PETROLEUM TANKS, SOLID WASTE RECEPTACLES, SANITARY FACILITIES, CONCRETE WASHOUT AREAS, ANY ON-SITE OR BORROW OR STOCKPILE AREA, ANY ON-SITE OR OFF-SITE SUPPORT ACTIVITIES (SUCH AS ASPHALT OR CONCRETE PL CONTRACTOR SHALL ALSO PREPARE, KEEP ON SITE, AND MAINTAIN CURRENT A LIST OF MATERIALS WITH APPROXIMA

WHICH ARE STORED ON SITE.

21. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SH PLANS IS BASED UPON RECORD OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, ACTUAL MEASUREMENT FIELD. THE INFORMATION PROVIDED HEREON IS NOT TO BE TAKEN AS EXACT OR FULLY COMPLETE. THE CONTRACTOR THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION TO REQUEST EXACT FIELD LOCATION TO REQUEST EXACT FIELD LOCATION FOR THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION FOR THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION FOR THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION FOR THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION FOR THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION FOR THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION FOR THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION FOR THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION FOR THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION FOR THE APPROPRIATE UTILITY FOR THE APPROPRIATE APPROPRIATE UTILITY FOR THE APPROPRIATE AP EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WH WITH THE PROPOSED IMPROVEMENTS AS SHOWN.

### PAVING NOTES

1. REFER TO MCDONALD'S SPECIFICATIONS SECTIONS 079200, 321216, 321236, 321313, 321613, 321713, AND 321723 2. REFER TO SITE PLAN FOR ADDITIONAL DIMENSION, RADII, ETC.

3. THE PAVING CONTRACTOR SHALL NOT PLACE PERMANENT PAVEMENT UNTIL ALL SLEEVING FOR ELECTRIC, GAS, TE TV, SITE IRRIGATION, ETC. HAS BEEN INSTALLED. IT SHALL BE THE PAVING CONTRACTOR'S RESPONSIBILITY TO INS SLEEVING IS IN PLACE PRIOR TO PLACING OF PERMANENT PAVEMENT. PRIOR TO STARTING OF CONSTRUCTION, THE SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS FROM CITY HAVE BEEN OBTAINED.

4. CONTRACTOR TO REFER TO BUILDING & STRUCTURAL PLANS FOR FOUNDATION DESIGN.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRAFFIC CONTROL NECESSARY FOR DRIVE DEMOLITION/CONSTRUCTI

6. SIDEWALKS AROUND THE BUILDING SHALL HAVE THE SAME SUBGRADE AS BUILDING FOUNDATION AS DESCRIBED IN PROVIDED BY PROFESSIONAL SERVICE INDUSTRIES, INC. (PROJECT NO. 0040447-1)

7. MCDONALD'S RESERVES THE RIGHT TO REQUEST A COMPACTION AND/OR A CORE SAMPLE. IF TESTS PROVE CORE SOILS REPORT, TESTS WILL BE AT THE EXPENSE OF MCDONALD'S, OTHERWISE G.C., WILL BE CHARGED.

CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE PERMANENTLY SEEDED

TATION FROM ENTERING THE STORM SEWER SYSTEM. ALL INLETS AND INLET OPENINGS SHALL TE INLET PROTECTION DEVICES.

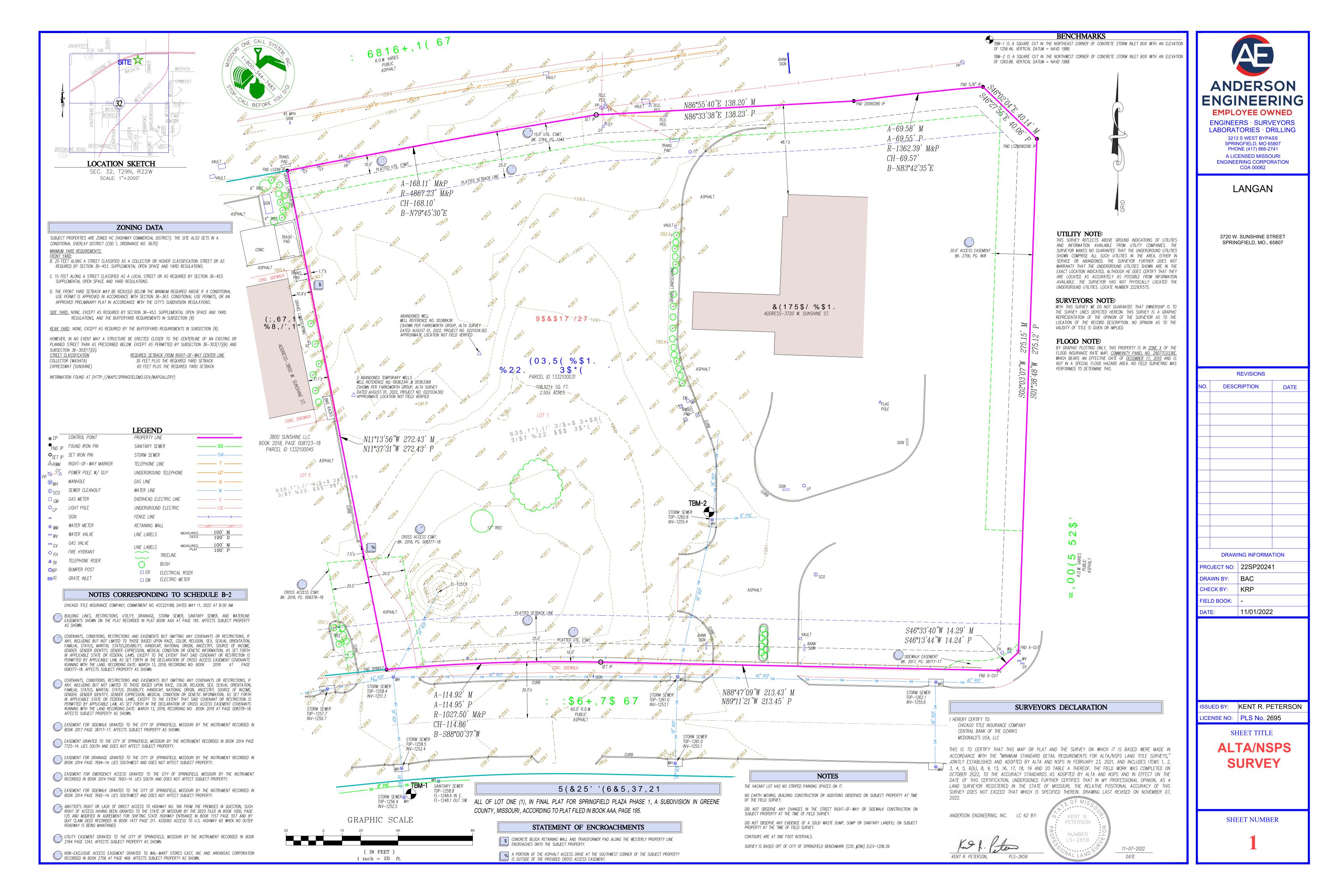
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| Y RESULTING<br>SE PLANS.<br>CONTRACTOR  | specific site in conjunction with<br>not suitable for use on a diffe<br>time. Use of these drawings<br>another project requires the s<br>architects and engineers. Rep<br>documents for reuse on anoth | h its issue date and are<br>erent site or at a later<br>for reference or example on<br>ervices of properly licensed<br>production of the contract  |
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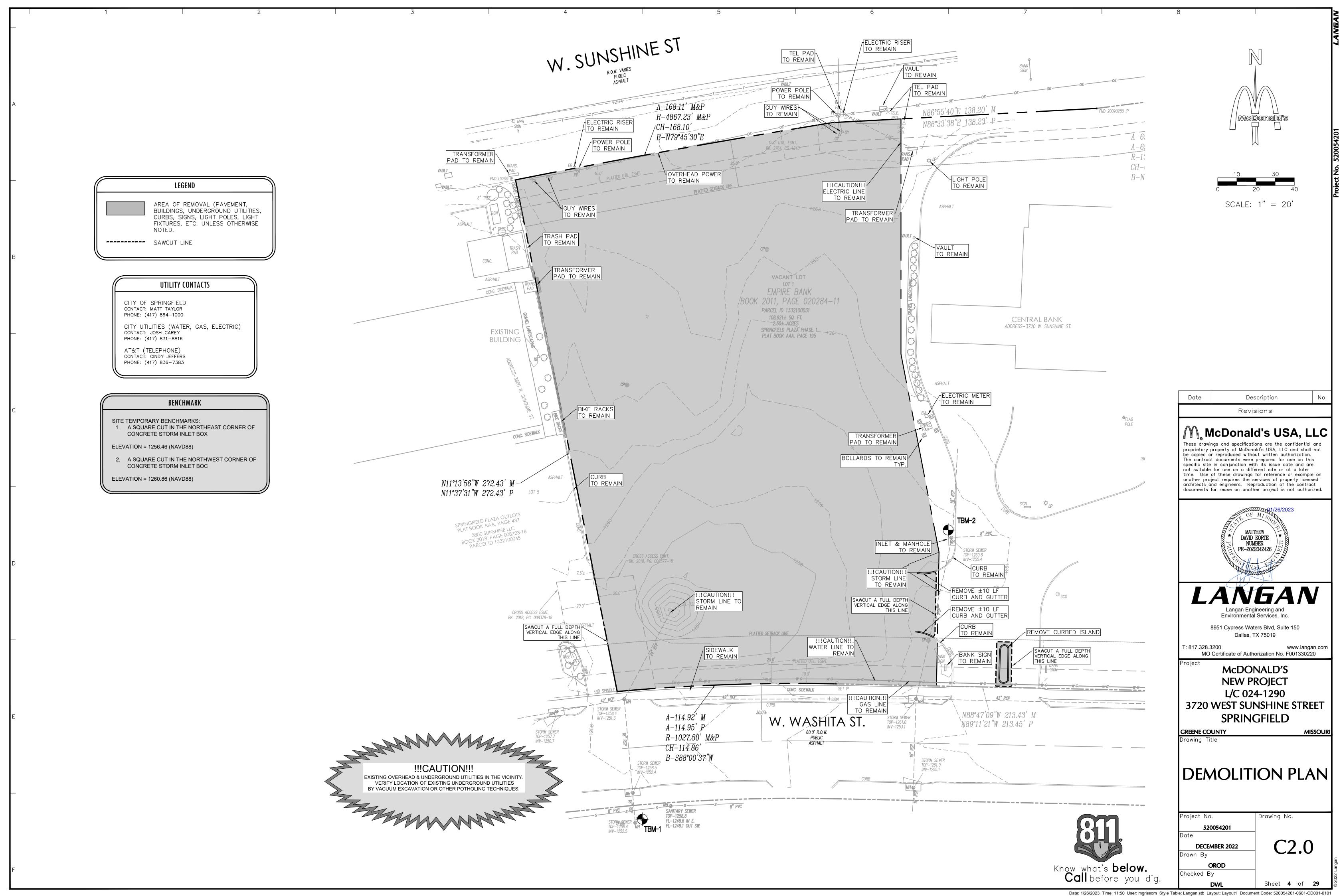
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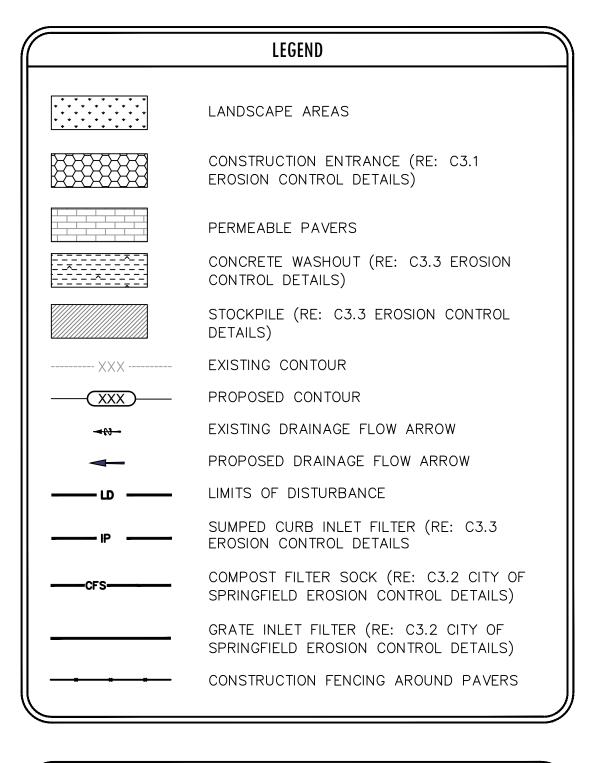
Description

Revisions





| ACREAGE  | SUMMARY   |
|--|-----------|
| TOTAL SITE                                       | 1.275 AC  |
| TOTAL DISTURBED                                  | ±1.275 AC |
| WEIGHTED PRE-CONSTRUCTION<br>RUNOFF COEFFICIENT  | 0.30      |
| WEIGHTED POST-CONSTRUCTION<br>RUNOFF COEFFICIENT | 0.80      |
| POST AREA ROOFED OR<br>PAVED                     | 1.055 AC  |
| POST AREA LANDSCAPED                             | 0.22 AC   |
|  | ·         |



### **\*\*\*CAUTION - NOTICE TO CONTRACTOR**

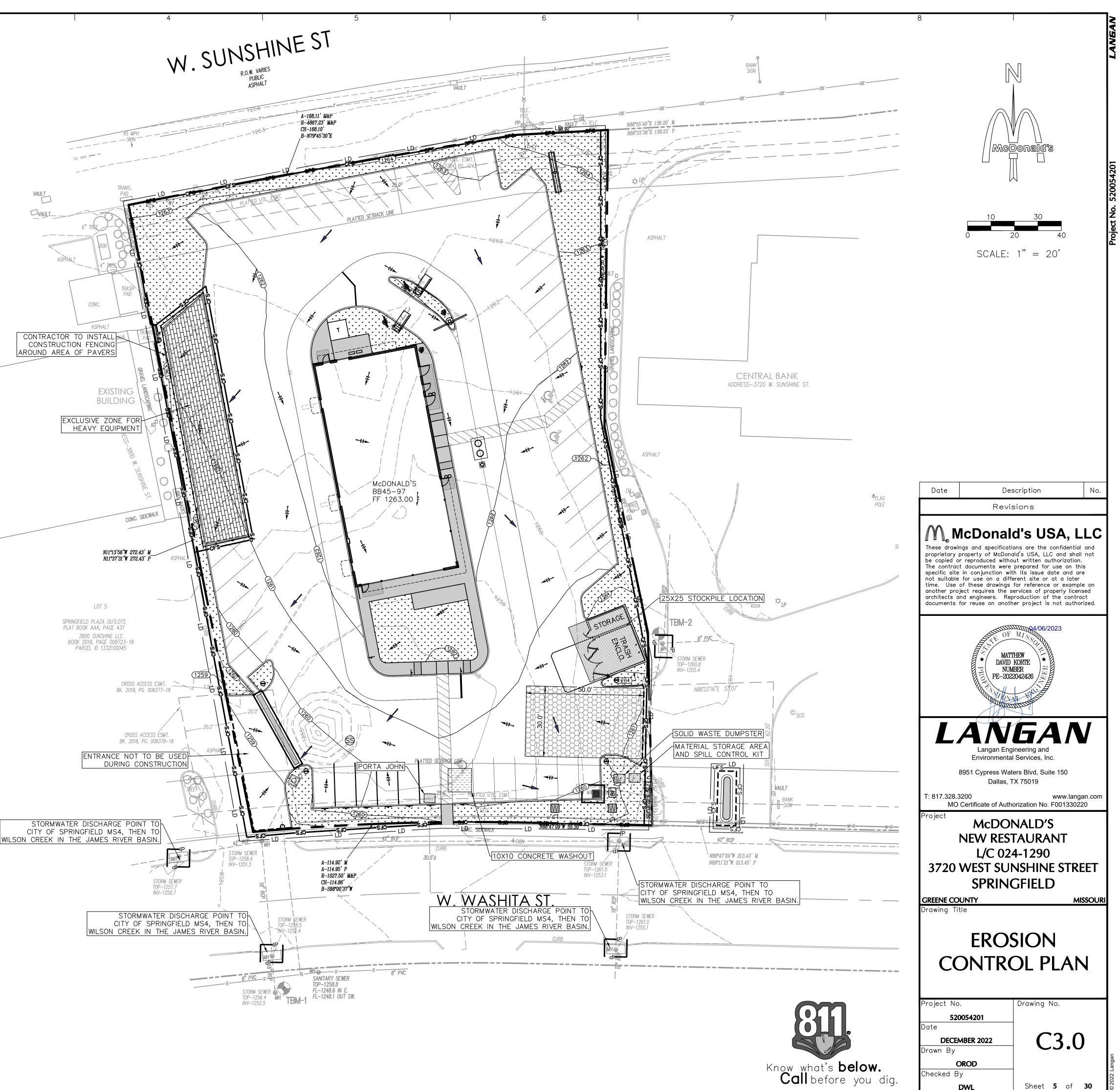
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### \*\*\*NOTE TO CONTRACTOR\*\*\*

THE CONTRACTOR SHALL NOTE ON SITE PLAN THE LOCATION OF ALL MATERIAL STORAGE AREAS, EQUIPMENT STORAGE AREAS, PETROLEUM TANKS, SOLID WASTE RECEPTACLES, SANITARY FACILITIES, CONCRETE WASHOUT AREAS, ANY ON-SITE OR OFF-SITE BORROW OR STOCKPILE AREA, ANY ON-SITE OR OFF-SITE SUPPORT ACTIVITIES (SUCH AS ASPHALT OR CONCRETE PLANTS). CONTRACTOR SHALL ALSO PREPARE, KEEP ON SITE, AND MAINTAIN CURRENT A LIST OF MATERIALS WITH APPROXIMATE QUANTITIES, WHICH ARE STORED ON SITE.

### BMP Phasing Table

| Project Stage | Erosion   | BMP Description                          | Date      | Date    |
|---------------|-----------|--|-----------|---------|
|               | Control   |  | installed | removed |
|               | BMP       |  |           |         |
|               | Reference |  |           |         |
|               | Number    |  |           |         |
| A. Pre-       | A1        | Construction exit                        |           |         |
| construction  | A2        | Existing storm inlet protection          |           |         |
|               | A3        | Porta potty, solid waste dumpster,       |           |         |
|               |           | material storage area, spill control kit |           |         |
|               | A4        | Compost filter sock                      |           |         |
| B. Clearing   | B1        | Compost filter sock                      |           |         |
| and mass      | B1<br>B2  | Temporary and permanent seeding          |           |         |
| grading       | B3        | Stockpile topsoil                        |           |         |
| C. Building   | C1        | Inlet protection                         |           |         |
| construction  | C2        | Concrete washout pit                     |           |         |
| D. Final      | D1        | Planting and/or seeding vegetated        |           |         |
| stabilization |           | areas                                    |           |         |
|               | D2        | Removal of temporary BMPs                |           |         |



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STABILIZED CONSTRUCTION ENTRANCE

1. STONE SHALL BE 5 TO 10 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.

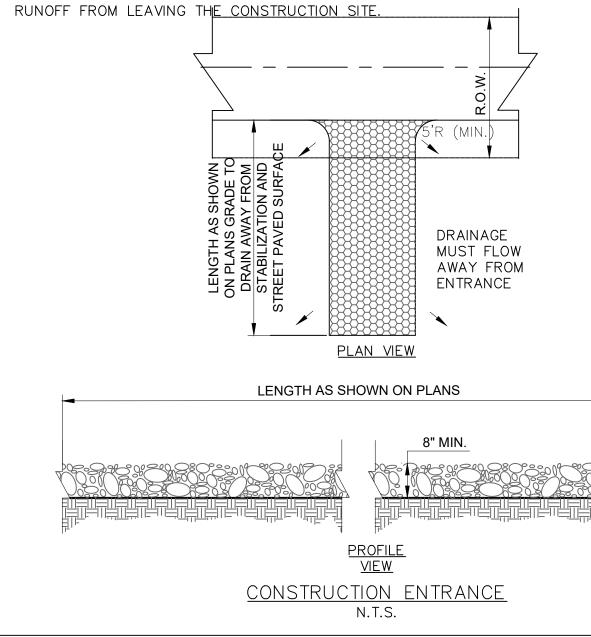
2. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.

3. THE THICKNESS SHALL NOT BE LESS THAN 8 INCHES.

4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS. 5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE

ONTO A PUBLIC ROADWAY. WHEN FLASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES, MUST BE REMOVED IMMEDIATELY.



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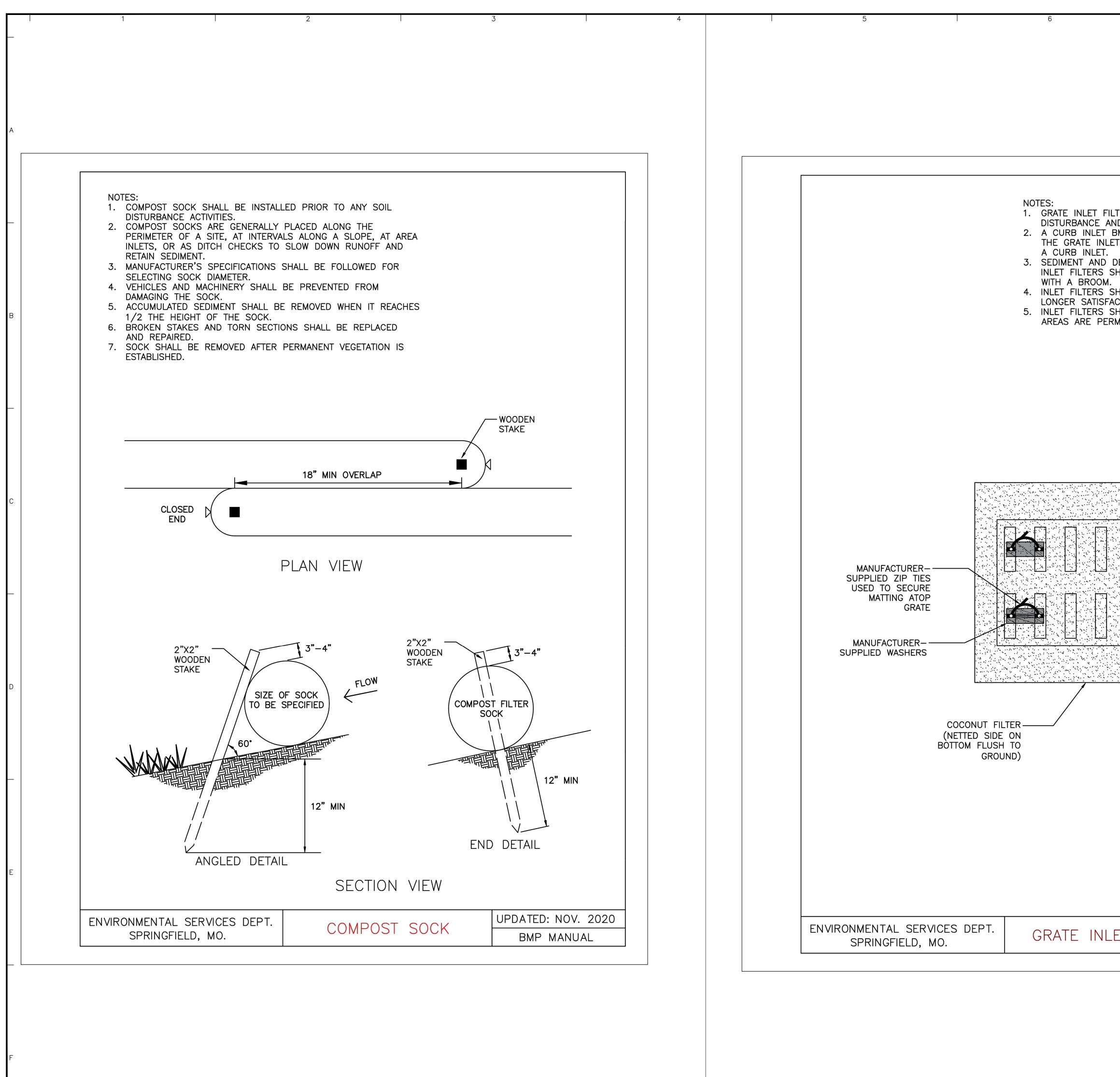
7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE DRAINAGE SWALE TO PREVENT

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| <section-header>Marthew<br/>Marthew<br/>McDonald's USA, LLC<br/>These drawings and specifications are the confidential and<br/>proprietory property of McDonald's USA, LLC and shall not<br/>be copied or reproduced without written authorization.<br/>The contract documents were prepared for use on this<br/>prot suitable for use on a different site or at a latter<br/>inter. Use of these drawings for reference or example on<br/>architects and engineers. Reproduction of the contract<br/>documents for reuse on another project is not authorized.<br/>Marthew<br/>Networks and engineers. Reproduction of the contract<br/>documents for reuse on another project is not authorized.<br/>Marthew<br/>PB-202049488<br/>Marthew<br/>PB-202049488<br/>DEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE</section-header>  | ۷o.    |
| These drawings and specifications are the confidential and<br>proprietary property of McDonald's USA, LLC and shall not<br>be copied or reproduced without written authorization.<br>The contract documents were prepared for use on this<br>specific site in conjunction with its issue date and are<br>not suitable for use on a different site or at a later<br>time. Use of these drawings for reference or example on<br>architects and engineers. Reproduction of the contract<br>documents for reuse on another project is not authorized.<br><b>MATTHEW</b><br><b>DAVID</b> KOKTE<br><b>NUMEER</b><br><b>PE</b> -2022042436<br><b>DAVID</b> KOKTE<br><b>NUMEER</b><br><b>NUMEER</b><br><b>PE</b> -2022042436<br><b>DAVID</b> KOKTE<br><b>NUMEER</b><br><b>PE</b> -2022042436<br><b>DAVID</b> KOKTE<br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEER</b><br><b>NUMEE</b> |        |
| ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW<br>ATTHEW  | d<br>t |
| Langan Engineering and<br>Environmental Services, Inc.<br>8951 Cypress Waters Blvd, Suite 150<br>Dallas, TX 75019<br>T: 817.328.3200 www.langan.co<br>MO Certificate of Authorization No. F001330220<br>Project<br>McDONALD'S<br>NEW RESTAURANT<br>L/C 024-1290<br>3720 WEST SUNSHINE STREET<br>SPRINGFIELD<br>MISSO<br>Drawing Title   |        |
| MO Certificate of Authorization No. F001330220 Project McDONALD'S NEW RESTAURANT L/C 024-1290 3720 WEST SUNSHINE STREET SPRINGFIELD GREENE COUNTY MISSO   |        |
| McDONALD'S<br>NEW RESTAURANT<br>L/C 024-1290<br>3720 WEST SUNSHINE STREET<br>SPRINGFIELD<br>GREENE COUNTY MISSO<br>Drawing Title  | com    |
| FROSION   | -      |
| CONTROL DETAILS   | S      |
| Project No. Drawing No.   |        |
| 520054201<br>Date<br>DECEMBER 2022<br>Drawn By<br>OROD<br>Checked By  |        |

