

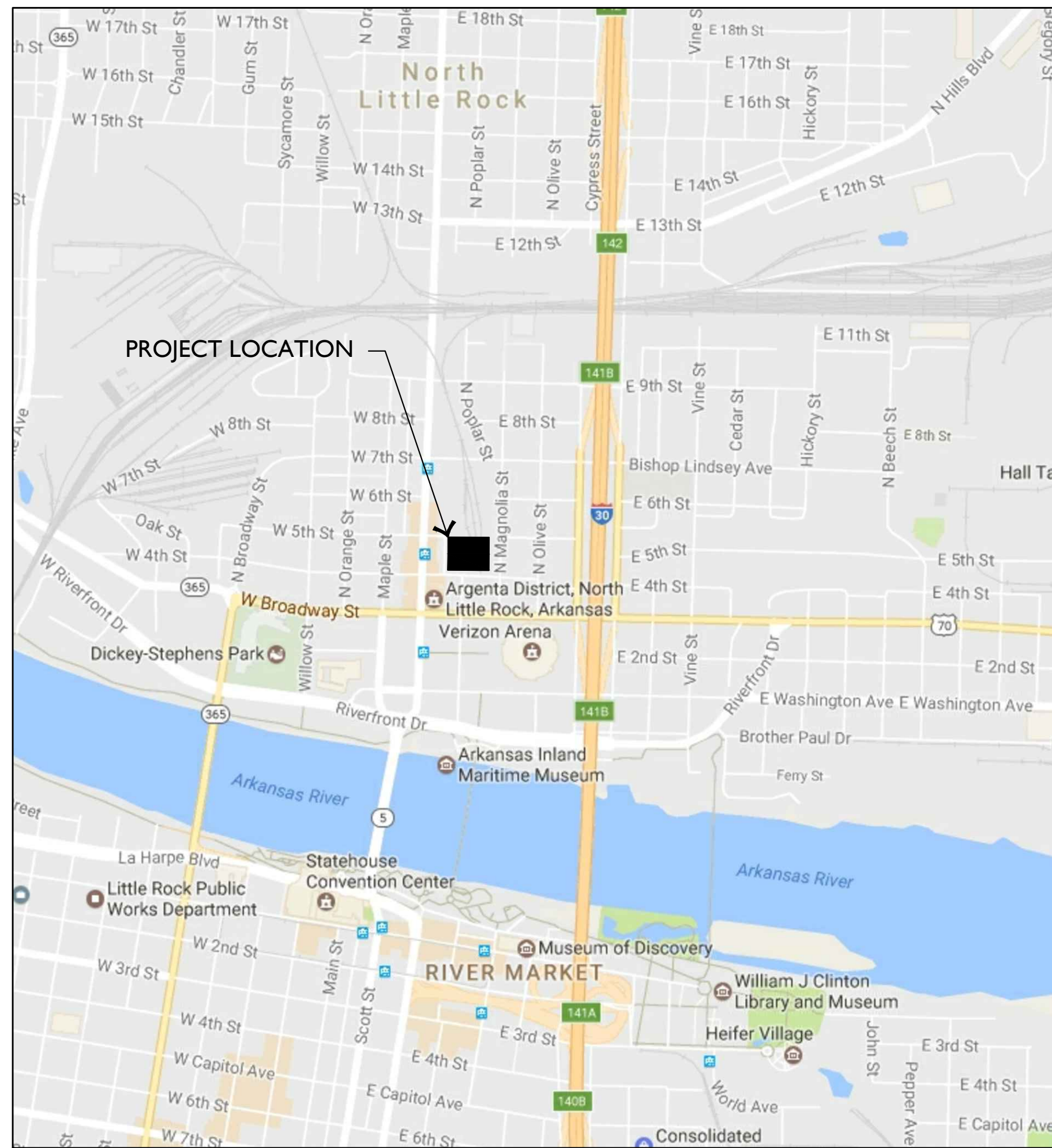
# STREET & UTILITY IMPROVEMENTS

## 4th, 5th, Poplar & Magnolia Streets

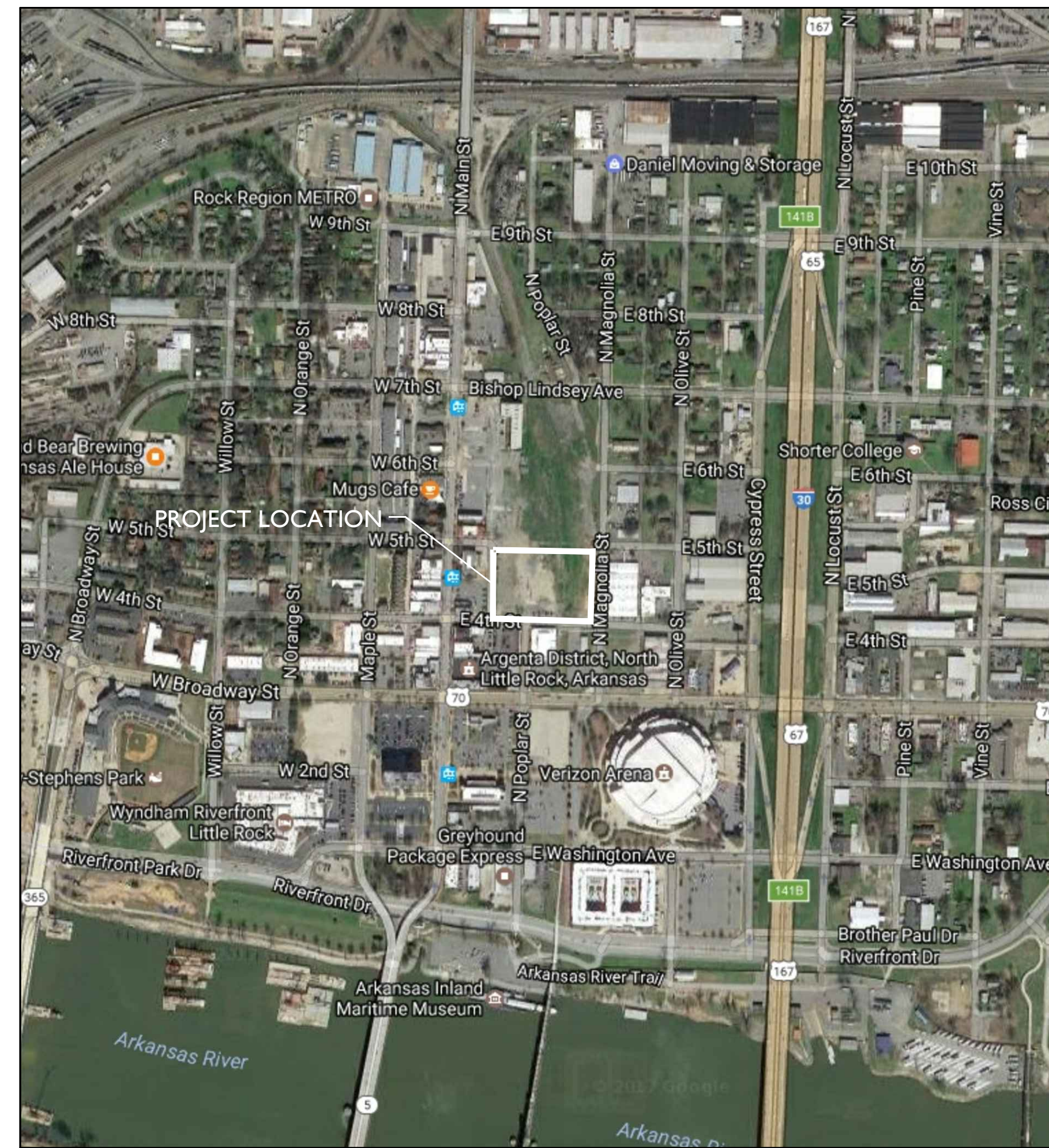
### City of North Little Rock, AR

COVER SHEET

June 16, 2017



VICINITY MAP  
SCALE: 1" = 1000'



AERIAL MAP  
SCALE: 1" = 500'

DRAWING LIST

C0.00	GENERAL NOTES & LEGEND
C0.10	SITE DEMOLITION PLAN
C1.00	SITE PLAN
C1.10	SITE LAYOUT PLAN
C2.00	4TH STREET PLAN & PROFILE
C3.00	5TH STREET PLAN & PROFILE
C4.00	MAGNOLIA STREET PLAN & PROFILE
C5.00	POPLAR STREET PLAN & PROFILE
C6.00 - C6.10	EROSION CONTROL PLAN & DETAILS
C7.00 - C7.02	SITE DETAILS



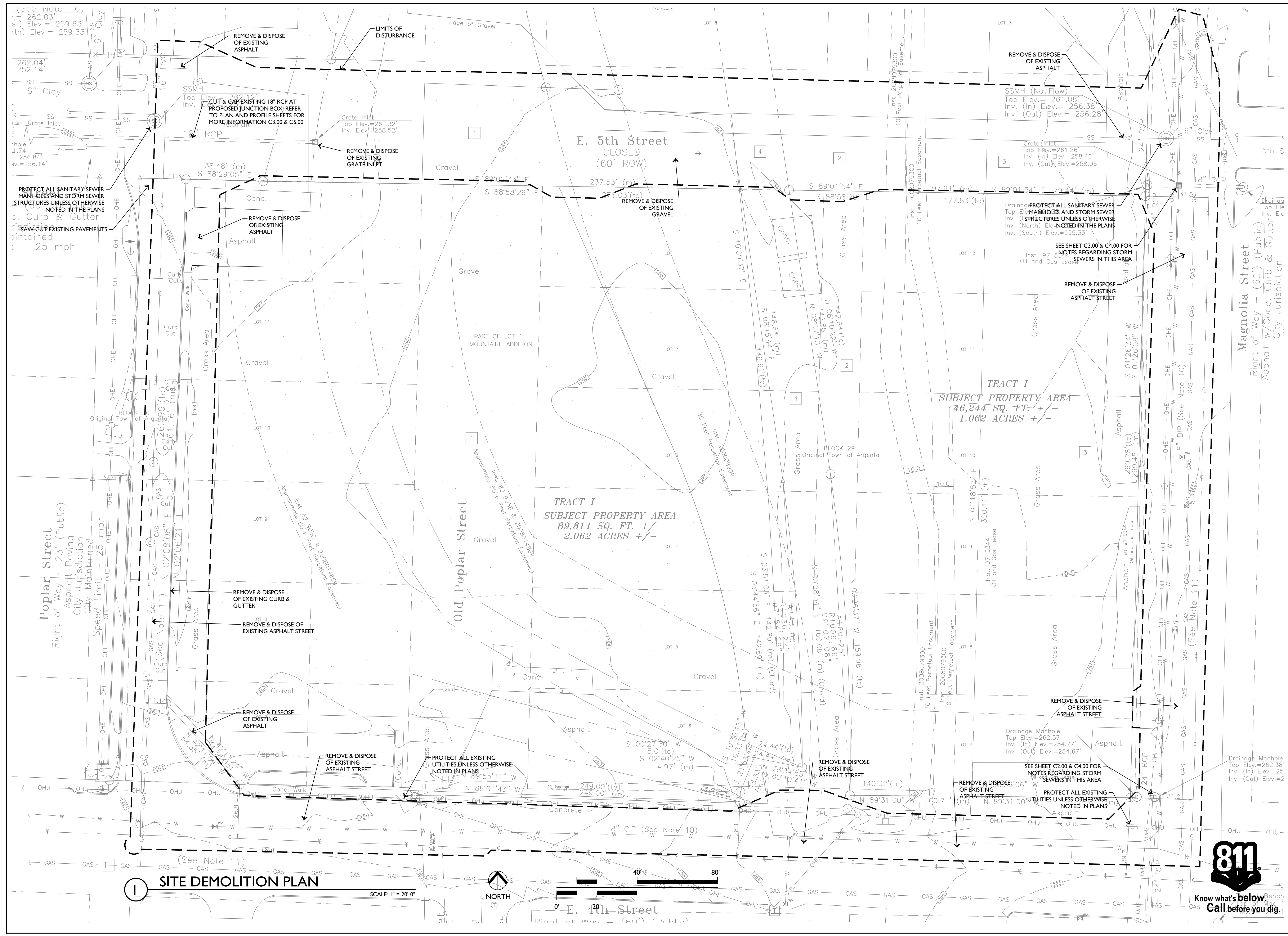
CONSTRUCTION PLANS
REVISIONS

SHEET TITLE
COVER
ISSUE DATE
6-16-17

SHEET NO.  
**COVER**

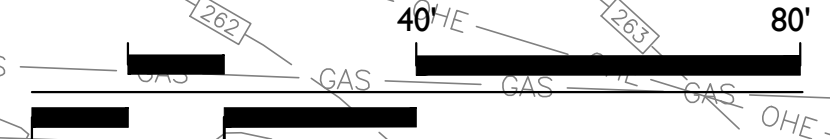






**SITE DEMOLITION PLAN**

SCALE: 1" = 20'-0"



