

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS, OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

*Kerwin R. Perin* 01/27/23  
SIGNATURE DATE

PRJ2023-00032

Project No. 520054201

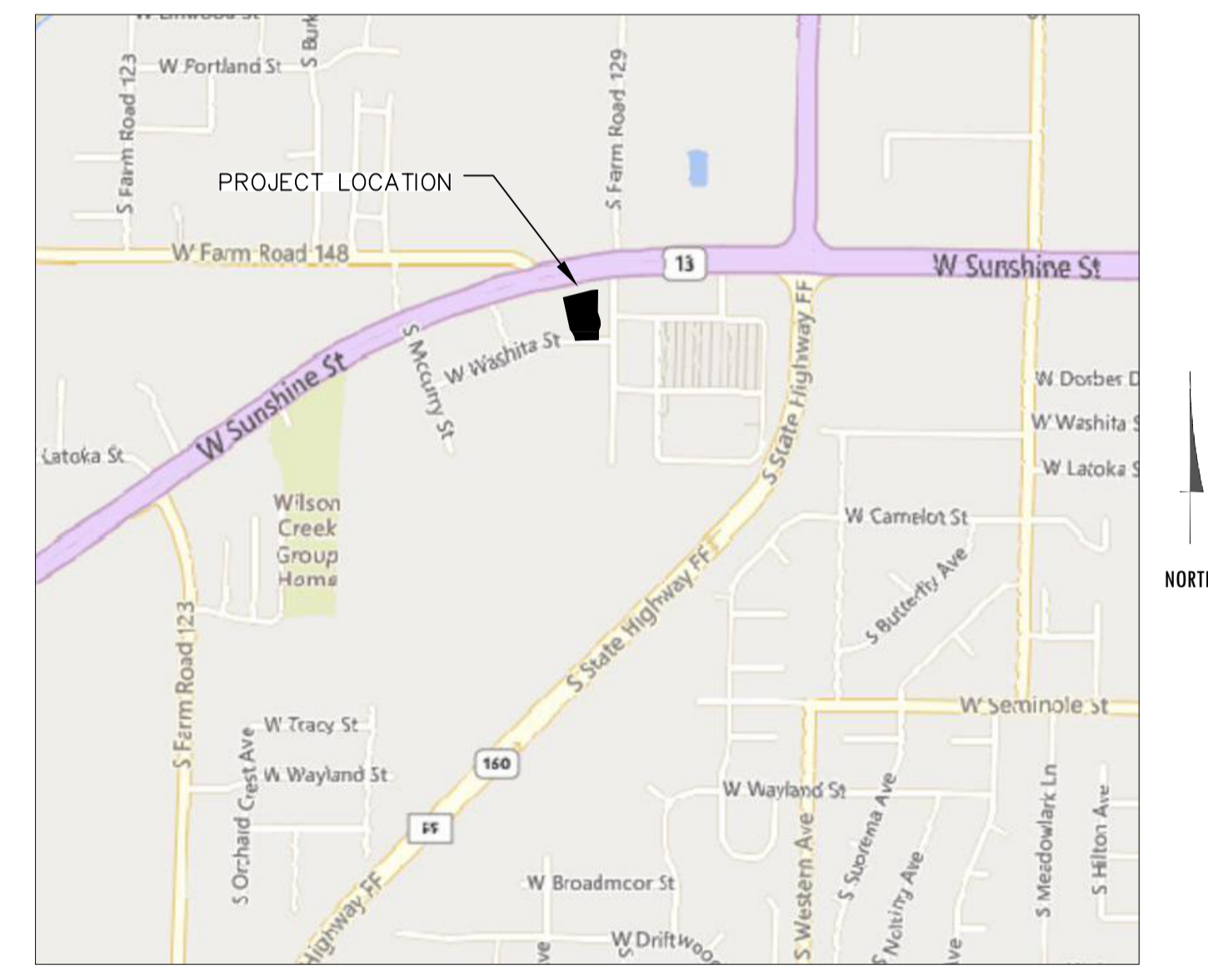
# CIVIL CONSTRUCTION PLANS

## FOR

# McDONALD'S NEW PROJECT

## L/C 024-1290

# 3720 WEST SUNSHINE STREET SPRINGFIELD, GREENE COUNTY, MISSOURI



VICINITY MAP  
N.T.S.

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TE-1	TRASH ENCLOSURE/STORAGE BUILDING DETAILS

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Date	Description	No.
Revisions		

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MO Certificate of Authorization No. F001330220

Project  
**McDONALD'S  
NEW PROJECT  
L/C 024-1290  
3720 WEST SUNSHINE STREET  
SPRINGFIELD**

GREENE COUNTY MISSOURI  
Drawing Title

## COVER SHEET

Project No.	520054201	Drawing No.	<b>C1.0</b>
Date	DECEMBER 2022		
Drawn By	OROD		
Checked By	DWL	Sheet 1 of 29	

**\*\* 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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*Kevin R. Perin*

01/27/23

SIGNATURE

DATE

PRJ2023-00032

Project No. 520054201

DEMOLITION NOTES

- 1. REFER TO MCDONALD'S SPECIFICATIONS SECTION 017329.
2. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND PINS.
3. CONTRACTOR SHALL REMOVE PAVEMENT IN ACCORDANCE WITH SPECIFICATIONS.
4. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO: DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
5. ALL WORK ON THIS PLAN SHALL BE DONE IN STRICT ACCORDANCE WITH SITE WORK SPECIFICATIONS.
6. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE PUBLIC DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: CONSTRUCTION FENCING, BARRICADES, SIGNAGE, ETC.
8. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
9. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRAFFIC CONTROL NECESSARY FOR DRIVE DEMOLITION/CONSTRUCTION.

UTILITY NOTES

- 1. REFER TO MCDONALD'S SPECIFICATIONS SECTIONS 220523, 221116, 221316, 221319, 221413, 221423, 231123, 330513, 331116, AND 333100.
2. ALL ELECTRICAL/CONDUIT RUNS ARE SCHEMATIC ONLY. LOT LIGHTS ARE TO BE WIRED TO 2 (TWO) OR MORE CIRCUITS IN AN ALTERNATING SEQUENCE.
3. PRIVATE UTILITY CONNECTIONS SHOWN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO BID.
4. ADJUST TO FINISHED GRADE ANY ACCESS POINTS FOR EXISTING UTILITIES REMAINING.
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.
6. REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES, AND CIRCUITING.
7. 1/2" EMPTY CONDUIT TO LOCATIONS SHOWN AT THE LOT PERIMETER FOR LOT LIGHTING IS BY THE GENERAL CONTRACTOR.

SITE NOTES

- 1. CONTRACTOR SHALL REFER TO ARCHITECTURAL BUILDING PLANS FOR EXACT LOCATION AND ORIENTATION OF EXTERIOR DOORS.
2. TRASH ENCLOSURE FINISH TO MATCH BUILDING. REFER TO TRASH ENCLOSURE/STORAGE DETAILS FOR FOUNDATION DESIGN.
3. LOCATION OF ID SIGN IS APPROXIMATE. IT IS THE RESPONSIBILITY OF THE SIGN CONTRACTOR TO VERIFY COMPLIANCE WITH SETBACK, 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.
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.
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.
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 GROUND BREAK.
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.

EROSION CONTROL SEQUENCE

- 1. INSTALL COMPOST FILTER SOCK AROUND PERIMETER OF PROPERTY AND DISTURBED AREAS AS SHOWN.
2. INSTALL INLET PROTECTION FOR ALL EXISTING GRATE INLETS, CURB INLETS AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES, IF PRESENT.
3. CONSTRUCT TEMPORARY CONSTRUCTION EXIT, INSTALL PORTA POTTY, SOLID WASTE DUMPSTER, MATERIAL STORAGE AREA, WITH SILL CONTROL KIT.
4. COMMENCE GRUBBING AND REMOVAL OF VEGETATION IN AREA TO RECEIVE CUT OR FILL.
5. COMMENCE GRADING OPERATION FOR BUILDING PAD PREPARATION (SEE GRADING PLAN).
6. INSTALL ALL UNDERGROUND UTILITIES.
7. FINALIZE PAVEMENT SUBGRADE PREPARATION.
8. INSTALL ALL PROPOSED STORM SEWER PIPES AND INLET PROTECTION.
9. CONSTRUCT ALL GRATE INLETS AND DRAINAGE STRUCTURES.
11. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT, CURB & GUTTER.
12. INSTALL ALL PAVING, CURB & GUTTER.
13. COMPLETE PLANTING AND/OR SEEDING OF VEGETATED AREAS TO ACCOMPLISH STABILIZATION, IN ACCORDANCE WITH THE LANDSCAPING PLAN.
14. REMOVE TEMPORARY CONSTRUCTION EXIT AND COMPOST FILTER SOCK.

SWPPP NOTES

- 1. THE MDEQ SMALL CONSTRUCTION GENERAL PERMIT (SCGP) REQUIRES THAT THE PERMITTEE REVISE OR UPDATE THIS SWPPP WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, OR WHENEVER THE RESULT OF AN INSPECTION INDICATES THAT THIS SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS IN STORM WATER DISCHARGES.
2. ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE.
a. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
b. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED.
c. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED.
d. THE TEMPORARY PARKING AND STORAGE AREA (IF PRESENT) SHALL BE KEPT IN GOOD CONDITION.
e. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS OR SEDIMENT TRAPS (IF PRESENT) SHALL BE MAINTAINED IN OPERATIONAL CONDITION AT ALL TIMES.
f. MAINTENANCE PROCEDURES FOR THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SPECIFIED ARE GIVEN IN SECTION 5 OF THE STORM WATER POLLUTION PREVENTION PLAN.

GENERAL NOTES

- 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.
4. ALL MATERIALS AND CONSTRUCTION WITHIN EASEMENTS AND R.O.W. SHALL CONFORM TO ALL GOVERNING AUTHORITIES' JURISDICTION STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
5. TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY ANDERSON ENGINEERING, INC.
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.

EROSION CONTROL NOTES

- 1. CONTRACTOR MUST COMPLETE A CONSTRUCTION SITE NOTICE, OBTAIN SIGNED COPIES OF SCONI FORM FOR BOTH OWNER AND CONTRACTOR (IF APPLICABLE TO THIS SITE), AND POST THEM AT THE CONSTRUCTION SITE, IN ACCORDANCE WITH THE MISSOURI SMALL CONSTRUCTION GENERAL PERMIT (SCGP).
2. THE CONTRACTOR SHALL ADHERE TO THE SEQUENCE OF OPERATIONS FOR EROSION CONTROL IMPLEMENTATION SHOWN HEREON.
3. THE CONTRACTOR SHALL MODIFY THIS PLAN TO SHOW LOCATIONS OF TEMPORARY WASHDOWN AREAS, PORTABLE TOILETS, EQUIPMENT MAINTENANCE/REPAIR AREAS, STOCKPILE AREAS, FUEL STORAGE AREAS, CONCRETE WASH-OUT PITS, AND POLLUTANT CONTROLS FOR EACH, AS SOON AS POSSIBLE.
4. THE GENERAL CONTRACTOR SHALL PERFORM ALL REQUIRED INSPECTIONS OF STORMWATER CONTROLS AND PRACTICES AT FREQUENCIES GIVEN IN THE SCGP, AND SHALL COMPLETE AND SIGN APPROPRIATE INSPECTION FORMS.
5. OIL AND GREASE ABSORBING MATERIALS SHALL BE READILY AVAILABLE ON-SITE AND SHALL BE PROMPTLY USED TO CONTAIN AND/OR CLEAN UP ALL FUEL OR CHEMICAL SPILLS OR LEAKS.
6. DUST CONTROL SHALL BE ACCOMPLISHED BY WATERING DRY, EXPOSED AREAS ON A REGULAR BASIS.
7. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR AT LEAST FOURTEEN DAYS SHALL BE TEMPORARILY STABILIZED WITH VEGETATION AND MULCH.
8. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE PERMANENTLY SEEDED WITHIN FOURTEEN DAYS PER SEEDING OR LANDSCAPING SPECIFICATIONS.
9. ALL VEHICLES SHALL BE CLEANED AT THE CONSTRUCTION EXIT POINTS ACCORDING TO NOTES SHOWN ON THE DETAIL THEREOF.
10. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED ONTO ADJACENT ROADWAYS BY VEHICLES EXITING THE SITE SHALL BE CLEANED OR REMOVED IMMEDIATELY.
11. CONTRACTOR SHALL PREVENT ANY SILTATION FROM ENTERING THE STORM SEWER SYSTEM.
12. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SILT IN ANY TEMPORARY OR PERMANENT DETENTION PONDS, STORM SEWER INLETS AND PIPES, AND ALONG SILT FENCES, WITHIN 48 HOURS AFTER INSPECTION OF DEVICES REVEALS THE PRESENCE OF EXCESSIVE SILTATION.
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 REQUIREMENTS 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 THIRTY DAYS AFTER STABILIZATION OF ALL SURFACES.
17. THE CONTRACTOR SHALL ASSUME LIABILITY FOR DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT-OF-WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION CONTROL PROCEDURES SHOWN AND NOTED IN THESE PLANS.
18. WHENEVER DIRT, ROCK, OR OTHER MATERIALS ARE IMPORTED OR EXPORTED ON THE PRIMARY CONSTRUCTION SITE, CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR COMPLIANCE WITH ALL MDEQ STORMWATER REQUIREMENTS FOR THE REMOTE SITE.
19. ALL SLOPES ON SITE WHICH ARE 3:1 OR STEEPER SHALL BE STABILIZED BY TRACK WALKING (TRAVERSING UP AND DOWN THE SLOPE WITH A TRACKED VEHICLE) FOLLOWED BY INSTALLATION OF EROSION CONTROL BLANKET INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
20. 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).
21. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED UPON RECORD OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, ACTUAL MEASUREMENTS TAKEN IN THE FIELD.