Sheet **6** of **30** 

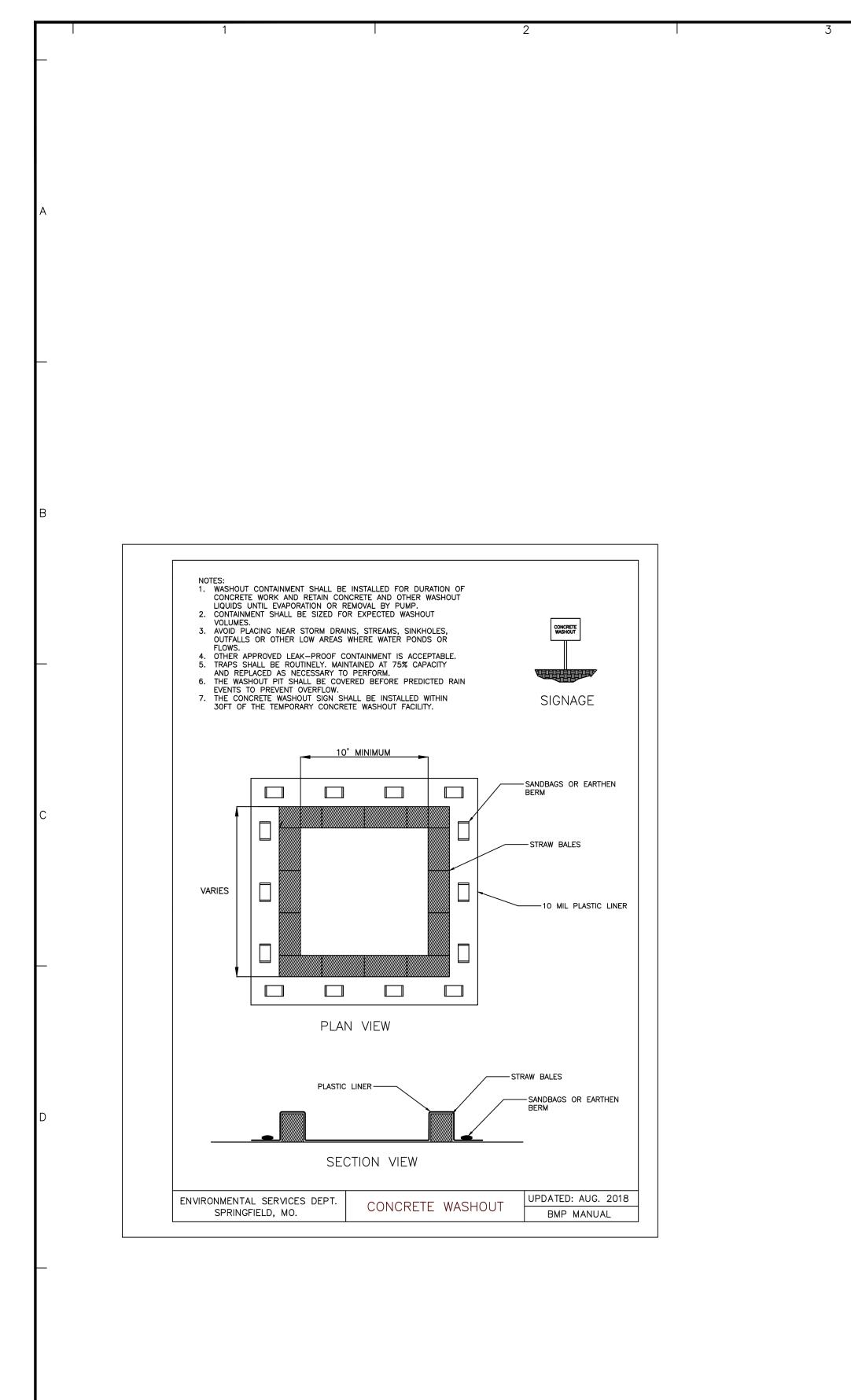
Date: 4/6/2023 Time: 15:01 User: tarinder Style Table: Langan.stb Layout: Layout1 Document Code: 520054201-0601-CE501-0101

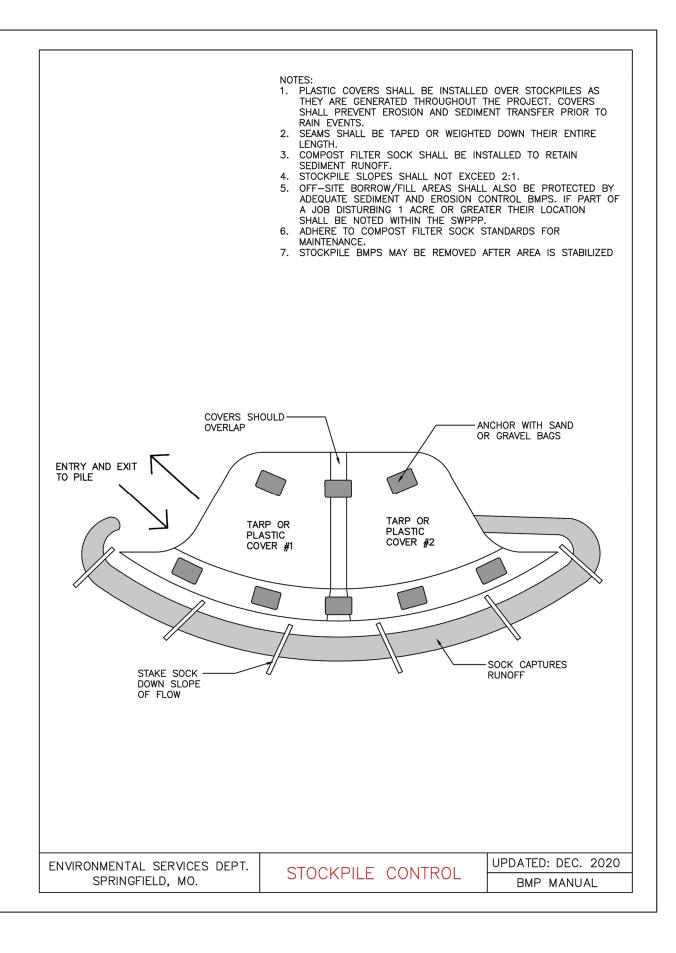
DWL

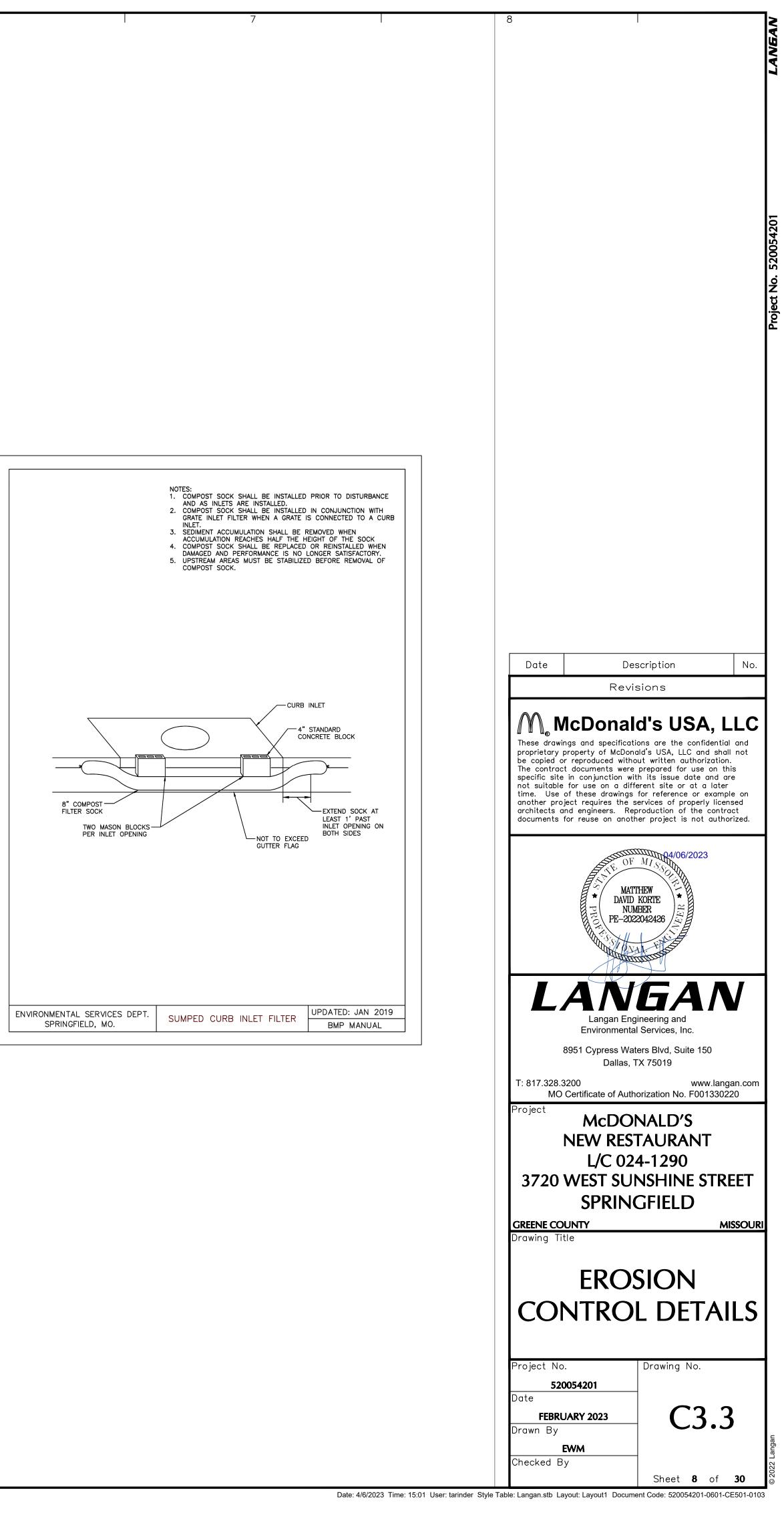


| 7   | 8<br> <br>   |
|---|--|
| ERS SHALL BE PLACED PRIOR TO<br>O AFTER GRATES ARE INSTALLED.<br>MP SHALL BE INSTALLED IN CONJUNCTION WITH<br>FILTER WHEN A GRATE IS CONNECTED TO A<br>EBRIS COLLECTED ON TOP AND SIDES OF<br>ALL BE REMOVED AFTER EACH RAIN EVENT<br>ALL BE REPLACED WHEN PERFORMANCE IS NO<br>TORY.<br>ALL ONLY BE REMOVED WHEN UPSTREAM<br>ANENTLY STABILIZED. |  |
|   | Date       Description       No.         Revisions         Momentum Contract of the contract documents were prepared for use on this specific site in conjunction with its issue date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.   |
| OVERLAPPING<br>PERIMETER OF GRATE<br>BY AT LEAST 2"   | MATTHEW<br>DAVID KORTE<br>PE-2022042426<br>PE-2022042426<br>AUTOMOTION<br>PE-2022042426<br>DAVID KORTE<br>NUMBER<br>PE-2022042426<br>DAVID KORTE<br>NUMBER<br>PE-20220424<br>DAVID KORTE<br>NUMBER<br>PE-202000<br>DAVID KORTE<br>NUMBER<br>PE-202000<br>DAVID KORTE<br>NUMBER<br>PE-202000<br>DAVID KORTE<br>NUMBER<br>PE-202000<br>DAVID KORTE<br>NUMBER<br>PE-202000<br>DAVID KORTE<br>NUMBER<br>PE-202000<br>DAVID KORTE<br>NUMBER<br>PE-202000<br>DAVID KORTE<br>NUMBER<br>PE-202000<br>DAVID KORTE<br>NUMBER<br>PE-202000<br>DAVID KORTE<br>NUMBER<br>PE-2000000000000000000000000000000000000 |
| T FILTER  | T: 817.328.320 www.langan.com<br>MO Certificate of Authorization No. F001330220<br>Project McDONALD'S<br>NEW RESTAURANT<br>L/C 024-1290<br>3720 WEST SUNSHINE STREET<br>SPRINGFIELD<br>GREENE COUNTY MISSOURI<br>Drawing Title   |
| BMP MANUAL  | CONTROL DETAILSProject No.520054201Date  |
|   | DECEMBER 2022<br>Drawn By<br>OROD<br>Checked By<br>DWL Sheet 7 of 30   |

Date: 4/6/2023 Time: 15:01 User: tarinder Style Table: Langan.stb Layout: Layout1 Document Code: 520054201-0601-CE501-0102







| 1 I   |               |
|---|---------------|
| LEGEND  |               |
| LIGHT STANDARD (15' CLEAR FROM ALL OVERHEAD<br>UTILITY LINES) (24" CLEAR FROM BACK OF CURB) | Э.            |
| ROAD SIGN   |               |
| McDONALD'S ORDER HERE CANOPY  |               |
| McDONALD'S DIGITAL PRE-BROWSE BOARD<br>McDONALD'S DOUBLE GATEWAY =                          |               |
| McDONALD'S DIRECTIONAL SIGN   | ⊕             |
| DETECTOR LOOP (LOCATION TO BE APPROVED BY<br>McDONALD'S) (RE: C10.0 STANDARD DETAILS)       |               |
| "DRIVE-THRU" WITH "CIRCLE / ARROW" -<br>COLOR : YELLOW                                      | DRIVE<br>THRU |
| PAINTED "STOP" AND 12" STOP BAR WITH<br>"STOP" SIGN – COLOR : YELLOW *                      | STOP          |
| "THANK YOU" AT END OF PATH  | THANK<br>YOU  |
| "CIRCLE / ARROW" - COLOR : YELLOW   | 1             |
| ARROW PATH DIRECTION - COLOR : WHITE  | <b>\→</b>     |
| ROLL-FORWARD ARROW PATH DIRECTION -<br>COLOR : YELLOW                                       | →             |
| STRAIGHT DRIVE-THRU "ARROW MARKING" - ■<br>COLOR: YELLOW                                    | →             |

|                     | KEY NOTE LEGEND  |
|---------------------|--|
| MARK                | MARK DESCRIPTION   |
|                     | CONCRETE VERTICAL CURB @DRIVE-THRU (RE: C10.2 STANDARD DETAILS)  |
| 2                   | CURB AND GUTTER @NON DRIVE-THRU AREAS (RE: C10.2 STANDARD DETAILS)   |
| 3                   | MOUNTABLE CURB RAISED ISLAND (RE: C10.3 STANDARD DETAILS)  |
| 4                   | TURN DOWN CURB (RE: C10.3 STANDARD DETAILS)  |
| 5                   | REINFORCED CONCRETE SIDEWALK (RE: C10.3 STANDARD DETAILS)  |
| 6                   | McDONALD'S MOBILE SIGNS (COORDINATE WITH OWNER/OPERATOR FOR EXACT LOCATIONS)                               |
| $\langle 7 \rangle$ | H.C. ACCESS RAMP @ 1:12 MAX SLOPE (RE: C10.1 STANDARD DETAILS)   |
| 8                   | HANDICAP ACCESSIBLE SIGN (POLE MOUNTED) (RE: C10.1 STANDARD DETAILS)                                       |
| 9                   | NOT USED   |
| 10                  | BOLLARD (RE: C10.1 STANDARD DETAILS)   |
| (11)                | 5' GUARDRAIL @ INGRESS/EGRESS DOOR (RE: C10.1 STANDARD DETAILS)  |
| 12                  | BIKE RACK (RE: C10.1 STANDARD DETAILS)   |
| 13                  | McDONALD'S ROLL-FORWARD SIGNS (COORDINATE WITH OWNER/OPERATOR<br>FOR EXACT LOCATIONS)                      |
| 14                  | DRAINAGE STRUCTURE (RE: C8.1 POST DEVELOPED DRAINAGE PLAN)   |
| (15)                | LANDSCAPE FINISH GRADE 1" BELOW TOP OF CURB IN ALL LAWN<br>AREAS AND 2" BELOW TOP OF CURB IN ALL BED AREAS |
| (16)                | 6" DRIVE-THRU STRIPING - COLOR : YELLOW  |
| 17                  | 4" DIAGONAL PAINTED ISLANDS AT DRIVE-THRU - COLOR : YELLOW   |
| 18                  | 6" MERGE POINT - COLOR : YELLOW  |
| (19)                | 4" PARKING STALL STRIPING - COLOR : WHITE (TYP)  |
| 20                  | 4" DIAGONAL PAINTED ISLANDS IN PARKING AREA - COLOR : WHITE  |
| 21                  | HANDICAP ACCESSIBLE SPACES / SYMBOLS / CROSSWALK – COLOR :<br>(PER STATE/CITY REQUIREMENTS)                |
| 22                  | 4" OOSP STRIPING - COLOR : YELLOW  |
| 23                  | 8" OOSP STRIPING - COLOR : YELLOW  |

SITE INFORMATION

±52,830 SF (1.21 AC)

| LAND AREA:<br>CURRENT ZONING:   | ±52,830 SF (1.21 AC)<br>HC– HIGHWAY COMMERCIAL<br>DISTRICT WITH CONDITIONAL<br>OVERLAY DISTRICT – 1 |
|---|---|
| EXISTING USE:   | VACANT  |
| PROPOSED USE:   | RESTAURANT W/DRIVE-THRU   |
| BUILDING AREA (APPROXIMATE):<br>BUILDING LOT COVERAGE:<br>PARKING CALCULATIONS: | 4,365 GFA<br>4,365 SF/52,830 SF = 0.08%<br>1 SPACE PER 70 SF, PLUS 6<br>QUEUING SPACES + 1          |
| PARKING SPACED REQUIRED:  | 63  |
| PARKING SPACES PROVIDED:  | 57 (10%)  |
| STACKING REQUIRED:<br>STACKING PROVIDED:  | 7<br>14   |
| HANDICAP PARKING REQUIRED:  | 3   |
| HANDICAP PARKING PROVIDED:  | 3   |
| BICYCLE PARKING REQUIRED:<br>BICYCLE PARKING PROVIDED:                          | 15<br>15  |
| PROPOSED LANDSCAPE OPEN SPACE:<br>PROPOSED BRICK PAVERS                         | 9,812 SF (18.6%)<br>1,770 SF (3.4%)   |

FIRE APPARATUS ACCESS LANES SHALL BE MARKED WITH 4" RED STRIPING ON EACH SIDE OF THE FIRE LANE ALONG THE ENTIRE LENGTH OF THE LANE AND "NO PARKING FIRE LANE" SHALL BE STENCILED IN 12" LETTERS EVERY 50' IN THE CENTER OF THE FIRE LANE (PERPENDICULAR TO TRAFFIC FLOW AND IN ALTERNATING DIRECTIONS). IF A CURB IS PRESENT ALONG ONE SIDE OF THE LANE THE CURB SHOULD BE PAINTED RED IN PLACE OF THE 4" STRIPING. (2018 IFC 503.3)

| PARKING CALCULATIONS:         |                 |
|-------------------------------|-----------------|
| PARKING REQUIRED:             | 4,368 / 70 = 63 |
| 10% REDUCTION:                | 63 X 10% = 6.3  |
| PARKING PROVIDED:             | 57              |
| BICYCLE PARKING REQUIRED:     | 3               |
| BICYCLE PARKING SUBSTITUTION: | 6 X 2 = 12      |
| BICYCLE PARKING PROVIDED:     | 15              |

### STANDARD ACCESSIBILITY REQUIREMENTS

### PARKING:

ACCESSIBLE PARKING SPACES SHALL BE AS NOTED TO A MIN. 96" WIDE OR A MIN. 132" WIDE FOR VAN DESIGNATED SPACES WITH A MAXIMUM SLOPE OF 2% (IN ALL DIRECTIONS). ALL BUILDINGS SHALL HAVE AT LEAST ONE VAN ACCESSIBLE SPACE.

EACH ACCESSIBLE PARKING SPACE SHALL HAVE A VERTICALLY MOUNTED (OR SUSPENDED) SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. AT LEAST ONE SPACE MUST INCORPORATE "VAN-ACCESSIBLE" BELOW THE SYMBOL OF ACCESSIBILITY. SIGN SHALL BE LOCATED AS NOTED TO 80" (MIN.) ABOVE THE ADJACENT PAVED SURFACE TO BOTTOM OF TEXT.

ALL ACCESS AISLES SERVING ACCESSIBLE PARKING SPACES SHALL BE AS NOTED TO A 60" WIDE MINIMUM. RAMPS:

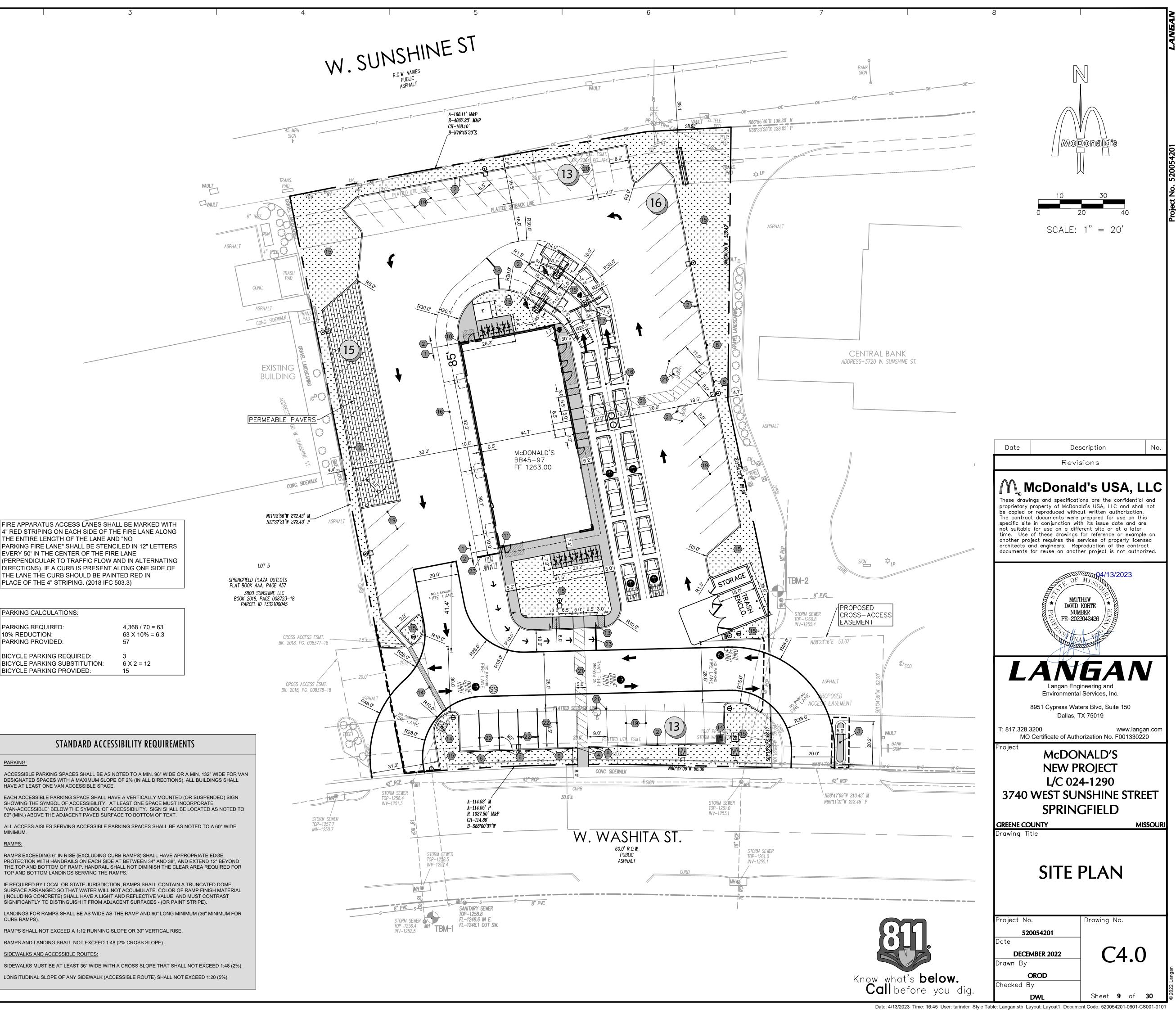
RAMPS EXCEEDING 6" IN RISE (EXCLUDING CURB RAMPS) SHALL HAVE APPROPRIATE EDGE PROTECTION WITH HANDRAILS ON EACH SIDE AT BETWEEN 34" AND 38", AND EXTEND 12" BEYOND THE TOP AND BOTTOM OF RAMP. HANDRAIL SHALL NOT DIMINISH THE CLEAR AREA REQUIRED FOR TOP AND BOTTOM LANDINGS SERVING THE RAMPS.

IF REQUIRED BY LOCAL OR STATE JURISDICTION, RAMPS SHALL CONTAIN A TRUNCATED DOME SURFACE ARRANGED SO THAT WATER WILL NOT ACCUMULATE. COLOR OF RAMP FINISH MATERIAL (INCLUDING CONCRETE) SHALL HAVE A LIGHT AND REFLECTIVE VALUE AND MUST CONTRAST SIGNIFICANTLY TO DISTINGUISH IT FROM ADJACENT SURFACES - (OR PAINT STRIPE). LANDINGS FOR RAMPS SHALL BE AS WIDE AS THE RAMP AND 60" LONG MINIMUM (36" MINIMUM FOR CURB RAMPS).

RAMPS SHALL NOT EXCEED A 1:12 RUNNING SLOPE OR 30" VERTICAL RISE. RAMPS AND LANDING SHALL NOT EXCEED 1:48 (2% CROSS SLOPE).

SIDEWALKS AND ACCESSIBLE ROUTES:

LONGITUDINAL SLOPE OF ANY SIDEWALK (ACCESSIBLE ROUTE) SHALL NOT EXCEED 1:20 (5%).