**CONSTRUCTION PLANS**

REVISIONS

**SHEET TITLE  
SITE DEMOLITION PLAN**

ISSUE DATE  
6-16-17

SHEET NO.  
**C0.10**



**EDG**  
Ecological Design Group, Inc.  
120 S. Izard Street  
Little Rock, AR 72201  
P 501.378.0200  
F 501.378.0201  
314 South 3rd Street  
Rogers, AR 72756  
P 479.935.4826  
210 E. Merriam Ave.  
Wynne, AR 72396  
P 870.586.6426  
F 870.238.8310

**STREET & UTILITY IMPROVEMENTS  
4TH, 5TH, POPLAR & MAGNOLIA STREETS**  
North Little Rock, Arkansas

(See Note 10)  
Top Elev. = 262.03'  
Bottom Elev. = 259.63'  
Right of Way Elev. = 259.33'

PROTECT ALL SANITARY SEWER  
MANHOLES AND STORM SEWER  
STRUCTURES UNLESS OTHERWISE  
NOTED IN THE PLANS

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MANHOLES AND STORM SEWER  
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REMOVE & DISPOSE  
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GRATE INLET

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CURB & GUTTER

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CURB & GUTTER

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ASPHALT STREET

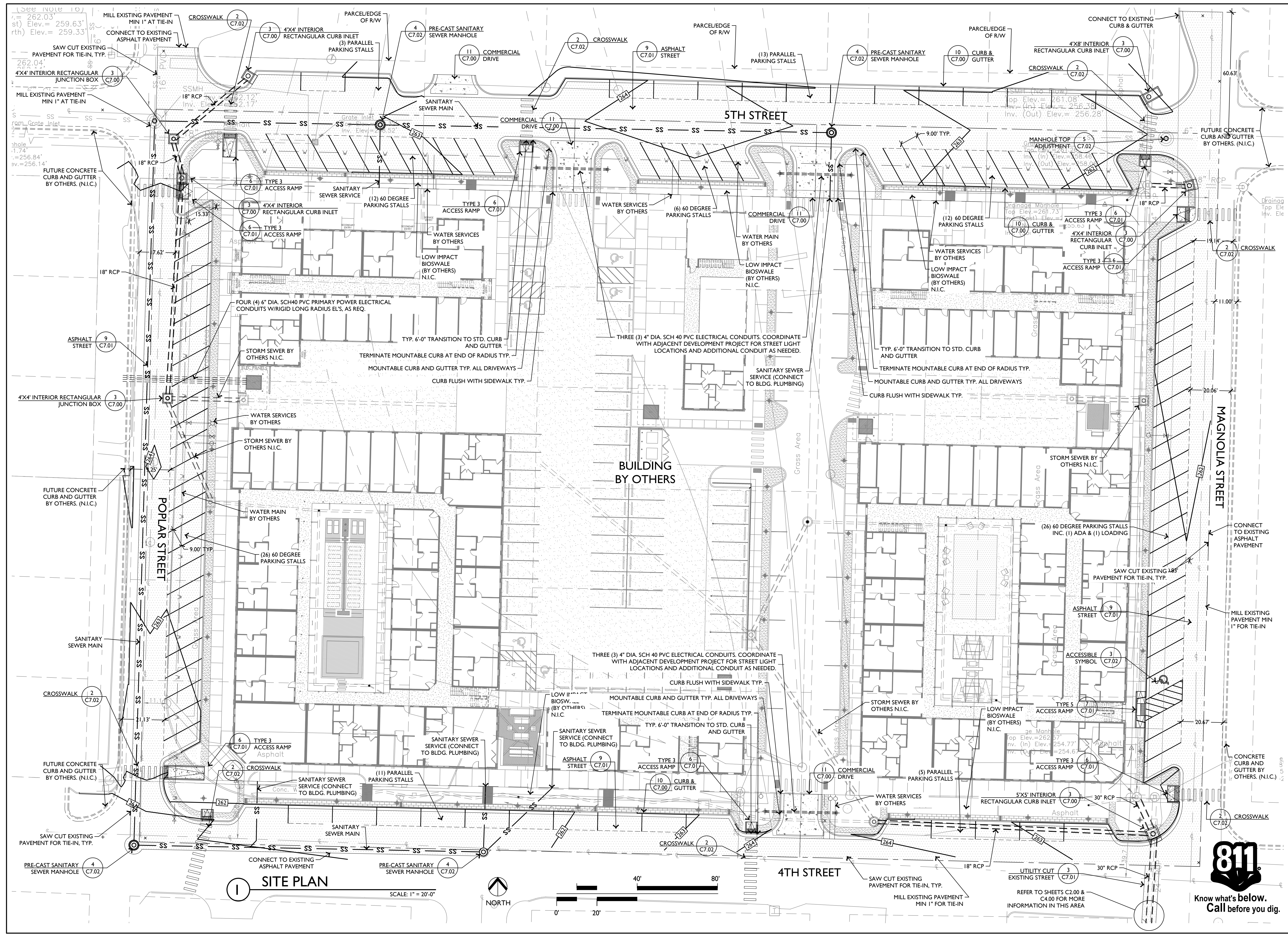
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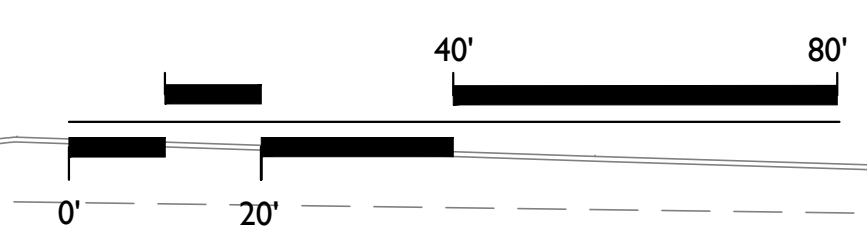
REMOVE & DISPOSE  
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ASPHALT STREET

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OF EXISTING  
ASPHALT STREET



**1 SITE PLAN**

SCALE: 1" = 20'-0"



**STREET & UTILITY IMPROVEMENTS**  
**4TH, 5TH, POPLAR & MAGNOLIA STREETS**  
 North Little Rock, Arkansas

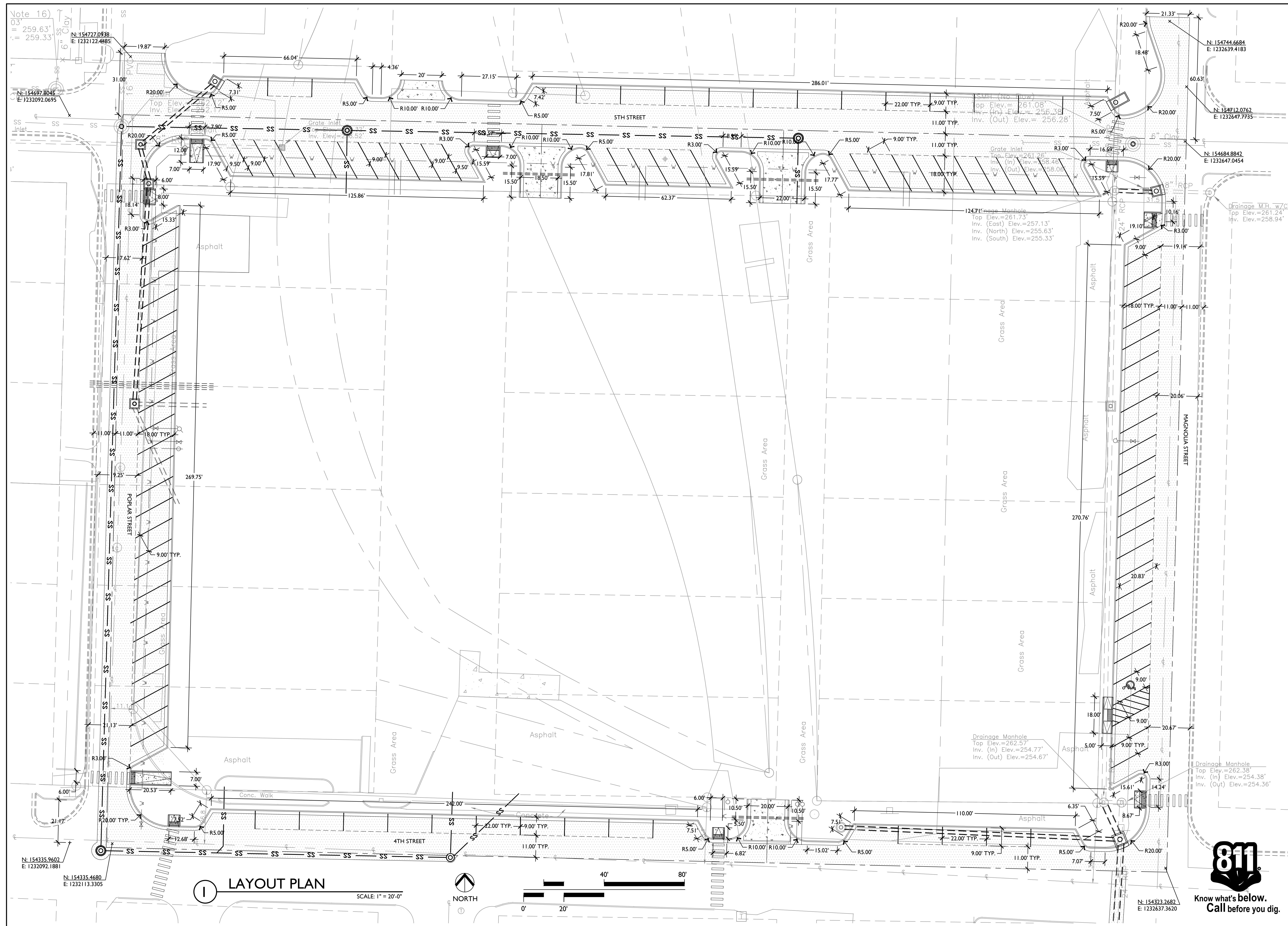


CONSTRUCTION PLANS

SHEET TITLE
SITE PLAN
ISSUE DATE
6-16-17
SHEET NO.
C1.00



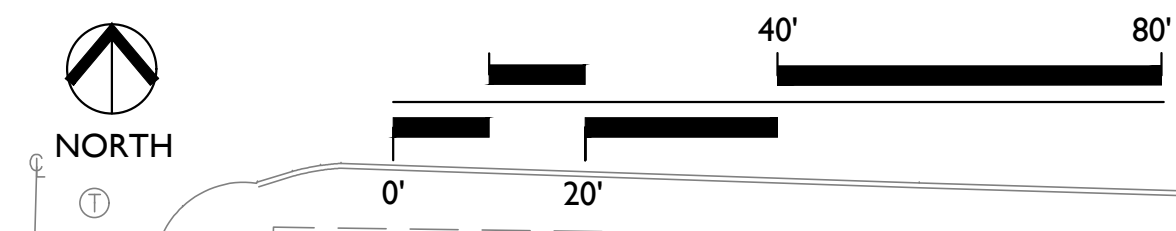
REFER TO SHEETS C2.00 & C4.00 FOR MORE INFORMATION IN THIS AREA



Note 16)  
 03'  
 = 259.63'  
 1" = 259.33'

N: 154335.9602  
 E: 1232092.1881

**LAYOUT PLAN**  
 SCALE: 1" = 20'-0"



**EDG**  
 Ecological Design Group, Inc.  
 120 S. Izard Street  
 Little Rock, AR 72201  
 P 501.378.0200  
 F 501.378.0201  
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**STREET & UTILITY IMPROVEMENTS**  
**4TH, 5TH, POPLAR & MAGNOLIA STREETS**  
 North Little Rock, Arkansas