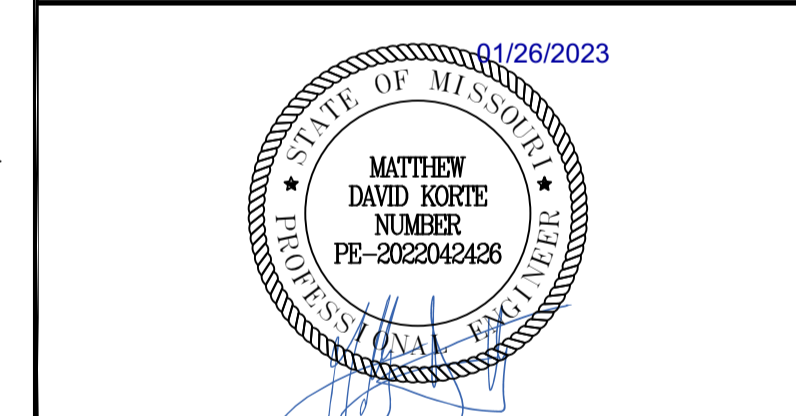
PAVING NOTES

- 1. REFER TO MCDONALD'S SPECIFICATIONS SECTIONS 079200, 321216, 321236, 321313, 321613, 321713, AND 321723.
2. REFER TO SITE PLAN FOR ADDITIONAL DIMENSION, RADI, ETC.
3. THE PAVING CONTRACTOR SHALL NOT PLACE PERMANENT PAVEMENT UNTIL ALL SLEEVING FOR ELECTRIC, GAS, TELEPHONE, CABLE TV, SITE IRRIGATION, ETC. HAS BEEN INSTALLED.
4. CONTRACTOR TO REFER TO BUILDING & STRUCTURAL PLANS FOR FOUNDATION DESIGN.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRAFFIC CONTROL NECESSARY FOR DRIVE DEMOLITION/CONSTRUCTION.
6. SIDEWALKS AROUND THE BUILDING SHALL HAVE THE SAME SUBGRADE AS BUILDING FOUNDATION AS DESCRIBED IN GEOTECH REPORT PROVIDED BY PROFESSIONAL SERVICE INDUSTRIES, INC.
7. MCDONALD'S RESERVES THE RIGHT TO REQUEST A COMPACTION AND/OR A CORE SAMPLE. IF TESTS PROVE CORRECT, PER THE SOILS REPORT, TESTS WILL BE AT THE EXPENSE OF MCDONALD'S, OTHERWISE G.C., WILL BE CHARGED.

Table with 3 columns: Date, Description, No.

Revisions

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LANGAN logo and contact information: Langan Engineering and Environmental Services, Inc., 8951 Cypress Waters Blvd, Suite 150, Dallas, TX 75019.

Project information: McDONALD'S NEW PROJECT, L/C 024-1290, 3720 WEST SUNSHINE STREET, SPRINGFIELD.

GREENE COUNTY MISSOURI Drawing Title

GENERAL NOTES

Table with Project No. (520054201), Drawing No. (C1.1), Date (DECEMBER 2022), and Checked By (DWL).