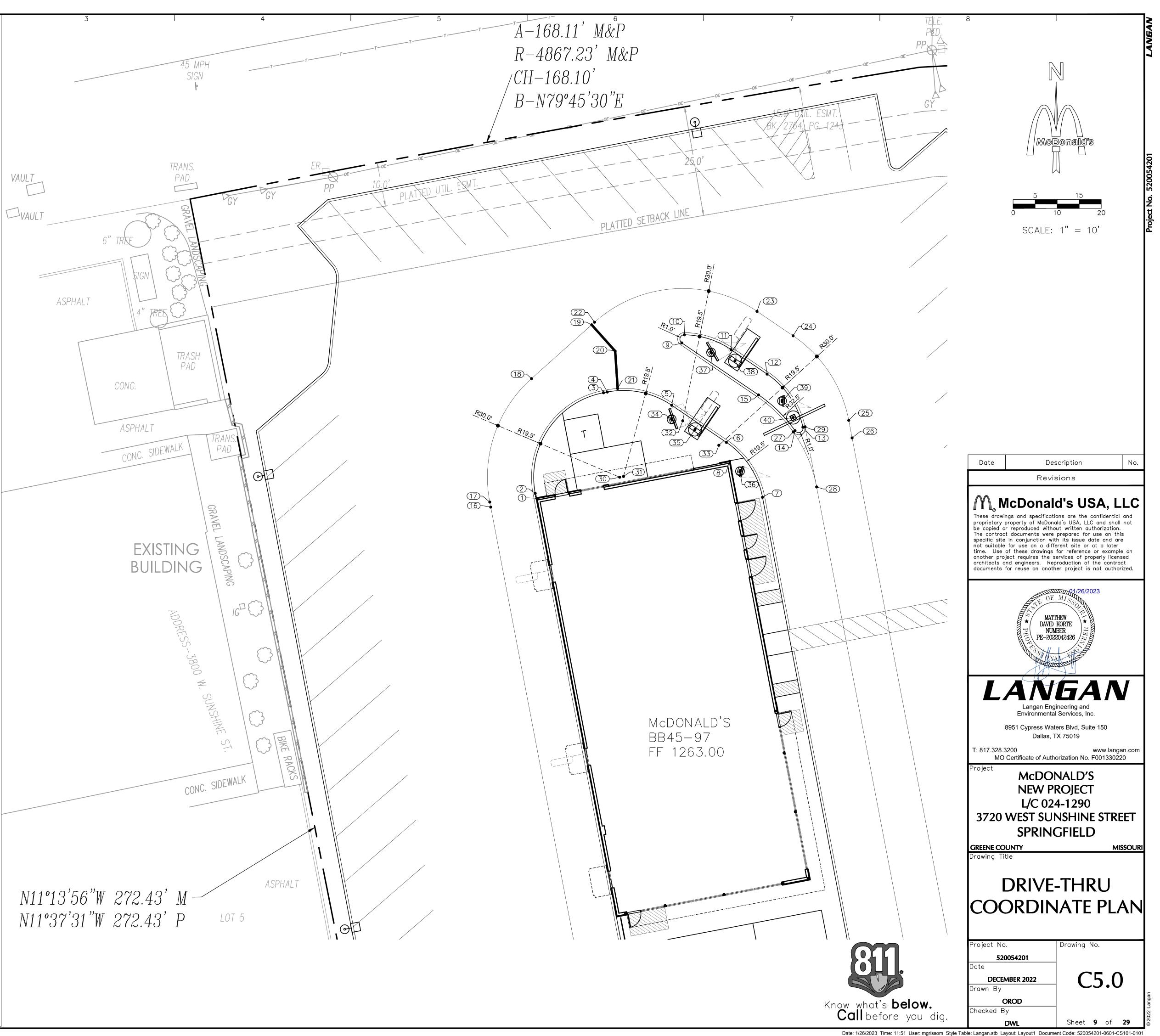
### NOTICE TO CONTRACTOR

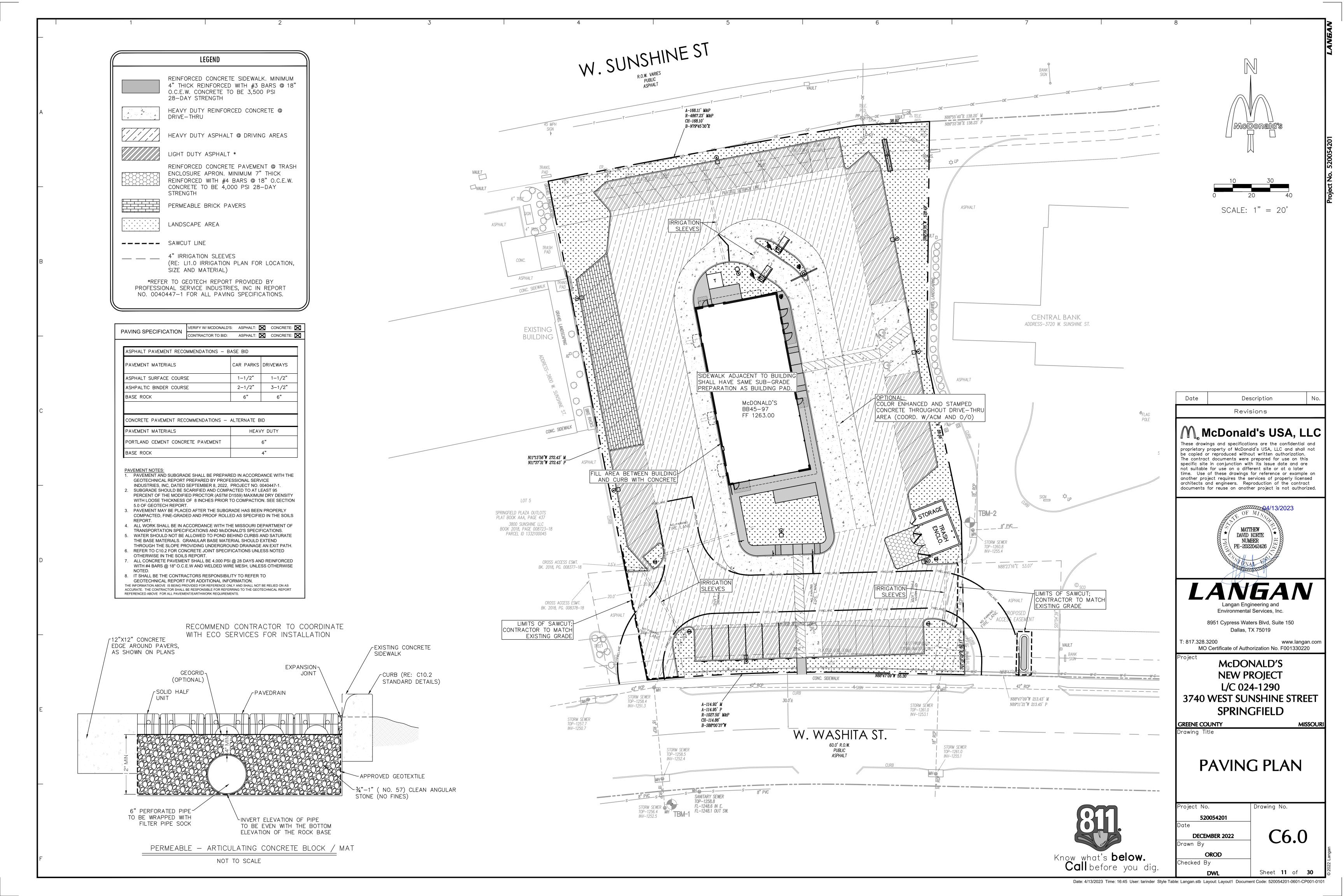
- COORDINATES SHOWN ARE AT BACK OF CURB OR CENTERLINE OF FOUNDATION OR STRIPE.
- VERIFY LOCATION OF CODS AND MENU BOARDS WITH ACM PRIOR TO POURING FOUNDATIONS.
- COORDINATES BASED ON GEODETIC NORTH AS PROVIDED BY SURVEYOR.
- IT IS REQUIRED BY McDONALD'S THAT ALL DRIVE THRU EQUIPMENT AND PAVEMENT IMPROVEMENTS IN THE DRIVE THRU AREA BE FIELD LOCATED AND STAKED BY A PROFESSIONAL SURVEYOR.

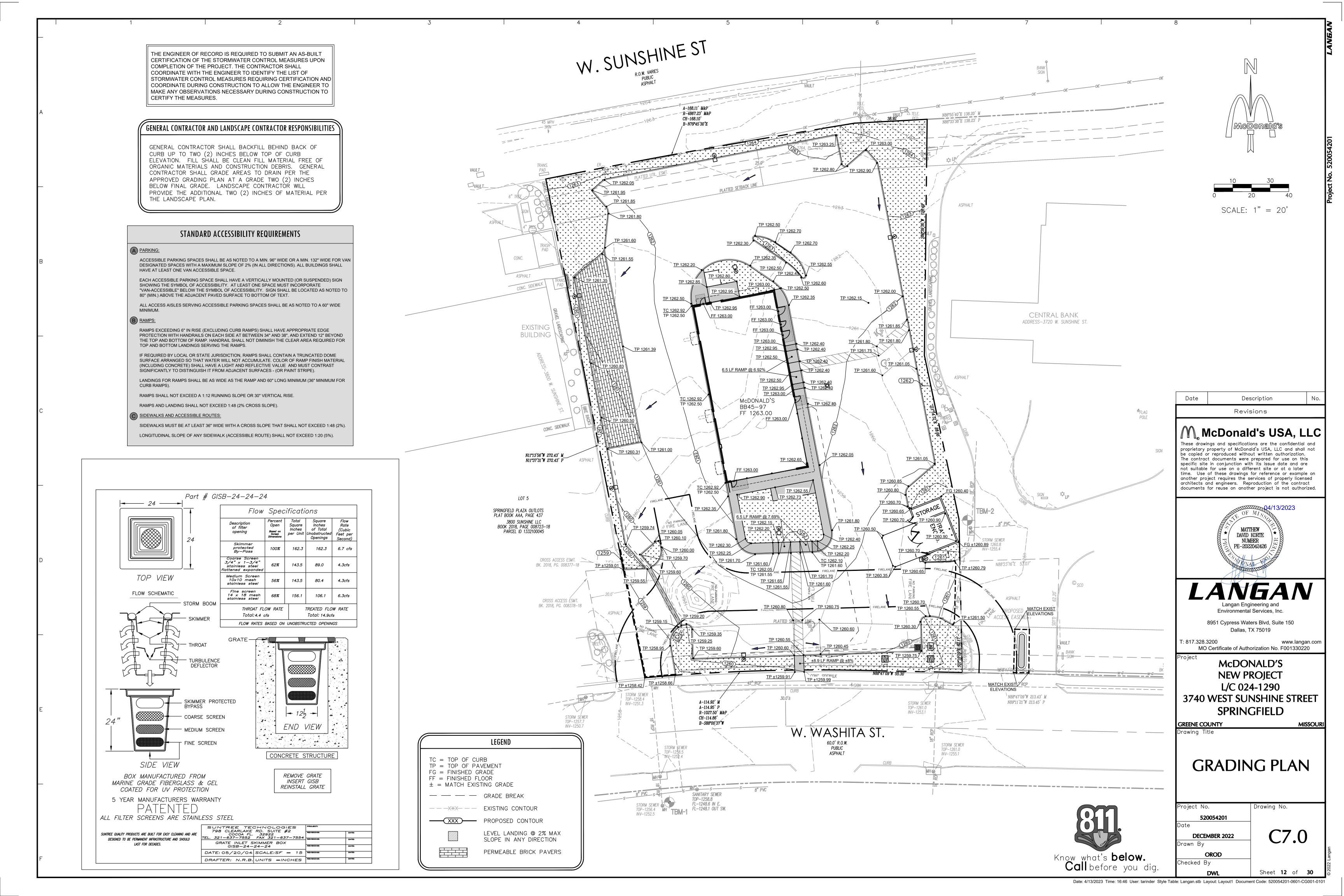
### BENCHMARK

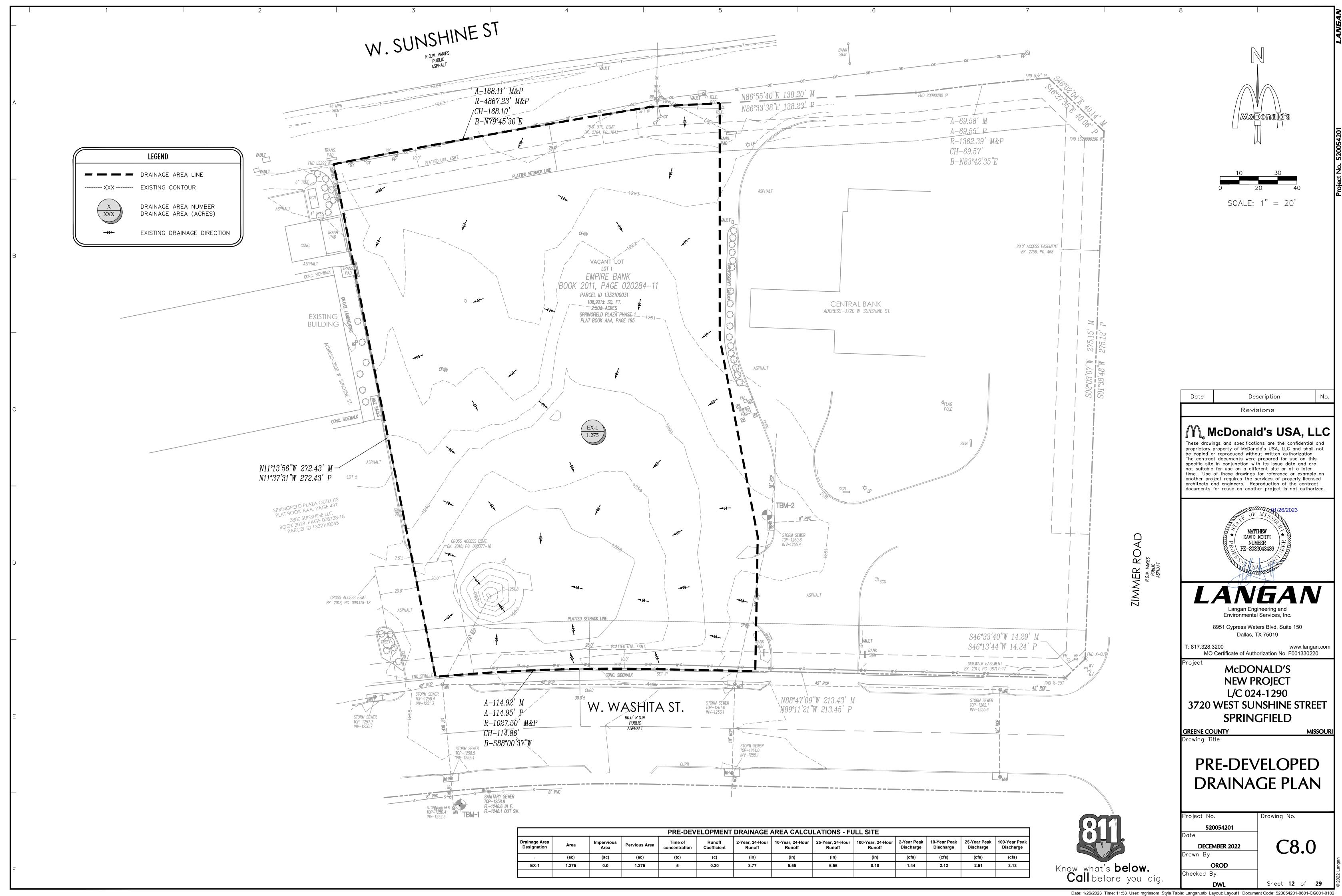
- SITE TEMPORARY BENCHMARKS: 1. A SQUARE CUT IN THE NORTHEAST CORNER OF CONCRETE STORM INLET BOX
- ELEVATION = 1256.46 (NAVD88)
- 2. A SQUARE CUT IN THE NORTHWEST CORNER OF CONCRETE STORM INLET BOC
- ELEVATION = 1260.86 (NAVD88)

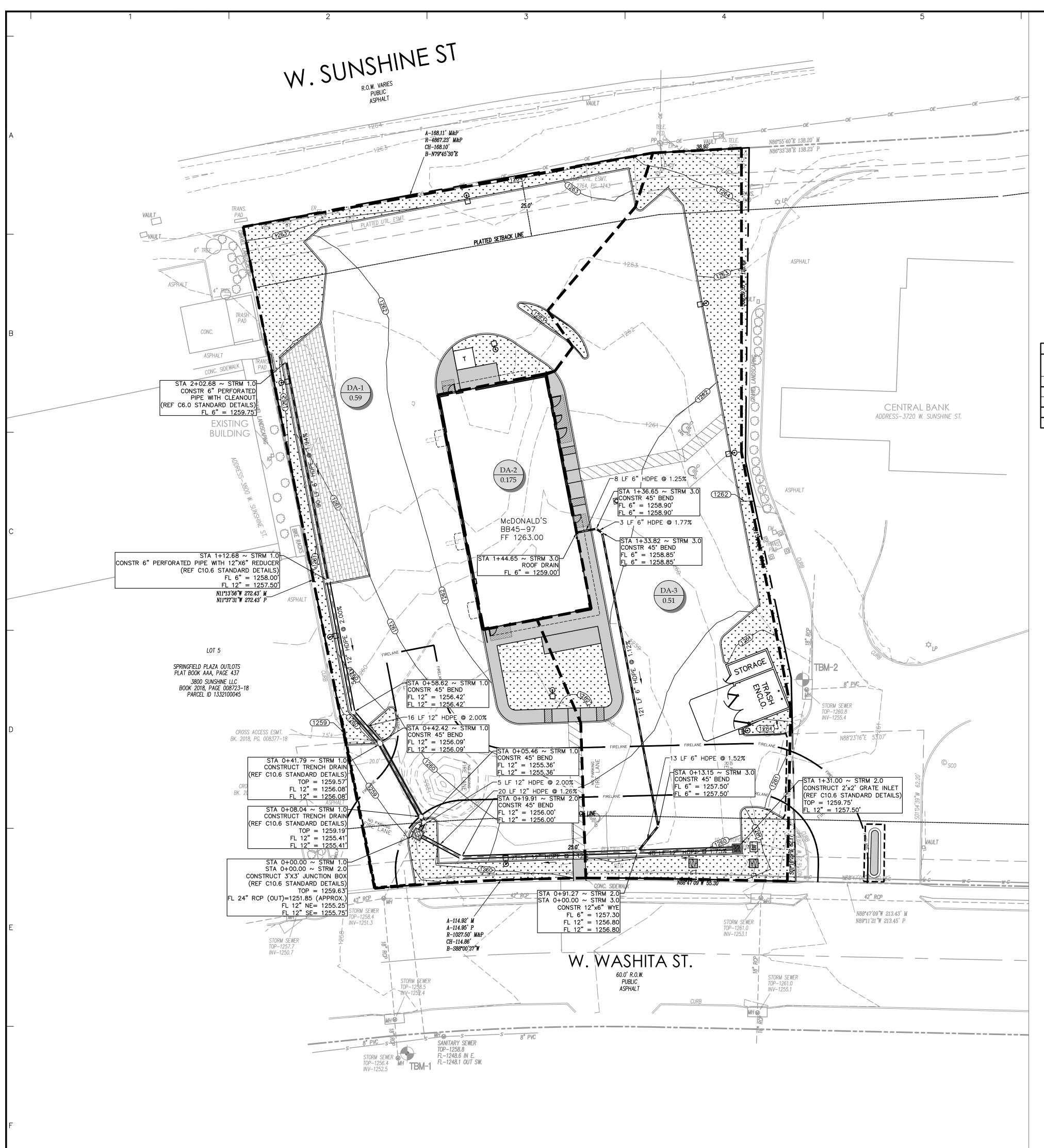
|           |             | F            | Point Table                           |
|-----------|-------------|--------------|---------------------------------------|
| Point #   | Northing    | Easting      | FULL DESCRIPTION                      |
| 1         | 492217.7151 | 1391130.8837 | BUILDING CORNER                       |
| 2         | 492218.8354 | 1391130.5420 | POINT OF CURVATURE                    |
| 3         | 492241.6562 | 1391146.0245 | POINT OF TANGENCY                     |
| 4         | 492241.8223 | 1391146.8911 | POINT OF CURVATURE                    |
| 5         | 492238.8074 | 1391161.5081 | POINT OF TANGENCY                     |
| 6         | 492230.4106 | 1391173.8848 | POINT OF CURVATURE                    |
| 7         | 492217.9427 | 1391182.0887 | POINT OF TANGENCY                     |
| 8         | 492226.0950 | 1391174.6300 | BUILDING CORNER                       |
| 9         | 492252.9711 | 1391163.7865 | POINT OF CURVATURE                    |
| 10        | 492254.7984 | 1391164.3666 | POINT OF COMPOUND CURVATURE           |
| 11        | 492251.4386 | 1391174.9513 | POINT OF TANGENCY                     |
| 12        | 492245.8839 | 1391183.1388 | POINT OF CURVATURE                    |
| 13        | 492233.8402 | 1391191.2566 | POINT OF COMPOUND CURVATURE           |
| 14        | 492233.0524 | 1391189.4627 | POINT OF REVERSE CURVATURE            |
| 15        | 492241.1685 | 1391181.1833 | POINT OF TANGENCY                     |
| 16        | 492215.7162 | 1391120.4485 | STRIPE POINT                          |
| 17        | 492216.8597 | 1391120.2295 | STRIPE POINT OF CURVATURE             |
| 18        | 492244.8667 | 1391129.6953 | STRIPE POINT OF TANGENCY              |
| 19        | 492257.0714 | 1391143.3426 | MERGE POINT STRIPED                   |
| 20        | 492251.1082 | 1391148.6755 | MERGE POINT STRIPED                   |
| 21        | 492242.6268 | 1391149.2376 | MERGE POINT STRIPED                   |
| 22        | 492257.6639 | 1391144.0051 | STRIPE POINT OF CURVATURE             |
| 23        | 492260.1276 | 1391180.8462 | STRIPE POINT OF TANGENCY              |
| 24        | 492254.5729 | 1391189.0337 | STRIPE POINT OF CURVATURE             |
| 25        | 492235.3915 | 1391201.6552 | STRIPE POINT OF TANGENCY              |
| 26        | 492231.4176 | 1391202.4165 | STRIPE POINT                          |
| 27        | 492232.7636 | 1391189.0546 | STRIPE POINT                          |
| 28        | 492220.2945 | 1391194.3655 | STRIPE POINT OF TANGENCY              |
| 29        | 492233.9451 | 1391191.7454 | STRIPE POINT                          |
| 30        | 492222.5046 | 1391149.6937 | RADIUS POINT                          |
| 31        | 492222.6706 | 1391150.5603 | RADIUS POINT                          |
| <i>32</i> | 492235.3018 | 1391164.0035 | RADIUS POINT                          |
| 33        | 492229.7471 | 1391172.1910 | RADIUS POINT                          |
| 34        | 492235.6347 | 1391161.4846 | PRIMARY OUTDOOR DIGITAL MENU BOARD    |
| 35        | 492233.3323 | 1391166.7765 | PRIMARY ORDER HERE CANOPY             |
| 36        | 492223.8530 | 1391176.9812 | DIGITAL OUTDOOR PRE-BROWSE MENU BOARD |
| 37        | 492250.7918 | 1391170.4246 | SECONDARY OUTDOOR DIGITAL MENU BOARD  |
| 38        | 492248.9228 | 1391175.8578 | SECONDARY ORDER HERE CANOPY           |
| 39        | 492239.7903 | 1391186.5222 | DIGITAL OUTDOOR PRE-BROWSE MENU BOARD |
|           |             |              |                                       |











|                              | POST-DEVELOPMENT DRAINAGE AREA CALCULATIONS - FULL SITE |                    |               |                       |                       |                           |                            |                            |                             |                          |                           |                           |                            |
|------------------------------|---|--------------------|---------------|-----------------------|-----------------------|---------------------------|----------------------------|----------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|----------------------------|
| Drainage Area<br>Designation | Area  | Impervious<br>Area | Pervious Area | Time of concentration | Runoff<br>Coefficient | 2-Year, 24-Hour<br>Runoff | 10-Year, 24-Hour<br>Runoff | 25-Year, 24-Hour<br>Runoff | 100-Year, 24-Hour<br>Runoff | 2-Year Peak<br>Discharge | 10-Year Peak<br>Discharge | 25-Year Peak<br>Discharge | 100-Year Peak<br>Discharge |
| -                            | (ac)  | (ac)               | (ac)          | (tc)                  | (c)                   | (in)                      | (in)                       | (in)                       | (in)                        | (cfs)                    | (cfs)                     | (cfs)                     | (cfs)                      |
| DA-1                         | 0.59  | 0.48               | 0.11          | 5                     | 0.90                  | 3.77                      | 5.55                       | 6.56                       | 8.18                        | 2.00                     | 2.94                      | 3.48                      | 4.34                       |
| DA-2                         | 0.175   | 0.175              | 0.0           | 5                     | 0.90                  | 3.77                      | 5.55                       | 6.56                       | 8.18                        | 0.59                     | 0.87                      | 1.03                      | 1.29                       |
| DA-3                         | 0.51  | 0.41               | 0.10          | 5                     | 0.90                  | 3.77                      | 5.55                       | 6.56                       | 8.18                        | 1.73                     | 2.54                      | 3.01                      | 3.75                       |
|                              |   |                    |               |                       |                       |                           |                            |                            |                             |                          |                           |                           |                            |

LEGEND

DRAINAGE AREA NUMBER

DRAINAGE AREA (ACRES)

PERMEABLE BRICK PAVERS

PERVIOUS AREA

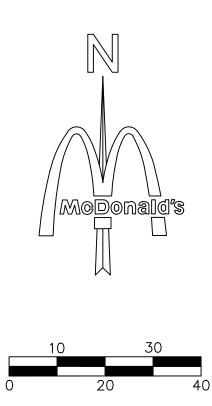
DRAINAGE AREA LINE

EXISTING CONTOUR

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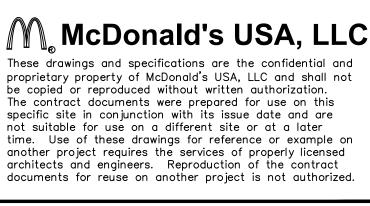
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SCALE: 1'' = 20'

| Date | Description | No. |
|------|-------------|-----|
|      | Revisions   |     |





8951 Cypress Waters Blvd, Suite 150 Dallas, TX 75019

T: 817.328.3200 www.langan.com MO Certificate of Authorization No. F001330220

McDONALD'S NEW PROJECT L/C 024-1290 3740 WEST SUNSHINE STREET SPRINGFIELD GREENE COUNTY MISSOUR

**GREENE COUNTY** Drawing Title

Project No.