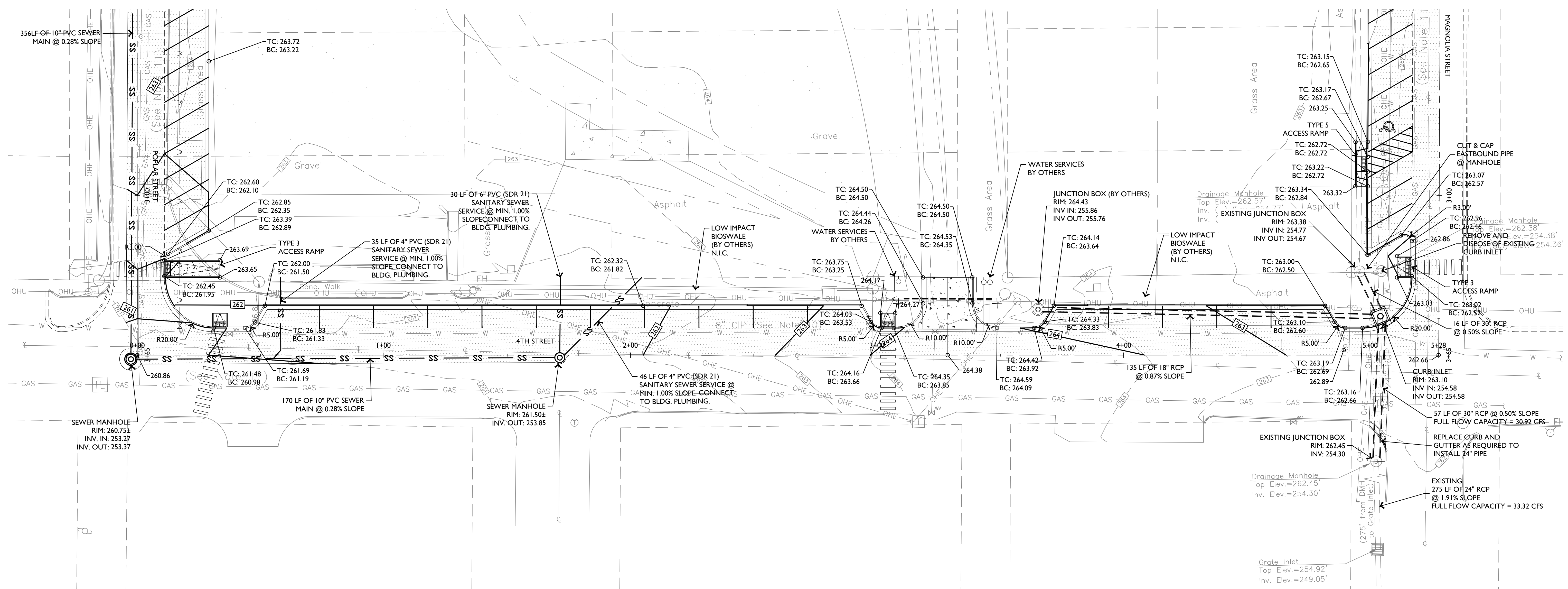
CONSTRUCTION PLANS
REVISIONS

SHEET TITLE  
 LAYOUT PLAN

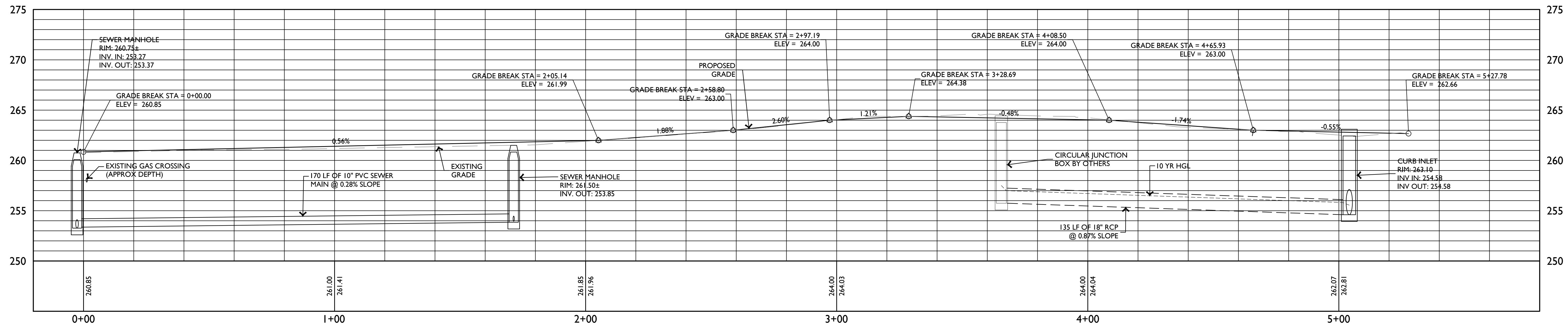
ISSUE DATE  
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SHEET NO.  
**CI.10**



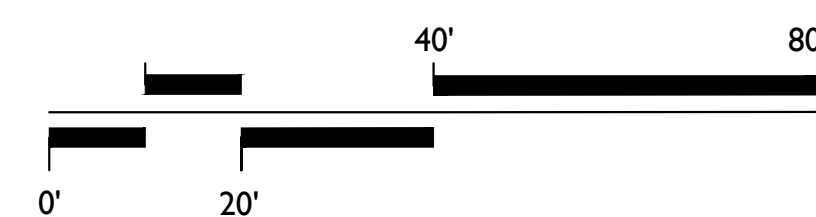


4TH STREET PROFILE



1 4TH STREET PLAN & PROFILE

SCALE: 1" = 20'-0"



**STREET & UTILITY IMPROVEMENTS**  
**4TH, 5TH, POPLAR & MAGNOLIA STREETS**  
North Little Rock, Arkansas

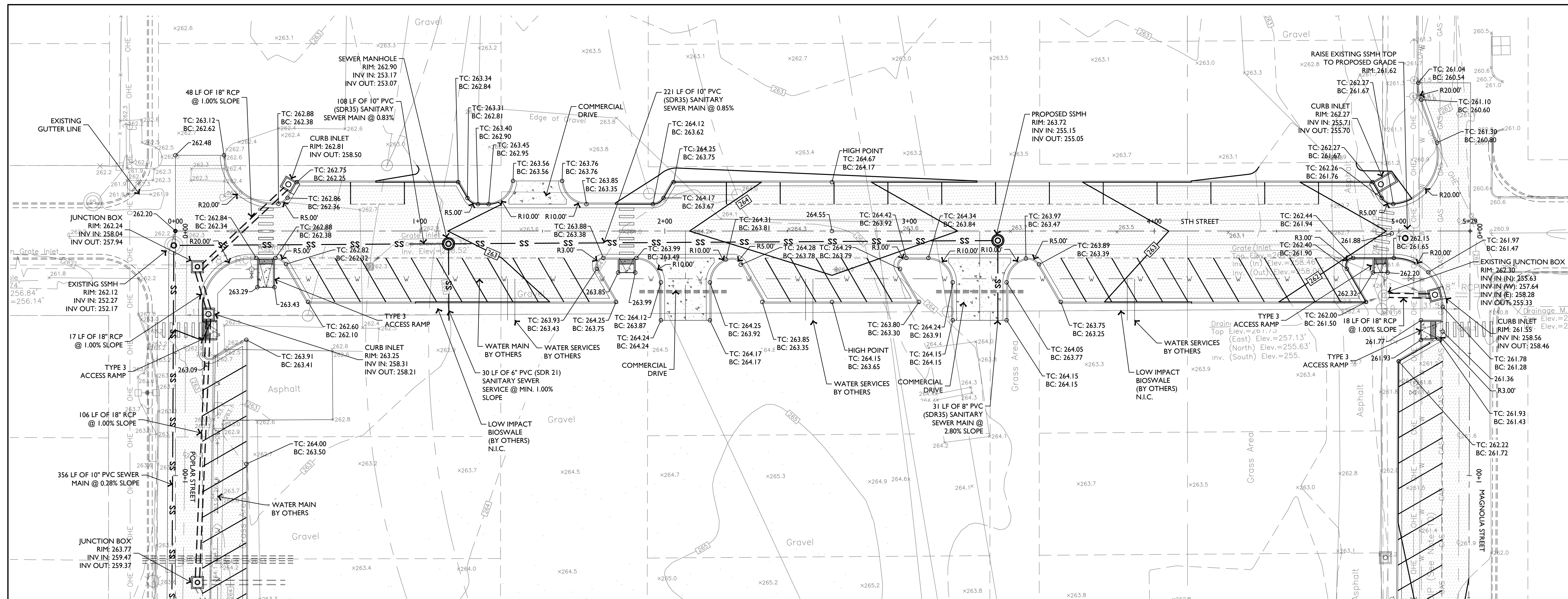


CONSTRUCTION PLANS
REVISIONS

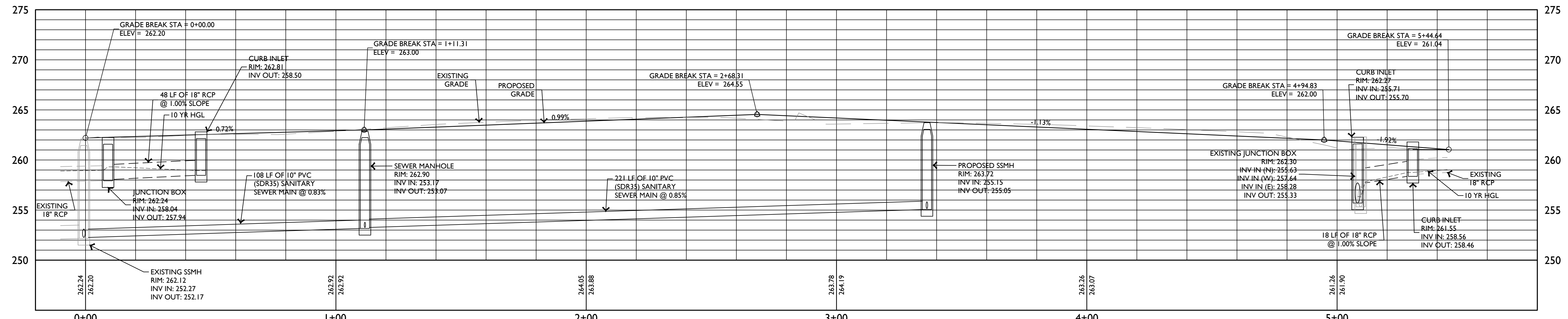
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ISSUE DATE	6-16-17

SHEET NO.  
**C2.00**

**STREET & UTILITY IMPROVEMENTS**  
**4TH, 5TH, POPLAR & MAGNOLIA STREETS**  
 North Little Rock, Arkansas

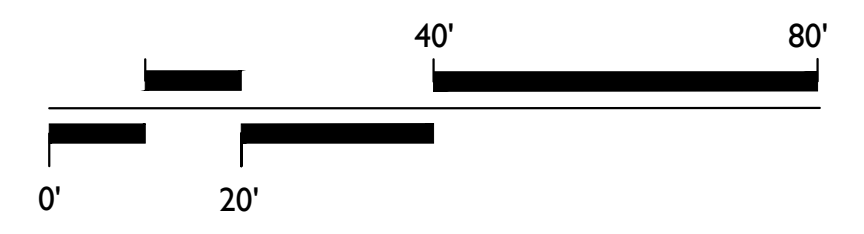


**5TH STREET PROFILE**



**5TH STREET PLAN & PROFILE**

SCALE: 1" = 20'-0"



CONSTRUCTION PLANS
REVISIONS

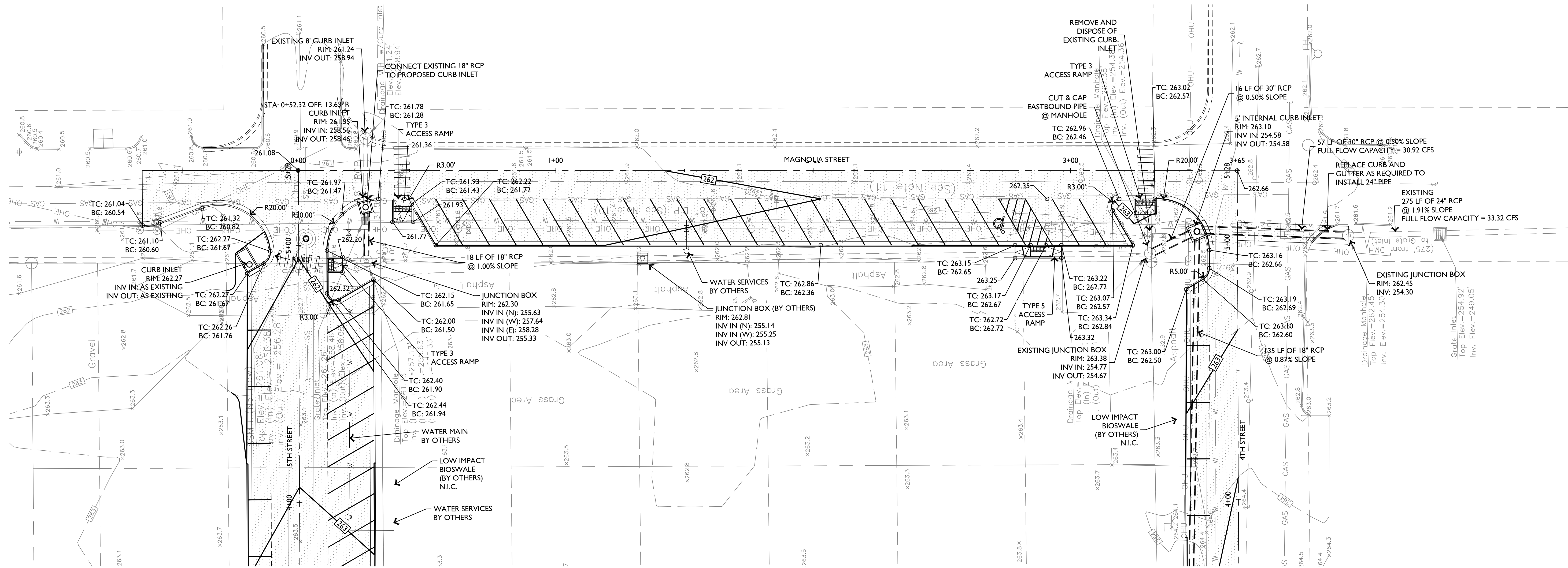
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**5TH STREET PLAN & PROFILE**