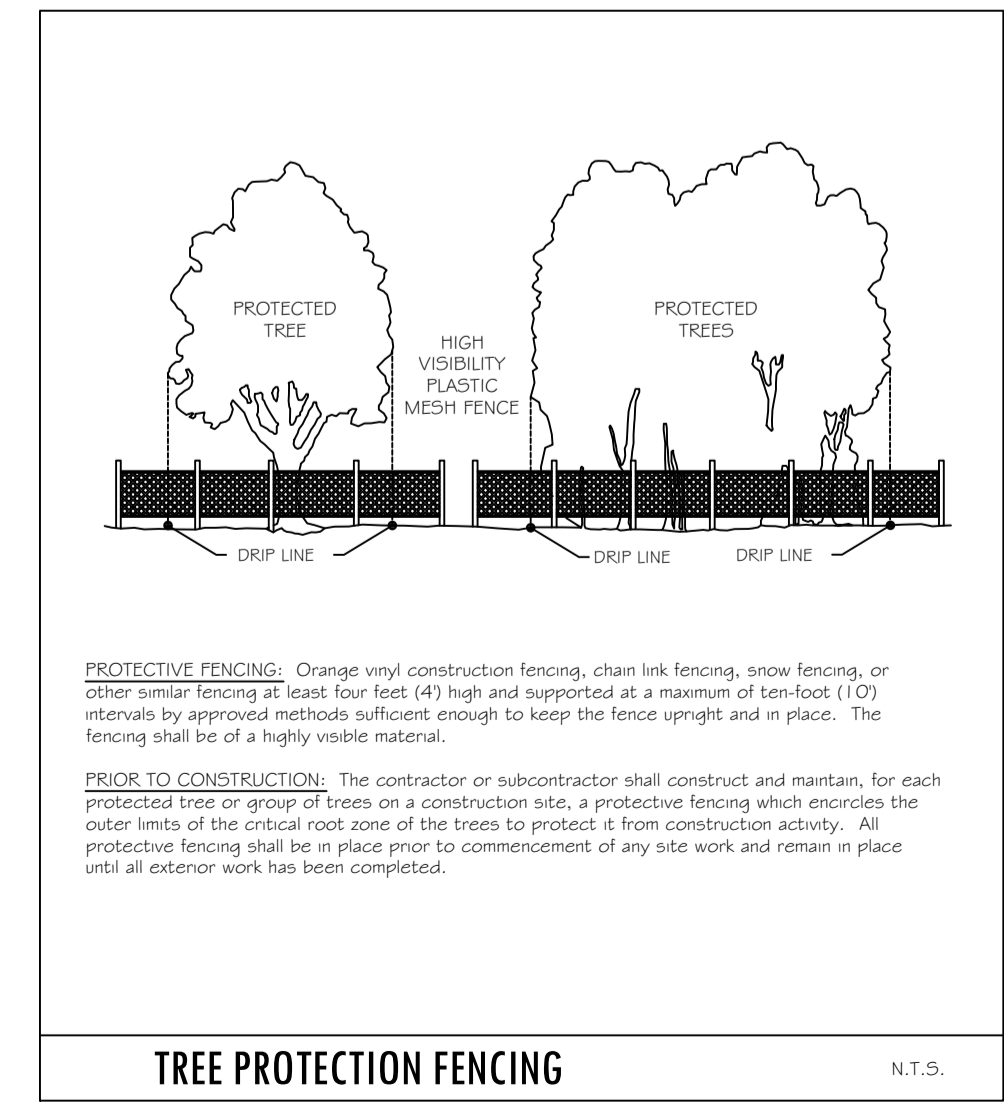
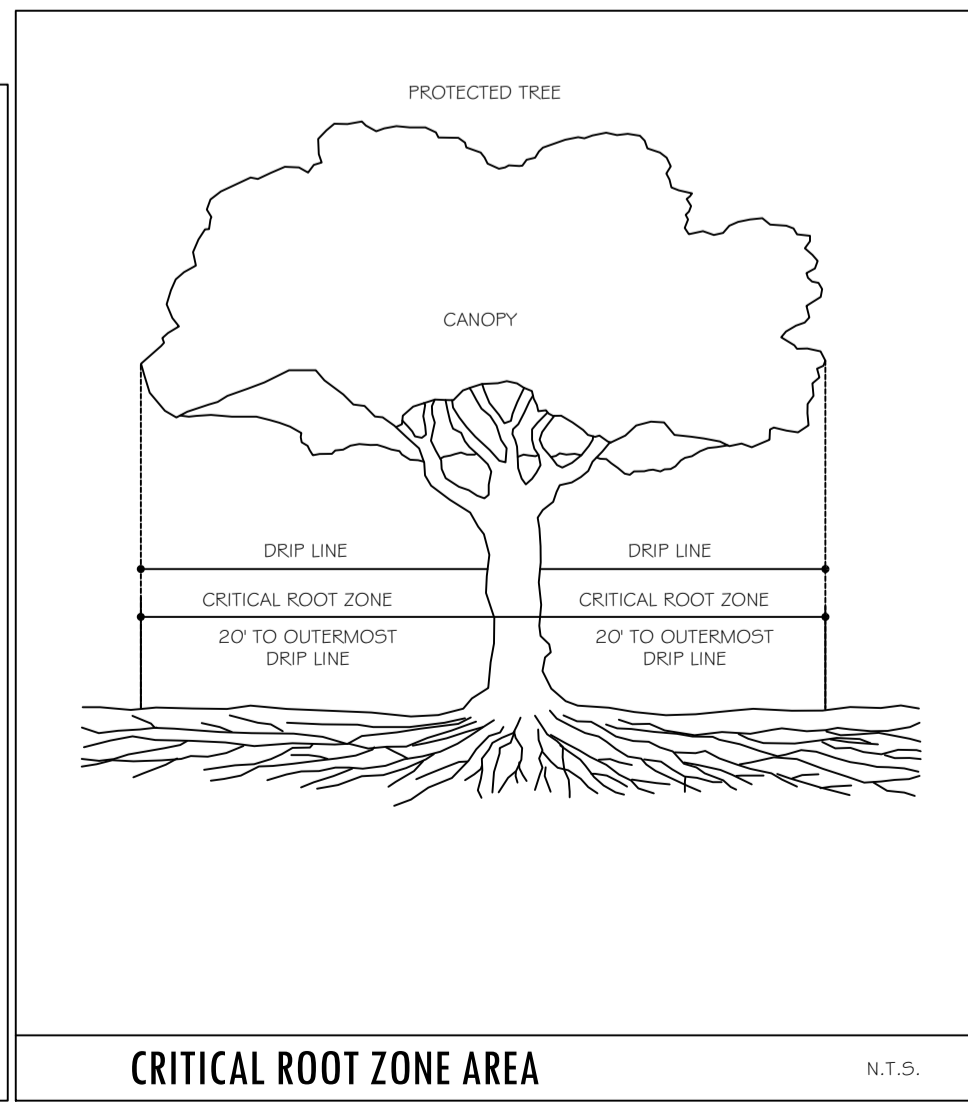
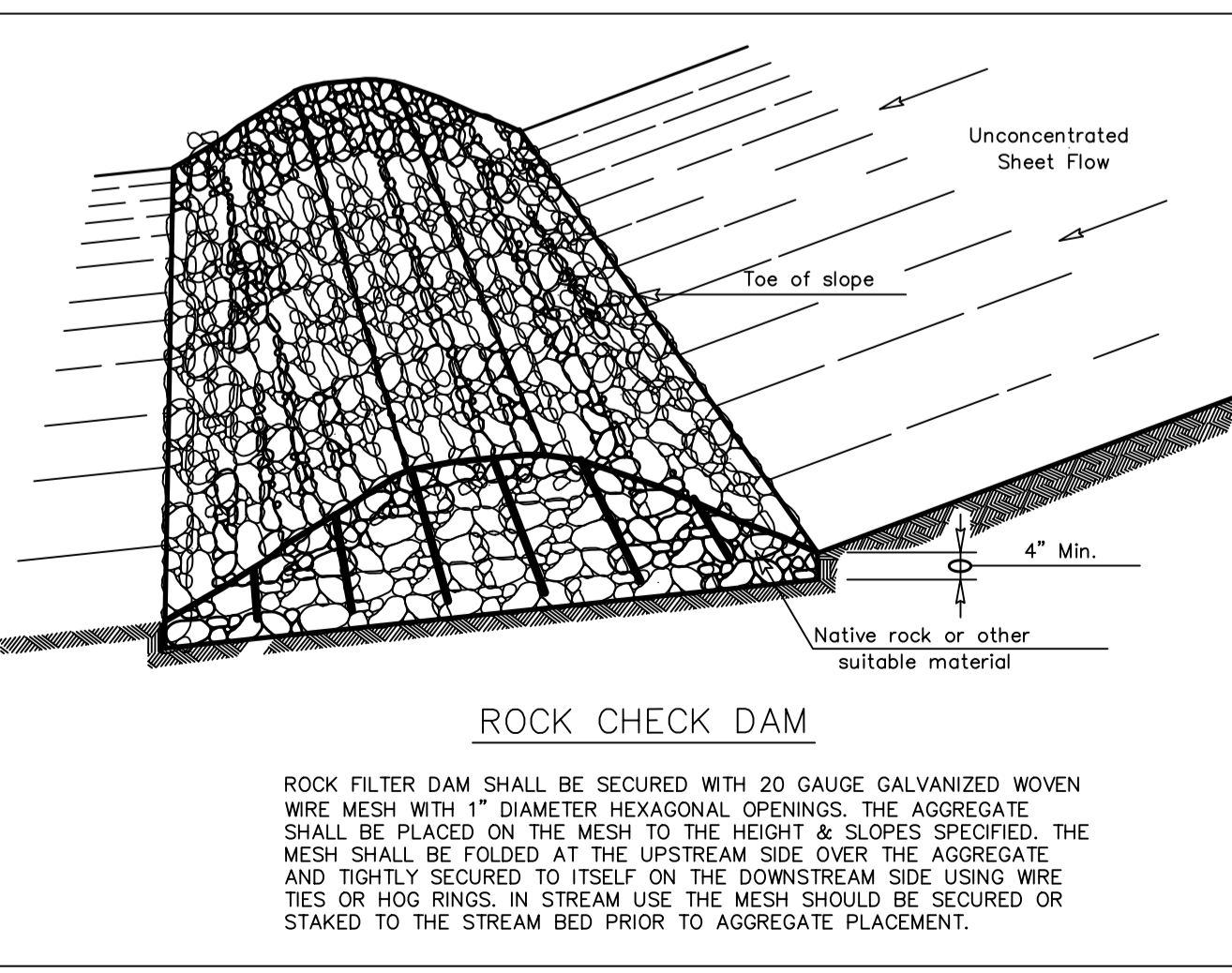
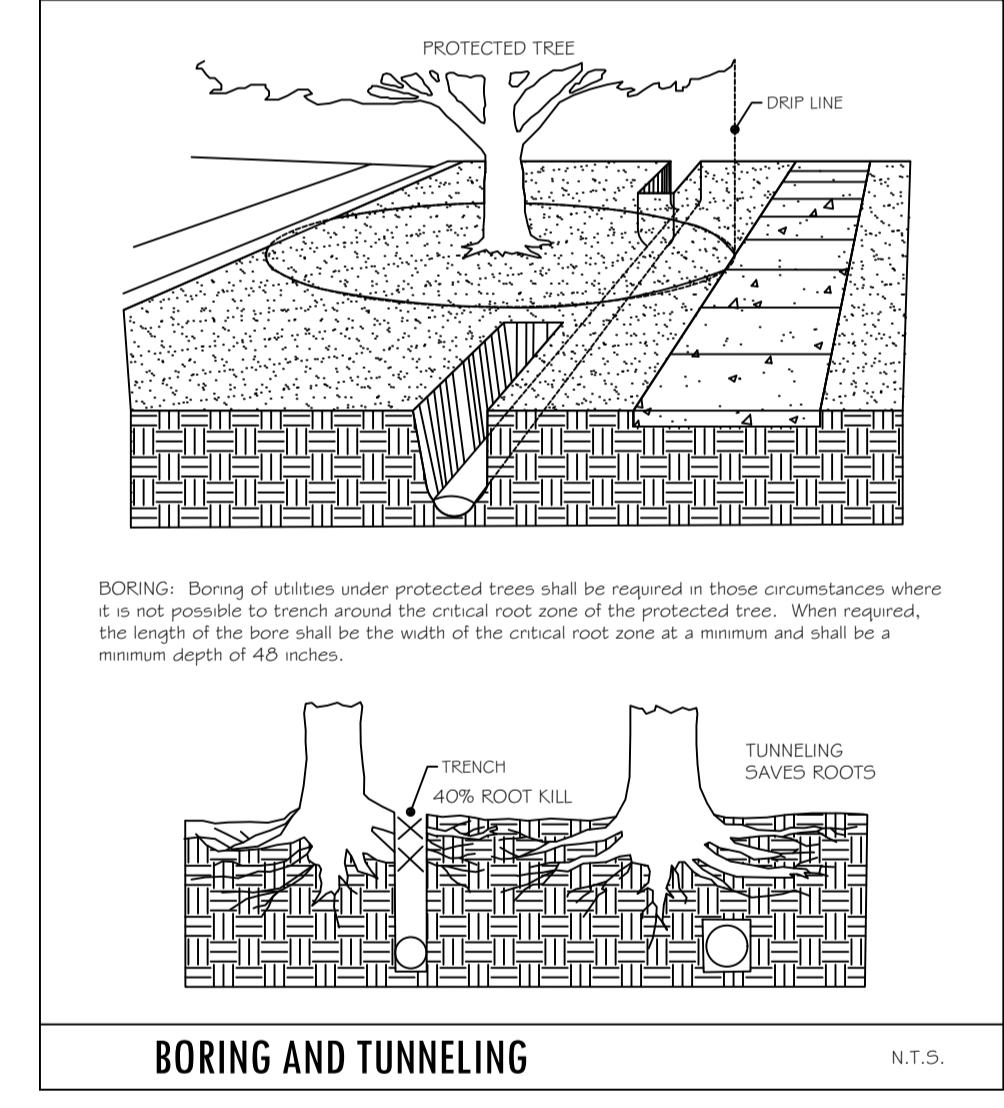
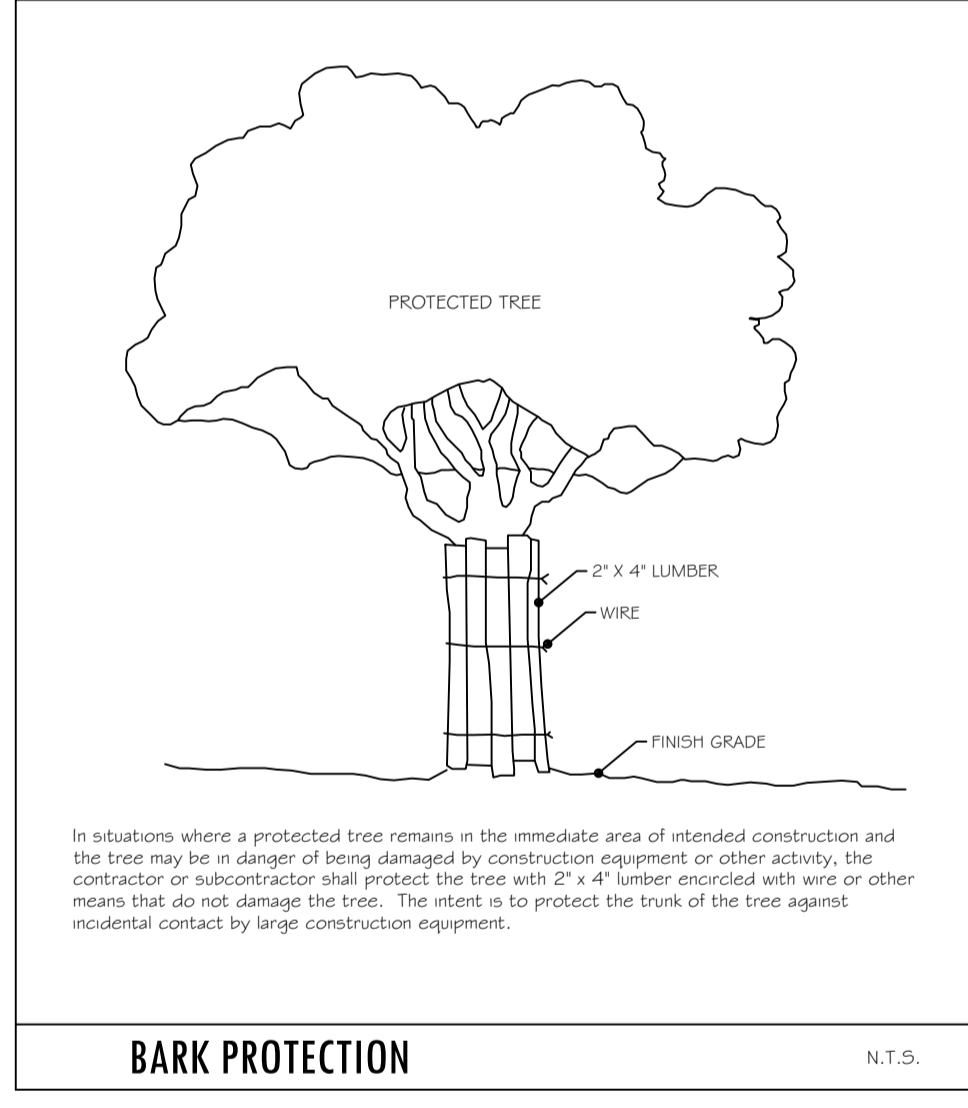
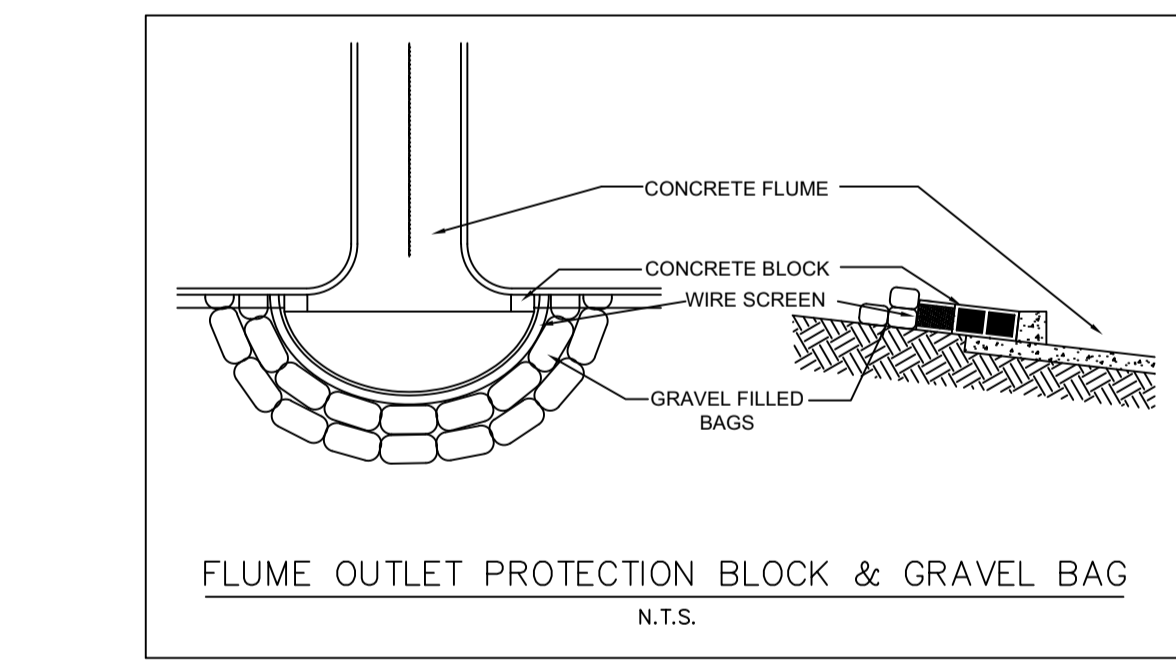