Drawn By

Checked By

Date: 4/14/2023 Time: 11:01 User: mgrissom Style Table: Langan.stb Layout: Layout1 Document Code: 520054201-0601-CG001-0103

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# POST-DEVELOPED DRAINAGE PLAN

at's below

Know what's **below. Call** before you dig. Drawing No.

**C8.1** 

Sheet **14** of **30** 

Project No. 520054201

### WATER PIPE MATERIAL SPECIFICATIONS 3/4", 1.5", 2" - TYPE "K" COPPER

6", 8" - C900 DR 18 PVC ALL WATER LINES MUST BE INSTALLED 48" BELOW FINISH GRADE.

WATER LINES SHALL BE INSTALLED ABOVE SEWER LINES WHEN POSSIBLE.

WATER LINES SHALL HAVE 2' VERTICAL CLEARANCE AT SANITARY SEWER CROSSINGS.

SANITARY SEWERLINE MATERIAL **SPECIFICATIONS** 

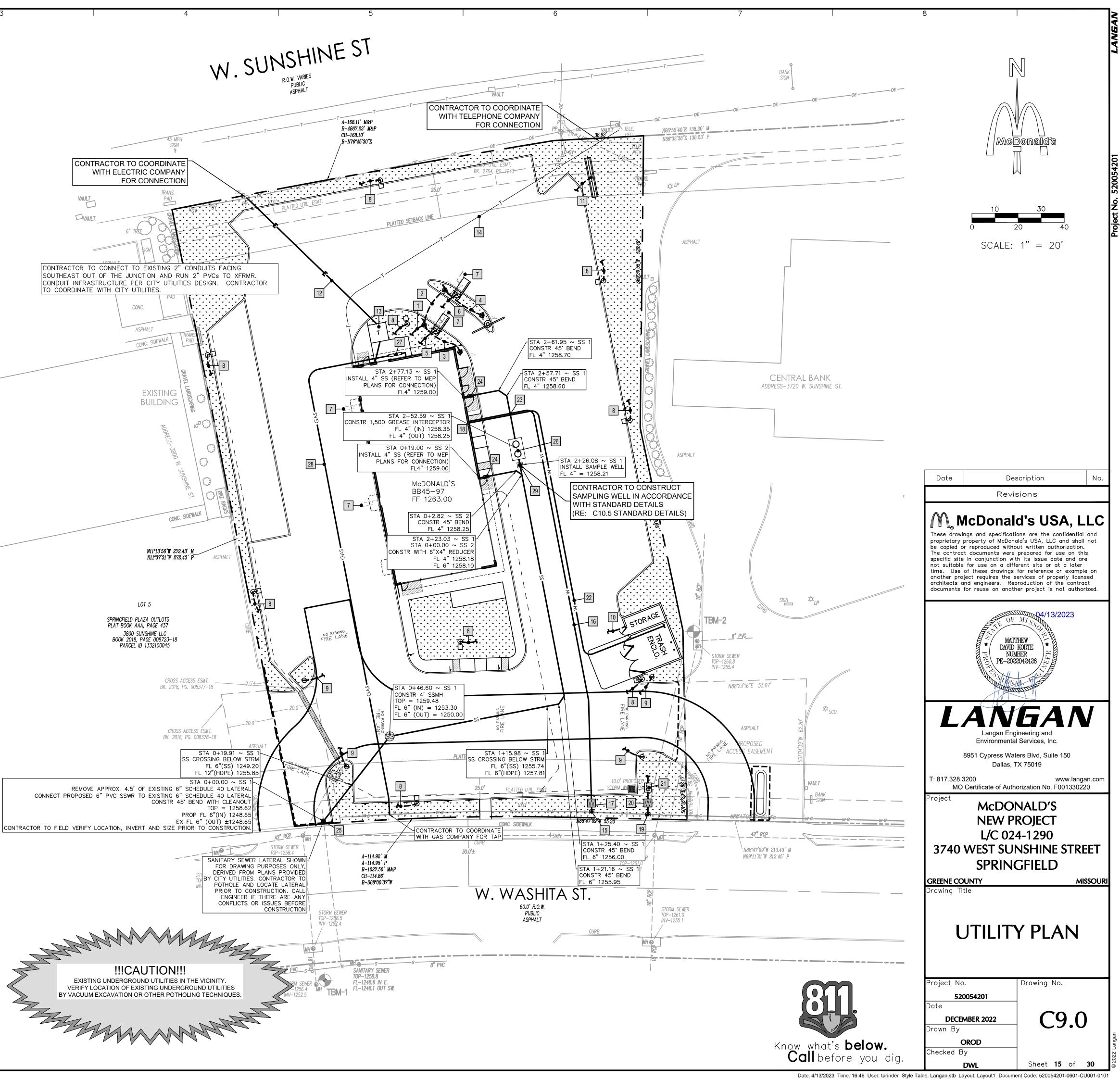
ALL SANITARY SEWER PIPE TO BE SDR-35

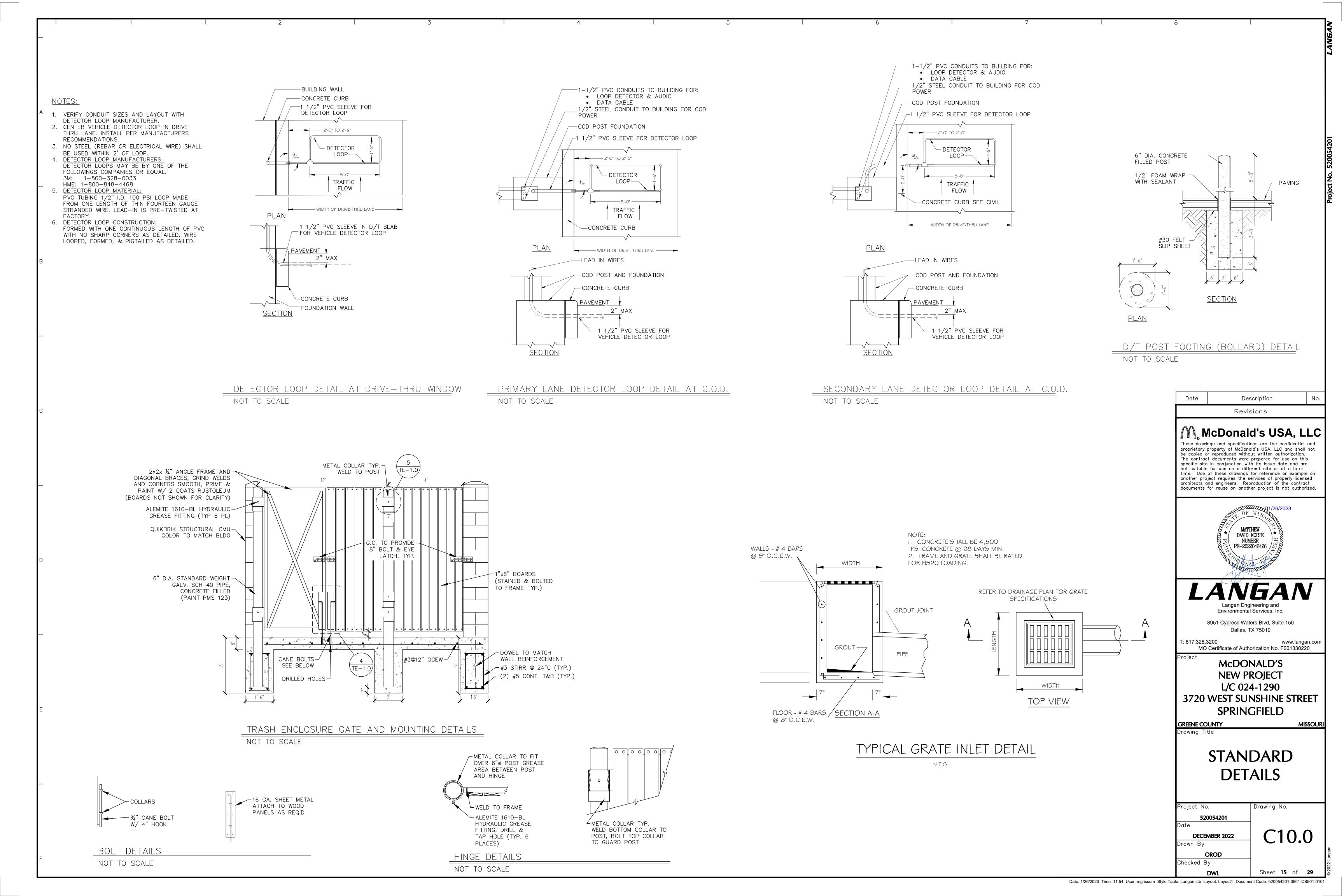
### UTILITY CONTACTS

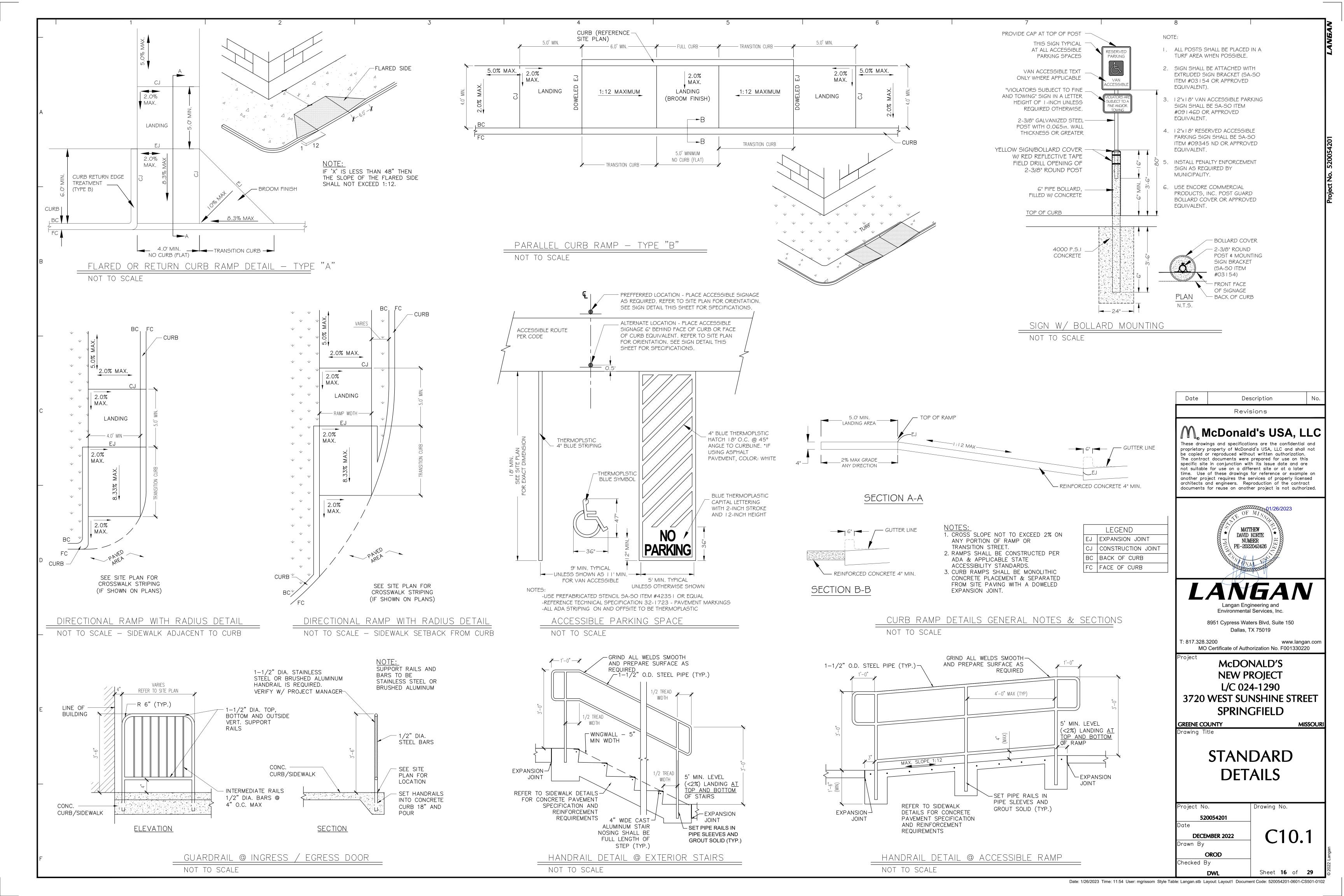
CITY OF SPRINGFIELD CONTACT: MATT TAYLOR PHONE: (417) 864–1000 CITY UTILITIES (WATER, GAS, ELECTRIC) CONTACT: JOSH CÀREY PHONE: (417) 831-8816

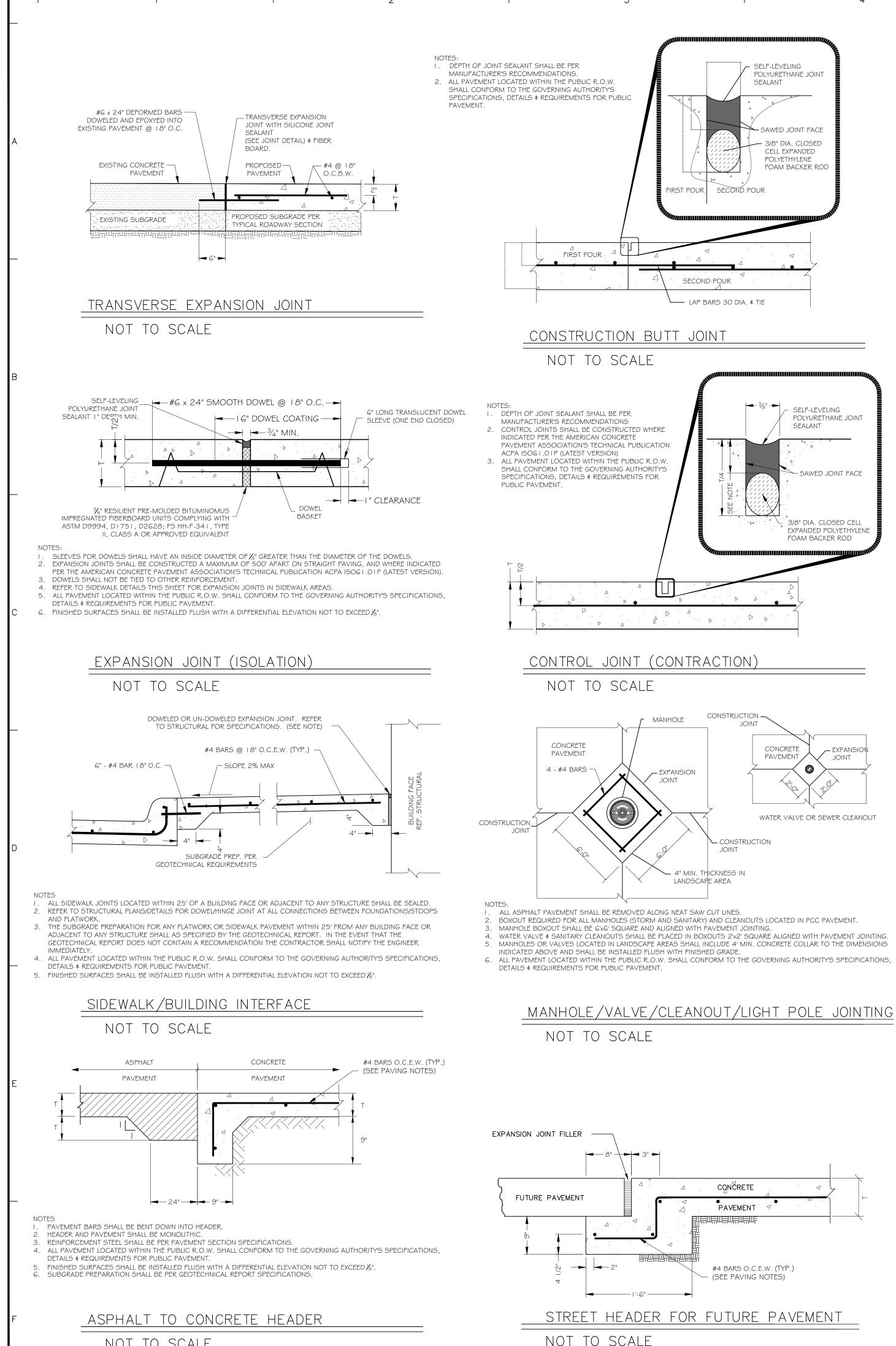
AT&T (TELEPHONE) CONTACT: CINDY JEFFÉRS PHONE: (417) 836-7383

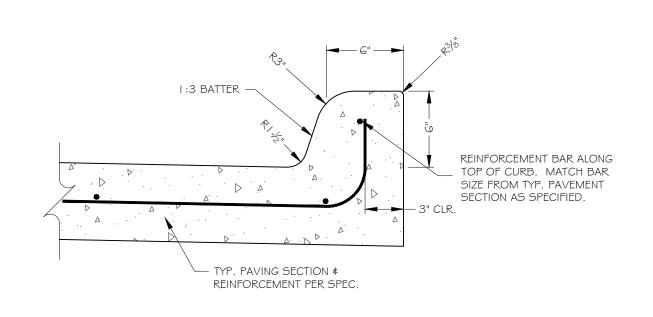
|      | UTILITY LEGEND   |
|------|--|
| MARK | MARK DESCRIPTION   |
| 1    | <ul> <li>(1) 2" PVC CONDUIT (FOR CAT6 DATA CABLES FROM BUILDING) AND</li> <li>(1) 3/4" PVC CONDUIT FROM PANEL CP TO MENU BOARD #1</li> <li>(1) 1-1/4" PVC CONDUIT (FOR CAT6 DATA CABLES FROM BUILDING) AND</li> </ul>  |
| 3    | <ul> <li>(1) 3/4" PVC CONDUIT FROM MENU BOARD #1 TO MENU BOARD #2</li> <li>(1) 1" PVC CONDUIT (FOR CAT 6 DATA CABLES FROM BUILDING) AND</li> <li>(1) 3/4" PVC CONDUIT FROM MENU BOARD #1 TO PRE-BROWSE BOARD #1</li> </ul>   |
| 4    | (1) 1" PVC CONDUIT (FOR CAT6 DATA CABLES FROM BUILDING) AND<br>(1) 3/4" PVC CONDUIT FROM MENU BOARD #2 TO PRE-BROWSE BOARD #2  |
| 5    | <ul> <li>(2) 1-1/2" PVC CONDUITS (ONE EACH FOR COD1 DATA AND LOOP DETECTOR), AN</li> <li>(1) 1/2" STEEL CONDUIT (FROM PANEL CP AND PANEL LP TO COD1)</li> <li>(2) 1-1/2" PVC CONDUITS (ONE EACH FOR COD2 DATA AND LOOP DETECTOR), AN</li> <li>(1) 1/2" STEEL CONDUIT (FROM PANEL CP AND PANEL LP TO COD2)</li> </ul> |
| 7    | $1 - \frac{1}{2}$ SLEEVE FOR VEHICLE LOOP DETECTOR   |
| 8    | 1" CONDUIT WITH WIRE TO/FROM SITE LIGHTING   |
| 9    | ½" CONDUIT WITH WIRE TO DIRECTIONAL SIGN   |
| 10   | 34" CONDUIT WITH WIRE TO TRASH ENCLOSURE / STORAGE BUILDING  |
| 11   | 34" CONDUIT WITH WIRE TO ROAD SIGN   |
| 12   | UNDERGROUND ELECTRICAL SERVICE TO TRANSFORMER<br>(GC TO VERIFY ROUTE, NUMBER & SIZE OF CONDUITS W/ CITY UTILITIES.)  |
| 13   | PROPOSED PRIMARY JUNCTION PER CITY UTILITIES   |
| 14   | UNDERGROUND TELEPHONE/INTERNET SERVICE TO SITE - (2) 4" CONDUITS<br>(GC TO VERIFY ROUTE, NUMBER & SIZE OF CONDUITS W/ TELE. CO.)   |
| 15   | INSTALL 8" X 2" TAPPING SLEEVE AND VALVE ASSEMBLY<br>FOR DOMESTIC SERVICE LINE TO BUILDING   |
| 16   | 2" DOMESTIC WATER LINE TO BUILDING   |
| 17   | 2" DOMESTIC WATER METER (PER LOCAL CODES)  |
| 18   | 2" DOMESTIC BACKFLOW PREVENTION DEVICE IN BUILDING<br>(PER LOCAL CODES)  |
| 19   | INSTALL 8" X 1" TEE WITH 1" VALVE FOR IRRIGATION<br>SERVICE TO SITE  |
| 20   | 1" IRRIGATION METER (PER LOCAL CODES)  |
| 21   | 1" IRRIGATION BACKFLOW PREVENTION DEVICE (PER LOCAL CODES)   |
| 22   | 34" WATER SERVICE TO TRASH ENCLOSURE FOR HOSE BIB  |
| 23   | CONTRACTOR TO MAINTAIN 2' VERTICAL CLEARANCE BETWEEN WATER<br>AND SANITARY SEWER LINE CROSSINGS  |
| 24   | TWO-WAY SANITARY SEWER CLEANOUT WITH CAST IRON COVER<br>(H-20 RATED WHEN IN PAVED AREAS)   |
| 25   | SINGLE SANITARY SEWER CLEANOUT WITH CAST IRON COVER<br>(H-20RATED WHEN IN PAVED AREAS)   |
| 26   | 1,500 GALLON GREASE TRAP (PER LOCAL CODES)   |
| 27   | PROPOSED GAS METER (VERIFY USAGE W/ ACM)<br>(GC TO VERIFY LOCATION W/ GAS COMPANY  |
| 28   | GAS SERVICE LINE TO BUILDING (VERIFY USAGE W/ ACM)<br>(GC TO VERIFY ROUTE & SIZE W/ GAS COMPANY)   |
| 29   | PROPOSED SAMPLE WELL (RE: C10.5 STANDARD DETAILS)  |



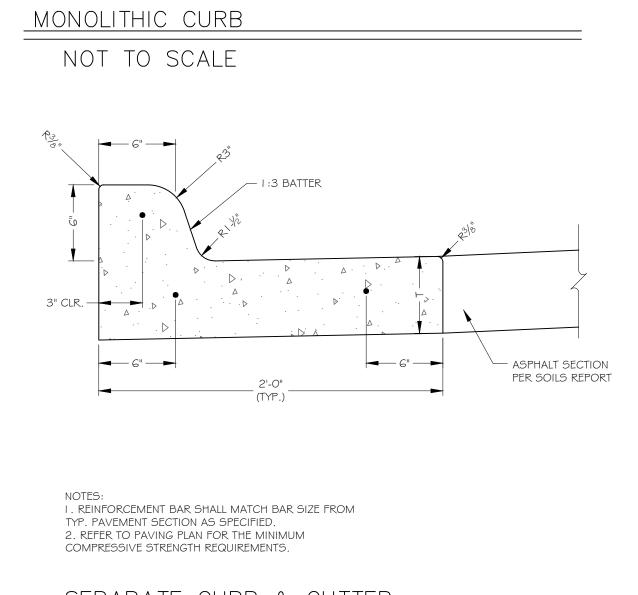


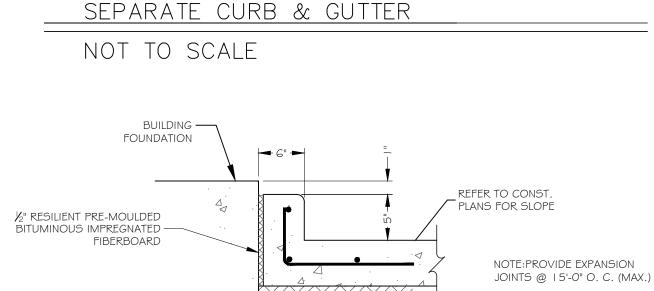




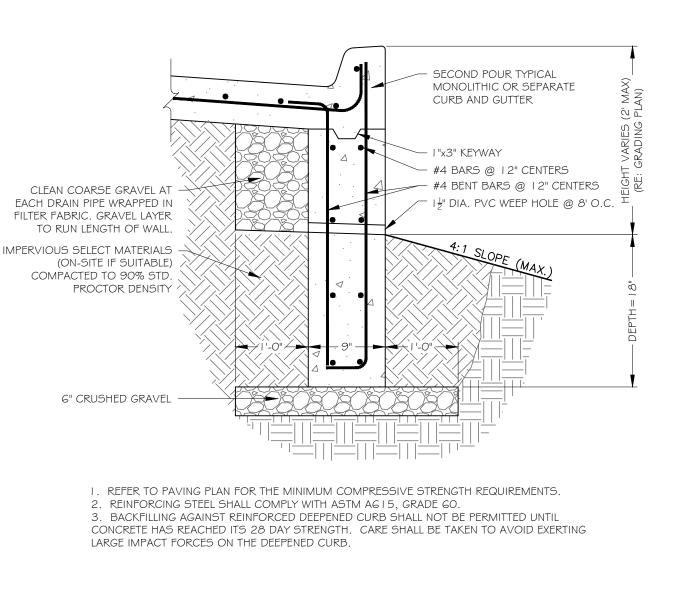


. ALL CURBS ARE CONSTRUCTED OF PORTLAND CEMENT CONCRETE UNLESS OTHERWISE SHOWN. GRADES SHALL BE MEASURED AT BACK OF CURB UNLESS OTHERWISE SPECIFIED. 3. ALL PAVEMENT LOCATED WITHIN THE PUBLIC R.O.W. SHALL CONFORM TO THE GOVERNING AUTHORITYS SPECIFICATIONS, DETAILS & REQUIREMENTS FOR PUBLIC PAVEMENT 4. CONTROL JOINTS THROUGH CURB SHALL BE SEALED IN THE PAVEMENT AND TERMINATE AT THE GUTTER