ISSUE DATE  
 6-16-17

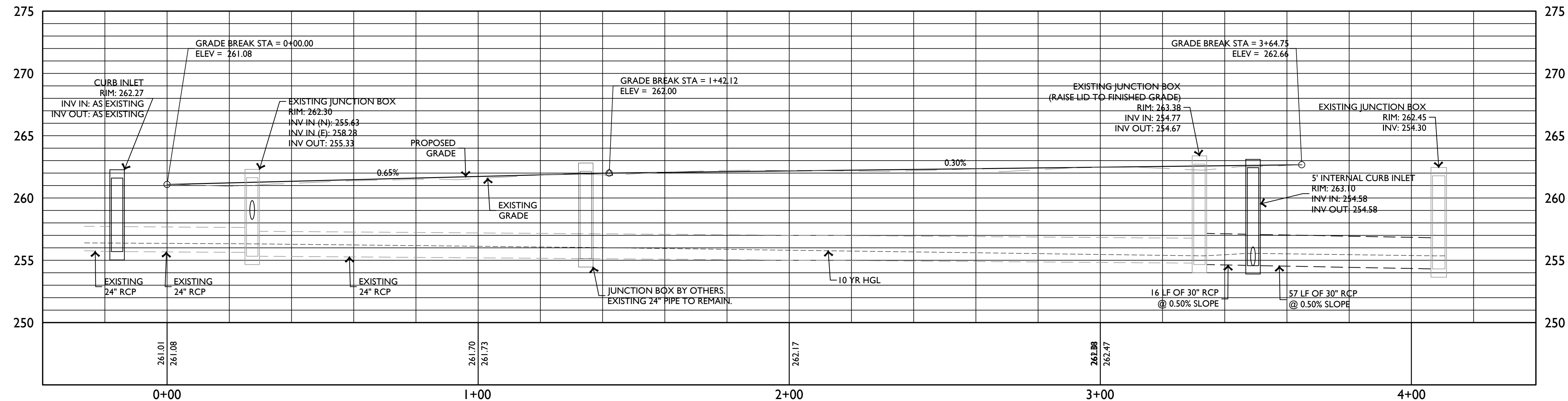
SHEET NO.  
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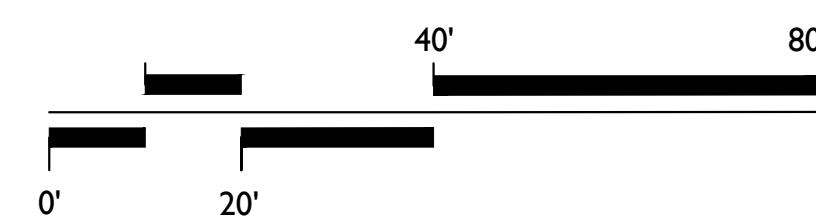
**STREET & UTILITY IMPROVEMENTS**  
**4TH, 5TH, POPLAR & MAGNOLIA STREETS**  
 North Little Rock, Arkansas



**MAGNOLIA STREET PROFILE**



**MAGNOLIA STREET PLAN & PROFILE**  
 SCALE: 1" = 20'-0"



CONSTRUCTION PLANS	
REVISIONS	

SHEET TITLE MAGNOLIA STREET PLAN & PROFILE
ISSUE DATE 6-16-17
SHEET NO. <b>C4.00</b>





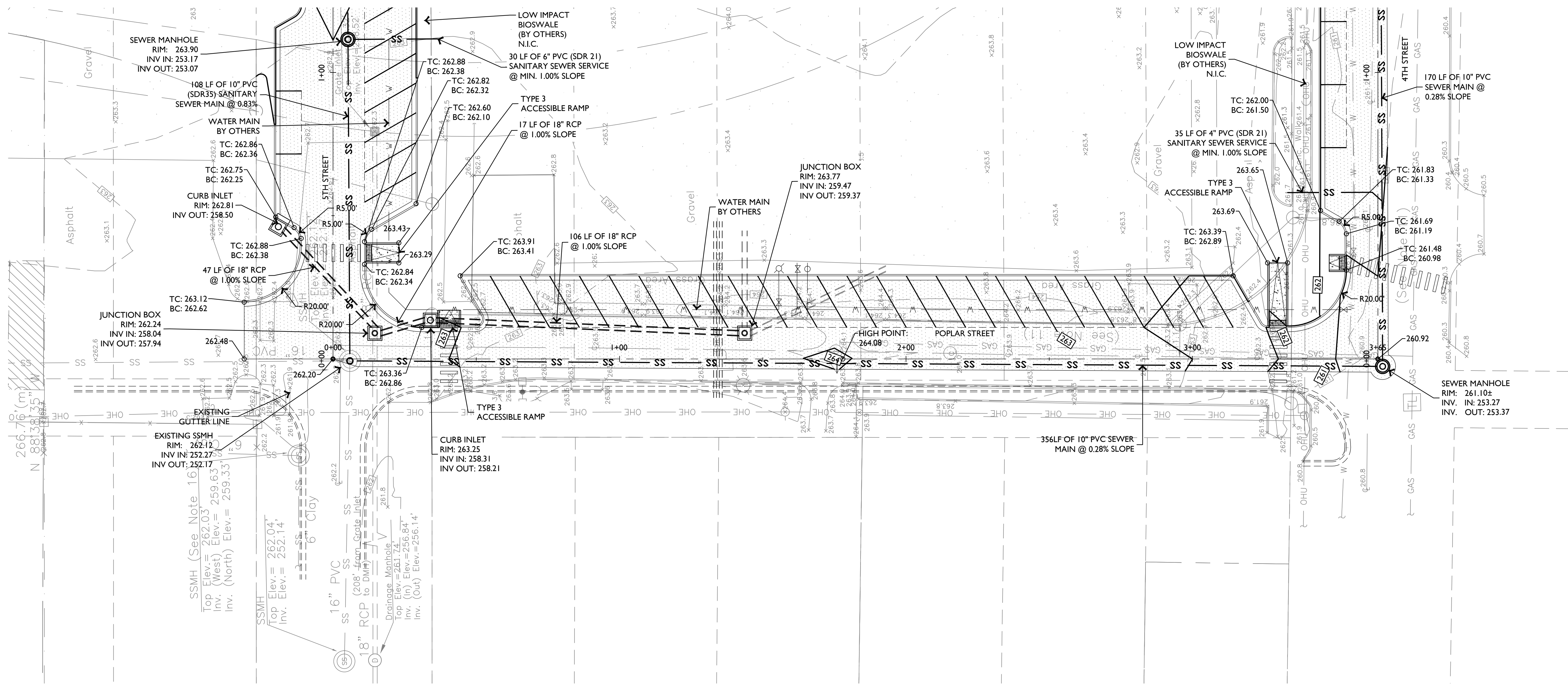
**STREET & UTILITY IMPROVEMENTS**  
**4TH, 5TH, POPLAR & MAGNOLIA STREETS**  
 North Little Rock, Arkansas