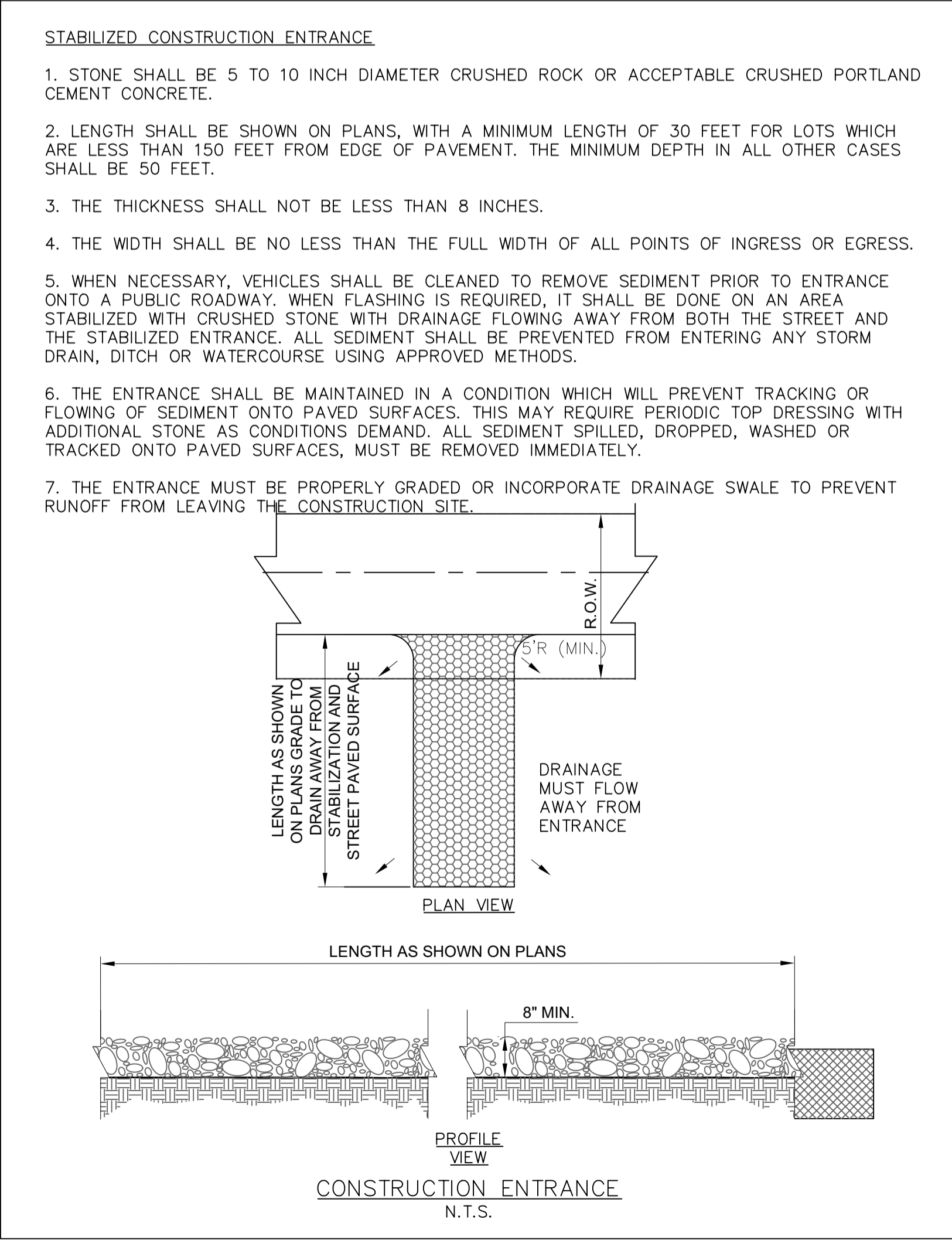
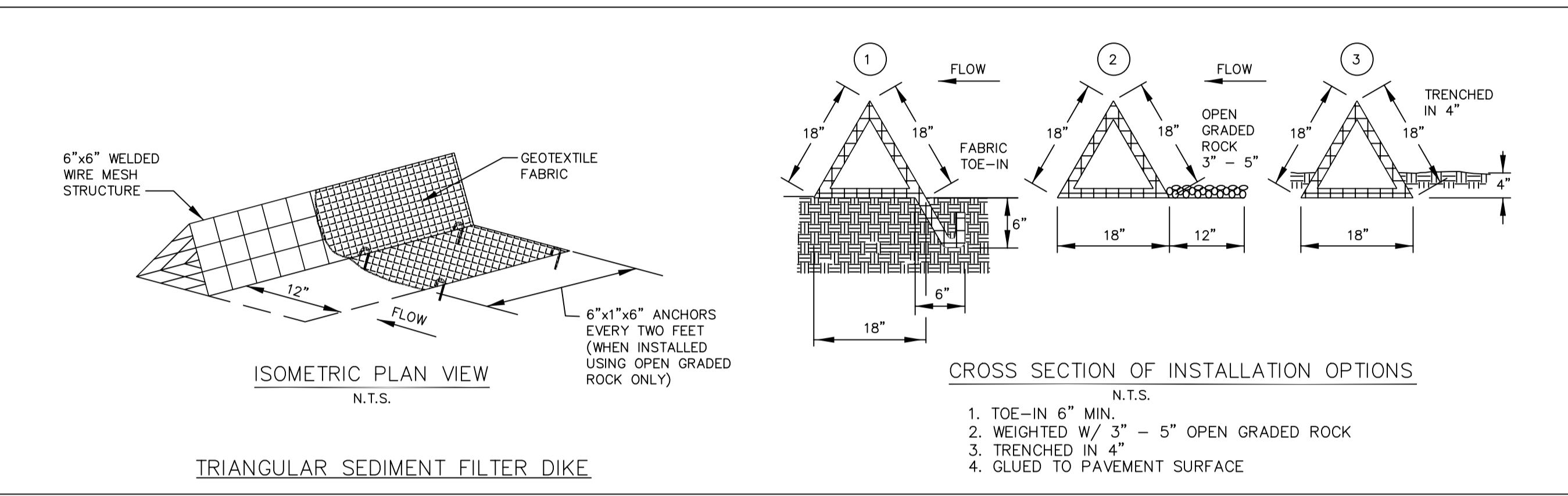
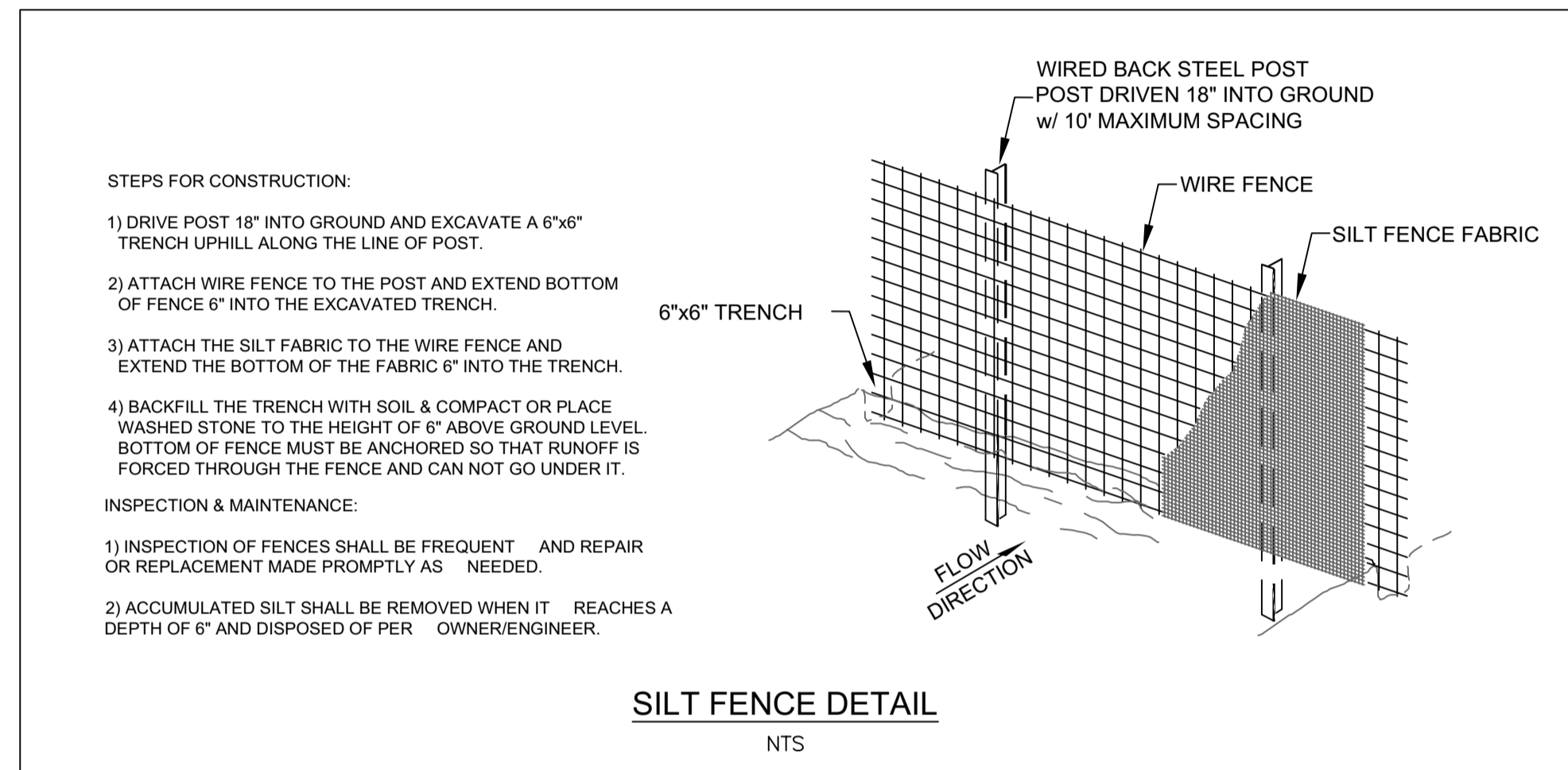
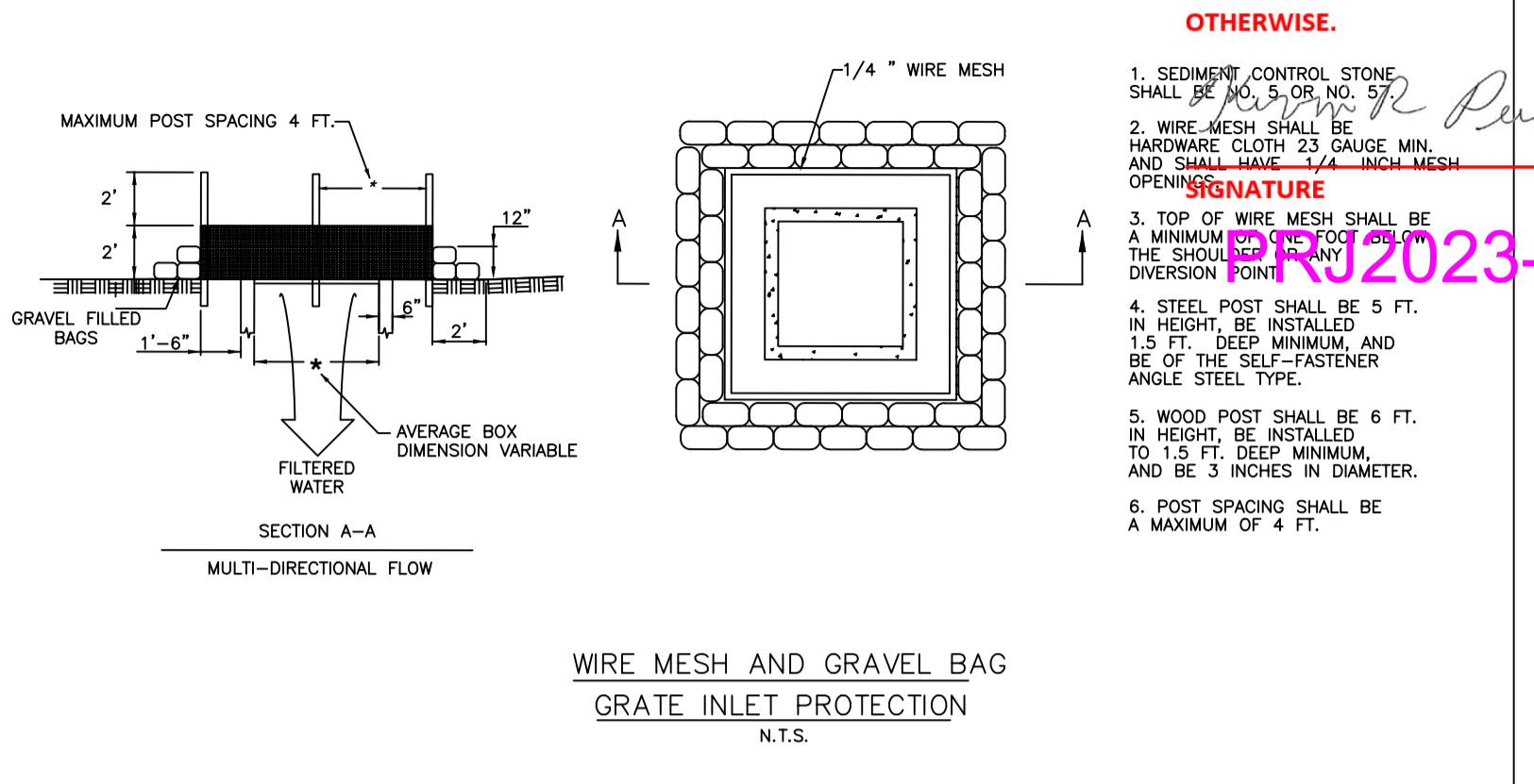
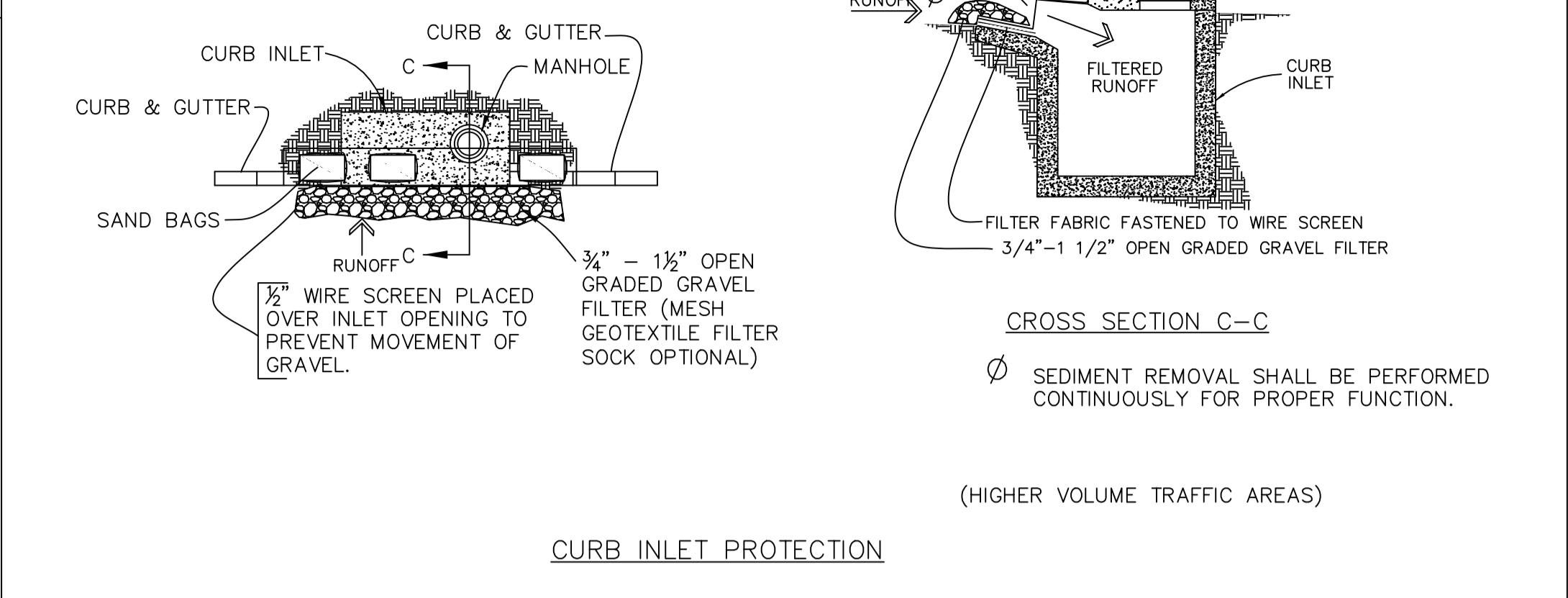
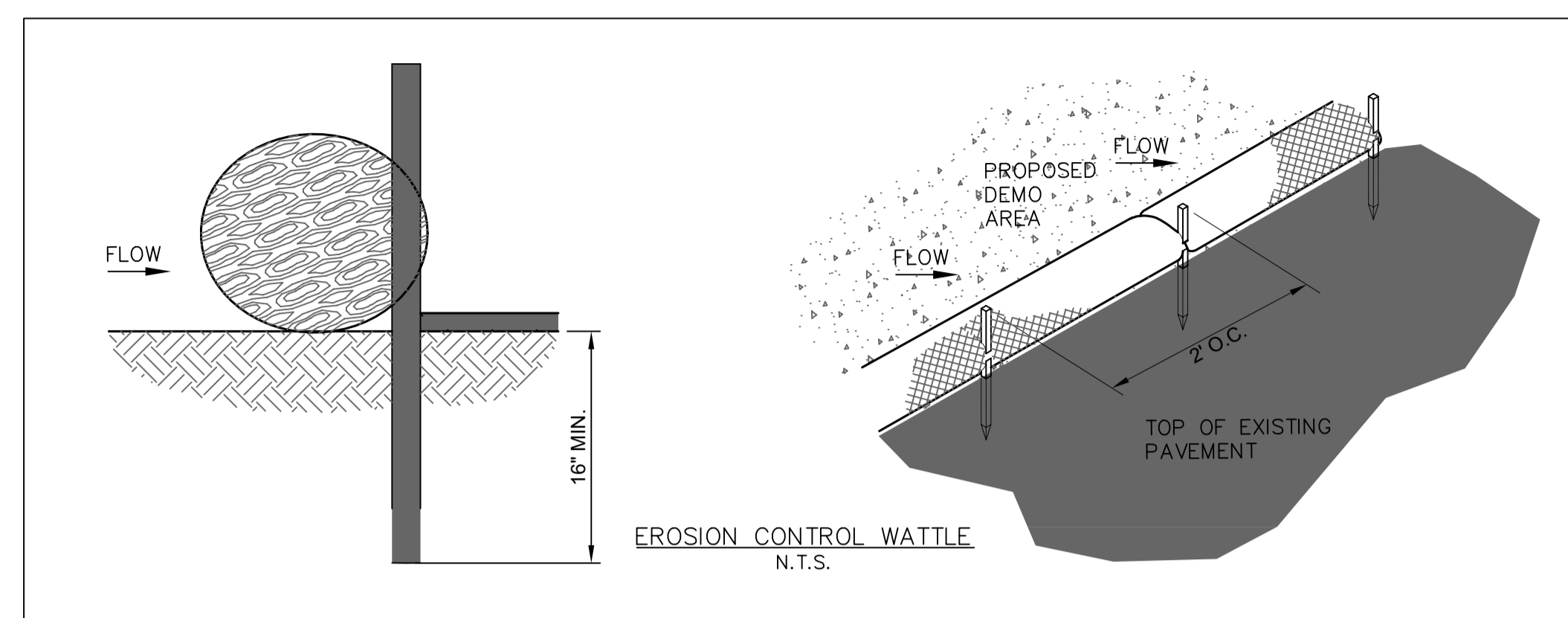