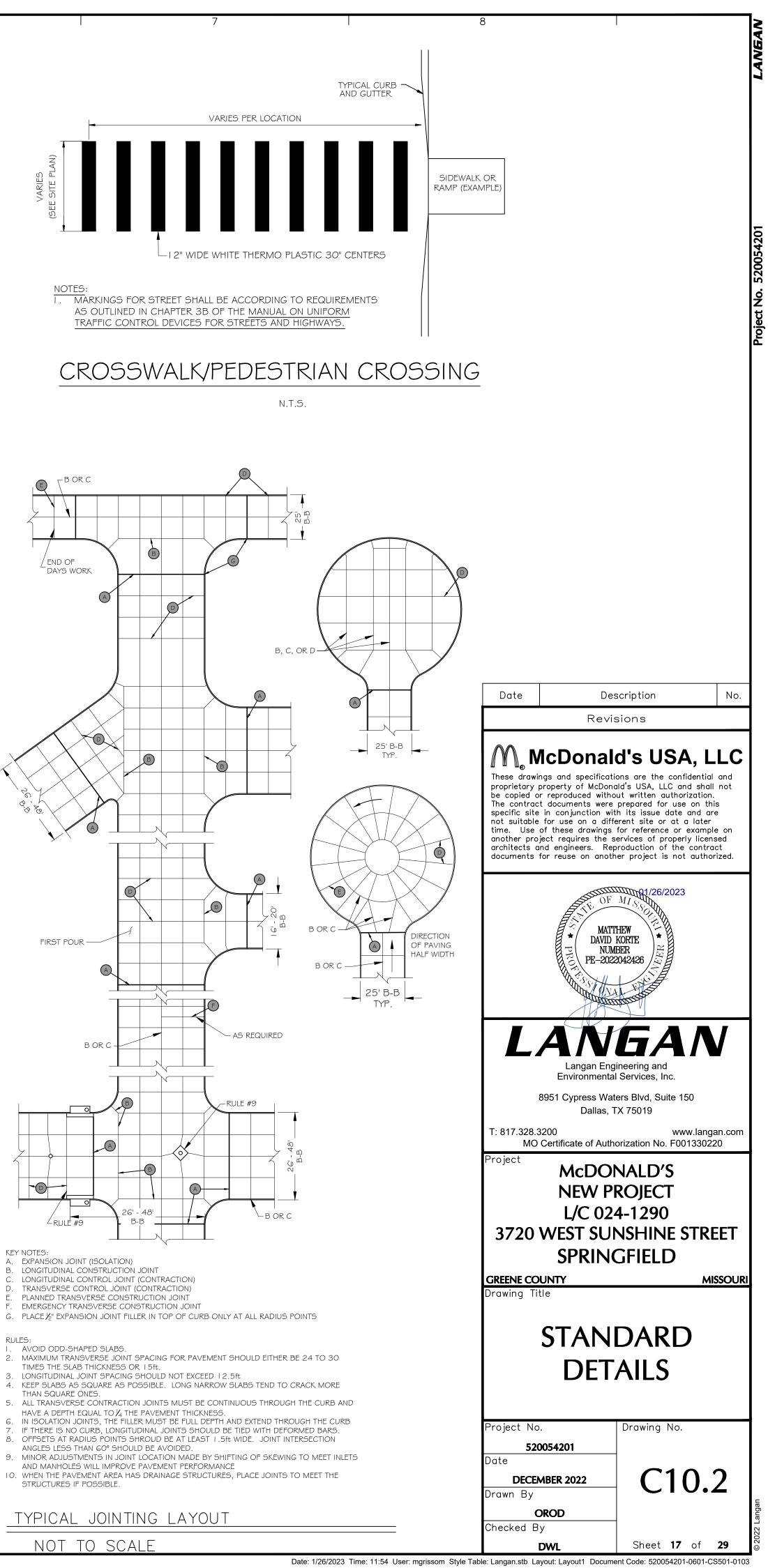


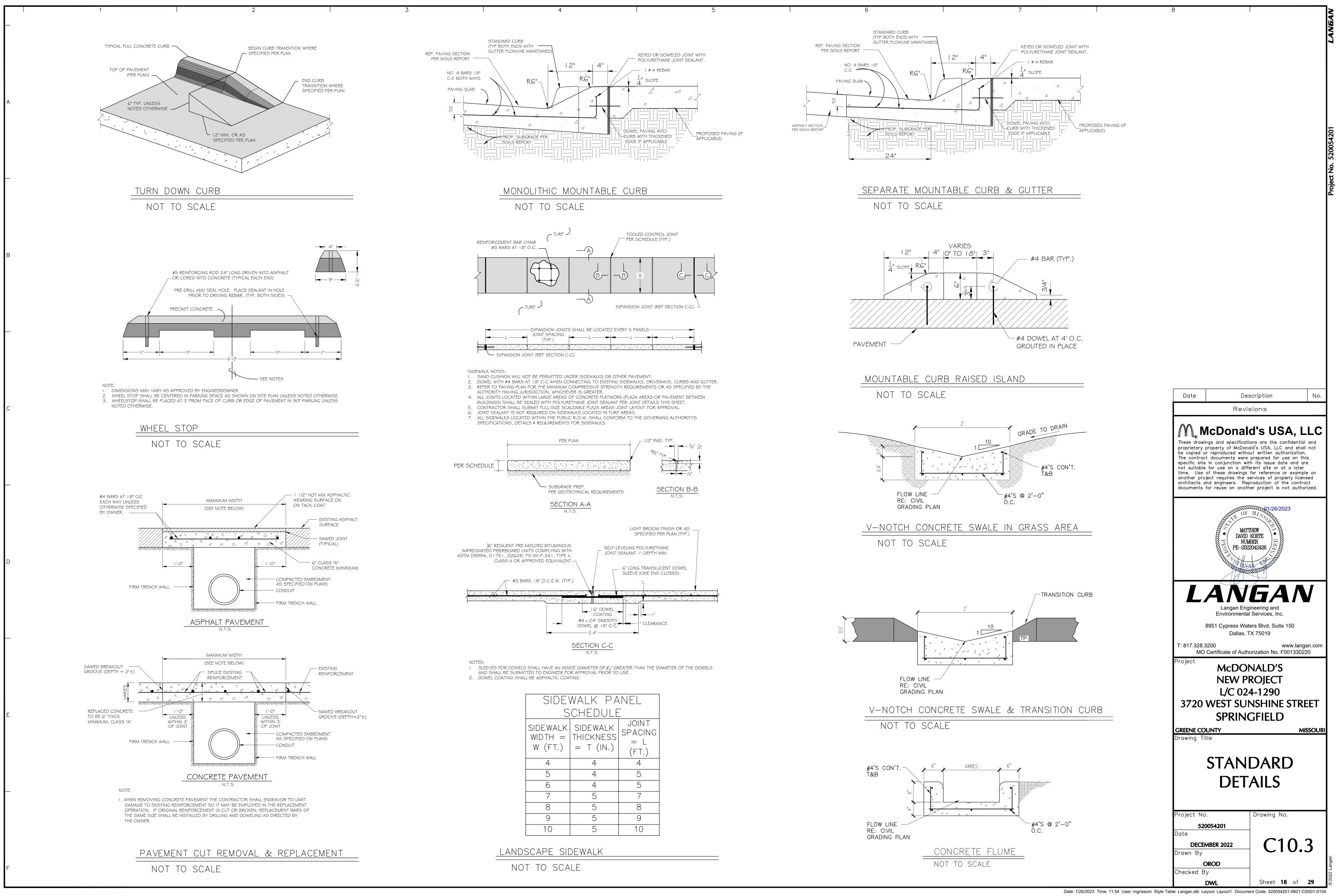
- SUBGRADE PER SOILS REPORT VERTICAL CURB @ DRIVE THRU NOT TO SCALE



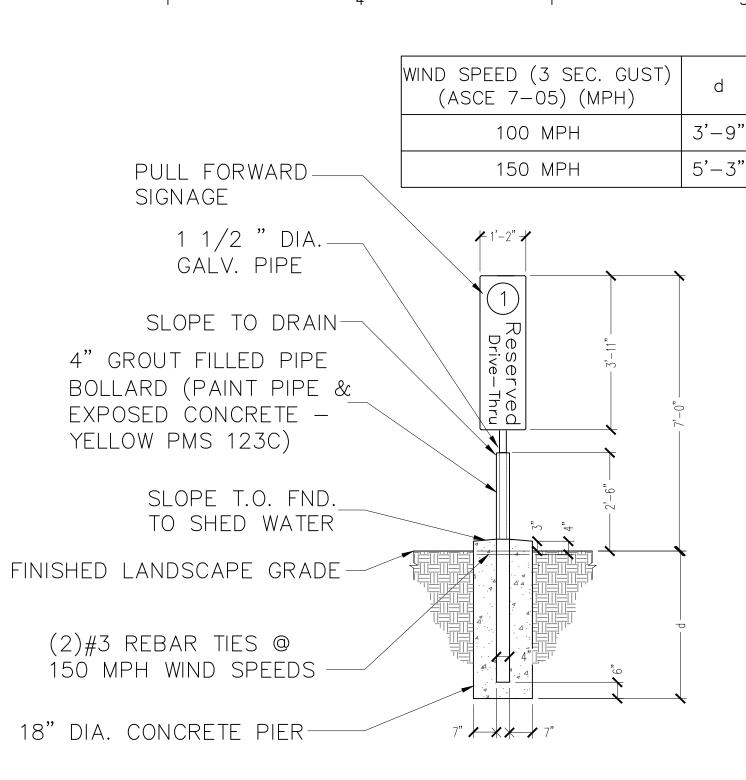
DEEPENED CURB NOT TO SCALE

RULES:

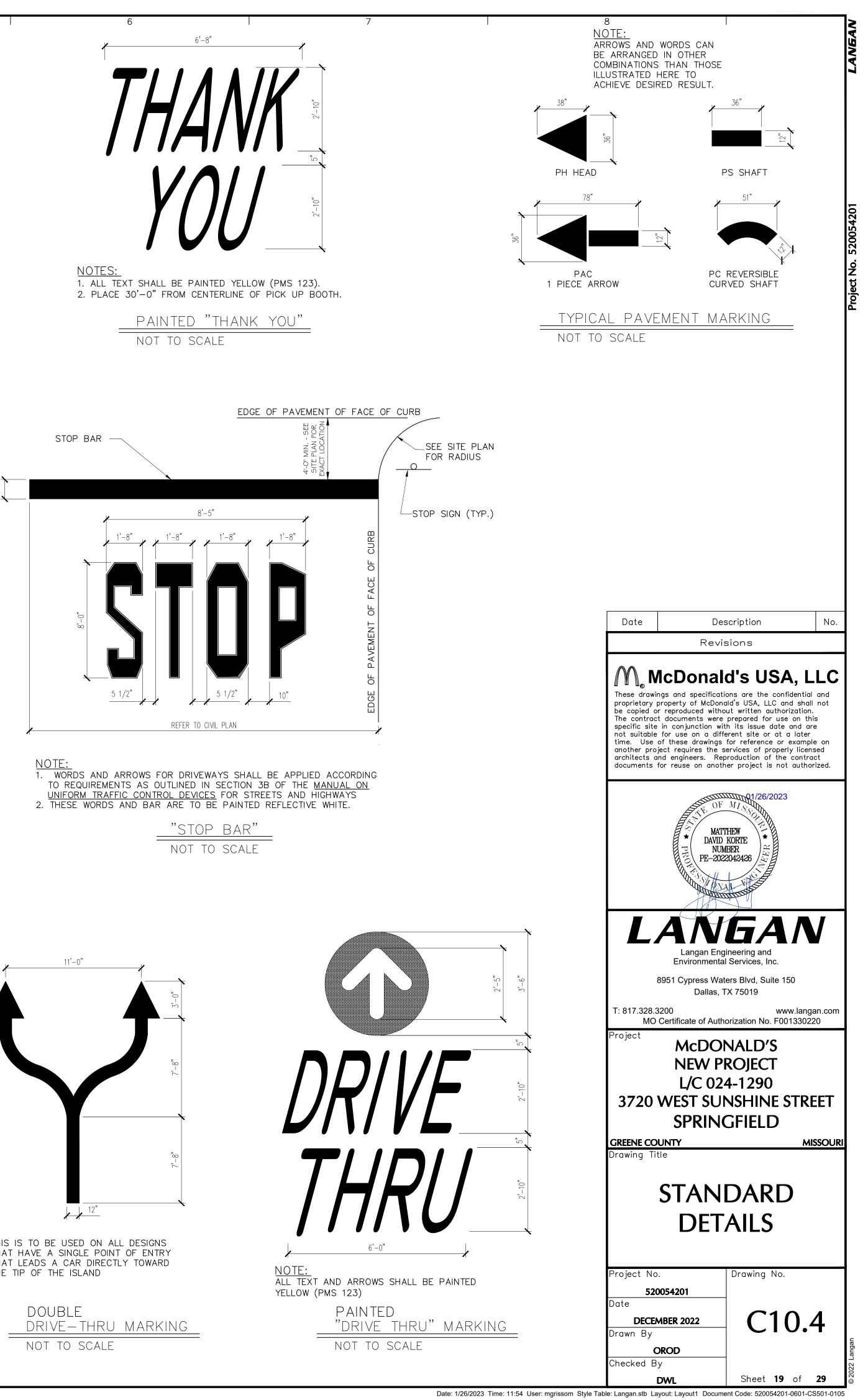


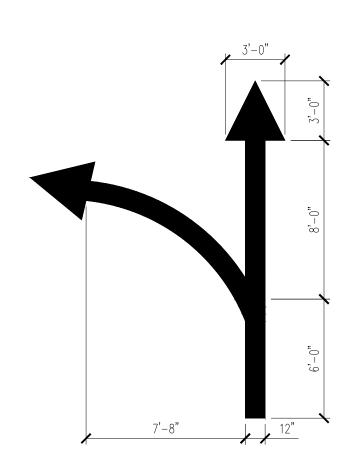


PULL FORWARD-SIGNAGE 1 1/2 "DIA.\_\_\_ **/** 1'−2" **/** GALV. PIPE SLOPE TO DRAIN-Rese 4" GROUT FILLED PIPE BOLLARD (PAINT PIPE & Thru EXPOSED CONCRETE -YELLOW PMS 123C) 1/2" FOAM WRAP --PATCH CONCRETE WITH SEALANT TO MATCH EXISTING CONCRETE PAVING #30 FELT SLIP SHEET (2)#3 REBAR TIES @ 150 MPH WIND SPEEDS 7" / / / 7" 18" DIA. CONCRETE PIER OOSP & MOBILE PARKING SIGN DETAIL (IN PAVING AREAS) N.T.S. LOT DIRECTIONAL MARKINGS: OBJECTIVE OF STANDARDIZATION: • ROUND CIRCLE (DIRECTIONAL ARROW): THE ARROWS SHOULD BE McDONALD'S OBJECTIVE IS TO STANDARDIZE OPTIMUM MARKINGS IN THE SPACED EVERY 40 TO 60 FEET. THIS ALLOWS EVENLY POSITIONED UNITED STATES TO ASSIST CUSTOMERS IN EASILY FINDING THE DRIVE-THRU ARROWS THROUGHOUT THE LOT. RATIONALE: THE STRATEGIC LANES. THE MARKING POSITIONS ARE TO GUIDE THEM FROM ANY ENTRANCE POSITIONING ALLOWS THE CAR TO REACH AN ARROW AND OFF IN THE ON THE PARKING LOT TO THE DRIVE-THRU LANE USING THE OPTIMUM DISTANCE SEE THE NEXT DIRECTIONAL ARROW. THIS LEADS THEM IN THE ROUTE. THIS IS TYPICALLY AWAY FROM THE PRIMARY DRIVE AISLE, MOST DESIRE DIRECTION. COMMON ENTRANCE OR AROUND THE BUILDING TO INCREASE STACKING IN IF THERE ARE 5 OR MORE ARROWS ROUTING SOMEONE TO THE THE LANE. THE STANDARDIZATION FROM REGION TO REGION ASSISTS GUESTS DRIVE-THRU THEN PLAN THE CORRECT PLACEMENT TO ADD THE WORD WITH CONVENIENTLY FINDING THE DRIVE-THRU'S. DRIVE-THRU AND POSITION THE ARROW CENTERED ABOVE THE WORD "DRIVE" SIMILAR TO THE ENTRANCE. THIS IS TO BE CENTERED BETWEEN STANDARD LOT STRIPING STENCILS AND PAINT COLOR: THE ARROWS ON THE PARKING LOT. AN EXAMPLE IS IT TAKES EIGHT THESE ARE AVAILABLE FROM BETH BELL AT PAVEMENT STENCIL COMPANY, ARROWS TO GUIDE SOMEONE FROM THE ENTRANCE TO THE DRIVE-THRU 4347-A AEROSPACE ROAD SE, ROANOKE, VA, 24014, 1-800-250-5547. ENTRANCE. YOU MIGHT DECIDE TO PLACE THE WORD DRIVE-THRU AT THE FOLLOWING DESCRIPTION IS WHAT YOU WOULD SAY AS YOU ORDER. THE 4TH ARROW POSITION. RATIONALE: THE LONGER THE RUN TO THE SHE HAS NO PART NUMBERS ASSOCIATED WITH THESE: DRIVE-THRU THIS REAFFIRMS THE COLOR AND DIRECTIONAL ARROWS ARE STEERING THEM IN THE RIGHT DIRECTION FOR THE DRIVE-THRU LOT STRIPING STENCILS DESCRIPTION ENTRANCE. DRIVE THRU ROUND CIRCLE (DIRECTIONAL ARROW) DRIVE-THRU ENTRANCE: THANK YOU • THE DOUBLE HEADED ARROW FOR DOUBLE DRIVE-THRU SHOULD BE DOUBLE HEADED ARROW FOR A DOUBLE DRIVE-THRU IS MADE UP OF THREE POSITIONED TO DIRECT TRAFFIC APPROPRIATELY TO EITHER LANE AS COMPONENTS. THEY APPROACH TO THE ISLAND. EACH ARROW MUST BE CUSTOMIZED PC SHAFT 12"W X 36"L, A PC REVERSIBLE TO FIT THE LANE CONFIGURATION. RATIONALE: EACH CUSTOMER READS CURVED SHAFT 12"W X 51"L FROM DIFFERENT LEVELS SOME BY LOT MARKINGS, SOME AT EYE LEVEL PH ARROW HEAD 38"L X 36"W AND OTHERS LOOK ABOVE THE VEHICLES. BY ADDRESSING ALL OF LANE STRIPE IS A 6" WIDE STRIPE DONE BY THE LOT STRIPING COMPANY. THESE METHODS IN BRANDING, THE USE IS SIMPLIFIED FOR THE MAJORITY OF THE GUESTS. THE DOUBLE ARROW INCREASES THE USAGE 39" ADA HANDICAP TEMPLATE OF THE OUTSIDE LANE IN OFF PEAK TIMES HELPING THE RESTAURANT PAINT COLOR: THIS IS FOR ALL DRIVE-THRU DIRECTIONAL STRIPING MAXIMIZE THE CAPACITY. INCLUDING THE PAINTED STRIPE FOR THE LANE. THE PAINT COLOR SHOULD MATCH PMS 123 YELLOW. PARKING LOT STRIPING NOT IN THE DRIVE-THRU: PROVIDE YELLOW PAINT ON ALL DRIVE-THRU MARKINGS UNLESS NOTED OTHERWISE. • ANY LOT STRIPING OTHER THAN THE DRIVE-THRU SHOULD BE WHITE. IF THE CITY CODE REQUIRES BLUE WITH THE HANDICAP PARKING STALLS GUIDING PRINCIPLES THAT IS AN ACCEPTABLE DEVIATION. RATIONALE: THIS HELPS SUBTLY IDENTIFY WHAT IS A DRIVE-THRU MARKING FROM THE PARKING LOT ALL ENTRANCES TO THE LOT MARKING AND CREATES A RUNWAY PATH TO THE LANE ENTRANCE. • THE WORD DRIVE THRU IS PLACED AT ALL ENTRANCES TO THE LOT THE ENTRANCES WILL ALL HAVE A WHITE INGRESS/ EGRESS ARROW FOR APPROXIMATELY 25'-30' FROM THE CURB OR SIDEWALK. THEY SHOULD THE CUSTOMER TO EASILY IDENTIFY IF IT IS A ONE WAY OR TWO-WAY BE CENTERED IN THE DRIVEWAY (ON THE INGRESS SIDE OF THE DRIVE ENTRANCE. THESE ARE WITHIN 10FT FROM INGRESS POINT AND IS AISLE IF THERE IS TWO WAY TRAFFIC). RATIONALE: THIS ALLOWS THE DESIGNED TO BE SEEN CLEARLY BEFORE A CAR MAKES A TURNING CUSTOMER TO MOVE SAFELY ONTO THE LOT AND SEE THE DRIVE-THRU COMMITMENT. RATIONALE: THE CONSISTENCY HERE WILL HELP DIRECTIONAL ARROW WHEN THEY ARE SAFELY OFF THE STREET. CUSTOMERS IDENTIFY THE FLOW OF TRAFFIC ON ALL ENTRANCES FOR • ROUND CIRCLE (DIRECTIONAL ARROW): THE CIRCLE ARROW SHOULD BE THE CONSUMER WHEN THEY ARE AT A DECISION POINT. CENTERED ABOVE THE WORD "DRIVE" APPROXIMATELY 5 FEET FURTHER ANY ADDITIONAL WHITE ARROWS NEEDED SHOULD BE POSITIONED IN INTO THE PARKING LOT. RATIONALE: THE STANDARD YELLOW COLOR BETWEEN THE DRIVE-THRU DIRECTIONAL MARKINGS. WITH THE WORD DRIVE-THRU SEEN FIRST AND THE ROUND ARROW • ANY WORDING NEEDED OTHER THAN FOR THE DRIVE-THRU AREA BEGINS TO BRAND THE MARKINGS. SHOULD BE IN WHITE AND POSITIONED SO IT DOES NOT INTERFERE WITH THE DRIVE-THRU MARKINGS. SHOULD YOU HAVE ADDITIONAL QUESTIONS FEEL FREE TO CONTACT THE McDONALD'S RESTAURANT DESIGN GROUP AT THE HOME OFFICE FOR FURTHER CLARIFICATIONS.



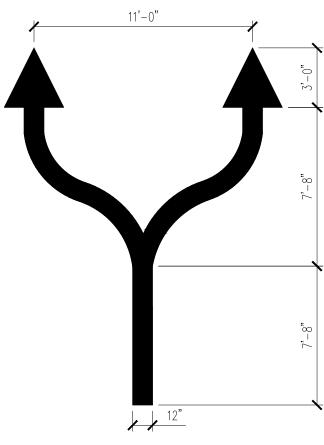






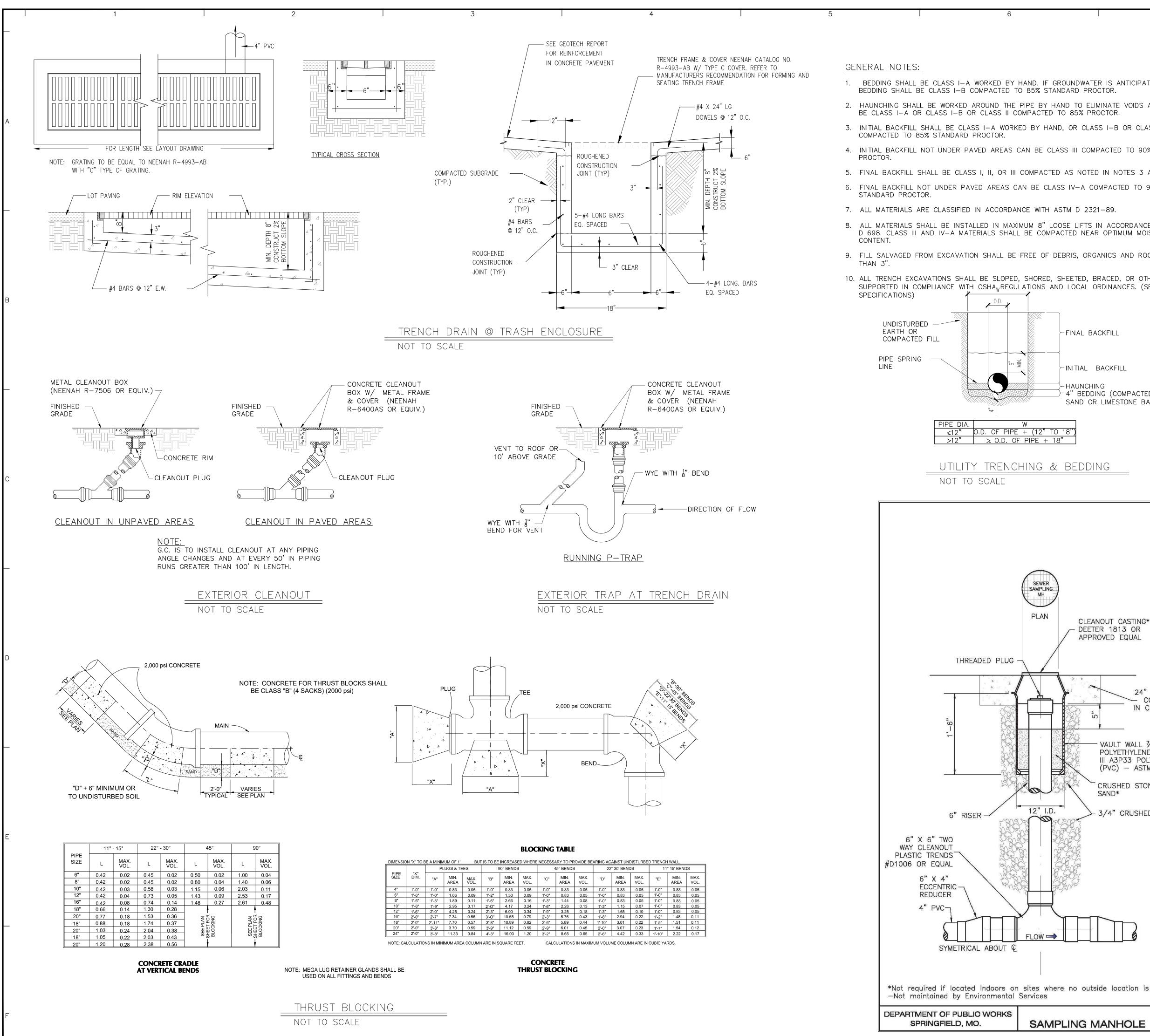
THIS IS TO BE USED ON ANY DESIGN THAT WOULD REQUIRE A "T" GATEWAY. ONLY DESIGNS THAT DO NOT HAVE A SINGLE ENTRY THAT LEADS A CAR RIGHT AT THE DECISION POINT OF THE TIP OF THE ISLAND. ONLY ONE OF OUR STANDARDS TEMPLATES HAS THIS DESIGN.