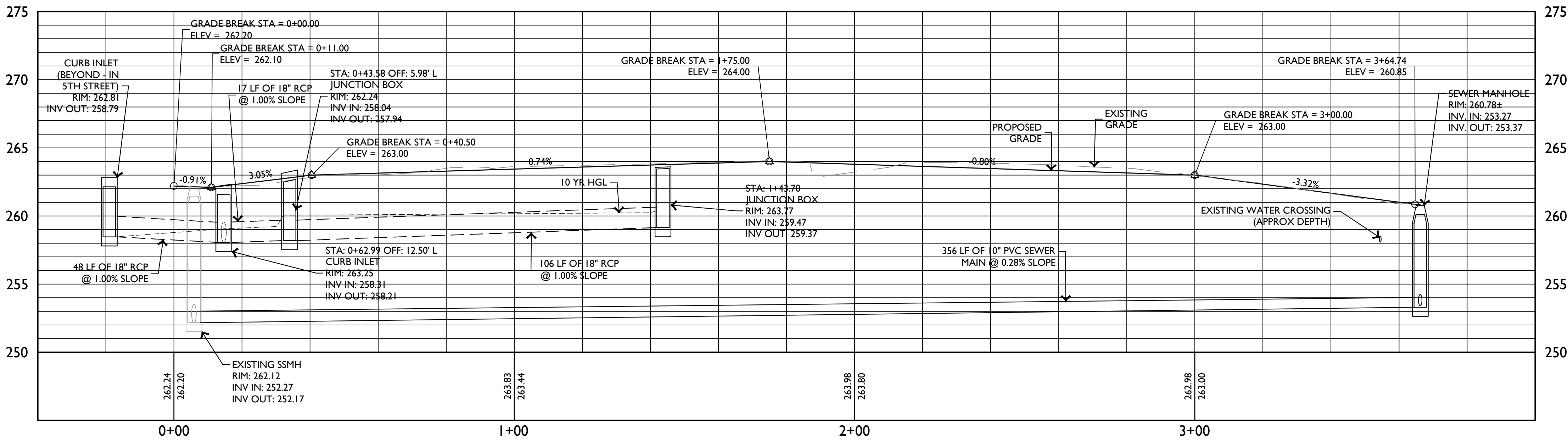
CONSTRUCTION PLANS
REVISIONS

SHEET TITLE POPLAR STREET PLAN & PROFILE
ISSUE DATE 6-16-17

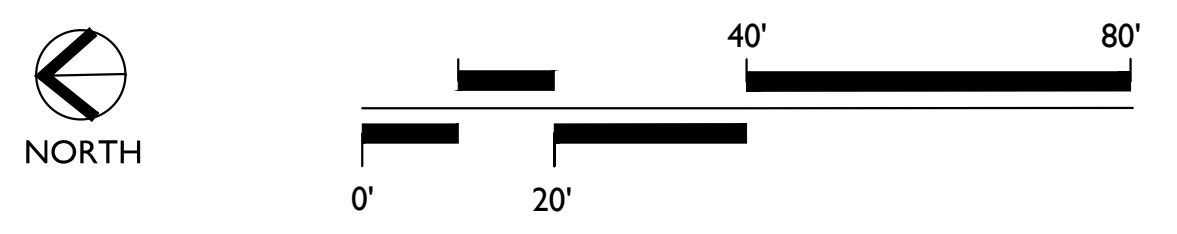
SHEET NO.  
**C5.00**

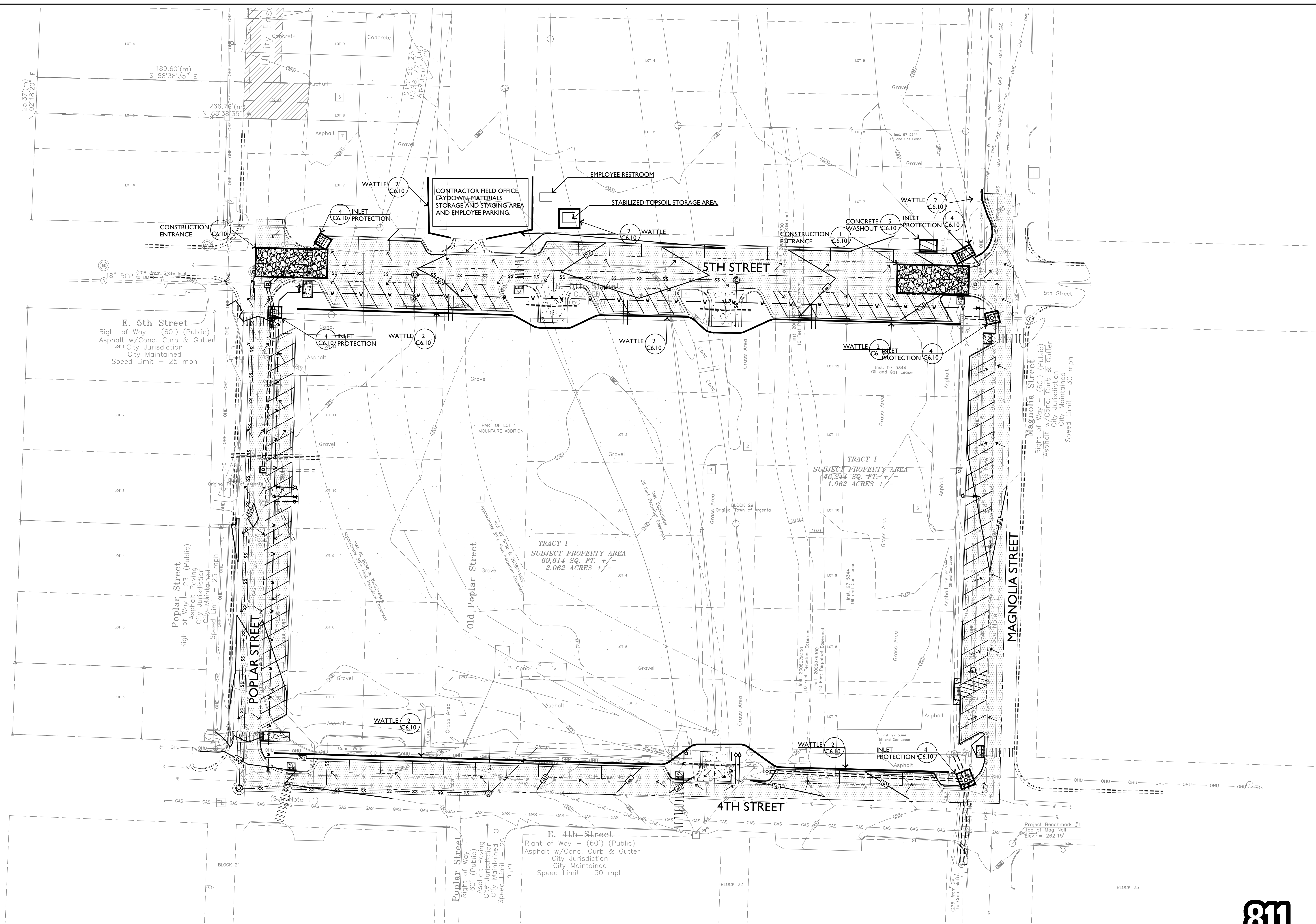


**POPLAR STREET PROFILE**

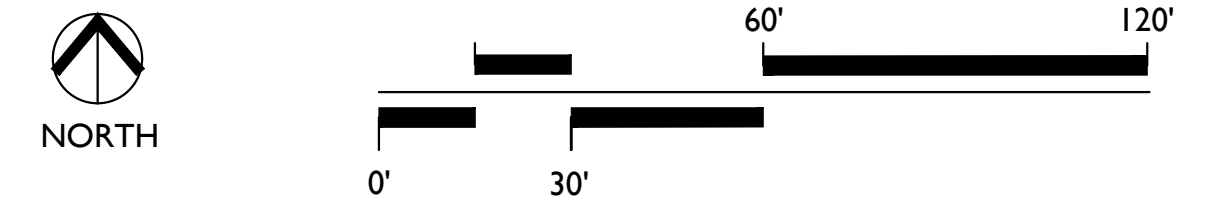


**POPLAR STREET PLAN & PROFILE**  
 SCALE: 1" = 20'-0"





**EROSION CONTROL PLAN**  
SCALE: 1" = 30'-0"



**STREET & UTILITY IMPROVEMENTS**  
**4TH, 5TH, POPLAR & MAGNOLIA STREETS**  
North Little Rock, Arkansas

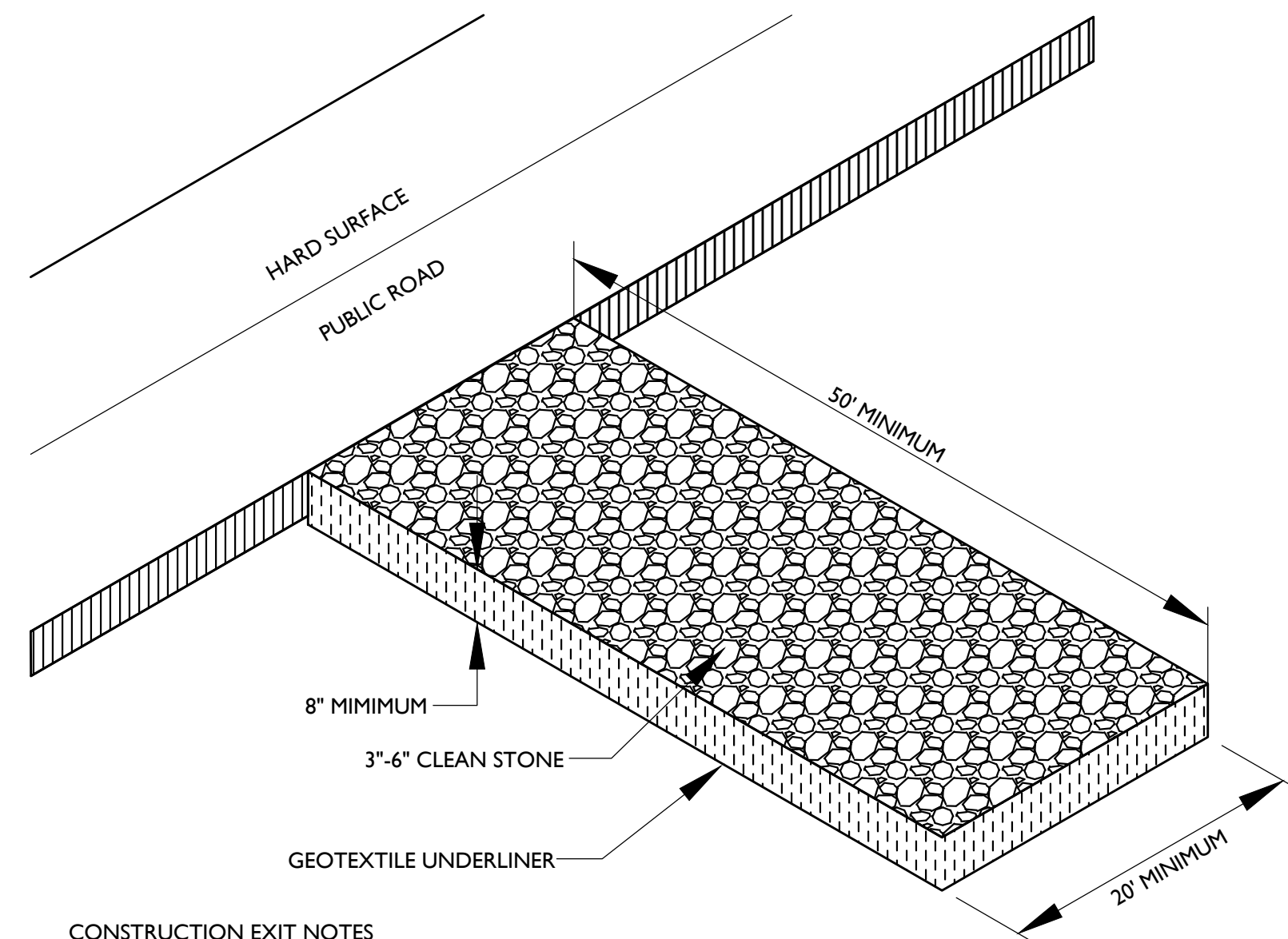


CONSTRUCTION PLANS
REVISIONS

SHEET TITLE	EROSION CONTROL PLAN
ISSUE DATE	6-16-17

SHEET NO.  
**C6.00**

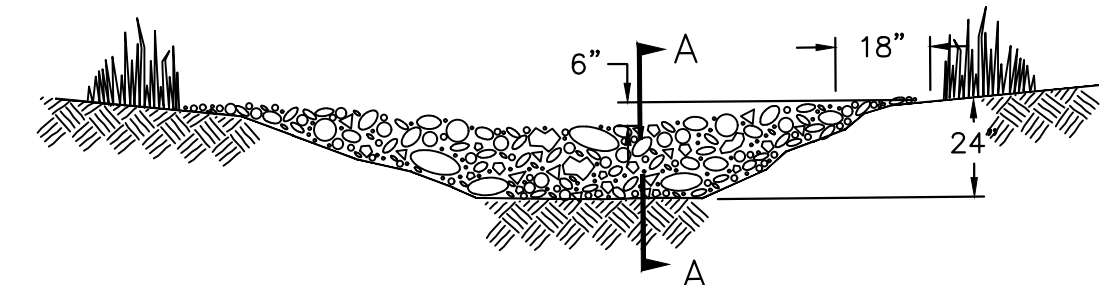




**CONSTRUCTION EXIT NOTES**

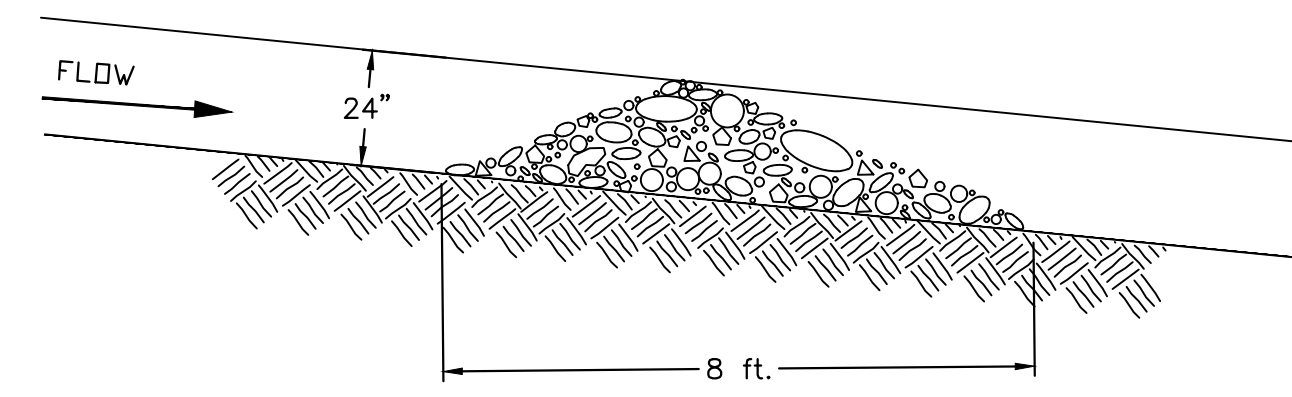
1. REPLACE CONTAMINATED STONE AS REQUIRED TO PREVENT TRACKING OF SEDIMENT OR MUD ON PUBLIC STREETS.
2. CLEAN STREETS DAILY WITH BROOM AND SHOVEL. THE USE OF WATER IS PROHIBITED.
3. ALL VEHICLES MUST USE CONSTRUCTION EXIT.

**1 CONSTRUCTION ENTRANCE/EXIT DETAIL** SCALE: N.T.S.



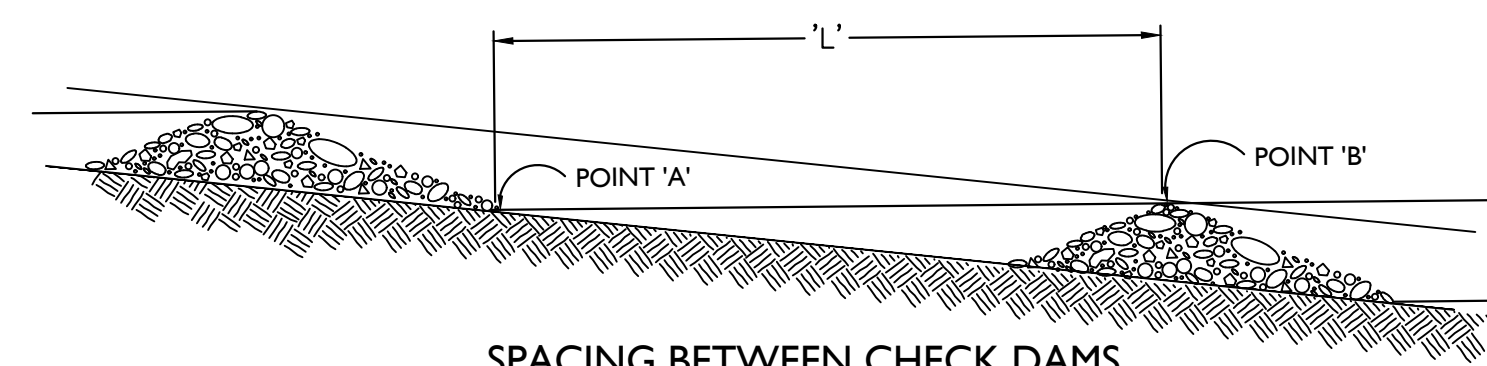
**VIEW LOOKING UP STREAM**

NOTE: KEY STONE INTO THE DITCH BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT OVERFLOW AROUND DAM.