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01/27/23  
DATE

2023-0032

Project No. 520054201



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Revisions		
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<p><b>LANGAN</b> Langan Engineering and Environmental Services, Inc. 8951 Cypress Waters Blvd, Suite 150 Dallas, TX 75019 T: 817.328.3200      www.langan.com MO Certificate of Authorization No. F001330220</p>		
<p>Project <b>McDONALD'S NEW PROJECT</b> <b>L/C 024-1290</b> <b>3720 WEST SUNSHINE STREET</b> <b>SPRINGFIELD</b></p>		
<p><b>EROSION CONTROL DETAILS</b></p>		
Project No.	Drawing No.	
520054201	C3.1	
Date	Sheet 6 of 29	
DECEMBER 2022		
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OROD		
Checked By		
DWL		



BUILDING OFFICIAL  
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Signature: *Kevin R. Penix* DATE: 01/27/23  
PRJ2023-00032

NO.	DATE	DESCRIPTION

Authorized User:  
 Survey  
 Design Dev.  
 Permitting  
 Bidding  
 Construction

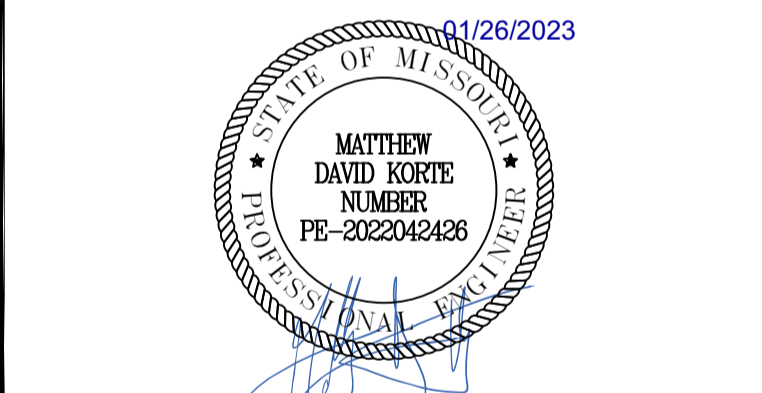
FRIENDLY ENVIRONMENT  
100 PRINCE STREET  
SHELBYVILLE, TENNESSEE 37160  
1-931-607-5953

PERIMETER CONTROL AND SHEET  
(INTER-RILL) FLOW INTERCEPTION  
FOR THE EROSION EEL™

NOTE: DRAWINGS SUBJECT TO REVISIONS AT DISCRETION OF MANUFACTURER  
 OF: [Blank]  
 DRAWING NO.: E-1  
 DATE: [Blank]  
 DRAWN BY: [Blank]  
 CHECKED BY: [Blank]  
 PROJECT NO.: [Blank]  
 QUALITY MANAGER APPROVAL: [Blank]