> T-GATEWAY DRIVE-THRU MARKING NOT TO SCALE



THIS IS TO BE USED ON ALL DESIGNS THAT HAVE A SINGLE POINT OF ENTRY THAT LEADS A CAR DIRECTLY TOWARD THE TIP OF THE ISLAND

| DOUBLE       |         |
|--------------|---------|
| DRIVE-THRU   | MARKING |
| NOT TO SCALE |         |



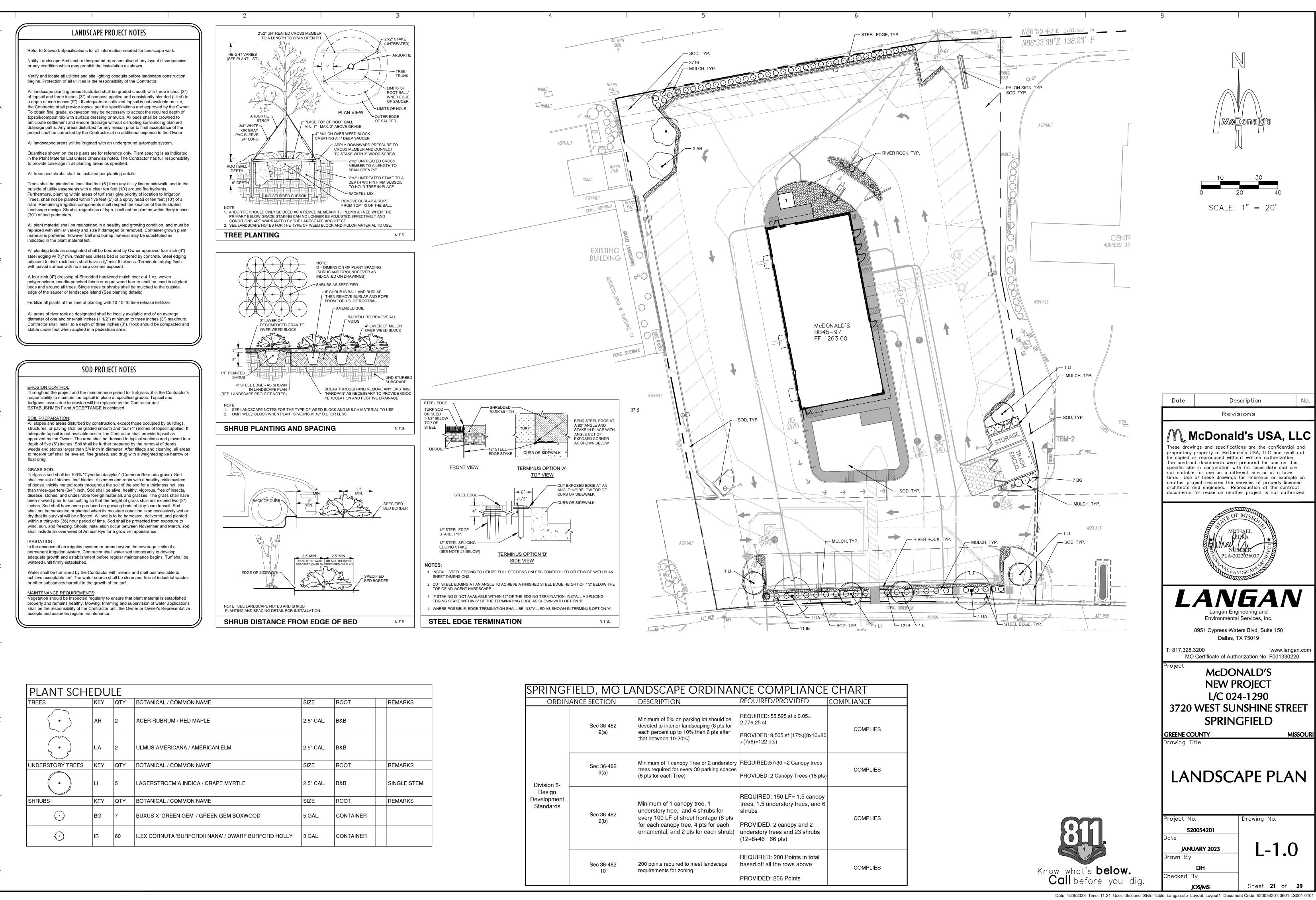
|   |  | GROUT BOTTOM OF MANHOLE TO 1/2 DIAMETER<br>AT PIPE AND SLOPE GROUT 2" TOWARD INVERT.   |
|---|--|--|
| INDWATER IS ANTICIPATED, THEN<br>RD PROCTOR.  |  |  |
| TO ELIMINATE VOIDS AND SHALL<br>85% PROCTOR.  |  | - 30" DIA. MIN. OPENING TRAFFIC-DUTY   |
| OR CLASS I-B OR CLASS II  | PLAN   | FRAME AND COVER BASS & HAYS<br>#VMR 30 (OR APPROVED EQUAL).  |
| III COMPACTED TO 90% STANDARD   |  | OUTSIDE GROUT.<br>INSTALL NO MORE THAN I   |
| S NOTED IN NOTES 3 AND 4.<br>IV-A COMPACTED TO 95%  | E-Z STICK  | CONCRETE ADJUSTMENT RING. THE<br>RING SHALL BE NO MORE THAN 6"<br>INCHES.  |
| 1 D 2321-89.  |  | ALL JOINTS IN MANHOLE TO HAVE "O"<br>RING RUBBER GASKETS.  |
| LIFTS IN ACCORDANCE WITH ASTM<br>ED NEAR OPTIMUM MOISTURE   |  | WHERE SEWER RUNS STRAIGHT THROUGH A<br>STANDARD MANHOLE, THE PIPE SHALL BE<br>CONTINUOUS. THE TOP 1/2 OF THE PIPE SHALL  |
| RIS, ORGANICS AND ROCKS LARGER  | <sup>+</sup><br><br><br><br><br><br><br><br><br><br><br><br><br> | BE BROKEN OUT AFTER COMPLETION.  |
| ETED, BRACED, OR OTHERWISE<br>OCAL ORDINANCES. (SEE   |  | PIPE SHALL BE CUT OUT FLUSH WITH<br>INSIDE FACE OF WALL.   |
|   |  | NOTE: WATERSTOP SLEEVE SHALL BE<br>INCORPORATED INTO THE PRECAST<br>MANHOLE SECTIONS.  |
| INAL BACKFILL   | SECTION  | MINIMUM SLAB THICKNESS, 8" FOR 14' DEPTH<br>WITH #4 BARS @ 12" O.C.E.W. INCREASE<br>THICKNESS 1" FOR EACH 4' OF DEPTH GREATER<br>THAN 14'.   |
| NITIAL BACKFILL   |  | -CAST MANHOLE RISERS AND SECTIONS SHALL<br>FORCED CONCRETE AND SHALL CONFORM TO  |
| AUNCHING<br>" BEDDING (COMPACTED<br>AND OR LIMESTONE BASE)  | ASTM S   | SEWER MANHOLE DETAIL   |
|   | SANTANT  | N.T.S.   |
|   |  |  |
| BEDDING   |  | Date Description No.<br>Revisions  |
|   |  | be copied or reproduced without written authorization.<br>The contract documents were prepared for use on this<br>specific site in conjunction with its issue date and are<br>not suitable for use on a different site or at a later<br>time. Use of these drawings for reference or example on<br>another project requires the services of properly licensed<br>architects and engineers. Reproduction of the contract<br>documents for reuse on another project is not authorized. |
| CLEANOUT CASTING*<br>— DEETER 1813 OR<br>APPROVED EQUAL   |  | MATTHEW<br>DAVID KORTE<br>NUMBER<br>PE-2022042426  |
| 24" X 24" X 8"<br>CONC. IF NOT<br>IN CONC. DRIVE*<br>م<br>VAULT WALL 7/6"± 1/6" THICK.<br>POLYETHYLENE – ASTM D-1248, |  | LANGAN<br>Langan Engineering and<br>Environmental Services, Inc.<br>8951 Cypress Waters Blvd, Suite 150<br>Dallas, TX 75019  |
| III A3P33 POLYVINYL CHLORIDE<br>(PVC) – ASTM D-1784, 14114C*  |  | T: 817.328.3200 www.langan.con<br>MO Certificate of Authorization No. F001330220<br>Project  |
| CRUSHED STONE OR<br>SAND*   |  | McDONALD'S<br>NEW RESTAURANT   |
| 3/4" CRUSHED LIMESTONE*   |  | L/C 024-1290<br>3720 WEST SUNSHINE STREET  |
|   |  | SPRINGFIELD  |
|   |  | GREENE COUNTY MISSOU<br>Drawing Title  |
|   |  | STANDARD   |
|   |  | DETAILS  |
|   |  |  |
|   |  | Project No. Drawing No.  |
|   |  | 520054201<br>Date  |
| no outside location is available.   |  | <u>ресемвея 2022</u><br>Drawn By   |
| ADOPTED: 9-20-<br>NG MANHOLE SAN-18   | -2012  | OROD<br>Checked By   |

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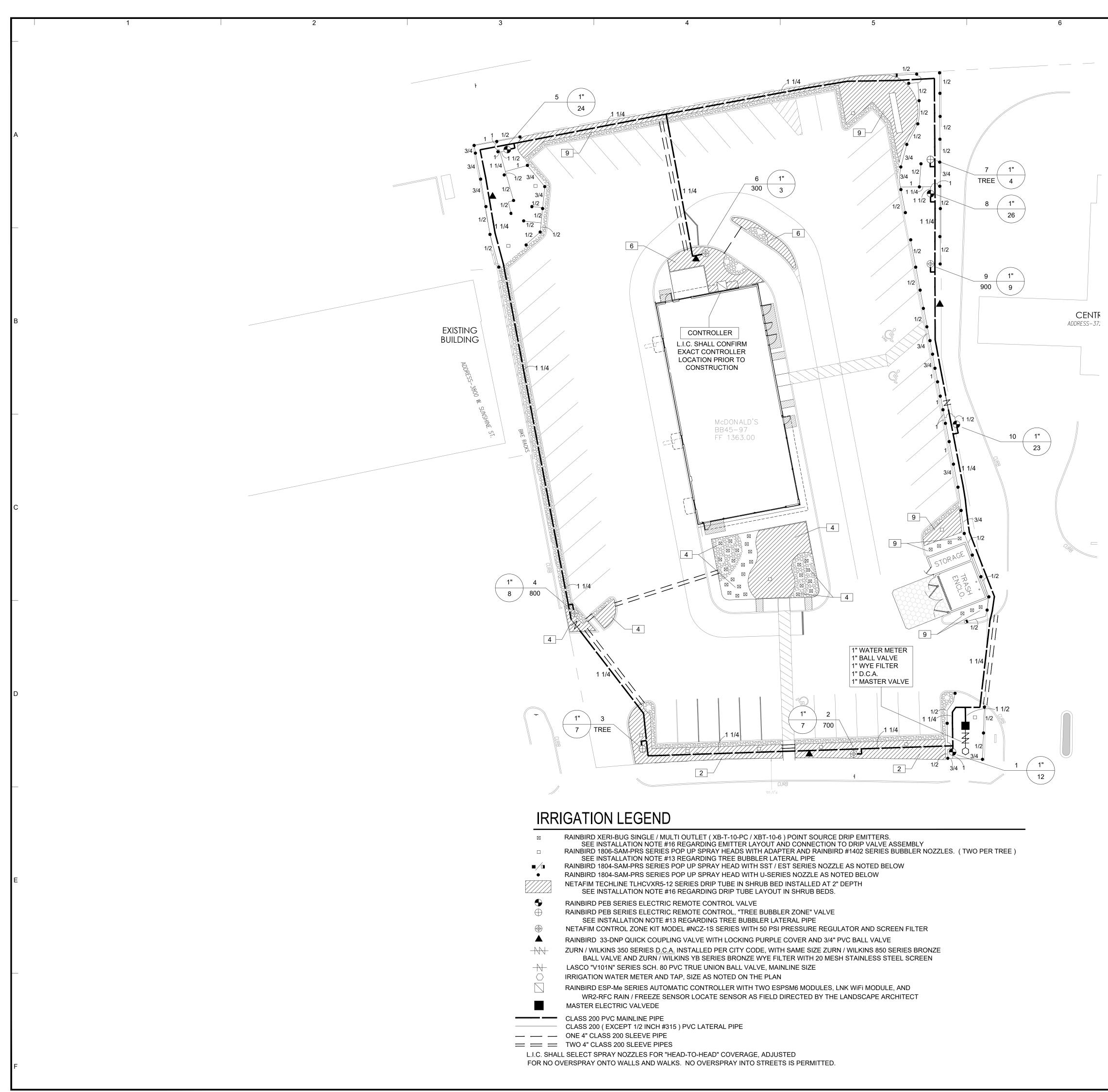
Sheet **21** of **30** 



| TREES               | KEY | QTY | BOTANICAL / COMMON NAME                             | SIZE      | ROOT      | REMARKS    |
|---------------------|-----|-----|---|-----------|-----------|------------|
| ·                   | AR  | 2   | ACER RUBRUM / RED MAPLE                             | 2.5" CAL. | B&B       |            |
| · ~                 | UA  | 2   | ULMUS AMERICANA / AMERICAN ELM                      | 2.5" CAL. | B&B       |            |
| UNDERSTORY TREES    | KEY | QTY | BOTANICAL / COMMON NAME                             | SIZE      | ROOT      | REMARKS    |
| $\bigcirc$          | LI  | 5   | LAGERSTROEMIA INDICA / CRAPE MYRTLE                 | 2.5" CAL. | B&B       | SINGLE STE |
| SHRUBS              | KEY | QTY | BOTANICAL / COMMON NAME                             | SIZE      | ROOT      | REMARKS    |
| $\overbrace{\cdot}$ | BG  | 7   | BUXUS X 'GREEN GEM' / GREEN GEM BOXWOOD             | 5 GAL.    | CONTAINER |            |
| $\odot$             | IB  | 60  | ILEX CORNUTA 'BURFORDII NANA' / DWARF BURFORD HOLLY | 3 GAL.    | CONTAINER |            |

| ORDINANCE SECTION   |   | DESCRIPTION   | REQUIRED/PROVIDED   | COMPLIANCE |
|---|---|---|---|------------|
| Sec 36-482<br>9(a)Sec 36-482<br>9(a)Division 6-<br>Design<br>Development<br>StandardsSec 36-482<br>9(b)Sec 36-482<br>9(b)Sec 36-482<br>10 | Minimum of 5% on parking lot should be<br>devoted to interior landscaping (8 pts for<br>each percent up to 10% then 6 pts after<br>that between 10-20%) | REQUIRED: 55,525 sf x 0.05=<br>2,776.25 sf<br>PROVIDED: 9,505 sf (17%)(8x10=80<br>+(7x6)=122 pts)   | COMPLIES  |            |
|   | Minimum of 1 canopy Tree or 2 understory<br>trees required for every 30 parking spaces<br>(6 pts for each Tree)   | REQUIRED:57/30 =2 Canopy trees<br>PROVIDED: 2 Canopy Trees (18 pts)   | COMPLIES  |            |
|   |   | Minimum of 1 canopy tree, 1<br>understory tree, and 4 shrubs for<br>every 100 LF of street frontage (6 pts<br>for each canopy tree, 4 pts for each<br>ornamental, and 2 pts for each shrub) | REQUIRED: 150 LF= 1.5 canopy<br>trees, 1.5 understory trees, and 6<br>shrubs<br>PROVIDED: 2 canopy and 2<br>understory trees and 23 shrubs<br>(12+8+46= 66 pts) | COMPLIES   |
|   | Sec 36-482200 points required to meet landscapeb10requirements for zoning   |   | REQUIRED: 200 Points in total<br>based off all the rows above<br>PROVIDED: 206 Points   | COMPLIES   |

MISSOUR



|   | 8  |  | LANGAN                |
|---|--|--|-----------------------|
|   |  | 30<br>30<br>30<br>20<br>40<br>1'' = 20'  | Project No. 520054201 |
|   |  | scription No   |                       |
|   |  | ald's USA, LLC and shall not<br>but written authorization.<br>prepared for use on this<br>th its issue date and are<br>ferent site or at a later<br>for reference or example on<br>services of properly licensed<br>production of the contract |                       |
|   | THE STORES   | EW DAVID<br>PRTE<br>MBER<br>22042426   |                       |
|   | Environmenta<br>8951 Cypress Wa<br>Dallas, <sup>-</sup><br>T: 817.328.3200<br>Project McDON<br>NEW P<br>L/C 02<br>3720 WES | gineering and<br>I Services, Inc.<br>ters Blvd, Suite 150<br>TX 75019<br>www.langan.cor<br>NALD'S<br>ROJECT<br>24—1290<br>SUNSHINE<br>CET  | n                     |
| Pole  | SPRIN<br>GREENE COUNTY<br>Drawing Title  | MISSOU   | RI                    |
| SULTANTS<br>NSULTING, AND<br>ANAGEMENT<br>OFFICE: 940.243.2364<br>FAX: 940.382.2475<br>es@jamespoleirrigation.com | 520054201<br>Date<br>01/04/2023<br>Drawn By<br>GA<br>Checked By<br>AM  | Sheet 12 of 12   | © 2022 Langan         |

Date: 1/4/2023 Time: 09:53 User: lucer Style Table: Langan.stb Layout: LI1.0 Document Code: 520054201-0601-LS001-0101



### **INSTALLATION NOTES**

- 1. COORDINATE IRRIGATION INSTALLATION WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE COVERAGE WITH MINIMUM OVERSPRAY. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE MANDATED IRRIGATION ORDINANCES AND CODES. AND WILL SECURE ALL REQUIRED PERMITS. L.I.C. SHALL PAY ANY ASSOCIATED FEES UNLESS OTHERWISE NOTED. ALL LOCAL CODES SHALL PREVAIL OVER ANY DISCREPANCIES HEREIN AND SHALL BE ADDRESSED BEFORE ANY CONSTRUCTION BEGINS.
- 2. NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN THE ROOT ZONE OF EXISTING TREES. HAND-DIG ONLY, WITHIN THE ROOT ZONES OF EXISTING TREES. NO ROOTS OVER 1" DIAMETER SHALL BE CUT. STAKE ALL PROPOSED TRENCH ROUTES NEAR EXISTING TREES FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE DIGGING BEGINS.
- 3. CONFIRM MINIMUM STATIC WATER PRESSURE OF 65 PSI AT THE HIGHEST ELEVATION OF THE SYSTEM LIMITS, AND MAXIMUM STATIC WATER PRESSURE OF 90 P.S.I. AT THE LOWEST ELEVATION OF THE SYSTEM LIMITS AT LEAST 7 DAYS BEFORE BEGINNING WORK. IF STATIC WATER PRESSURE IS OUTSIDE THE RANGE STATED ABOVE, DO NOT PROCEED UNTIL DIRECTED BY THE LANDSCAPE ARCHITECT.
- 4. LATERAL PIPE SHALL BE INSTALLED AT A MINIMUM DEPTH OF 12 INCHES. MAINLINE PIPE AND WIRES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18 INCHES. NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN EXISTING TREE ROOT ZONES. WHEN HAND - TRENCHING WITHIN EXISTING TREE ROOT ZONES, NO ROOTS LARGER THAN 1" DIAMETER SHALL BE CUT.
- 5. UNSLEEVED PIPES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY ONLY. INSTALL THESE PIPES IN ADJACENT LANDSCAPED AREAS. 6. ELECTRIC POWER SHALL BE PROVIDED WITHIN FIVE FEET OF CONTROLLER LOCATION BY GENERAL CONTRACTOR. L.I.C. TO
- PROVIDE FINAL HARD-WIRE TO CONTROLLER. 7. 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF #14 GAUGE, U.F. APPROVED FOR DIRECT BURIAL, SINGLE CONDUCTOR
- "IRRIGATION WIRE". WIRE SPLICES SHALL INCLUDE DBY CONNECTORS AS MANUFACTURED BY 3M COMPANY. ALL FIELD SPLICES SHALL BE LOCATED IN A ROUND VALVE BOX OF SUFFICIENT SIZE TO ALLOW INSPECTION. 8. VALVE BOXES SHALL BE INSTALLED FLUSH WITH GRADE, SUPPORTED BY BRICKS IF NEEDED, WITH 3 INCHES OF CLEAN PEA
- GRAVEL LOCATED BELOW THE VALVE. USE 12" x 17" RECTANGULAR VALVE BOXES WITH PURPLE LID FOR QUICK COUPLING VALVES, AND 10" ROUND BOXES FOR ELECTRIC VALVES UNLESS NOTED OTHERWISE. D.C.A., WITH UPSTREAM BALL VALVE AND WYE FILTER SHALL BE BOXED AND LOCATED ACCORDING TO LOCAL CODE.
- 9. USE RIGID SCH. 80 PVC SWING JOINT ASSEMBLIES TO CONNECT ALL QUICK COUPLERS. 10. ALL SPRAY HEADS SHALL BE CONNECTED WITH A 12" MINIMUM LENGTH OF 1/2" FLEX PVC. THE FLEX PVC SHALL BE SOLVENT
- WELDED TO SCHEDULE 40 PVC FITTINGS WITH WELD-ON #795 SOLVENT AND #P-70 PRIMER. 11. PROVIDE ONE QUICK COUPLER KEY WITH SWIVEL HOSE ELL FOR EVERY SIX Q.C. VALVES. (MINIMUM ONE SET).
- 12. CONTRACTOR IS TO CONTACT APPROPRIATE AUTHORITIES AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
- 13. LATERAL PIPE TO TREE STREAM BUBBLER HEADS IS OMITTED FOR GRAPHIC CLARITY. CONNECT TREE BUBBLER HEADS TO VALVES AS SHOWN WITH CLASS 200 PVC PIPE SIZED TO ALLOW A MAXIMUM FLOW VELOCITY OF 5 FEET PER SECOND 14. THE PROPOSED LOCATIONS OF ALL ABOVE- GROUND EQUIPMENT INCLUDING BACKFLOW PREVENTORS, CONTROLLERS AND
- WEATHER SENSORS SHALL BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE BEFORE THESE ITEMS ARE INSTALLED. 15. ALL HEADS SHALL BE INSTALLED A MINIMUM OF 4" FROM PAVEMENT EDGES. ( 6" OR GREATER WHERE REQUIRED BY LOCAL CODE
- FINAL HEAD ADJUSTMENTS BY THE CONTRACTOR SHALL INCLUDE THE ADDITION OF CHECK VALVES WHERE NEEDED TO PREVENT EXCESSIVE LOW HEAD DRAINAGE. THE CONTRACTOR SHALL BUDGET FOR, AND INSTALL CHECK VALVES FOR UP 10 % OF THE TOTAL NUMBER OF HEADS WHEN NEEDED, WITH NO ADDITIONAL COST TO THE OWNER.
- 16. WHERE SHOWN ON THE PLANS, MASS SHRUB / GROUNDCOVER BEDS SHALL INCLUDE NETAFIM TECHLINE TLHCVXR SERIES DRIP TUBE WITH PRE-INSTALLED .53 GPH DRIP EMITTERS AT 12" INTERVALS (TLHCVXR5-12), INSTALLED IN CENTER-FED GRIDS WITH ROWS SPACED 18" APART. INDIVIDUAL DRIP TUBE RUNS SHALL NOT EXCEED 150 L.F. PVC LATERAL "TRUNK" LINES SHALL BE INSTALLED 10" DEEP. DRIP TUBE SHALL BE SET 2" BELOW FINISHED SOIL GRADE ( NOT INCLUDING MULCH LAYER ), SECURELY STAKED EVERY 18". NETAFIM #TL050MFV-1 FLUSH VALVES SHALL BE INSTALLED AT THE FARTHEST POINTS FROM THE ZONE VALVE. USE 17 MM BARBED FITTINGS FOR DRIP LINE CONNECTIONS, SET THE MAXIMUM OPERATING PRESSURE AT 50 PSI. TECHLINE CV SHALL BE INSTALLED PERPENDICULAR TO SLOPE FACE. INSTALL TLCV IN-LINE CHECK VALVES FOR EVERY 4.5 FEET OF DRIP LINE ELEVATION CHANGE WITHIN THE ZONE. USE NETAFIM STAPLES (#TLS6) TO SECURE TUBING EVERY 18" EACH DRIP ZONE SHALL INCLUDE ONE MAINTENANCE "FLAG" WHICH SHALL CONSIST OF A 12" POP-UP SPRAY HEAD AND COMPLETELY CLOSED SPRAY NOZZLE. THE POP-UP HEAD SHALL BE CONNECTED TO THE DRIP ZONE PIPE, SET FLUSH WITH GRADE, AND LOCATED AT THE FARTHEST DISTANCE FROM THE DRIP VALVE ASSEMBLY. INSTALL THE "FLAG" HEAD ADJACENT TO EDGING OR IN LOW PLANTINGS FOR EASE OF VIEWING. SPARSLEY SPACED, INDIVIDUAL SHRUB PLANTINGS MAY INCLUDE RAINBIRD #XBT-10 SINGLE-OUTLET EMITTERS OR RAINBIRD #XBT-10-6 MULTI-OUTLET EMITTERS INSTALLED AS DETAILED. PROVIDE MINIMUM TWO, 1 G.P.H. OUTLETS PER INDIVIDUAL SHRUB. SINGLE / MULTI-OUTLET EMITTERS MAY BE CONNECTED TO THE SAME DRIP ZONE VALVE WHICH SERVES ADJACENT DRIP TUBE GRIDS, UNLESS NOTED OTHERWISE.