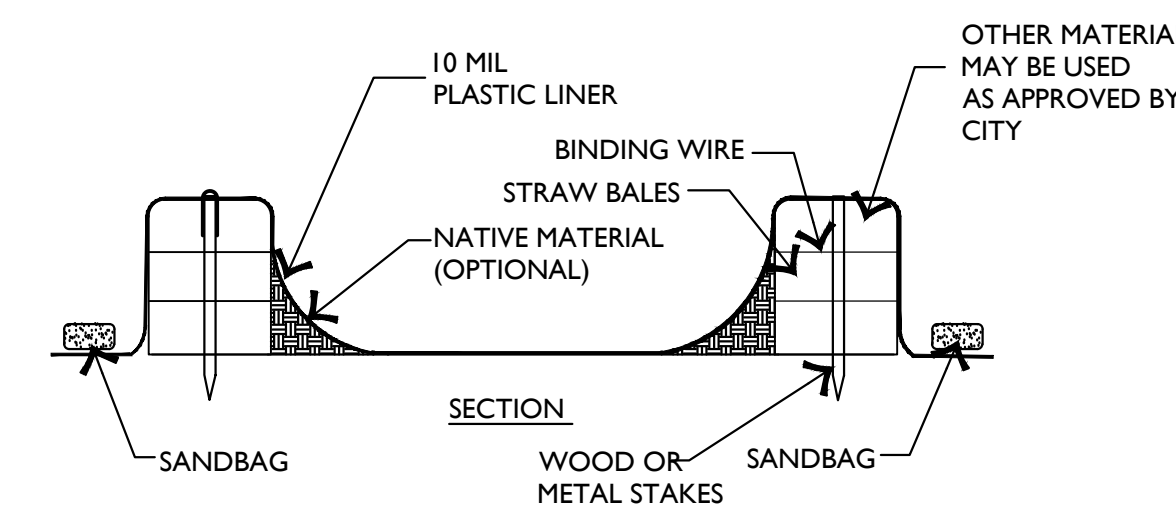
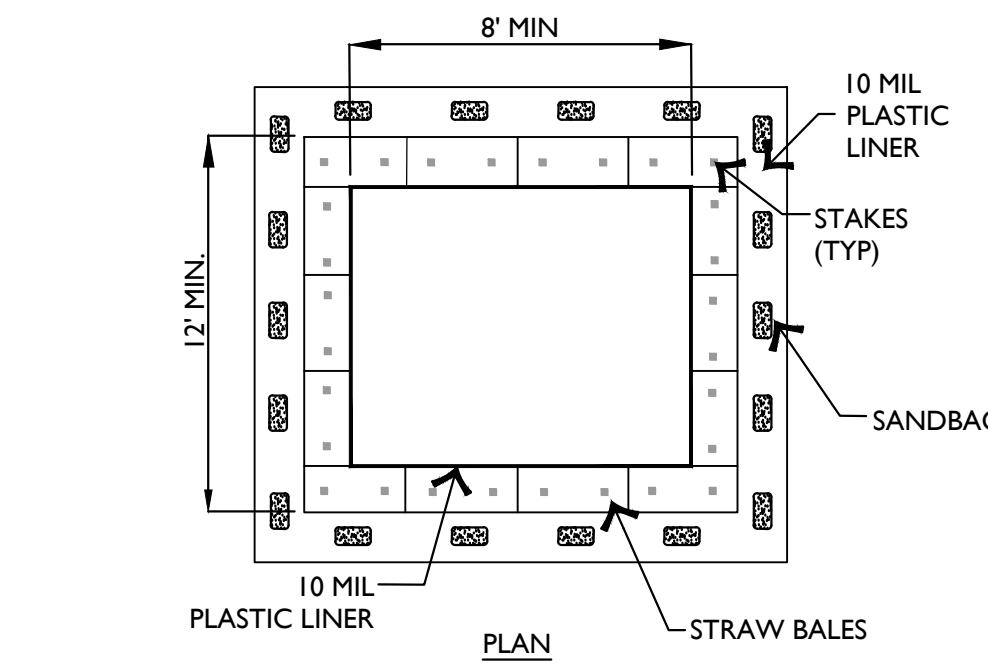
**SECTION A-A**

L' = THE DISTANCE SUCH THAT POINTS 'A' AND 'B' ARE OF EQUAL ELEVATION.



**SPACING BETWEEN CHECK DAMS**

**3 TEMPORARY ROCK CHECK DAM DETAIL** SCALE: N.T.S.

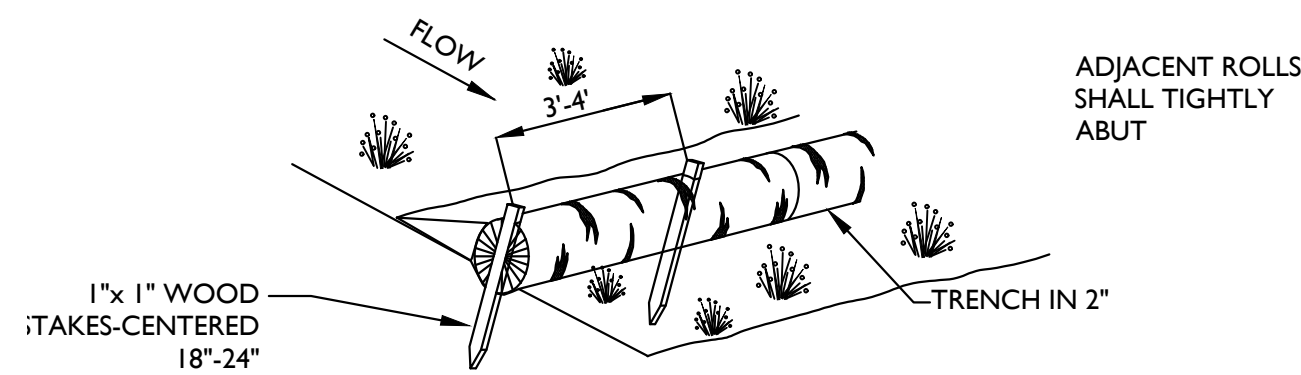


**5 CONCRETE WASHOUT AREA**

SCALE: N.T.S.

**WASHOUT NOTES**

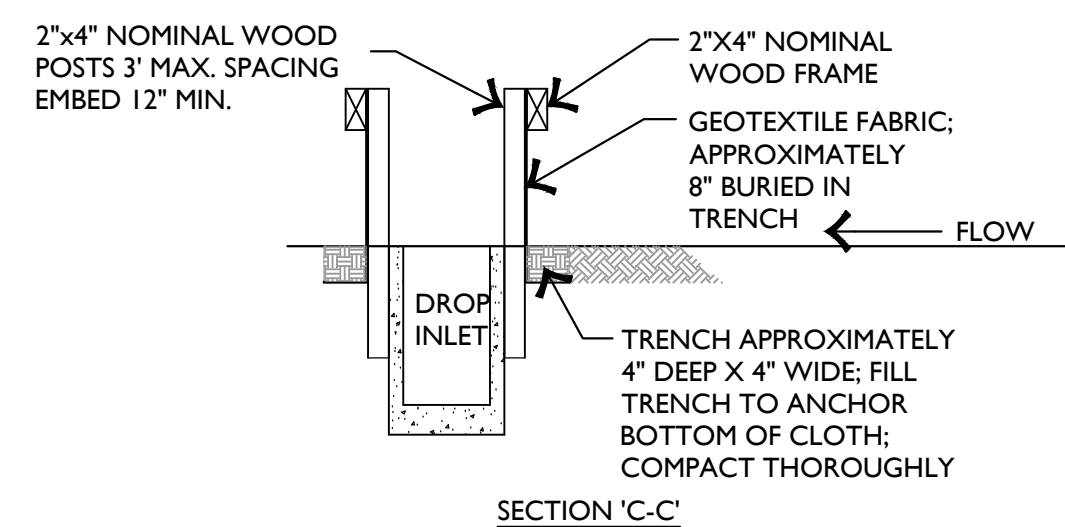
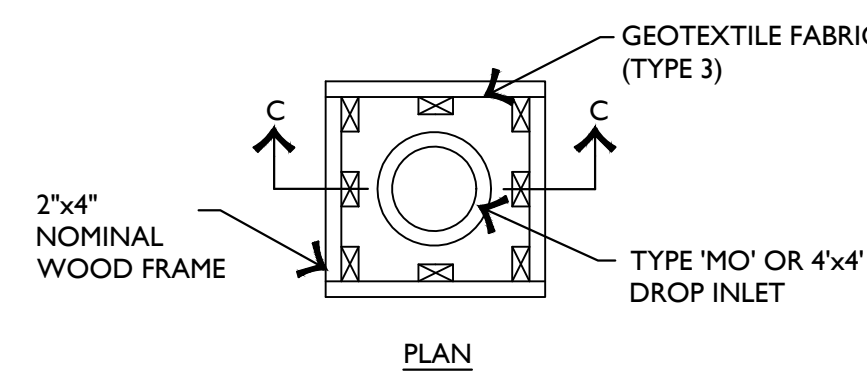
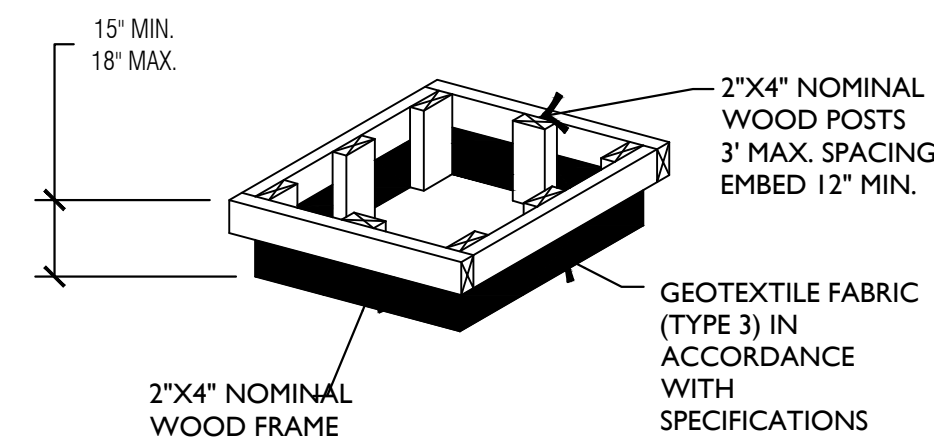
1. NO WASHING OUT OF CONCRETE TRUCKS OR WASHING OF SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS IS ALLOWED.
2. EXCESS CONCRETE IS NOT ALLOWED TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED TEMPORARY CONCRETE WASHOUT PIT AREAS.
3. ON-SITE TEMPORARY CONCRETE WASHOUT AREAS WILL BE LOCATED AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES AS DETERMINED IN THE FIELD.
4. TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
5. WASHOUT FACILITIES WILL BE CLEANED OUT OR REPLACED ONCE THE WASHOUT IS 75% FULL.
6. PLASTIC LINING MATERIAL WILL BE MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
7. WHEN WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE WILL BE REMOVED AND DISPOSED OF OFFSITE. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE REMOVED FROM THE SITE AND DISPOSED OF.