Date	Description	No.
Revisions		

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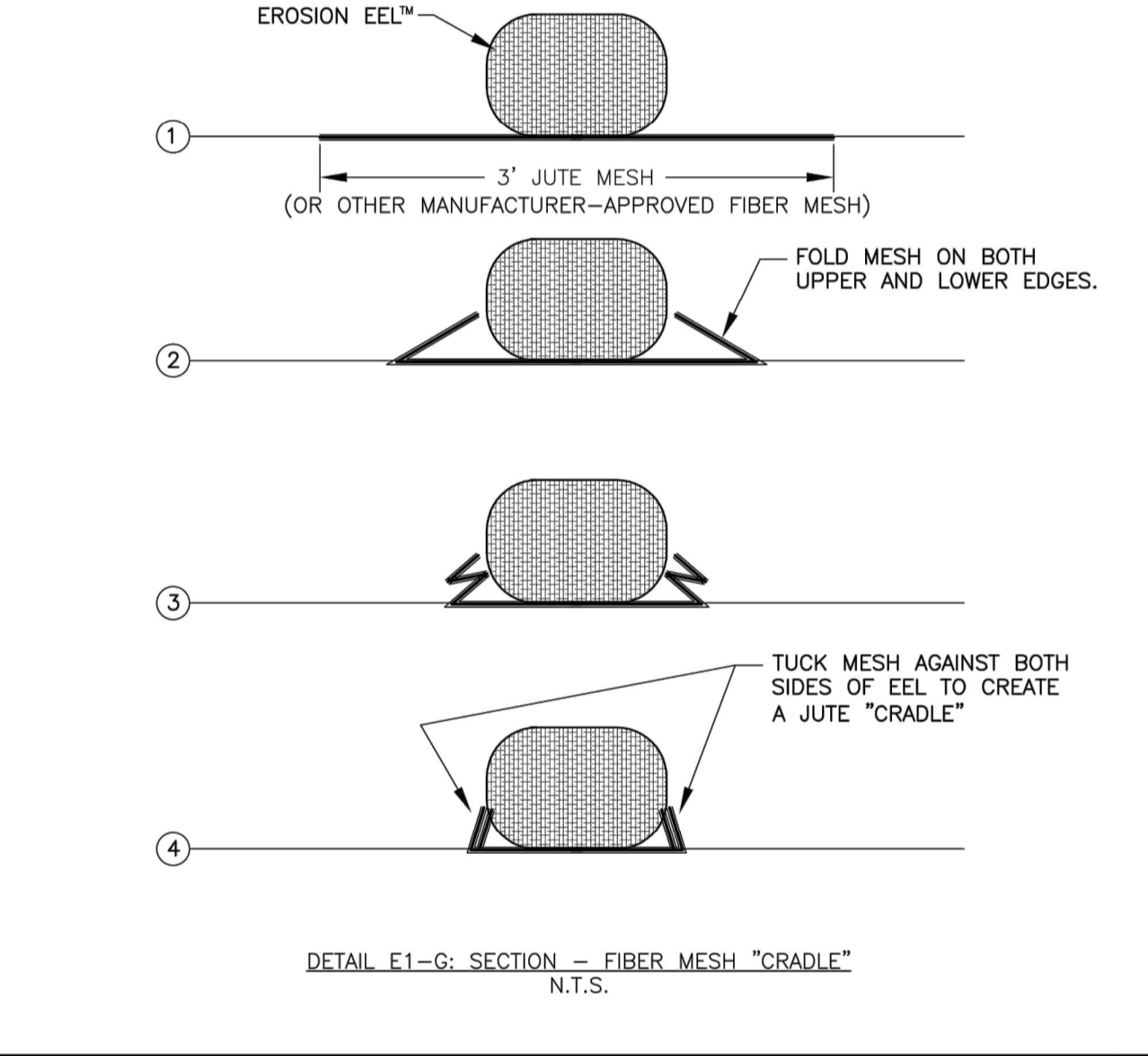
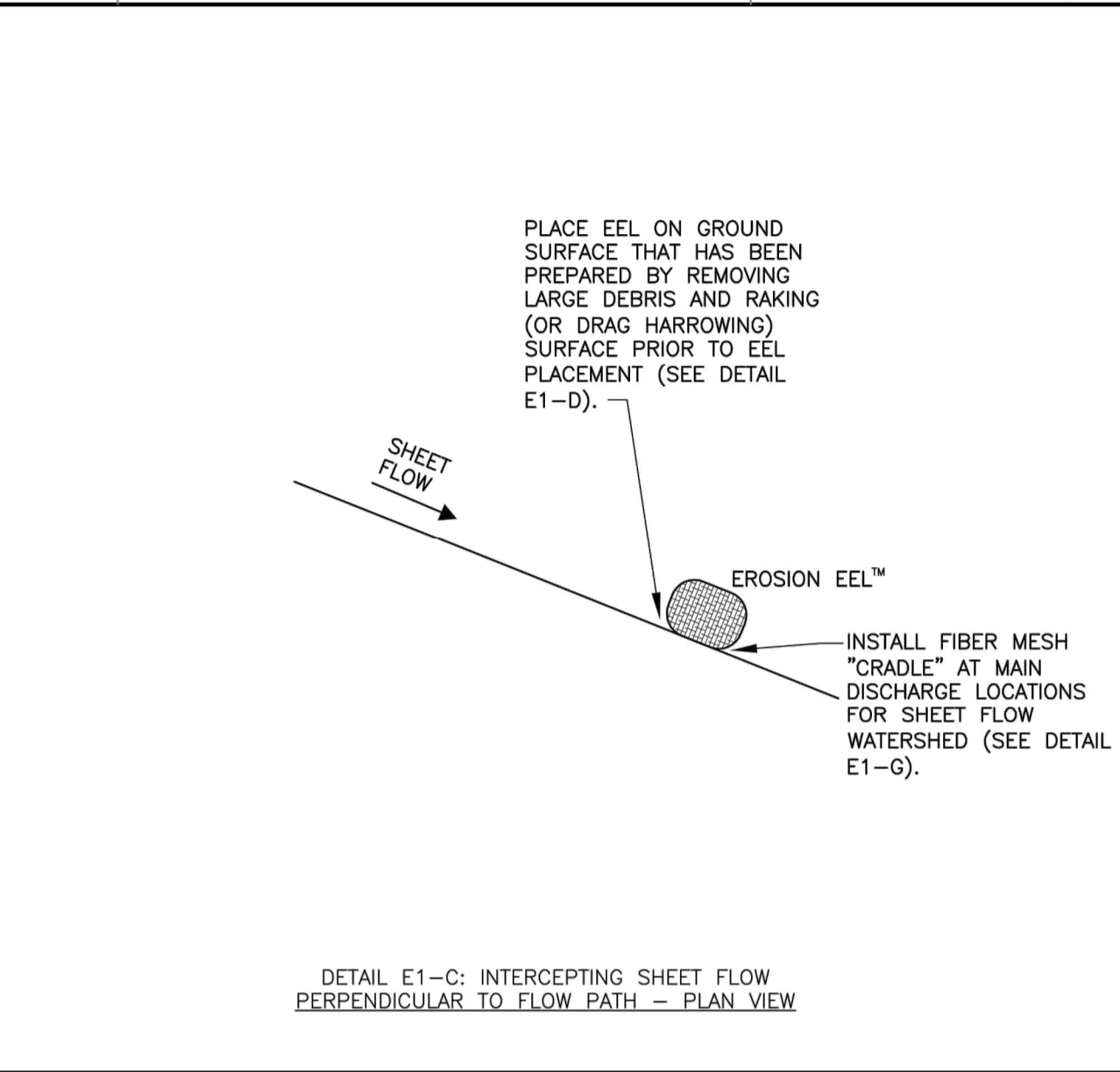
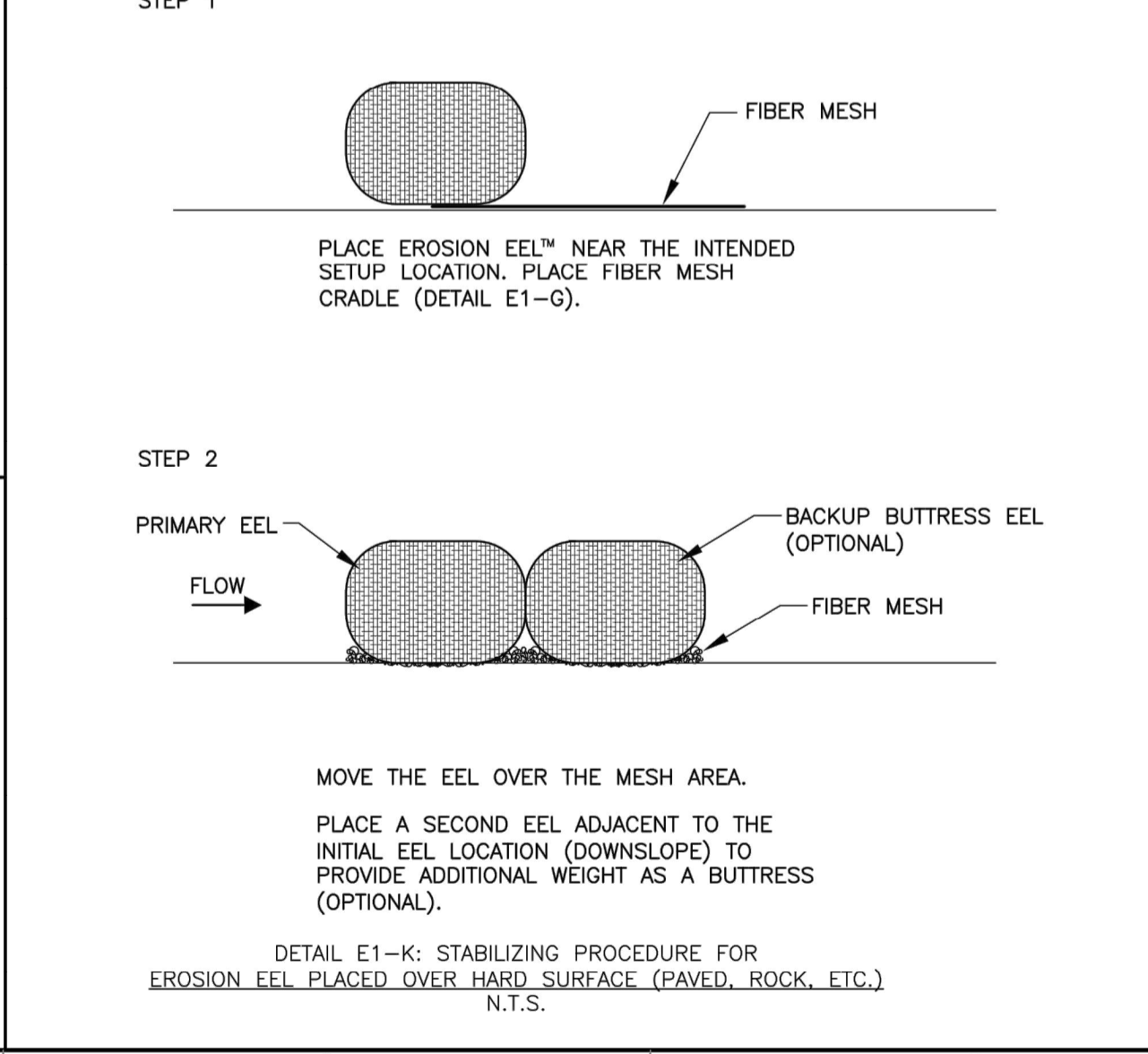
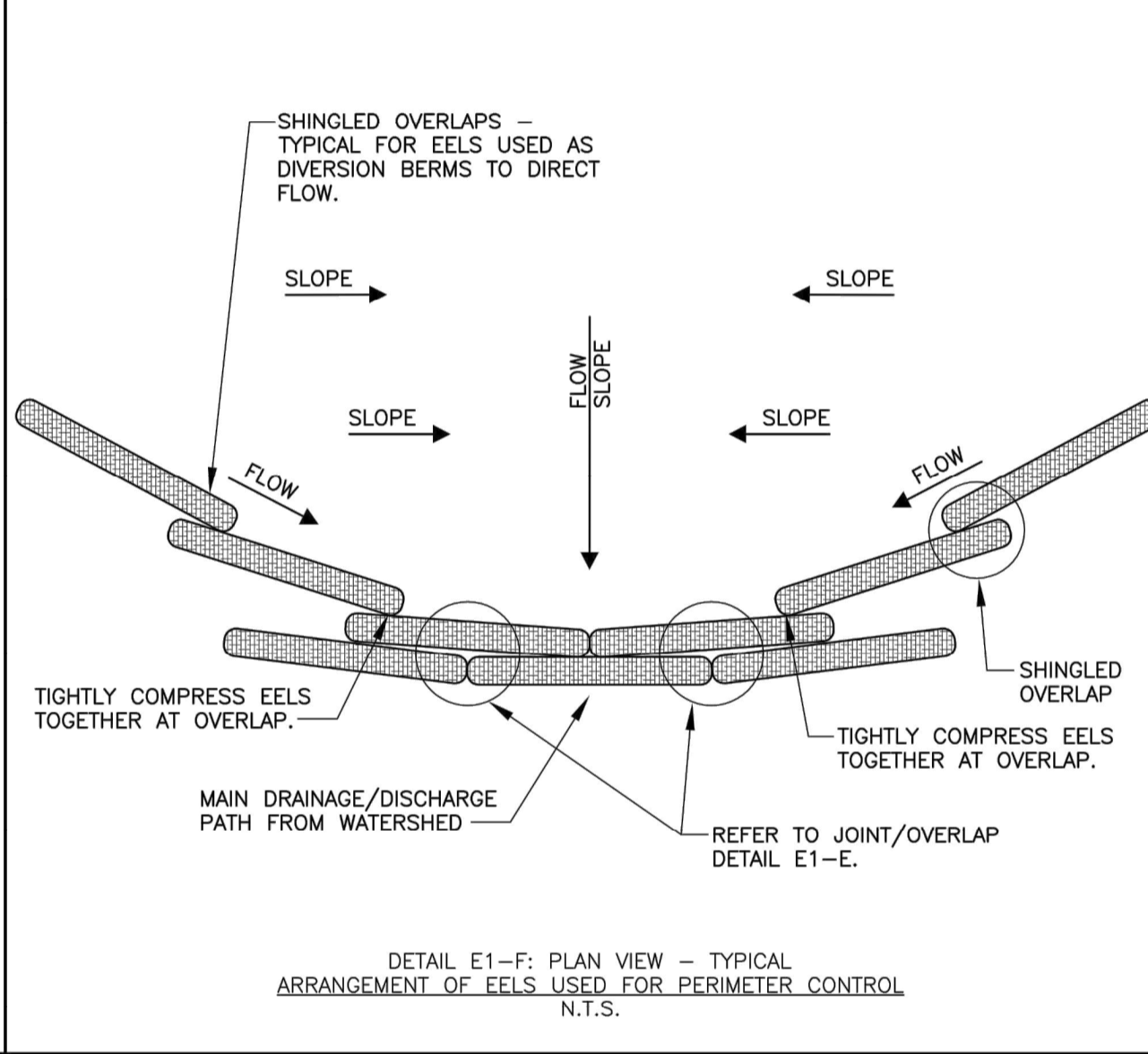
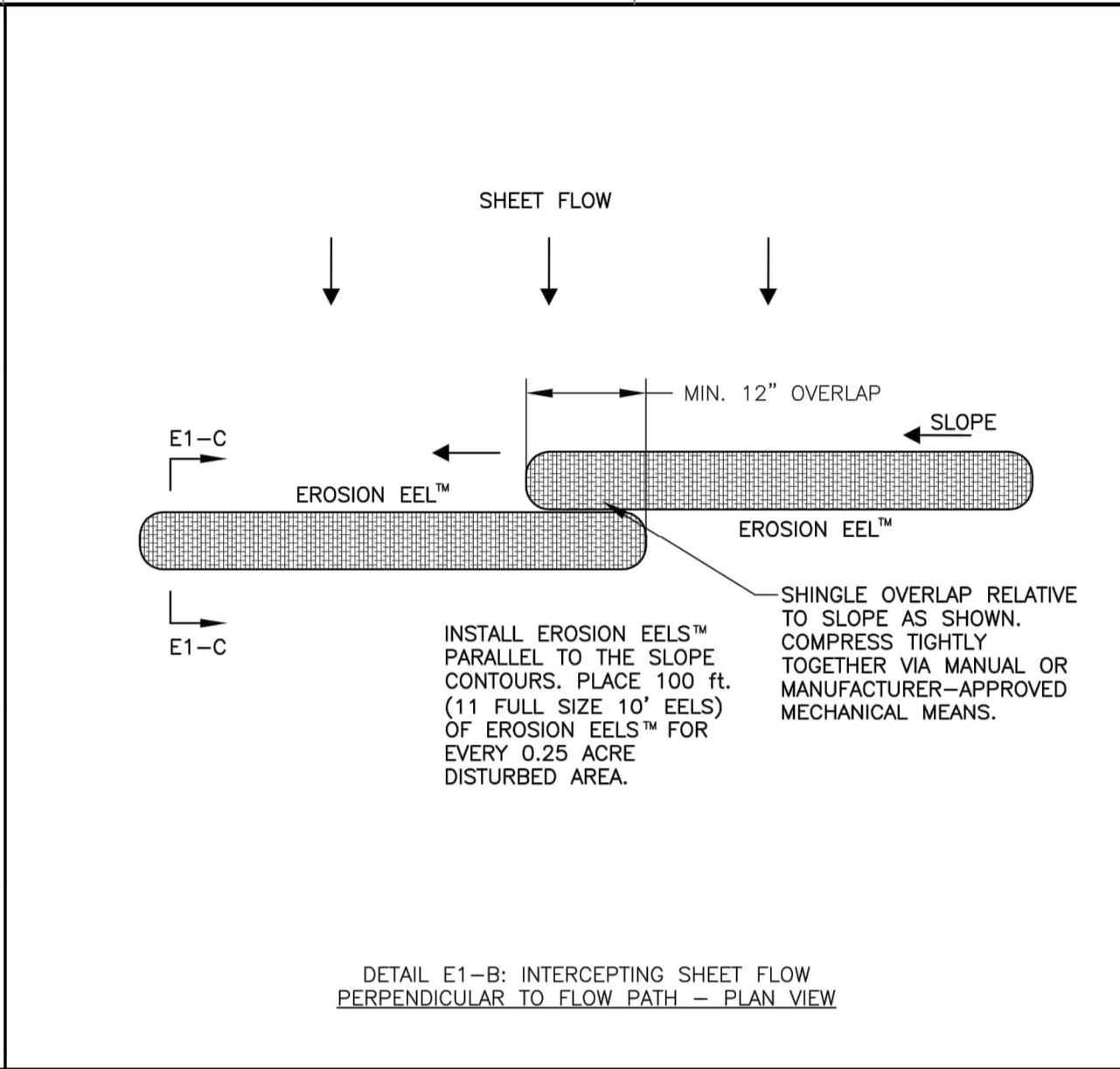
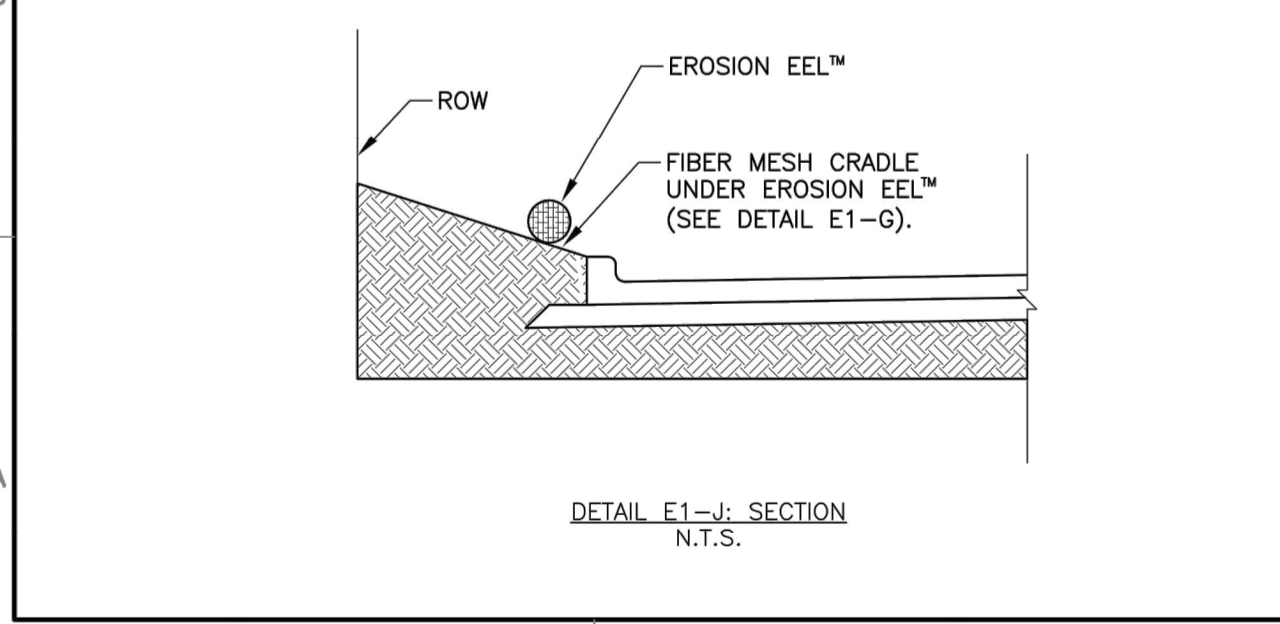
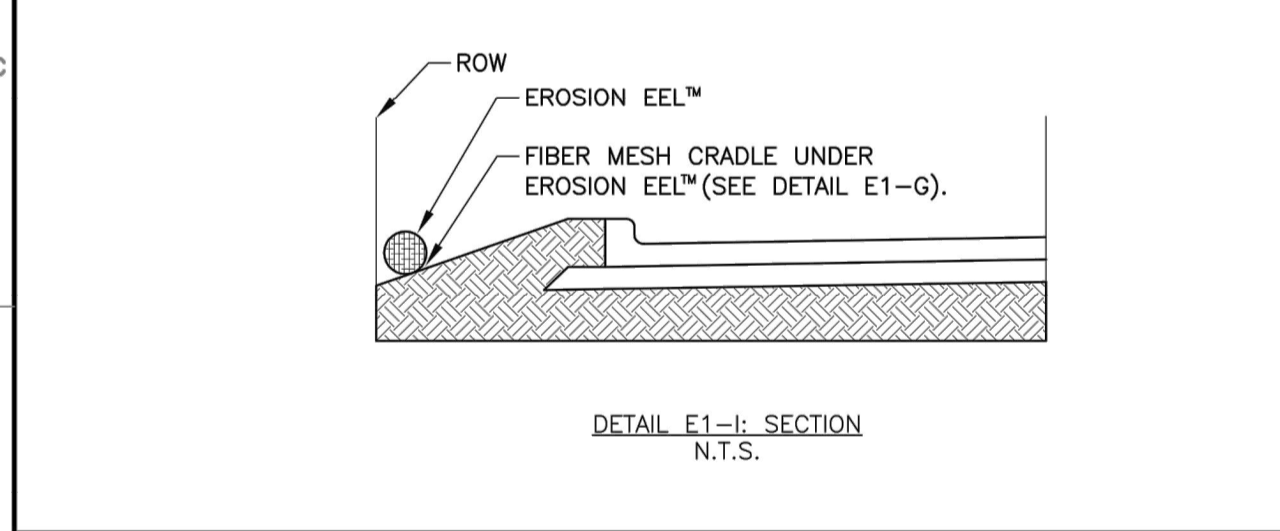
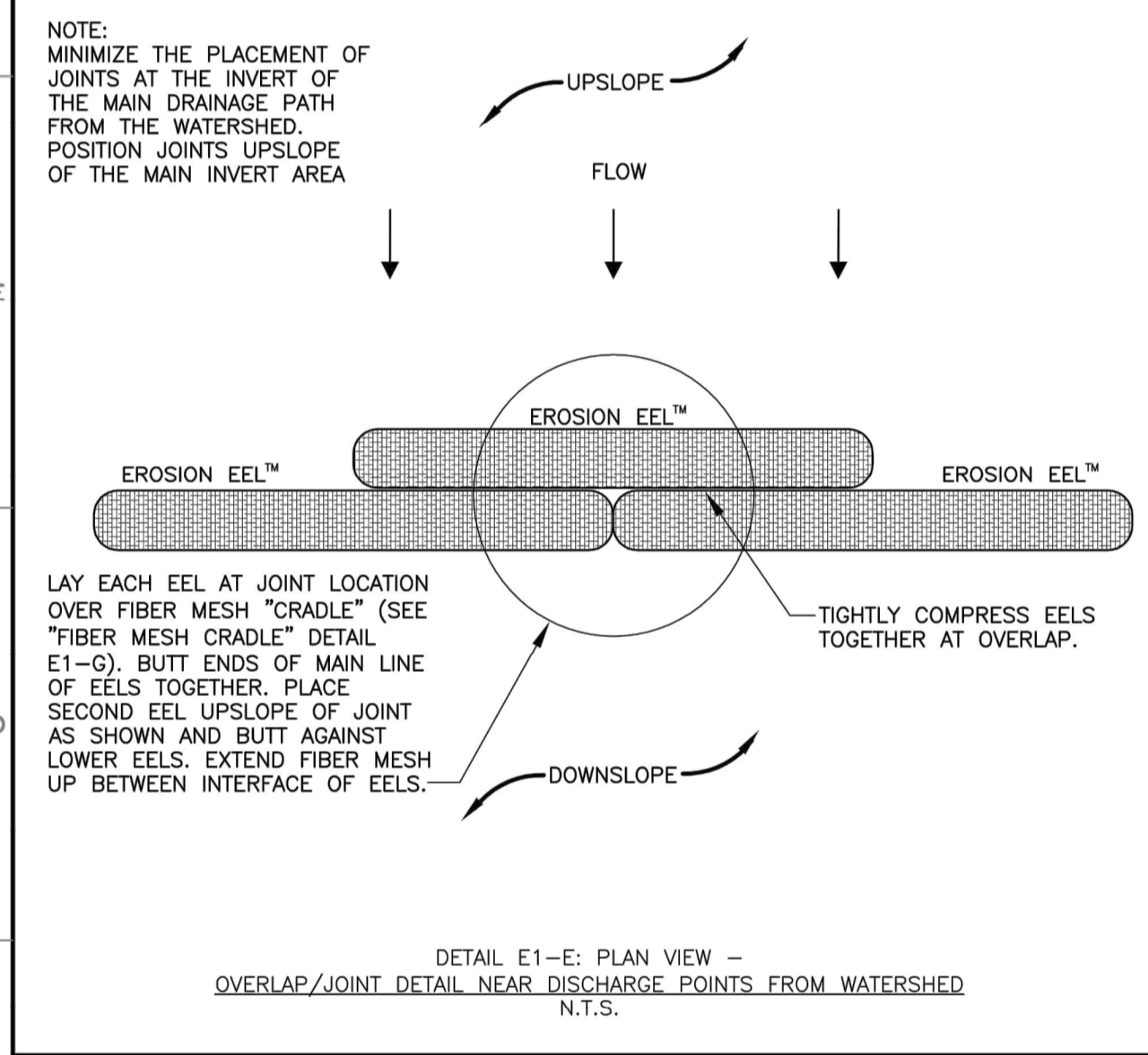
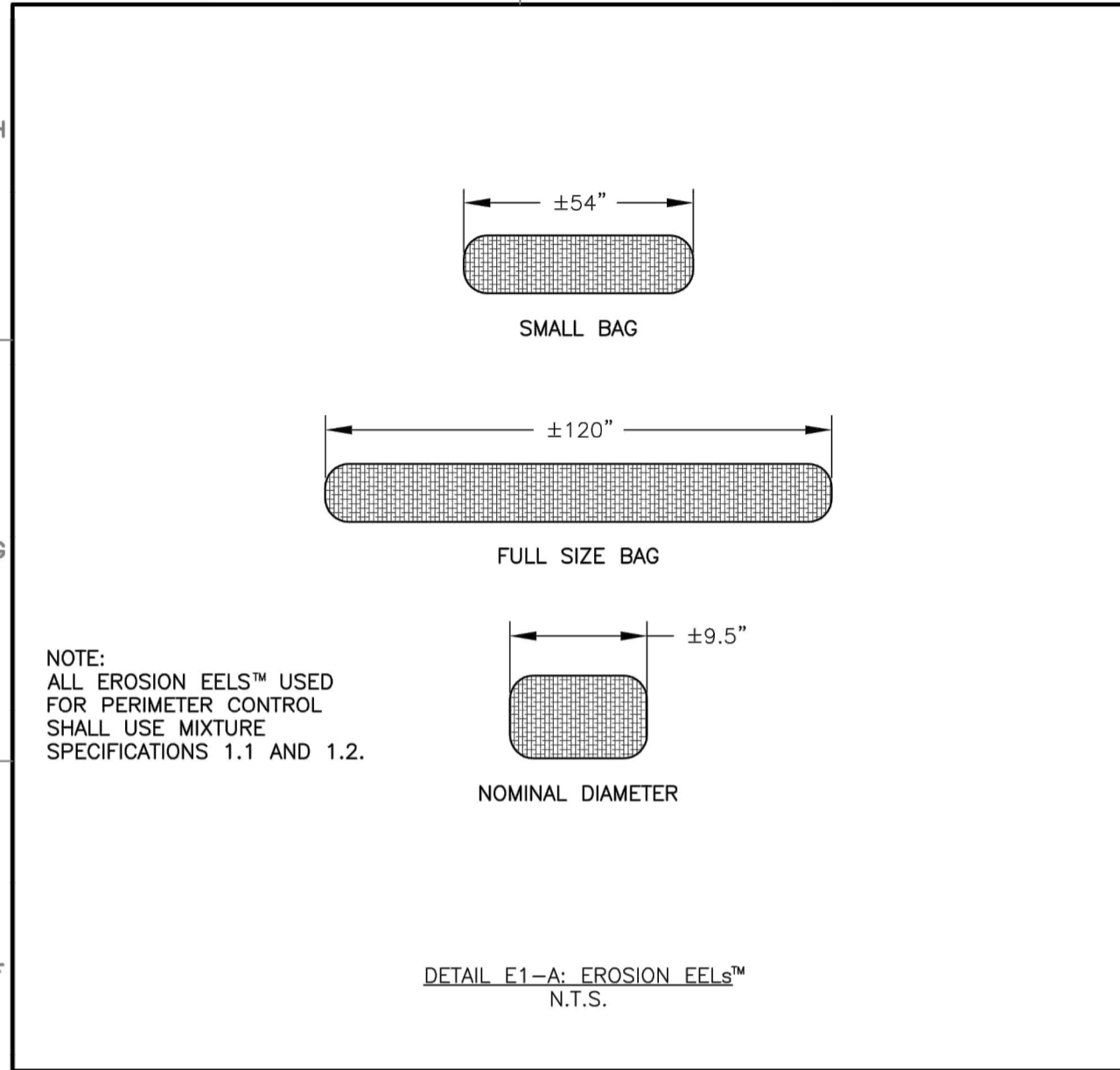