### **IRRIGATION LEGEND**

RAINBIRD XERI-BUG SINGLE / MULTI OUTLET ( XB-T-10-PC / XBT-10-6 ) POINT SOURCE DRIP EMITTERS. SEE INSTALLATION NOTE #16 REGARDING EMITTER LAYOUT AND CONNECTION TO DRIP VALVE ASSEMBLY RAINBIRD 1806-SAM-PRS SERIES POP UP SPRAY HEADS WITH ADAPTER AND RAINBIRD #1402 SERIES BUBBLER NOZZLES. (TWO PER TREE) SEE INSTALLATION NOTE #13 REGARDING TREE BUBBLER LATERAL PIPE RAINBIRD 1804-SAM-PRS SERIES POP UP SPRAY HEAD WITH SST / EST SERIES NOZZLE AS NOTED BELOW ∎∕⊡ RAINBIRD 1804-SAM-PRS SERIES POP UP SPRAY HEAD WITH U-SERIES NOZZLE AS NOTED BELOW NETAFIM TECHLINE TLHCVXR5-12 SERIES DRIP TUBE IN SHRUB BED INSTALLED AT 2" DEPTH SEE INSTALLATION NOTE #16 REGARDING DRIP TUBE LAYOUT IN SHRUB BEDS. RAINBIRD PEB SERIES ELECTRIC REMOTE CONTROL VALVE RAINBIRD PEB SERIES ELECTRIC REMOTE CONTROL, "TREE BUBBLER ZONE" VALVE SEE INSTALLATION NOTE #13 REGARDING TREE BUBBLER LATERAL PIPE NETAFIM CONTROL ZONE KIT MODEL #NCZ-1S SERIES WITH 50 PSI PRESSURE REGULATOR AND SCREEN FILTER RAINBIRD 33-DNP QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE ZURN / WILKINS 350 SERIES D.C.A. INSTALLED PER CITY CODE, WITH SAME SIZE ZURN / WILKINS 850 SERIES BRONZE BALL VALVE AND ZURN / WILKINS YB SERIES BRONZE WYE FILTER WITH 20 MESH STAINLESS STEEL SCREEN LASCO "V101N" SERIES SCH. 80 PVC TRUE UNION BALL VALVE, MAINLINE SIZE IRRIGATION WATER METER AND TAP, SIZE AS NOTED ON THE PLAN RAINBIRD ESP-Me SERIES AUTOMATIC CONTROLLER WITH TWO ESPSM6 MODULES, LNK WIFI MODULE, AND WR2-RFC RAIN / FREEZE SENSOR LOCATE SENSOR AS FIELD DIRECTED BY THE LANDSCAPE ARCHITECT



CLASS 200 PVC MAINLINE PIPE CLASS 200 (EXCEPT 1/2 INCH #315) PVC LATERAL PIPE

— — ONE 4" CLASS 200 SLEEVE PIPE

MASTER ELECTRIC VALVEDE

TWO 4" CLASS 200 SLEEVE PIPES

L.I.C. SHALL SELECT SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE, ADJUSTED

FOR NO OVERSPRAY ONTO WALLS AND WALKS. NO OVERSPRAY INTO STREETS IS PERMITTED.

CONTROLLER STATION

APPROX. LINEAR FOOTAGE OF DRIP TUBE

VALVE SIZE FLOW IN G.P.M.

### **IRRIGATION SLEEVE NOTES**

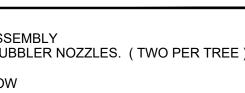
Piping and control wires shall be installed in separate sleeves under paving. Refer to the irrigation plan for sleeve size and location.

Sleeve elevation shall be twenty-four (24") inches below top of pavement.

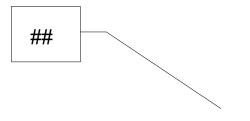
Sleeves shall extend one (1') foot beyond the edge of pavement and be staked for location.

All sleeves shall be Schedule 40 PVC pipe, capped on both ends, and sized at least two times larger than the diameter of the pipe inside the sleeve. Sleeve locations shall be marked onto the top of curb with a saw-cut of two parallel lines that are two (2") inches long and one (1") inch apart.

The Contractor responsible for the installation of sleeves shall also be responsible to locate any sleeve which cannot be found during the installation of the irrigation



DRIP VALVE TAG





OFFICE: 940.243.2364

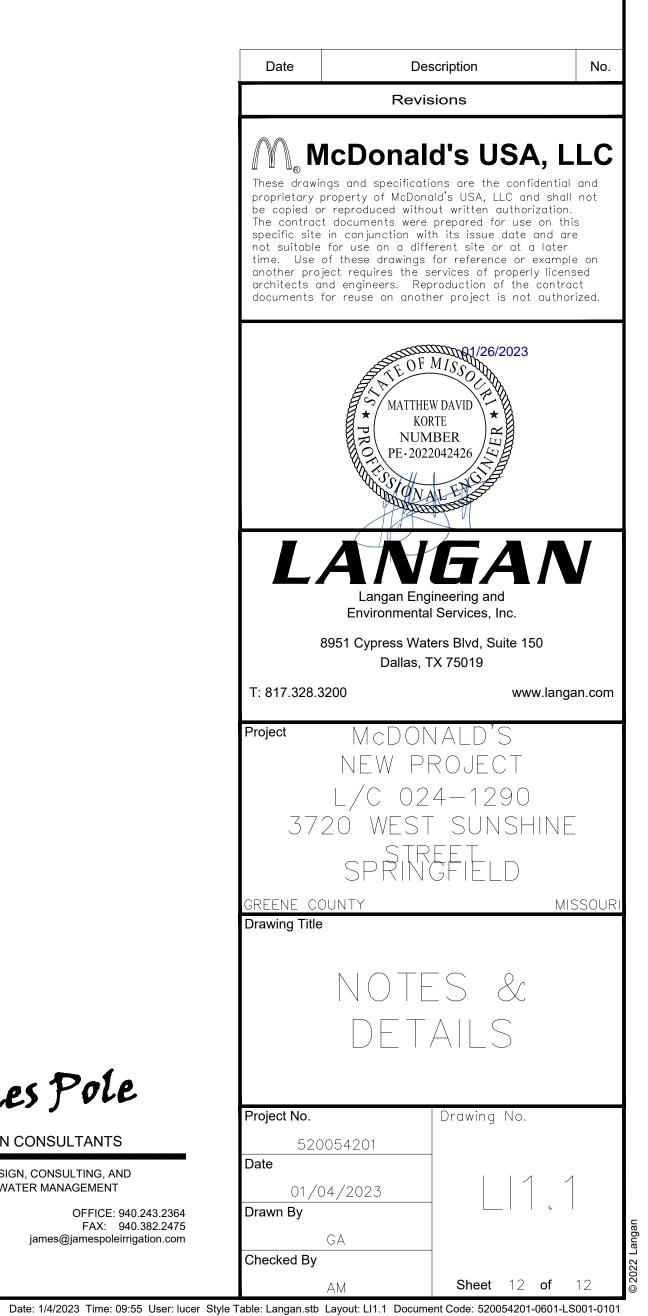
FAX: 940.382.2475

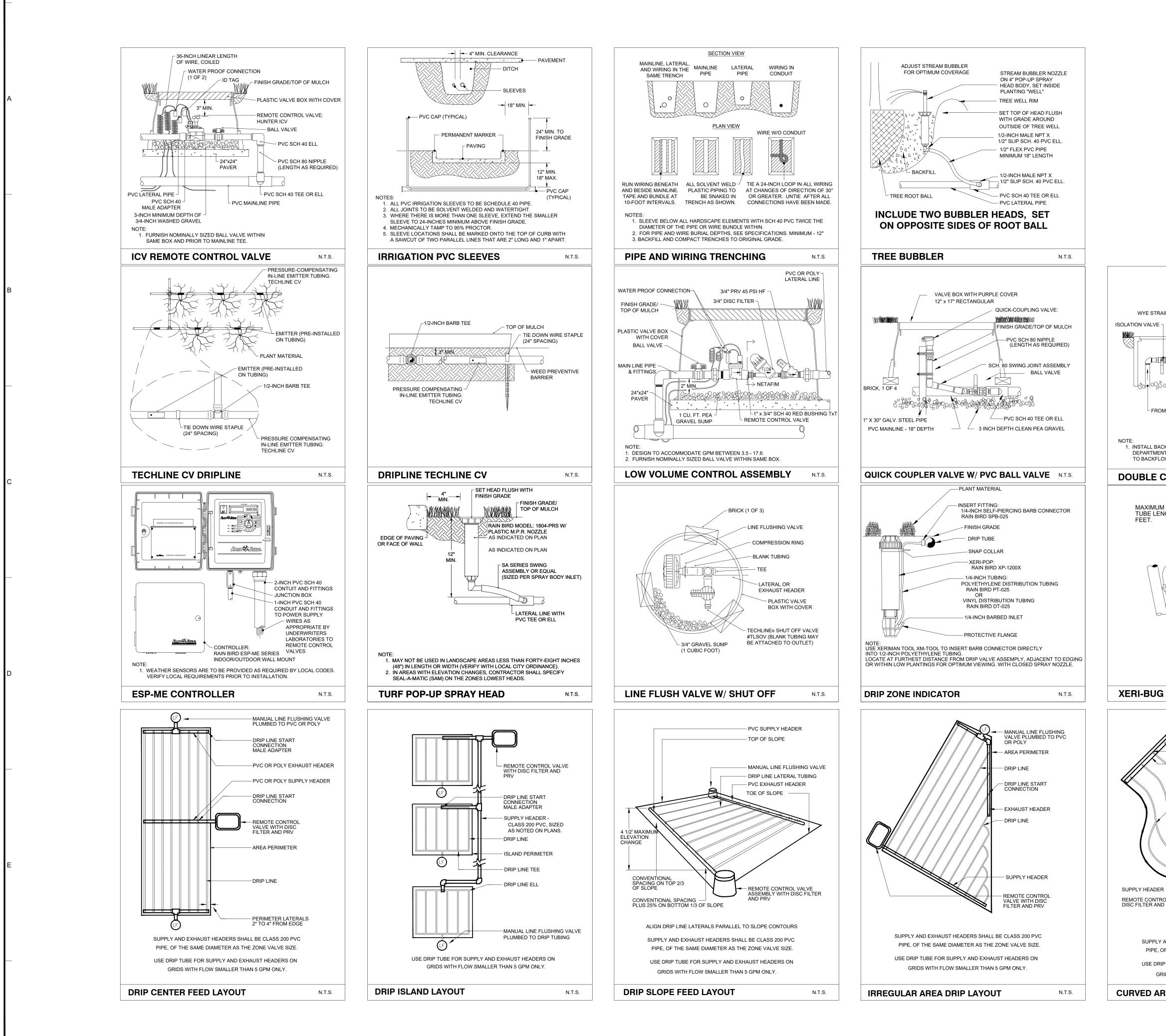
james@jamespoleirrigation.com

TEXAS L.I.C. #658 100 N. LOCUST ST., SUITE 3 DENTON, TEXAS 76201



Know what's below Callbefore you dig.





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**IRRIGATION CONSULTANTS** IRRIGATION DESIGN, CONSULTING, AND LANDSCAPE WATER MANAGEMENT TEXAS L.I.C. #658 OFFICE: 940.243.2364 100 N. LOCUST ST., SUITE 3 FAX: 940.382.2475 DENTON, TEXAS 76201 james@jamespoleirrigation.com DOUBLE CHECK VALVE ASSEMBLY (REFERENCE PLAN FOR SIZE & TYPE) WYE STRAINER ☐ FINISH GRADE/ - METER BOX TOP OF MULCH - PVC ELL IRRIGATION MAIN LINF (REF. PLAN FOR SIZE) - SCHEDULE 40, BRASS OR GALVANIZED NIPPLE Know what's below FROM WATER METER AS REQUIRED Callbefore you dig. 4" THICK LAYER OF GRAVEL 1. INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT, VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION, PRIOR TO BACKFLOW PREVENTER, INSTALL A NOMINALLY SIZED ISOLATION VALVE. Date Description DOUBLE CHECK ASSEMBLY N.T.S. Revisions McDonald's USA, LLC MAXIMUM DISTRIBUTION 1/4-INCH TUBING TUBE LENGTH IS FOUR POLY DISTRIBUTION TUBING hese drawinas and specifications are the confidential and roprietary property of McDonald's USA, LLC and shall not - SINGLE-OUTLET EMITTER: e copied or reproduced without written authorization. The contract documents were prepared for use on this specific site in conjunction with its issue date and are suitable for use on a different site or at a later me. Use of these drawinas for reference or example on another project requires the services of properly licensed ?PI ANT architects and engineers. Reproduction of the contract locuments for reuse on another project is not authorized. 1/4" BARB TRANSFER TEE: RAIN BIRD XBF3TEE ng1/26/2023  $\mathcal{A} \in ML$ - 1/4-INCH TUBING STAKE RAIN BIRD TS-025 / MATTHEW DAVID 丶 KORTE 1/2" POLYETHYLENE TUBING: NUMBER PE-2022042426 / **XERI-BUG EMITTER** N.T.S. LANGAN - MANUAL LINE FLUSHING VALVE PLUMBED TO PVC Langan Engineering and - AREA PERIMETER Environmental Services, Inc. DRIP LINE START CONNECTION 8951 Cypress Waters Blvd, Suite 150 Dallas, TX 75019 - EXHAUST HEADER - DRIP LINE TEE T: 817.328.3200 www.langan.com - DRIP LINE Project MCDONALD S NEW PROJECT /C 024-12903/20 SPRINGFIE REENE COUNTY MISSO Drawing Title REMOTE CONTROL VALVE WITH DISC FILTER AND PRV NOTES & SUPPLY AND EXHAUST HEADERS SHALL BE CLASS 200 PVC DETAILS PIPE, OF THE SAME DIAMETER AS THE ZONE VALVE SIZE. USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY. Project No. Drawing No. **CURVED AREA DRIP LAYOUT** N.T.S. 520054201 01/04/2023 Drawn By GΑ

, Langan

**Sheet** 12 of 12

checked By

Date: 1/4/2023 Time: 09:57 User: lucer Style Table: Langan.stb Layout: LI1.2 Document Code: 520054201-0601-LS001-0101



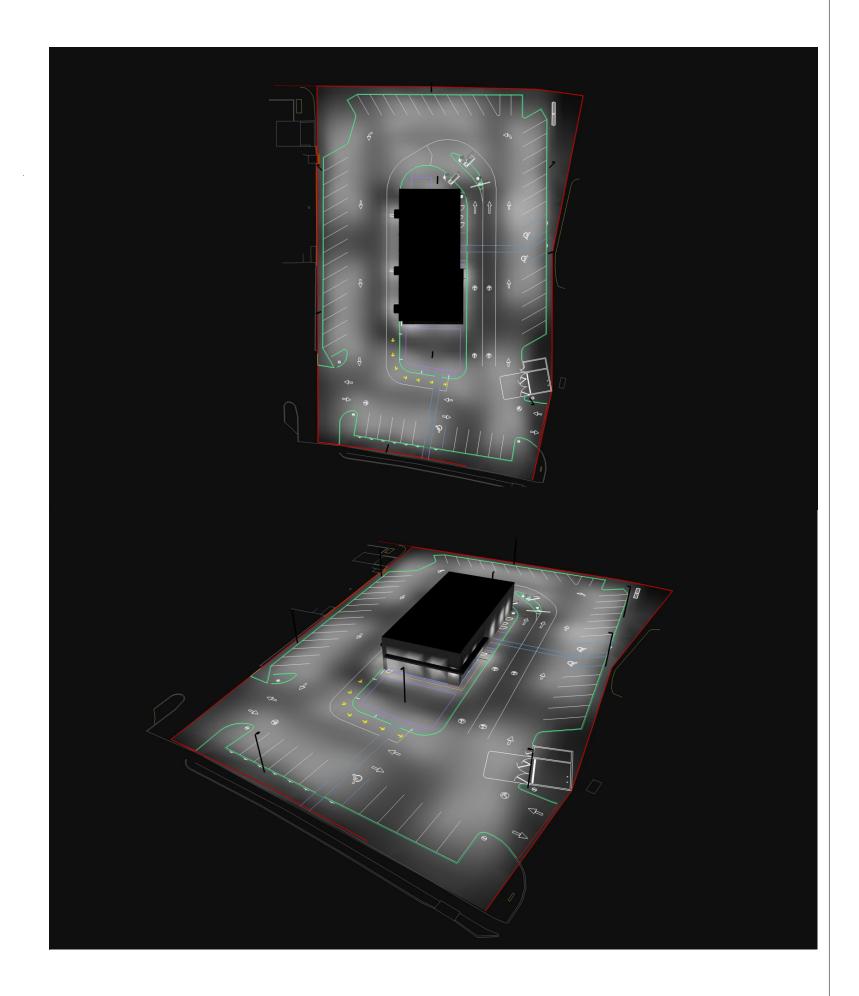
Calculation Summary

NDTES:

| Calculation Summary    |             |       |      |     |     |         |         |
|------------------------|-------------|-------|------|-----|-----|---------|---------|
| Label                  | CalcType    | Units | Avg  | Max | Min | Avg/Min | Max/Min |
| PAVED SURFACE READINGS | Illuminance | Fc    | 3.63 | 8.8 | 0.5 | 7.26    | 17.60   |
| PROPERTY LINE READINGS | Illuminance | Fc    | 0.44 | 1.0 | 0.0 | N.A.    | N.A.    |

Luminaire Schedule

| Symbol | Qty | Label | Arrangement | LLF   | Description             | Lum. Watts | EPA   | Mtg Height   | Pole Type                 |
|--------|-----|-------|-------------|-------|-------------------------|------------|-------|--------------|---------------------------|
|        | 9   | AB    | SINGLE      | 0.900 | RAR-2-480L-240-5K7-4-BC | 226.9      | 0.607 | 21           | SES-18-40-1-TA-GL-xx (4") |
| +      | 10  | F12G  | SINGLE      | 0.900 | LB6-10LDM-50K9GD        | 11.9       |       | 9.08 & 10.67 |                           |
| ÷      | 9   | L2    | SINGLE      | 0.900 | RWSC-36L-5K-DO-U-PS     | 14.4       |       | 9.33 & 10.92 |                           |
| +      | 5   | L2W   | SINGLE      | 0.900 | RWSC-36L-5K-DO-U-WH     | 14.4       |       | 9.33         |                           |



### Pole Fixtures Are Full Cutoff Tilt=0 Calculation Grids Are At Grade Pole Light Mounting Height=21ft (18' Pole + 3' Base)

PROJECT WIND LOAD CRITERIA BASED ON: ASCE 7-10 WIND SPEEDS (3-SEC PEAK GUST MPH) 50 YEAR MEAN RECURRENCE INTERVAL ALLOWED EPA 13.6 @ WIND LOAD 90 MPH

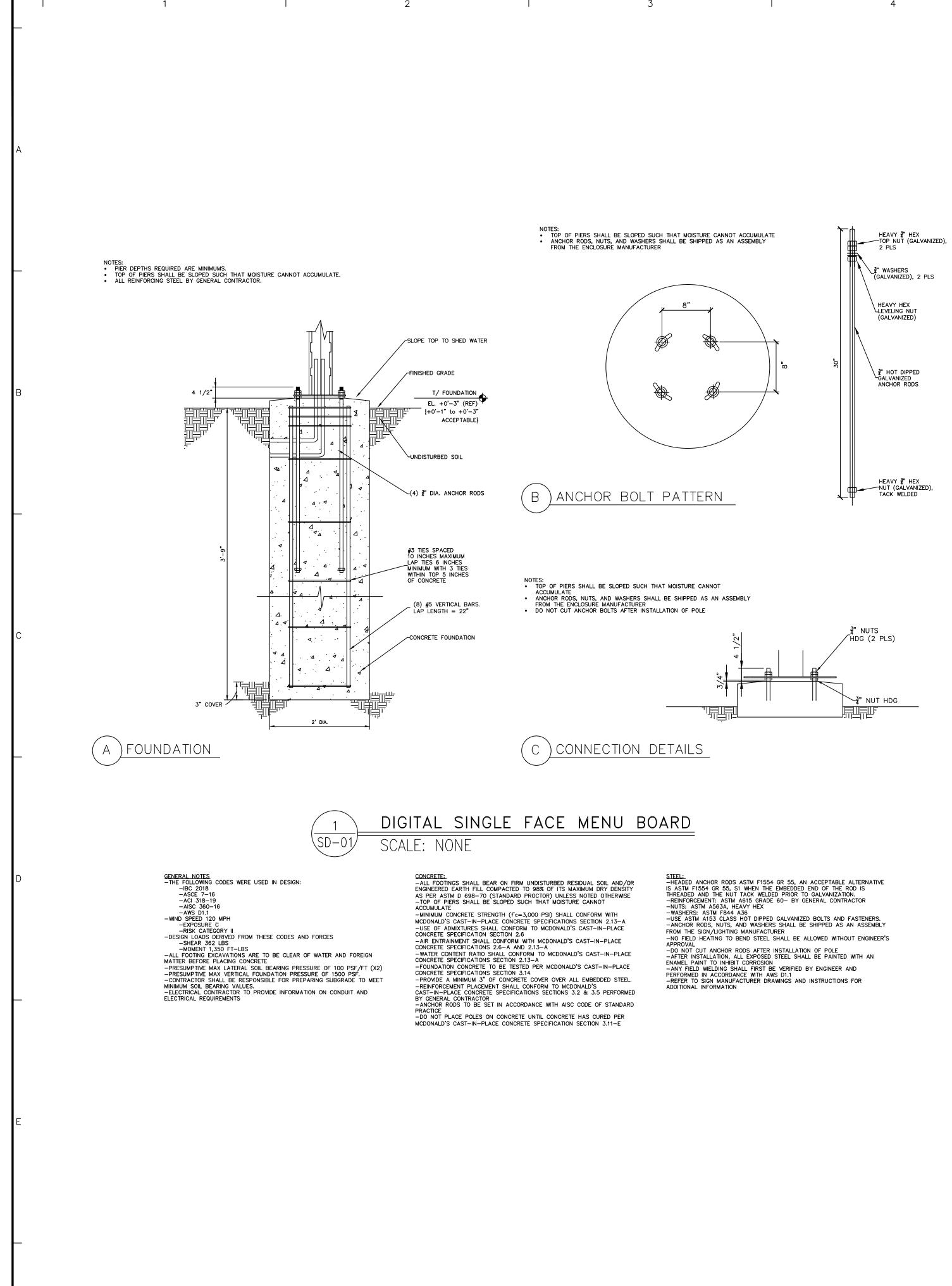


Regional Drawing # 24-1290

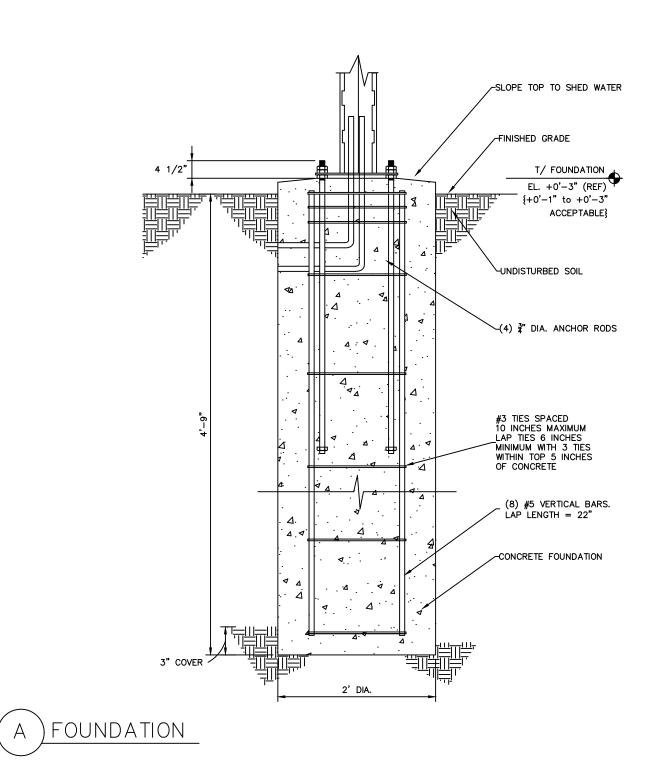
1. THIS LIGHTING DESIGN IS BASED ON INFORMATION SUPPLIED BY OTHERS TO SECURITY LIGHTING SYSTEMS. SITE DETAILS PROVIDED HEREON ARE REPRODUCED ONLY AS A VISUALIZATION AID. FIELD DEVIATIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTATION, MOUNTING HEIGHT, ETC.) SHOULD BE COORDINATED WITH THE CONTRACTOR AND/OR SPECIFIER RESPONSIBLE FOR THE PROJECT. 2. LUMINAIRE DATA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATORY CONDITIONS. OPERATING VOLTAGE AND NORMAL MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMINAIRE MAY AFFECT FIELD RESULTS. 3. CONFORMANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE. 4. THIS LAYOUT MAY NOT MEET TITLE 24 OR LOCAL ENERGY REQUIREMENTS. IF THIS LAYOUT NEEDS TO E COMPLIANT WITH TITLE 24 OR OTHER ENERGY REQUIREMENTS, PLEASE CONSULT FACTORY WITH SPECIFIC DETAILS REGARDING PROJECT REQUIREMENTS SO THAT REVISIONS MAY BE MADE TO THE DRAWING.

| drawn by $VH$    |   |
|------------------|---|
| PDINT-B)         | -POINT FOOTCANDLE PLOT FOR                          |
|                  | MCDEINALDS<br>3800 W SUNSHINE ST<br>SPRINGFIELD, MO |
| NATIONAL STORE N | JMBER   |
| 40762            |   |
| DATE             | DRAWING NUMBER                                      |
| 2/21/2023        | EX50417-Rev1.AGI                                    |

SCALE 1"=20' 0"



## NOTES: • PIER DEPTHS REQUIRED ARE MINIMUMS. • TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE. • ALL REINFORCING STEEL BY GENERAL CONTRACTOR.