**INSTALLATION NOTES**

1. WATTLES SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
2. NOT FOR USE IN CONCENTRATED FLOW AREAS.
3. THE WATTLES SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF TWO (2) INCHES.
4. WATTLES SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
5. ON SLOPES, WATTLES SHOULD BE INSTALLED ON CONTOUR WITH A SLIGHT UPWARD CURVE AT THE END OF THE ROW IN ORDER TO CREATE PONDING.
6. RUNNING LENGTHS OF WATTLES SHOULD BE ABUTTED FIRMLY TO ENSURE NO LEAKAGE AT THE ABUTMENTS.
7. WHEN INSTALLING RUNNING LENGTHS OF WATTLES, BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST, DO NOT OVERLAP THE ENDS. STAKE THE WATTLES AT EACH END AND FOUR FOOT ON CENTER.
8. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE. LEAVING 2 - 3 INCHES OF THE STAKE PROTRUDING ABOVE THE WATTLE. WHEN INSTALLING WATTLES ON SLOPES, DRIVE THE STAKES PERPENDICULAR TO THE SLOPE.
9. DRIVE THE FIRST END STAKE OF THE SECOND WATTLE AT AN ANGLE TOWARD THE FIRST WATTLE IN ORDER TO HELP ABUT THEM TIGHTLY TOGETHER.
10. STAKING: THE CITY RECOMMENDS USING WOOD STAKES TO SECURE THE WATTLES. 1/2" TO 5/8" REBAR IS ALSO ACCEPTABLE WITH A SAFETY CAP. BE SURE TO USE A STAKE THAT IS LONG ENOUGH TO PROTRUDE SEVERAL INCHES ABOVE THE WATTLE.
11. THE CONTRACTOR SHALL INSPECT WATTLES EVERY TWO WEEKS AND AFTER ANY SIGNIFICANT STORM EVENT AND MAKE REPAIRS OR REMOVE SEDIMENT ACCUMULATED BEHIND WATTLE AS NECESSARY.
12. SEDIMENT ACCUMULATED BEHIND WATTLE SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DIAMETER OF THE WATTLE.
13. WATTLES SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND IS ACCEPTED BY THE CITY.

**2 WATTLE** SCALE: N.T.S.



**4 DROP INLET SILT FENCE** SCALE: N.T.S.



**CONSTRUCTION PLANS**

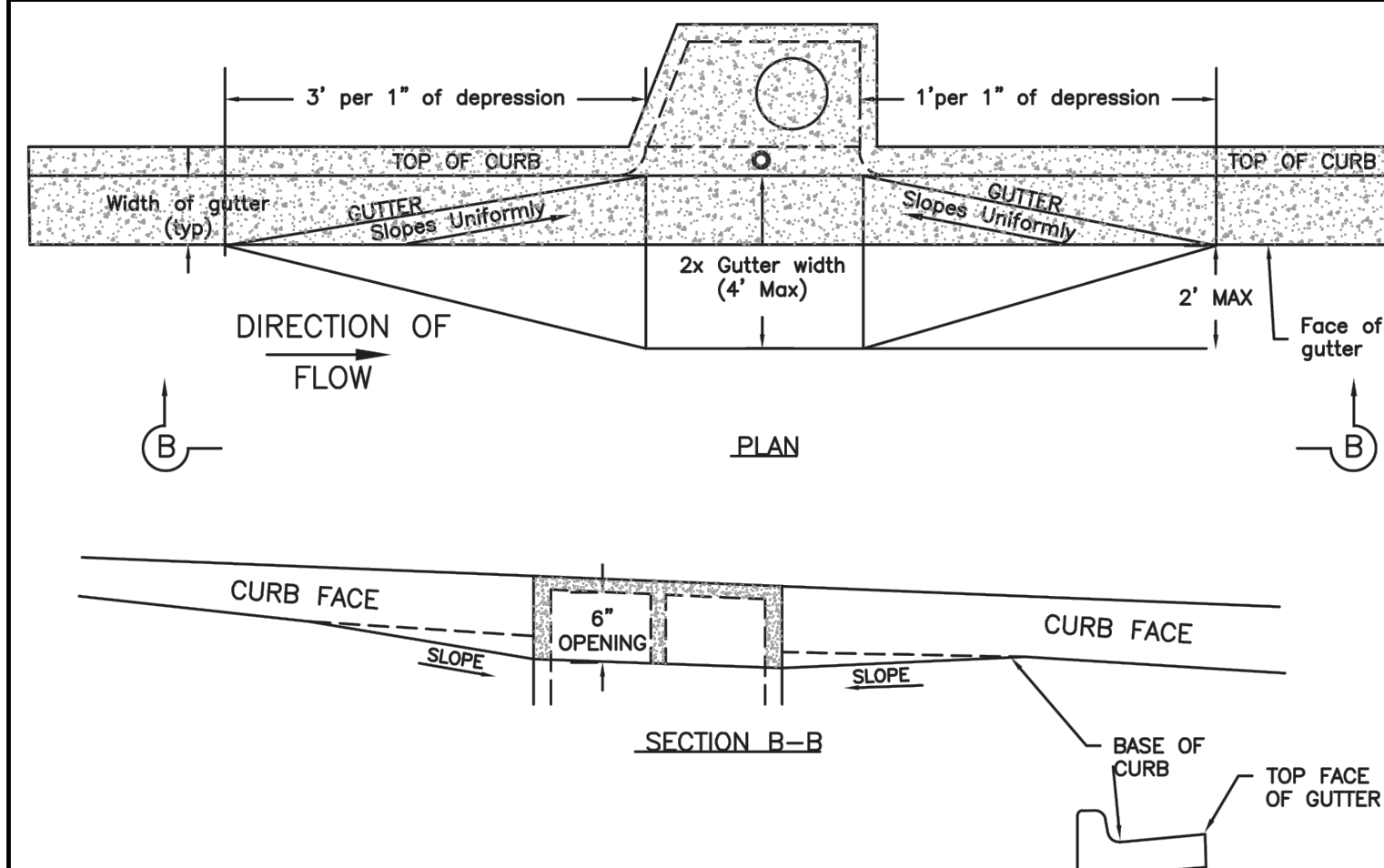
REVISIONS	

**SHEET TITLE**  
EROSION CONTROL DETAILS

**ISSUE DATE**  
6-16-17

**SHEET NO.**  
**C6.10**

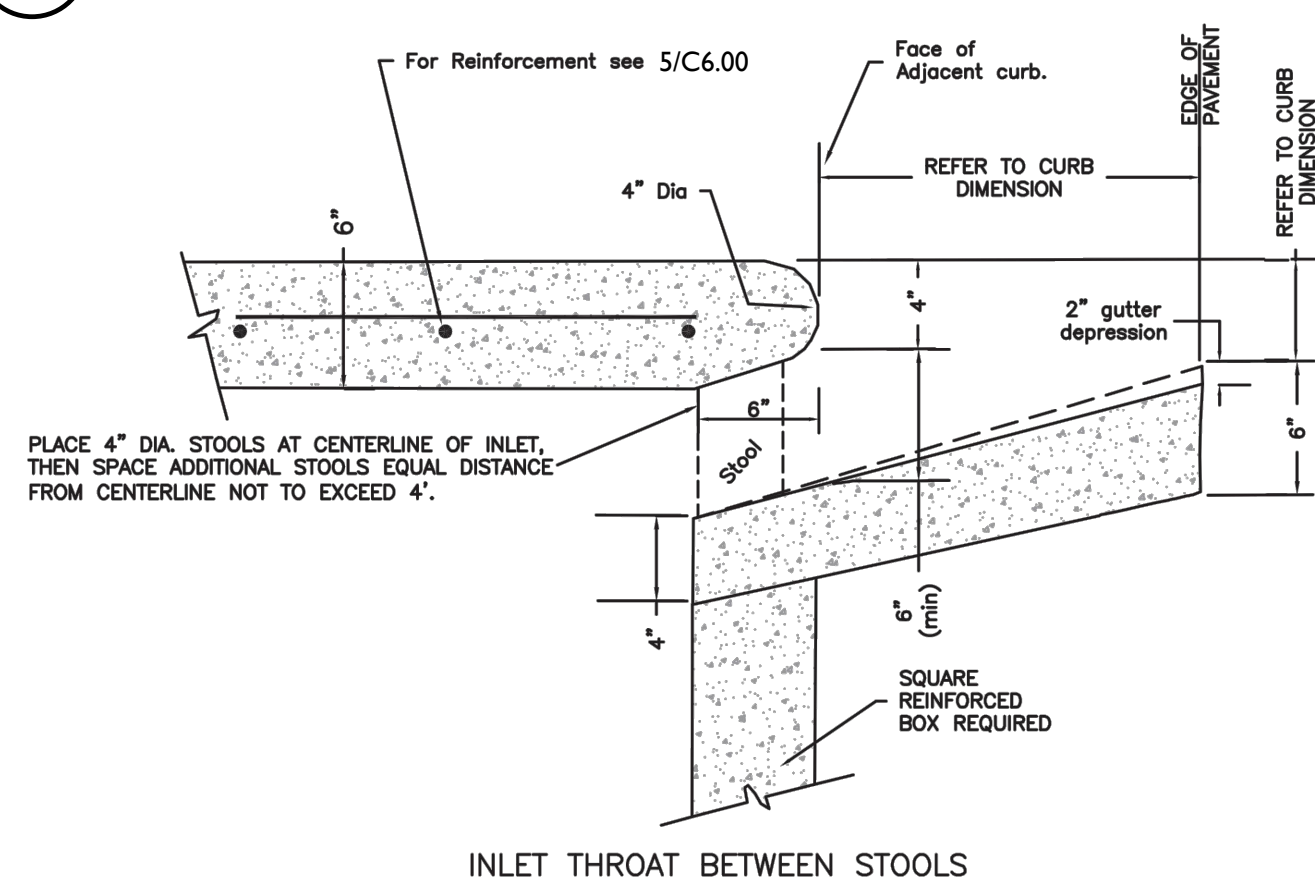




NOTE: LOW POINT (SAG) INLETS : SLOPE SHALL BE 1 FT PER 1" OF DEPRESSION BOTH SIDES  
 NOTE: THE TOP FACE OF GUTTER SHALL DROP 1/2 OF THE GUTTER DEPRESSION ACROSS THE INLET OPENING.

### 1 CURB INLET GUTTER DEPRESSION

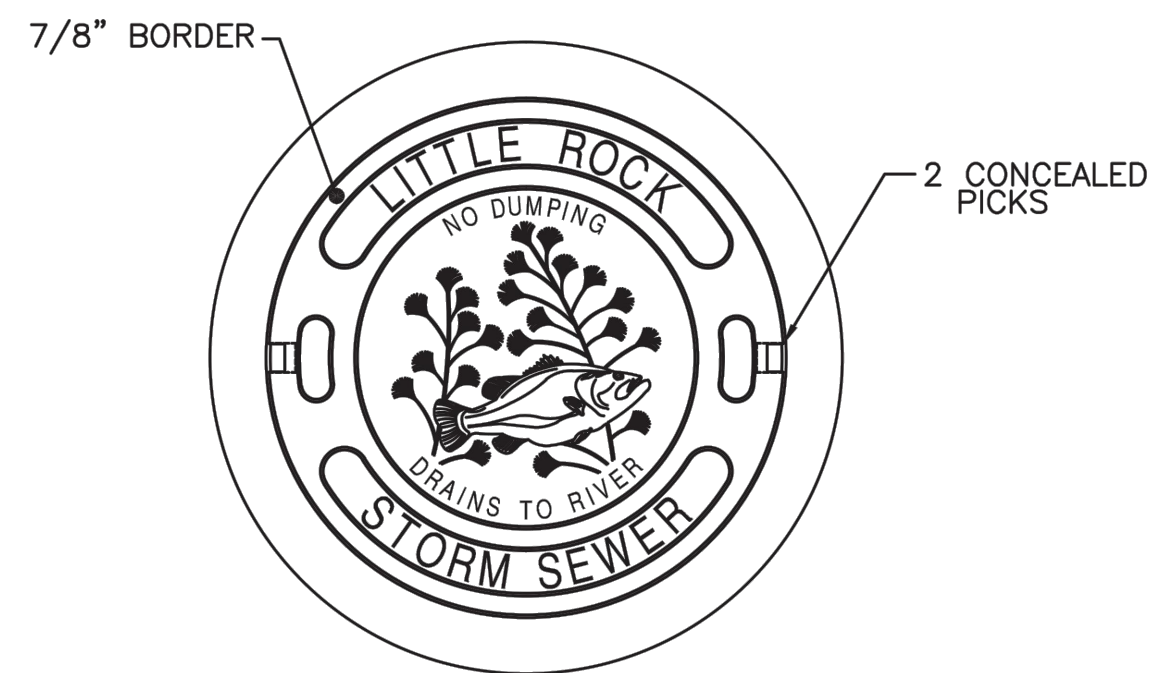
SCALE: N.T.S.



NOTE: This detail is not to be used for inlets in curb radius. See PW-10 for detail of inlet top in curb radius.