**LANGAN**  
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 8951 Cypress Waters Blvd, Suite 150  
 Dallas, TX 75019  
 T: 817.328.3200 www.langan.com  
 MO Certificate of Authorization No. F001330220

Project: **McDONALD'S NEW PROJECT**  
**L/C 024-1290**  
**3720 WEST SUNSHINE STREET**  
**SPRINGFIELD**

**EROSION CONTROL DETAILS**

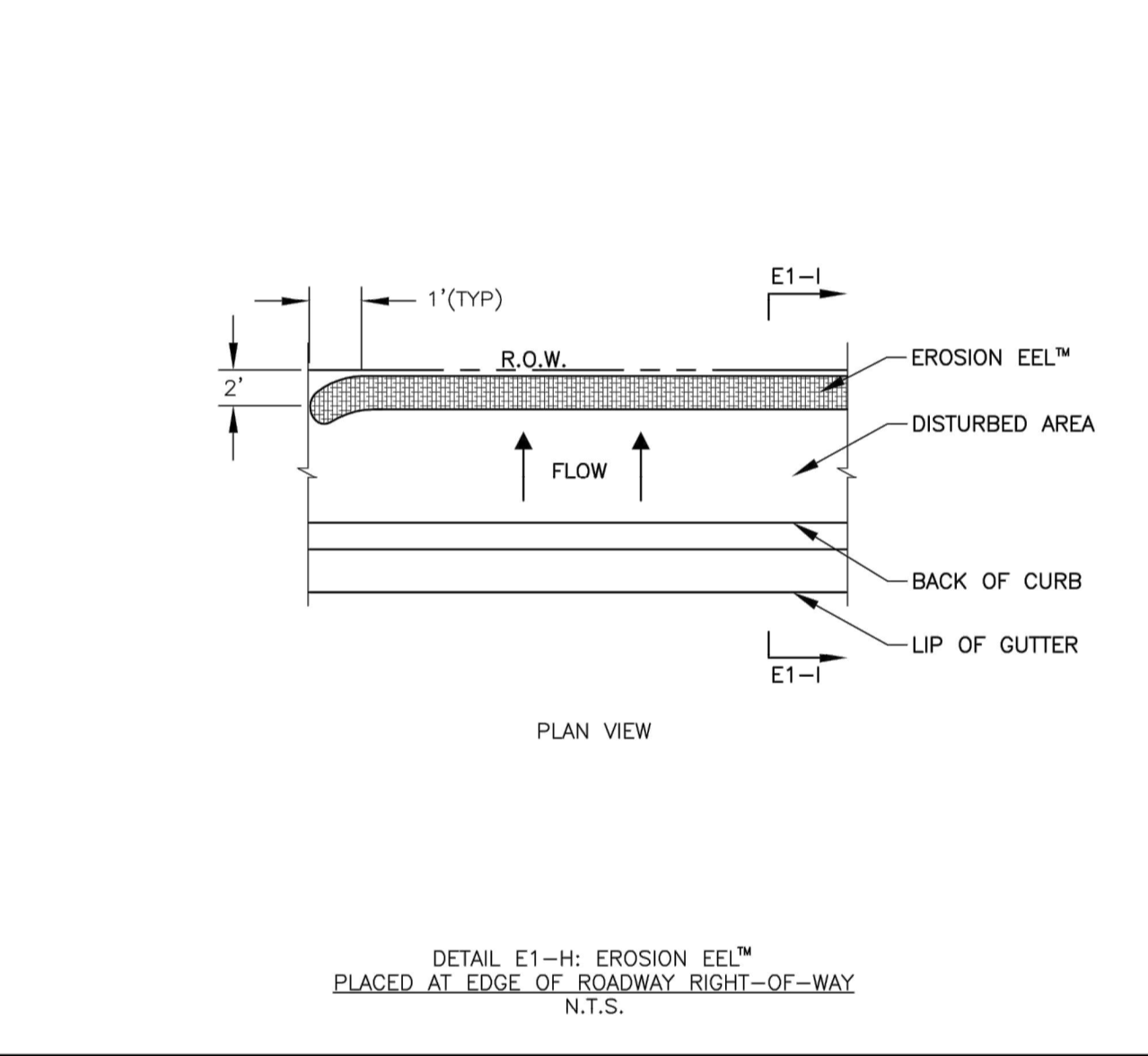
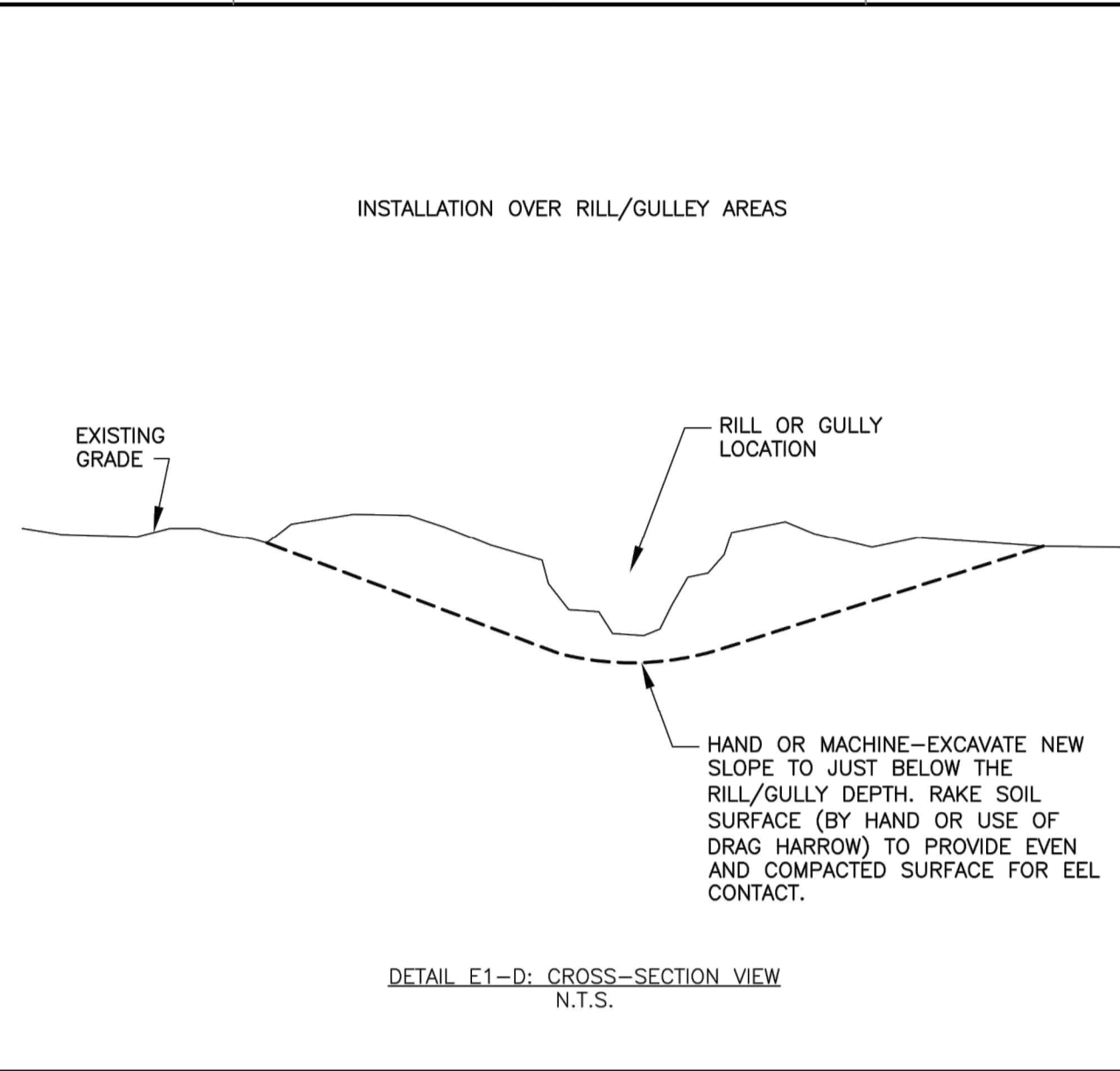
Project No. 520054201 Drawing No. C3.2  
 Date: DECEMBER 2022  
 Drawn By: OROD  
 Checked By: DWL  
 Sheet 7 of 29



**Spacing Recommendations for the Erosion Eel™ for Perimeter Controls and Intercepting Sheet Flow on Slopes**

SLOPE (%)	*Stacked	
	single eel spacing (ft)	Dual eel spacing (ft)
0.5	300	N/A
1	200	N/A
2	160	N/A
3	80	N/A
4	50	N/A
5	40	N/A
6	35	N/A
8	30	N/A
10	25	N/A
15	17	N/A
20	12	25
25	7	15
33	N/A	10
50	N/A	6

\* DUAL STACK REFERS TO TWO EELS STACKED ATOP ONE ANOTHER AND STABILIZED WITH T-POSTS. SEE DETAIL E2-E ON SHEET E-2.



**GENERAL NOTES:**

- EROSION EELS™ USED IN PERIMETER CONTROL APPLICATIONS SHALL HAVE A SPECIFICATION MIXTURE 1.1 OR 1.2.
- MIXTURE SPECIFICATION 1.1. A FILTER MIXTURE COMPRISED OF 50% SHREDDED RUBBER AND 50% WOOD CHIP PARTICLES BY VOLUME. THE SHREDDED RUBBER SHALL BE WASHED AND PROCESSED TO REMOVE MOST, IF NOT ALL, METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OF +/- 3/4 INCH. THE WOOD CHIPS SHALL BE PRODUCED FROM HARDWOOD TREES AND SHALL CONFORM TO ASHITO CERTIFICATION SPECIFICATION MP 9-03.
- MIXTURE SPECIFICATION 1.2. A FILTER MIXTURE COMPRISED OF 1/3 SHREDDED RUBBER, 1/3 WOOD CHIPS, AND 1/3 RECYCLED SYNTHETIC FIBERS. THE SHREDDED RUBBER SHALL BE WASHED AND PROCESSED TO REMOVE MOST, IF NOT ALL, METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OF +/- 3/4 INCH. THE WOOD CHIPS SHALL BE PRODUCED FROM HARDWOOD TREES AND SHALL CONFORM TO ASHITO CERTIFICATION SPECIFICATION MP 9-03. THE SYNTHETIC FIBERS SHALL BE PRODUCED FROM RECYCLED, MANUFACTURED MATERIALS, SUCH AS, BUT NOT LIMITED TO, PRE-CONSUMER SCRAP CARPET, THE CHORD, AND THE FIBER MATERIALS.
- EROSION EELS™ SHALL BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE COVERING WITH INTERIOR FILTER MATERIALS SUCH AS 100SB SHREDDED RUBBER (MIXTURE SPECIFICATION 1.0), 50% SHREDDED RUBBER/50% ASHITO-CERTIFIED WOOD CHIPS (MIXTURE SPECIFICATION 1.1), OR 1/3 SHREDDED RUBBER/1/3 ASHITO-CERTIFIED WOOD CHIPS/1/3 RECYCLED SYNTHETIC FIBERS (MIXTURE SPECIFICATION 1.2).
- LENGTHS OF EROSION EELS™ SHALL BE EITHER A NOMINAL +/-10 FT. OR +/- 4.5 FT. NOMINAL DIAMETER SHALL BE +/-9.5 INCHES.
- EROSION EELS™ CAN BE PLACED AT THE TOP, ON THE FACE, OR AT THE TOE OF SLOPES TO INTERCEPT RUNOFF, REDUCE FLOW VELOCITY, RELEASE THE RUNOFF AS SHEET FLOW AND PROVIDE REMOVAL OF SEDIMENT FROM THE RUNOFF.
- EROSION EELS™ SHALL BE INSTALLED ALONG THE GROUND CONTOUR, AT THE TOE OF SLOPES, AT AN ANGLE TO THE CONTOUR TO DIRECT FLOW AS A DIVERSION BERM, AROUND INLET STRUCTURES, IN A DITCH AS A CHECK DAM TO HELP REDUCE SUSPENDED SOLIDS LOADING AND RETAIN SEDIMENT, OR AS A GENERAL FILTER FOR ANY DISTURBED SOIL AREA.
- NO TRENCHING IS REQUIRED FOR INSTALLATION OF EROSION EELS™.
- PREPARE BED FOR EEL INSTALLATION BY REMOVING ANY LARGE DEBRIS INCLUDING ROCKS, SOIL CLOUDS, AND WOODY VEGETATION. EROSION EELS™ CAN ALSO BE PLACED OVER PAVED SURFACES INCLUDING CONCRETE AND ASPHALT WITH NO SURFACE PREPARATION REQUIRED.
- RAKE BED AREA WITH A HAND RAKE OR BY DRAG HARROW.
- DO NOT PLACE EEL DIRECTLY OVER RILL AND GULLIES UNTIL AREA HAS BEEN HAND-EXCAVATED AND RAKED TO PROVIDE A LEVEL BEDDING SURFACE. ALL SURFACES SHALL BE UNIFORMLY COMPACTED FOR MAXIMUM SEATING OF EELS IN PLACE.
- FOR LOCATIONS WHERE EELS WILL BE PLACED IN CONCENTRATED FLOWS (SUCH AS CHECK DAMS, INLET PROTECTION) AND FOR PERIMETER CONTROLS AT PRIMARY DISCHARGE LOCATIONS, BED THE EELS IN A JUTE MESH CRADLE PER THE DETAILED DRAWINGS.
- FOR DITCH APPLICATIONS, THE MAXIMUM DRAINAGE AREA SHALL BE 10 ACRES.
- IF MORE THAN ONE EROSION EEL™ IS PLACED IN A ROW, THE EELS SHALL BE OVERLAPPED A MINIMUM OF 12 INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE JOINT. COMPRESS THE TWO EELS OF THE OVERLAP TIGHTLY TOGETHER EITHER BY HAND OR MANUFACTURER-APPROVED MECHANIZED MEANS.
- WHEN USED IN DITCHES AS A CHECK DAM, EROSION EELS™ SHALL BE INSTALLED PER MANUFACTURER'S DETAILS.
- FOR CHECK DAM APPLICATIONS, EROSION EELS™ SHALL BE PLACED PERPENDICULAR TO THE FLOW OF THE WATER. EROSION EELS™ SHALL CONTINUE UP THE SIDES SLOPES A MINIMUM OF 3 FEET ABOVE THE DESIGN FLOW DEPTH.
- EROSION EELS™ SHALL REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION HAS COMPLETELY DEVELOPED OR UNTIL THE STORAGE CAPACITY/FUNCTIONAL LIFE OF THE EEL HAS BEEN EXHAUSTED (REQUIRING REPLACEMENT WITH NEW EELS).
- ANCHORING POSTS FOR CHECK DAM APPLICATIONS SHALL HAVE A MINIMUM WEIGHT OF 1.25 LBS/FT STEEL T-POSTS (5 TO 7 FT LENGTHS) ROLLED FROM HIGH CARBON STEEL. POSTS SHOULD BE HOT-DIP GALVANIZED OR COATED WITH A WEATHER-RESISTANT PAINT FOR STEEL APPLICATION. POSTS SHOULD BE EQUIPPED WITH A METAL ANCHOR PLATE. INSTALL PER DETAILS ON THIS SHEET.
- PLACE T-POSTS THROUGH HANDLE OF BAGS. DO NOT DRIVE POSTS THROUGH EROSION EELS™. T-POSTS ARE TO BE EMBEDDED A MINIMUM OF 2 FT INTO GROUND.