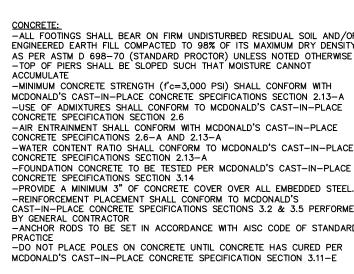


SD-01/ SCALE: NONE

2

<u>GENERAL NOTES</u> -THE FOLLOWING CODES WERE USED IN DESIGN: - THE FOLLOWING CODES WERE USED IN DESIGN: - IBC 2019 - ASCE 7-16 - ACI 318-11 - AISC 360-16 - AWS D1.1 - WIND SPEED 120 MPH - EXPOSURE C - RISK CATEGORY II - DESIGN LOADS DERIVED FROM THESE CODES AND FORCES - SHFAR 661 LBS

-DESIGN LOADS DERIVED FROM THESE CODES AND FORCES -SHEAR 661 LBS -MOMENT 2,530 FT-LBS -ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE -PRESUMPTIVE MAX LATERAL SOIL BEARING PRESSURE OF 100 PSF/FT (X2) -PRESUMPTIVE MAX LATERAL SOIL BEARING PRESSURE OF 1500 PSF. -CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SUBGRADE TO MEET MINIMUM SOIL BEARING VALUES. -ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS



NOTES: • TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE • ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE ENCLOSURE MANUFACTURER HEAVY ≩"HEX ──TOP NUT (GALVANIZED), 2 PLS \_<sup>3</sup>" WASHERS (GALVANIZED), 2 PLS HEAVY HEX (GALVANIZED) A HOT DIPPED GALVANIZED ANCHOR RODS Ø HEAVY ≹"HEX ──NUT (GALVANIZED), TACK WELDED ANCHOR BOLT PATTERN NOTES: • TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE • ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE ENCLOSURE MANUFACTURER • DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE Date ¾" NUTS Description ∕HDG (2 PLS) Revisions McDonald's USA, LLC ∑¾" NUT HDG CONNECTION DETAILS 1001/26/2023 MATTHEW DAVID KORTE NUMBER PE-2022042426 STEEL: -HEADED ANCHOR RODS ASTM F1554 GR 55, AN ACCEPTABLE ALTERNATIVE IS ASTM F1554 GR 55, S1 WHEN THE EMBEDDED END OF THE ROD IS THREADED AND THE NUT TACK WELDED PRIOR TO GALVANIZATION. -REINFORCEMENT: ASTM A615 GRADE 60- BY GENERAL CONTRACTOR -NUTS: ASTM A563A, HEAVY HEX -WASHERS: ASTM F844 A36 -USE ASTM A153 CLASS HOT DIPPED GALVANIZED BOLTS AND FASTENERS. -ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY EDON THE SIGN (LICUTING MANIFACTURED Langan Engineering and Environmental Services, Inc. 8951 Cypress Waters Blvd, Suite 150 Dallas, TX 75019 T: 817.328.3200 roject McDONALD'S

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roject

CONCRETE: -ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE -TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE

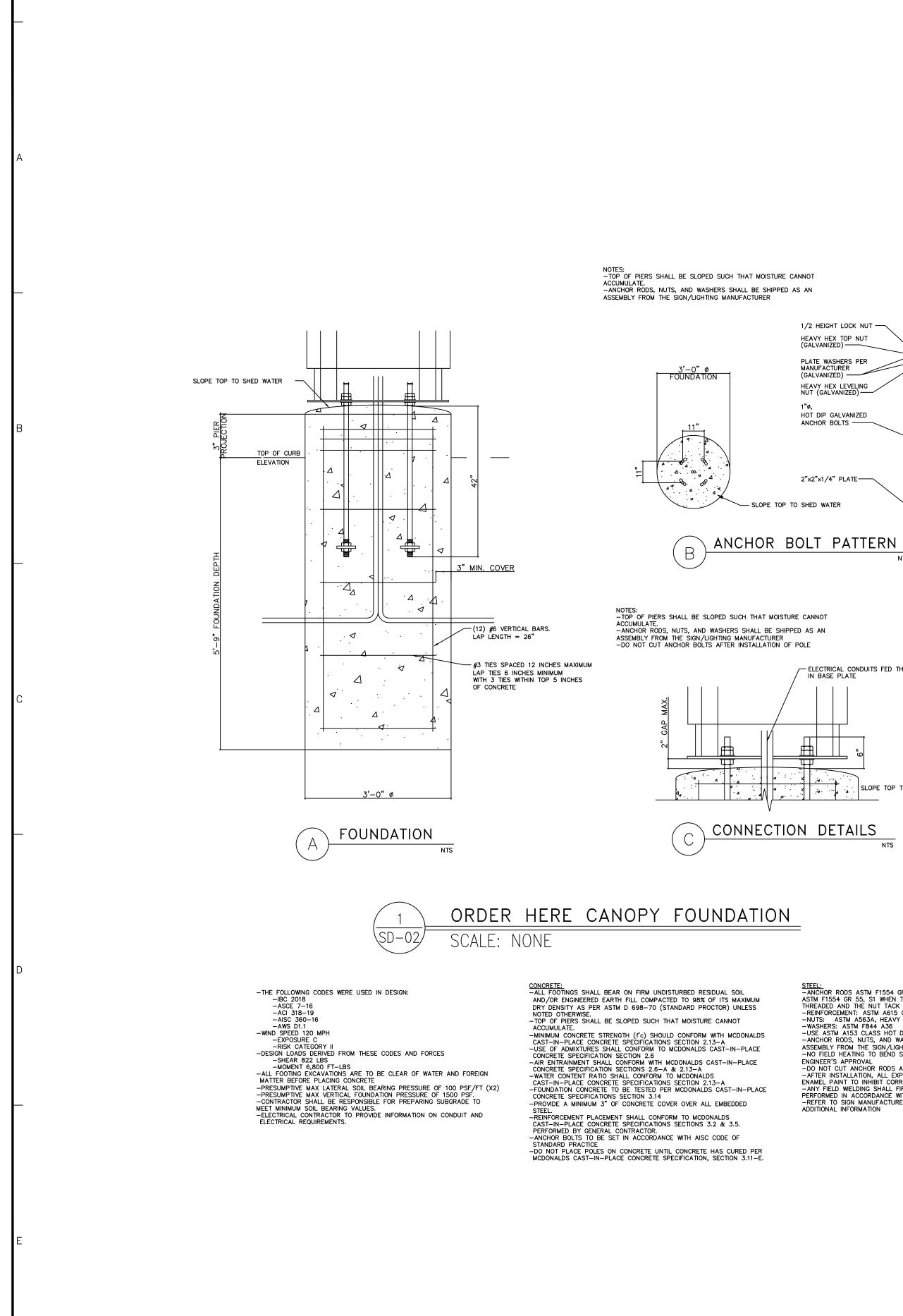
DIGITAL DOUBLE FACE MENU BOARD

В

-AIR ENTRAINMENT SHALL CONFORM WITH MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS 2.6-A AND 2.13-A -WATER CONTENT RATIO SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A -FOUNDATION CONCRETE TO BE TESTED PER MCDONALD'S CAST-IN-PLACE -PROVIDE A MINIMUM 3" OF CONCRETE COVER OVER ALL EMBEDDED STEEL. -REINFORCEMENT PLACEMENT SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 3.2 & 3.5 PERFORMED BY GENERAL CONTRACTOR -ANCHOR RODS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD

FROM THE SIGN/LIGHTING MANUFACTURER -NO FIELD HEATING TO BEND STEEL SHALL BE ALLOWED WITHOUT ENGINEER'S APPROVAL -DO NOT CUT ANCHOR RODS AFTER INSTALLATION OF POLE -AFTER INSTALLATION, ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION -ANY FIELD WIELDING SHALL FIRST BE VERIFIED BY ENGINEER AND PERFORMED IN ACCORDANCE WITH AWS D1.1 -REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION ADDITIONAL INFORMATION

Date: 1/26/2023 Time: 11:54 User: mgrissom Style Table: Langan.stb Layout: Layout1 Document Code: 520054201-0601-BF501-0101



NTS

1/2 HEIGHT LOCK NUT -

HEAVY HEX TOP NUT (GALVANIZED)

PLATE WASHERS PER MANUFACTURER (GALVANIZED)

HEAVY HEX LEVELING NUT (GALVANIZED)------

HOT DIP GALVANIZED

2"x2"x1/4" PLATE

ANCHOR BOLTS -----

1"ø,

- ELECTRICAL CONDUITS FED THROUGH HOLE IN BASE PLATE

### CONNECTION DETAILS NTS

STEEL: -ANCHOR RODS ASTM F1554 GR 55, AN ACCEPTABLE ALTERNATIVE IS ASTM F1554 GR 55, S1 WHEN THE EMBEDDED END OF THE ROD IS THREADED AND THE NUT TACK WELDED PRIOR TO GALVANIZATION. -REINFORCEMENT: ASTM A615 GRADE 60- BY GENERAL CONTRACTOR -REINFORCEMENT: ASIM AGIS GRADE 60- BY GENERAL CONTRACTOR -NUTS: ASTM A563A, HEAVY HEX -WASHERS: ASTM F844 A36 -USE ASTM A153 CLASS HOT DIPPED GALVANIZED BOLTS AND FASTENERS. -ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER -NO FIELD HEATING TO BEND STEEL SHALL BE ALLOWED WITHOUT ENGINEEP'S APPROVAL

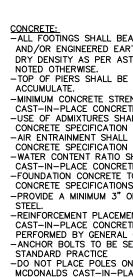
-NO FIELD HEATING TO BEND STEEL SHALL BE ALLOWED WITHOUT ENGINEER'S APPROVAL -DO NOT CUT ANCHOR RODS AFTER INSTALLATION OF POLE -AFTER INSTALLATION, ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION -ANY FIELD WIELDING SHALL FIRST BE VERIFIED BY ENGINEER AND PERFORMED IN ACCORDANCE WITH AWS D1.1 -REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION ADDITIONAL INFORMATION

# SLOPE TOP TO SHED WATER FINISHED LANDSCAPED GRADE Ŧ 3" MIN. COVER $\Delta_{\Delta}$ (12) #6 VERTICAL BARS. LAP LENGTH = 26" . 🗸 - #3 TIES SPACED 12 INCHES MAXIMUM LAP TIES 6 INCHES MINIMUM WITH 3 TIES WITHIN TOP 5 INCHES OF CONCRETE FOUNDATION

 $\sqrt{SD-02}$ SCALE: NONE

NTS

-THE FOLLOWING CODES WERE USED IN DESIGN: -IBC 2018 -ASCE 7-16 -ACI 318-19 -AISC 360-16 -AWS D1.1 -AWS D1.1 -WIND SPEED 120 MPH -EXPOSURE C -RISK CATEGORY II -DESIGN LOADS DERIVED FROM THESE CODES AND FORCES -SHEAR 1,039 LBS -MOMENT 8,570 FT-LBS -ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE -PRESUMPTIVE MAX LATERAL SOIL BEARING PRESSURE OF 100 PSF/FT (X2) -PRESUMPTIVE MAX VERTICAL FOUNDATION PRESSURE OF 1500 PSF. -CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SUBGRADE TO MEET MINIMUM SOIL BEARING VALUES. MINIMUM SOIL BEARING VALUES. -ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.



520054 て

(GALVANIZED) HEAVY HEX NUT (GALVANIZED) GALVANIZED WASHERS (SUPPLIED BY MFR.) HEAVY HEX LEVELING NUT (GALVANIZED) 3/4"ø HOT DIP — 🔨 GALVANIZED ANCHOR BOLT - SLOPE TOP TO SHED WATER 2"x2"x1/4" PLATE ANCHOR BOLT PATTERN NTS -TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT -ACCUMULATE. -ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER -DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE

1/2 HEIGHT LOCK NUT

THROUGH HOLE IN BASE PLATE . · SLOPE TOP TO SHED WATER 4 ..... CONNECTION DETAILS NTS

### DOUBLE GATEWAY FOUNDATION

NOTES:

B

NOTES:

-TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE. -ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER

CONCRETE: -ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE. -TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE. ACCUMULATE. -MINIMUM CONCRETE STRENGTH (f'c) SHOULD CONFORM WITH MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A -USE OF ADMIXTURES SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION SECTION 2.6 -AIR ENTRAINMENT SHALL CONFORM WITH MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION SECTIONS 2.6-A & 2.13-A -WATER CONTENT RATIO SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 2.13-A -FOUNDATION CONCRETE TO BE TESTED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 3.14 -PROVIDE A MINIMUM 3" OF CONCRETE COVER OVER ALL EMBEDDED

-PROVIDE A MINIMUM 3" OF CONCRETE COVER OVER ALL EMBEDDED -REINFORCEMENT PLACEMENT SHALL CONFORM TO MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 3.2 & 3.5. PERFORMED BY GENERAL CONTRACTOR. -ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE DO NOT DI ACE DOLES ON CONCRETE UNTIL CONCRETE HAS CURED

DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E.

STEEL: -ANCHOR RODS ASTM F1554 GR 55, AN ACCEPTABLE ALTERNATIVE IS ASTM F1554 GR 55, S1 WHEN THE EMBEDDED END OF THE ROD IS THREADED AND THE NUT TACK WELDED PRIOR TO GALVANIZATION. -REINFORCEMENT: ASTM A615 GRADE 60- BY GENERAL CONTRACTOR -NUTS: ASTM A563A, HEAVY HEX -WASHERS: ASTM F844 A36 -USE ASTM A153 CLASS HOT DIPPED GALVANIZED BOLTS AND FASTENERS. -ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER -NO FIELD HEATING TO BEND STEEL SHALL BE ALLOWED WITHOUT ENGINEER'S APPROVAL

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| Environmental  |   |  |  |  |  |
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| T: 817.328.3200<br>MO Certificate of Autho   | www.langan.com<br>prization No. F001330220                  |  |  |  |  |
| Project<br>McDO  | NALD'S  |  |  |  |  |
| NEW PROJECT  |   |  |  |  |  |
| L/C 024  | 4-1290  |  |  |  |  |
| 3720 WEST SUN  | NSHINE STREET   |  |  |  |  |
| SPRINC   | GFIELD  |  |  |  |  |
| GREENE COUNTY  | MISSOURI  |  |  |  |  |
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| DECEMBER 2022  | SD-2  |  |  |  |  |
| )rawn By<br><b>OROD</b>  |   |  |  |  |  |
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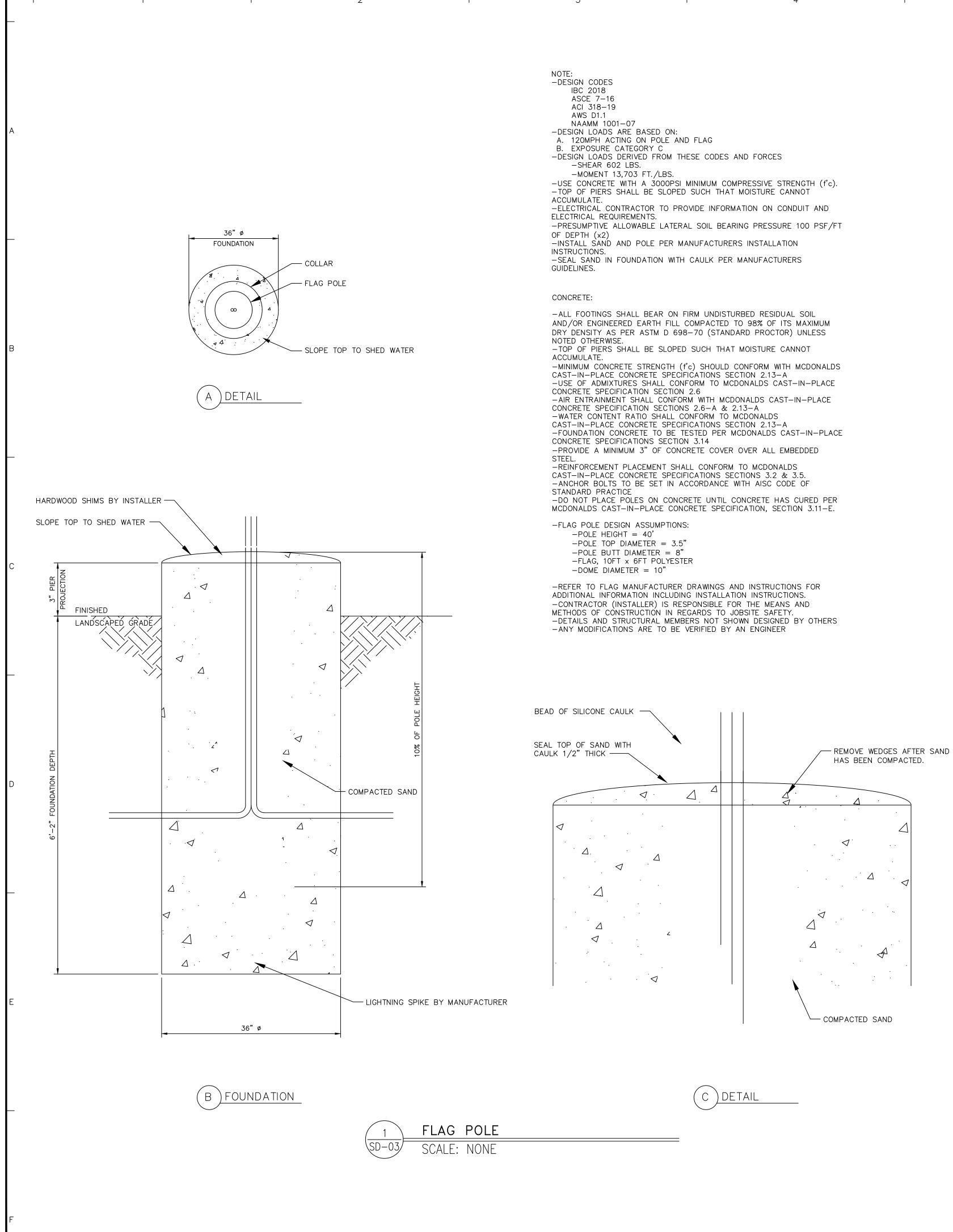
Sheet **27** of **29** 

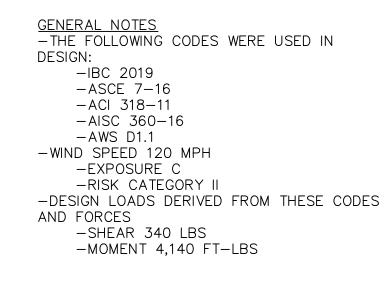
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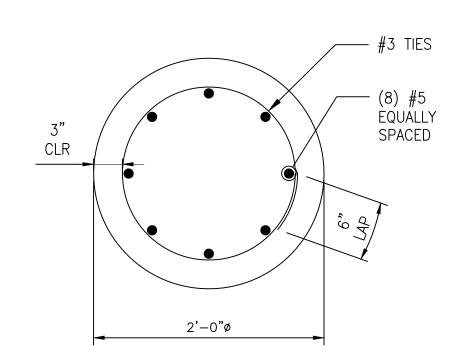
Revisions

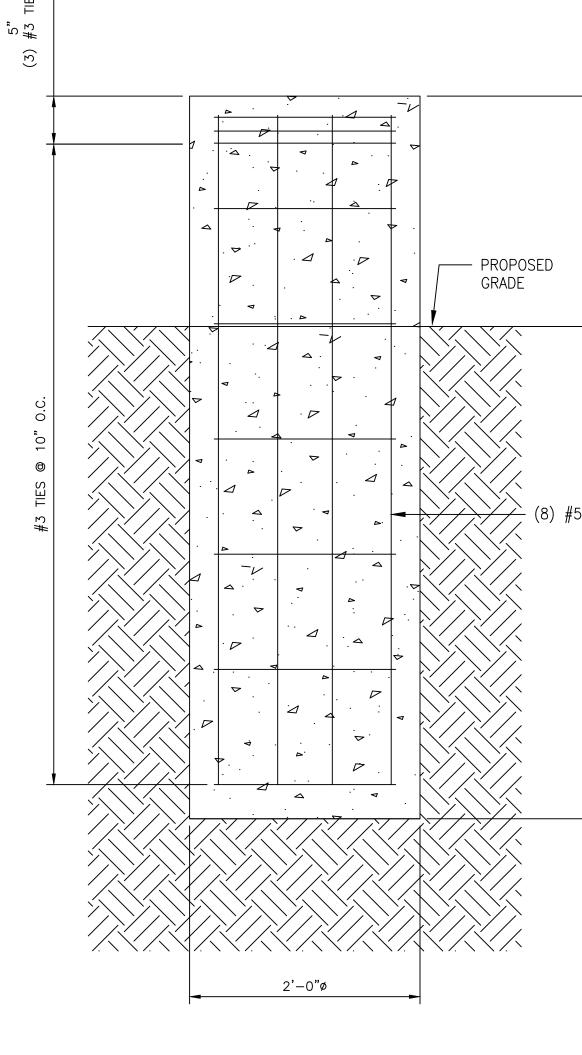
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Date









LIGHT FIXTURE \SD-03, SCALE: NONE

| -ALL FOOTING EXCAVATIONS ARE TO BE<br>CLEAR OF WATER AND FOREIGN MATTER<br>BEFORE PLACING CONCRETE<br>-PRESUMPTIVE MAX LATERAL SOIL BEARING<br>PRESSURE OF 100 PSF/FT (X2)<br>-PRESUMPTIVE MAX VERTICAL FOUNDATION<br>PRESSURE OF 1500 PSF.<br>-CONTRACTOR SHALL BE RESPONSIBLE FOR<br>PREPARING SUBGRADE TO MEET MINIMUM SOIL<br>BEARING VALUES.<br>-ELECTRICAL CONTRACTOR TO PROVIDE<br>INFORMATION ON CONDUIT AND ELECTRICAL<br>REQUIREMENTS   |  |
|---|--|
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-FOUNDATION CONCRETE TO BE TESTED PER

-PROVIDE A MINIMUM 3" OF CONCRETE COVER

-REINFORCEMENT PLACEMENT SHALL CONFORM

TO MCDONALD'S CAST-IN-PLACE CONCRETE

-ANCHOR RODS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE

-DO NOT PLACE POLES ON CONCRETE UNTIL

CONCRETE HAS CURED PER MCDONALD'S

CAST-IN-PLACE CONCRETE SPECIFICATION

-3/4"x30"x3" WITH' PROJECTION, IN 8"-11" BOLT CIRCLE, BY LIGHTING MANUFACTURER

SPECIFICATIONS SECTIONS 3.2 & 3.5

PERFORMED BY GENERAL CONTRACTOR

MCDONALD'S CAST-IN-PLACE CONCRETE

SPECIFICATIONS SECTION 3.14

OVER ALL EMBEDDED STEEL.

SECTION 3.11-E

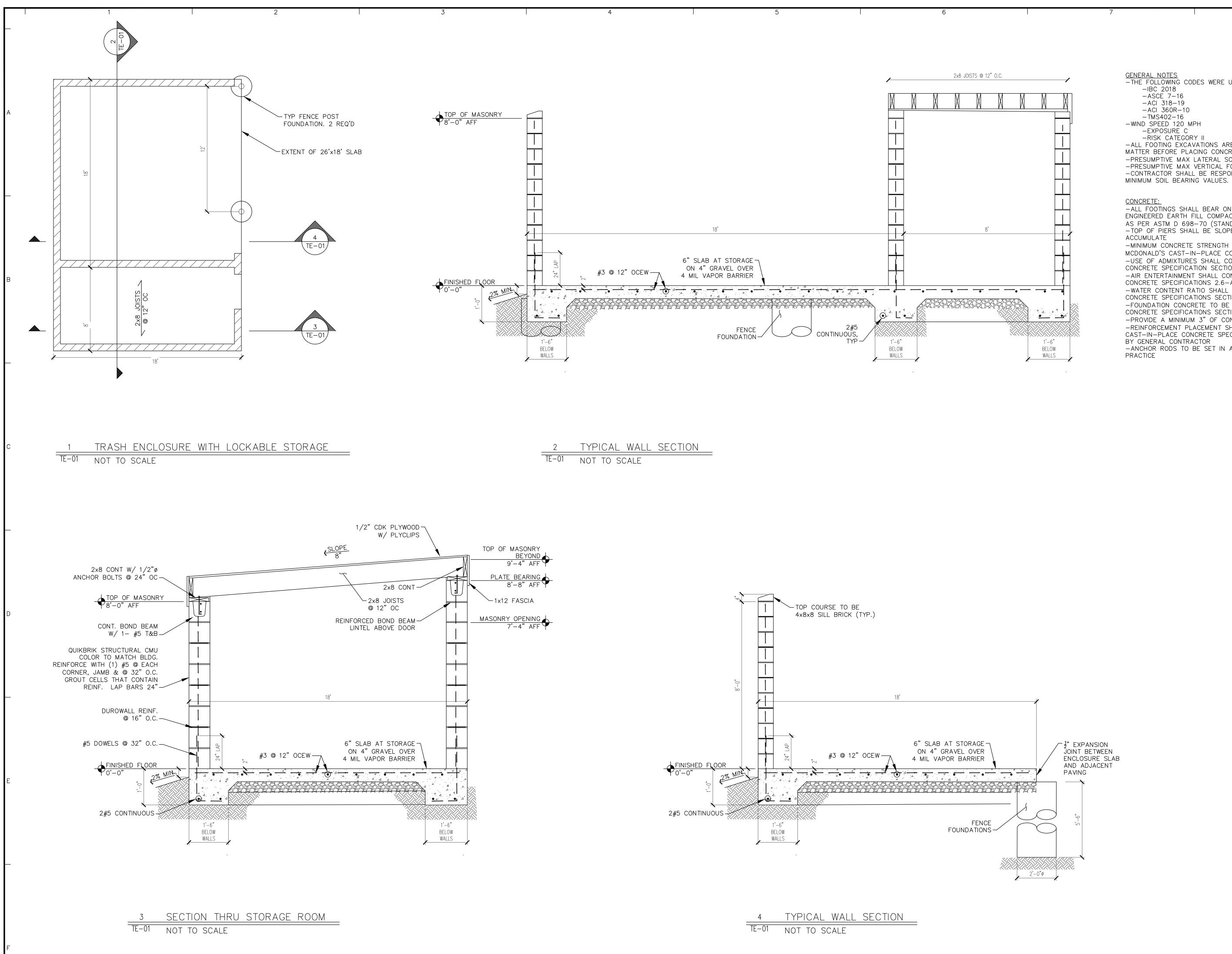
ANCHOR BOLTS:

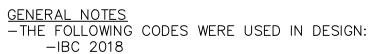
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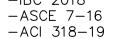
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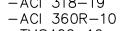
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Sheet **28** of **29** 









-TMS402-16 -WIND SPEED 120 MPH

-EXPOSURE C

-RISK CATEGORY II

-ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE -PRESUMPTIVE MAX LATERAL SOIL BEARING PRESSURE OF 100 PSF/FT (X2) -PRESUMPTIVE MAX VERTICAL FOUNDATION PRESSURE OF 1500 PSF. -CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SUBGRADE TO MEET

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-FOUNDATION CONCRETE TO BE TESTED PER MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTION 3.14 -PROVIDE A MINIMUM 3" OF CONCRETE COVER OVER ALL EMBEDDED STEEL.

-REINFORCEMENT PLACEMENT SHALL CONFORM TO MCDONALD'S CAST-IN-PLACE CONCRETE SPECIFICATIONS SECTIONS 3.2 & 3.5 PERFORMED BY GENERAL CONTRACTOR

-ANCHOR RODS TO BE SET IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE

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| LANGAN<br>Langan Engineering and<br>Environmental Services, Inc.  |            |  |  |  |  |
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| Project<br>McDONALD'S<br>NEW PROJECT<br>L/C 024-1290<br>3720 WEST SUNSHINE STREET<br>SPRINGFIELD<br>GREENE COUNTY MISSOURI  |            |  |  |  |  |
| Drawing Title   |            |  |  |  |  |
| TRASH   |            |  |  |  |  |
| ENCLOSURE/STORAGE   |            |  |  |  |  |
| BUILDING DETAILS  |            |  |  |  |  |
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