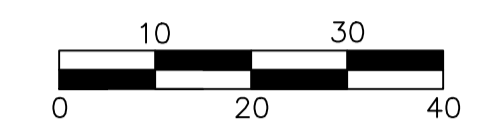
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REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS, OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

Signature: *Kevin R. Quinn* DATE: 04/21/23

PRJ2023-00032



SCALE: 1" = 20'

Project No. 520054201

**LEGEND**

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

**KEY NOTE LEGEND**

MARK	MARK DESCRIPTION
1	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)
7	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 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 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 : (PER STATE/CITY REQUIREMENTS)
22	4" OOSP STRIPING - COLOR : YELLOW
23	8" OOSP STRIPING - COLOR : YELLOW

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).

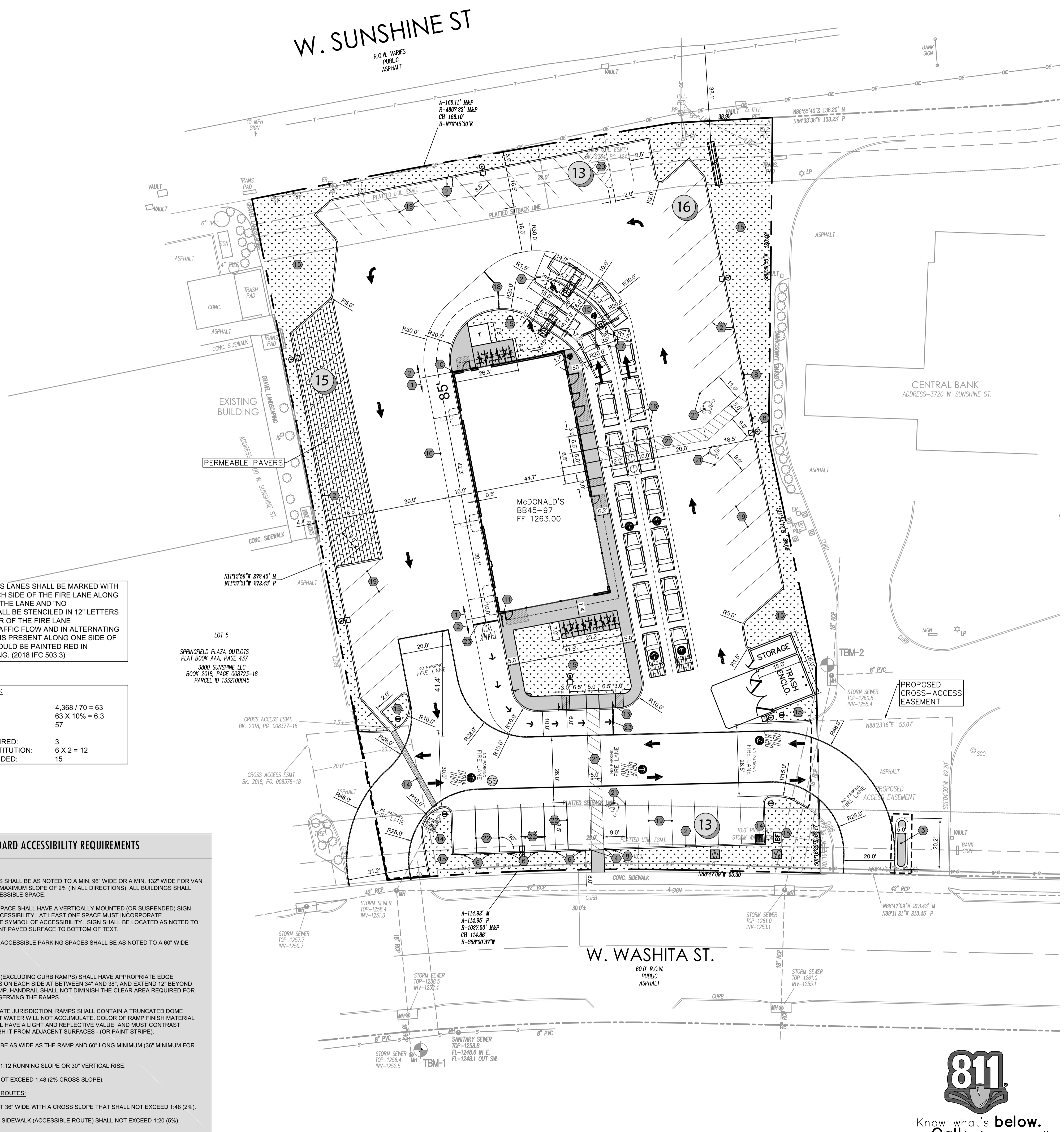
RAMPS SHALL NOT EXCEED A 1:12 RUNNING SLOPE OR 30" VERTICAL RISE.

RAMPS AND LANDING SHALL NOT EXCEED 1:48 (2% CROSS SLOPE).

**SIDEWALKS AND ACCESSIBLE ROUTES:**  
SIDEWALKS MUST BE AT LEAST 36" WIDE WITH A CROSS SLOPE THAT SHALL NOT EXCEED 1:48 (2%). LONGITUDINAL SLOPE OF ANY SIDEWALK (ACCESSIBLE ROUTE) SHALL NOT EXCEED 1:20 (5%).

**SITE INFORMATION**

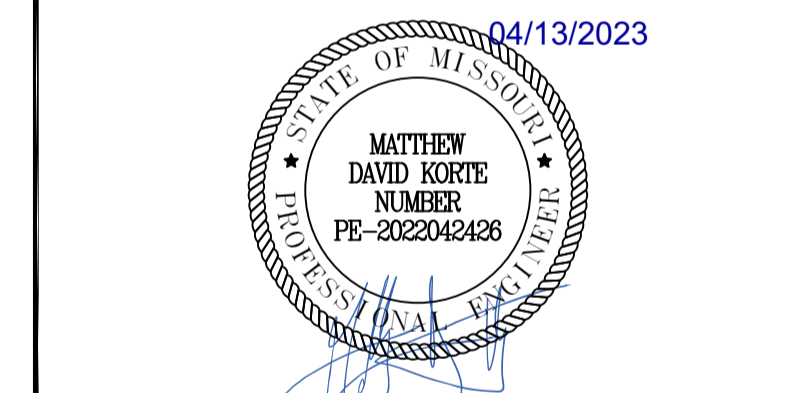
LAND AREA:	±52,830 SF (1.21 AC)
CURRENT ZONING:	HC - HIGHWAY COMMERCIAL DISTRICT WITH CONDITIONAL OVERLAY DISTRICT - 1
EXISTING USE:	VACANT
PROPOSED USE:	RESTAURANT W/DRIVE-THRU
BUILDING AREA (APPROXIMATE):	4,365 GFA
BUILDING LOT COVERAGE:	4,365 SF / 52,830 SF = 0.08%
PARKING CALCULATIONS:	1 SPACE PER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



Date	Description	No.
Revisions		

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MO Certificate of Authorization No. F001330220

Project: **McDONALD'S NEW PROJECT**  
**L/C 024-1290**  
**3740 WEST SUNSHINE STREET**  
**SPRINGFIELD**

GREENE COUNTY MISSOURI  
Drawing Title

**SITE PLAN**

Project No.	520054201	Drawing No.	<b>C4.0</b>	
Date	DECEMBER 2022	Sheet		9 of 30
Drawn By	OROD			
Checked By	DWL			

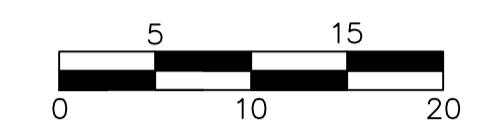




**BUILDING OFFICIAL**  
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*Kevin R. [Signature]* **01/27/23**  
 SIGNATURE DATE

**PRJ202301932**



SCALE: 1" = 10'

**NOTICE TO CONTRACTOR**

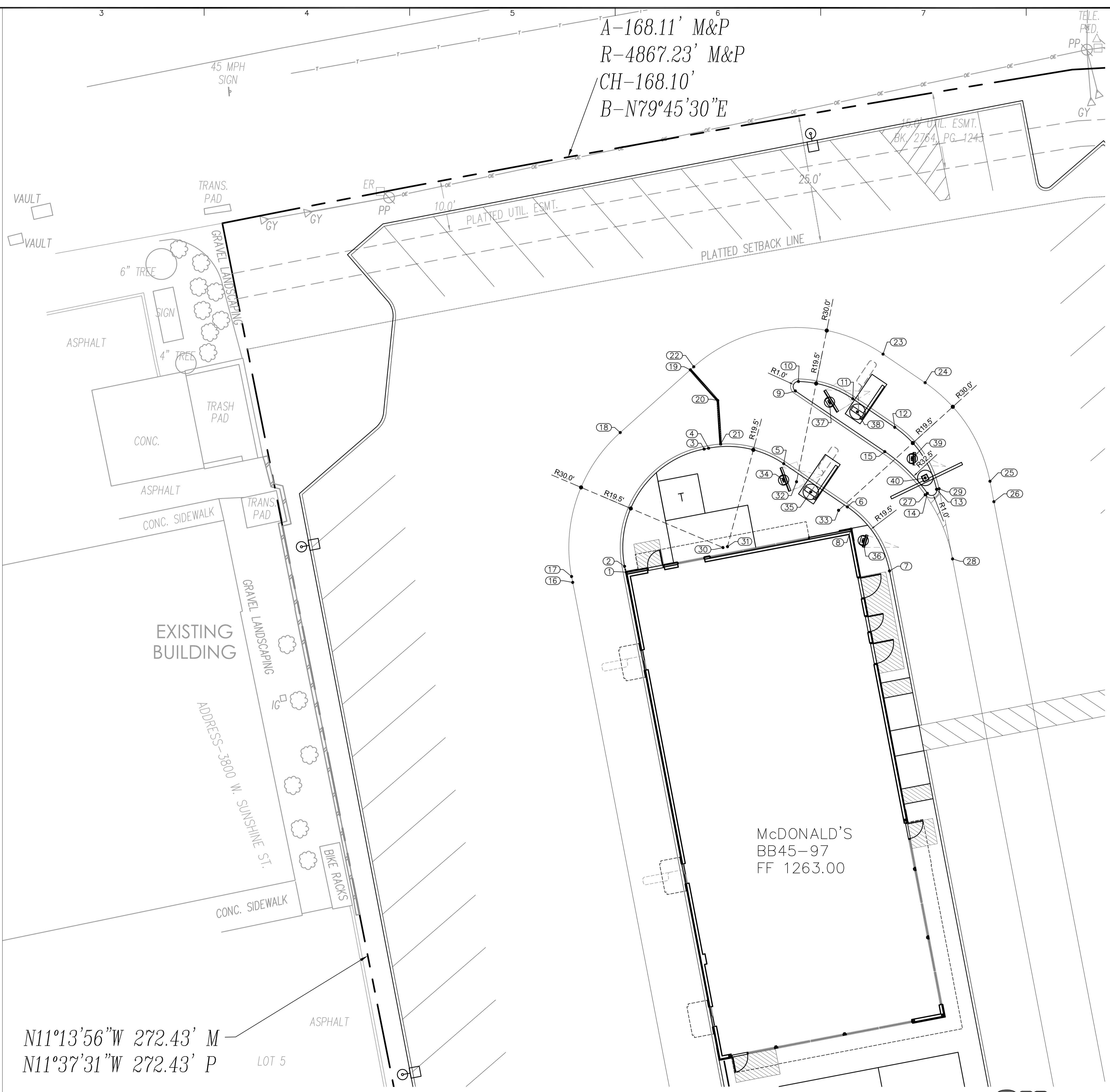
- COORDINATES SHOWN ARE AT BACK OF CURB OR CENTERLINE OF FOUNDATION OR STRIPE.
- VERIFY LOCATION OF CDS AND MENU BOARDS WITH ACM PRIOR TO POURING FOUNDATIONS.
- COORDINATES BASED ON GEODETIC NORTH AS PROVIDED BY SURVEYOR.
- IT IS REQUIRED BY McDONALD'S THAT ALL DRIVE THRU EQUIPMENT AND PAVEMENT IMPROVEMENTS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

**BENCHMARK**

SITE TEMPORARY BENCHMARKS:

- A SQUARE CUT IN THE NORTHEAST CORNER OF CONCRETE STORM INLET BOX  
ELEVATION = 1256.46 (NAVD88)
- A SQUARE CUT IN THE NORTHWEST CORNER OF CONCRETE STORM INLET BOX  
ELEVATION = 1260.86 (NAVD88)

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
32	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
40	492236.0431	1391189.0540	DOUBLE GATEWAY



Date	Description	No.
Revisions		

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**L/C 024-1290**  
**3720 WEST SUNSHINE STREET**  
**SPRINGFIELD**

**GREENE COUNTY MISSOURI**  
 Drawing Title  
**DRIVE-THRU COORDINATE PLAN**

Project No. <b>520054201</b>	Drawing No. <b>C5.0</b>
Date <b>DECEMBER 2022</b>	
Drawn By <b>OROD</b>	
Checked By <b>DWL</b>	
Sheet <b>9</b> of <b>29</b>	