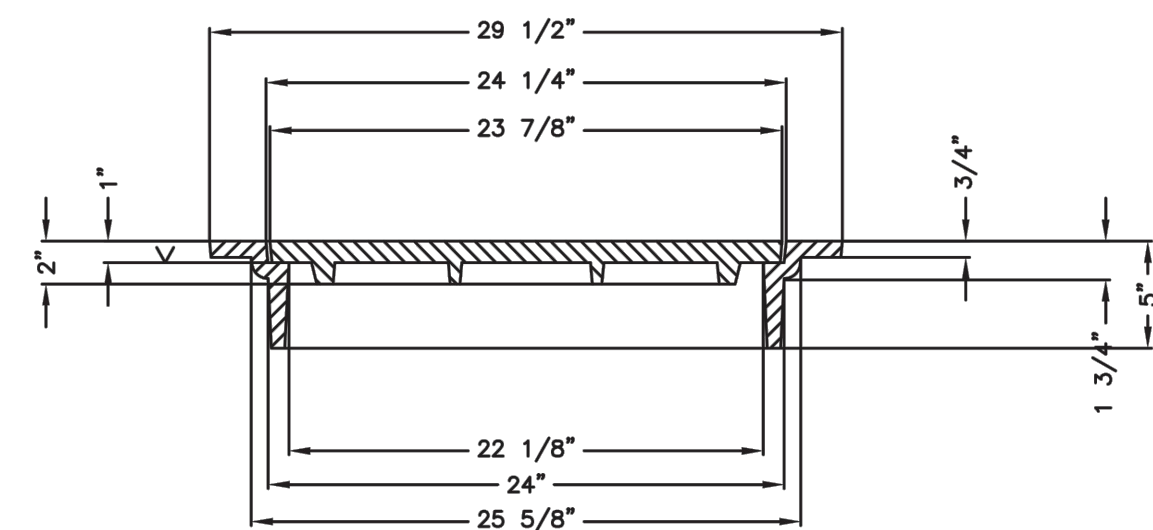
### 5 CURB INLET THROAT OPENING (INLET NOT IN RADIUS)

SCALE: N.T.S.



### 6 CURB INLET THROAT OPENING (INLET IN RADIUS)

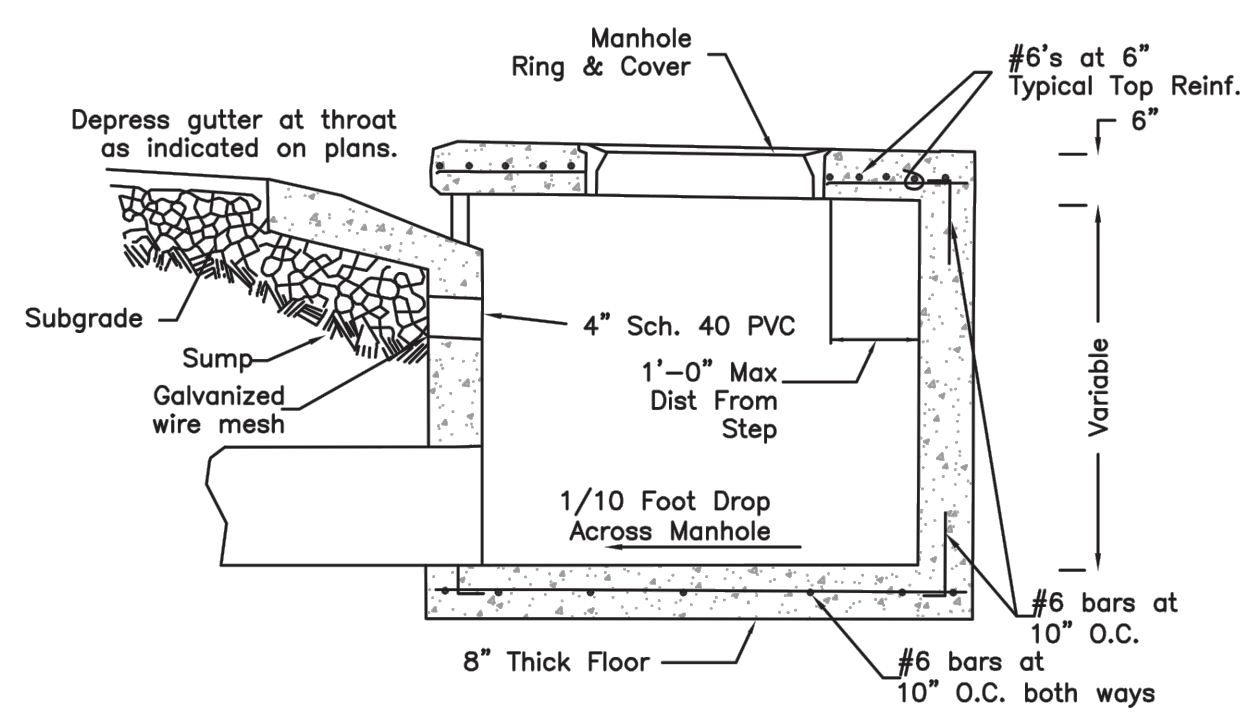
SCALE: N.T.S.



NOTE:  
 1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.  
 ITEM:  
 1. #2018-A (ENVIRONMENTAL) AS MANUFACTURED BY DEETER FOUNDRY, INC. OR EAST JORDAN 2750A MANHOLE COVER (275-24) WITH ABOVE LETTERING, OR APPROVED EQUAL PER ENGINEER.

### 9 MANHOLE FRAME & COVER

SCALE: N.T.S.



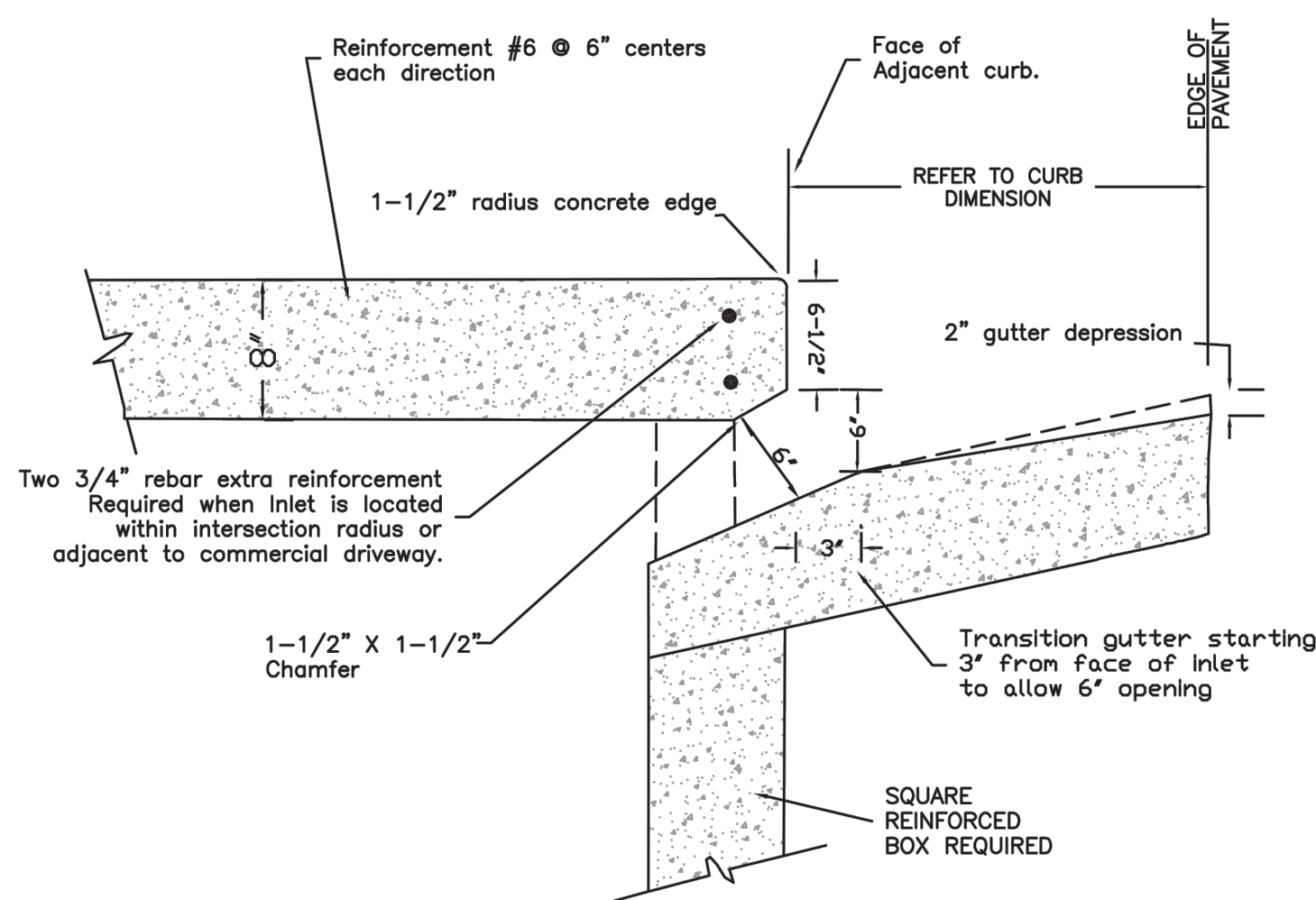
NOTE: Steps required in all inlets exceeding 3'-0" in depth. Reinforcement not required in circular inlet walls unless specified on plans.

Depression See Detail 1/C6.00 F.W.-3

DIA. OF STRUCTURE	WALL THICKNESS	DIA. OF OUTLET PIPE
4' I.D.	6"	15" Thru 27"
5' I.D.	8"	30" Thru 42"
6' I.D.	8"	48" Thru 54"
8' I.D.	10"	60" Thru 72"

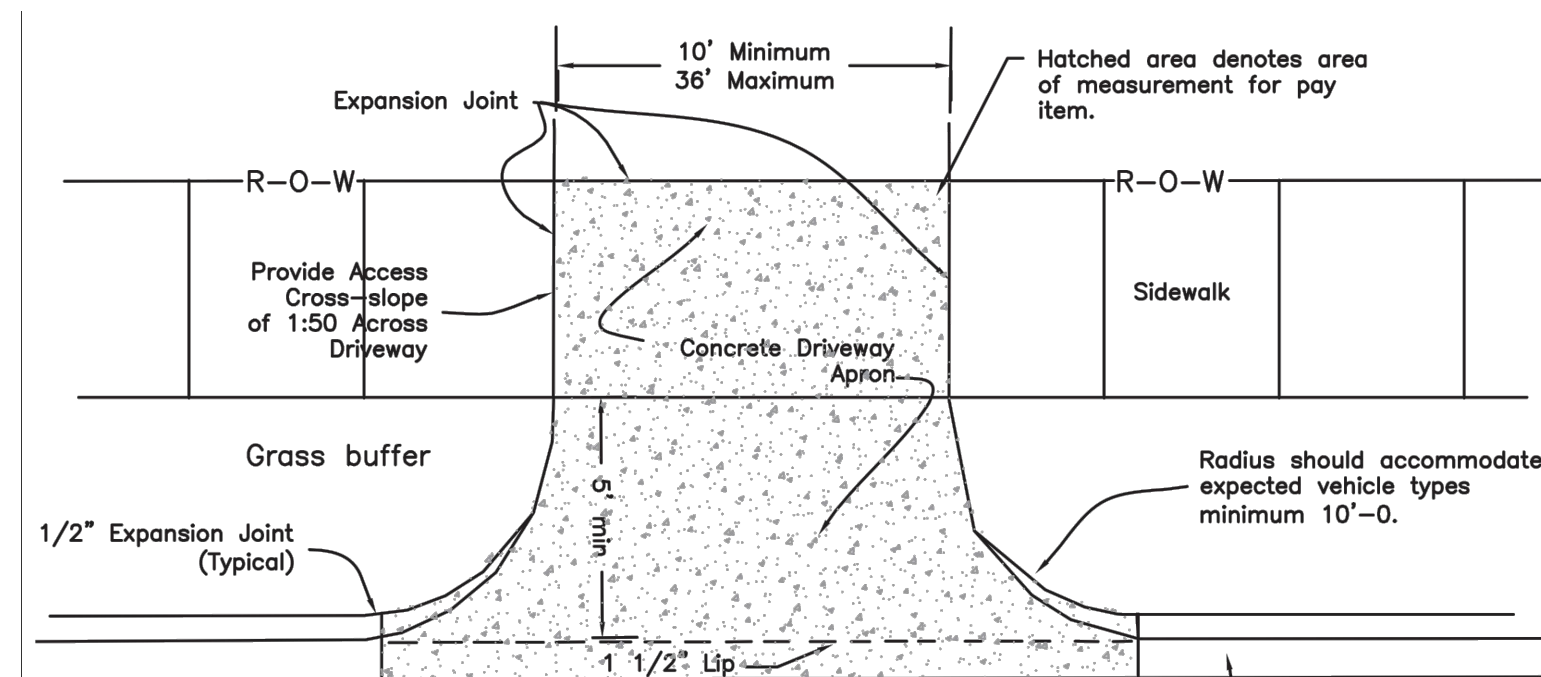
### 2 CIRCULAR CURB INLET OR JUNCTION BOX

SCALE: N.T.S.



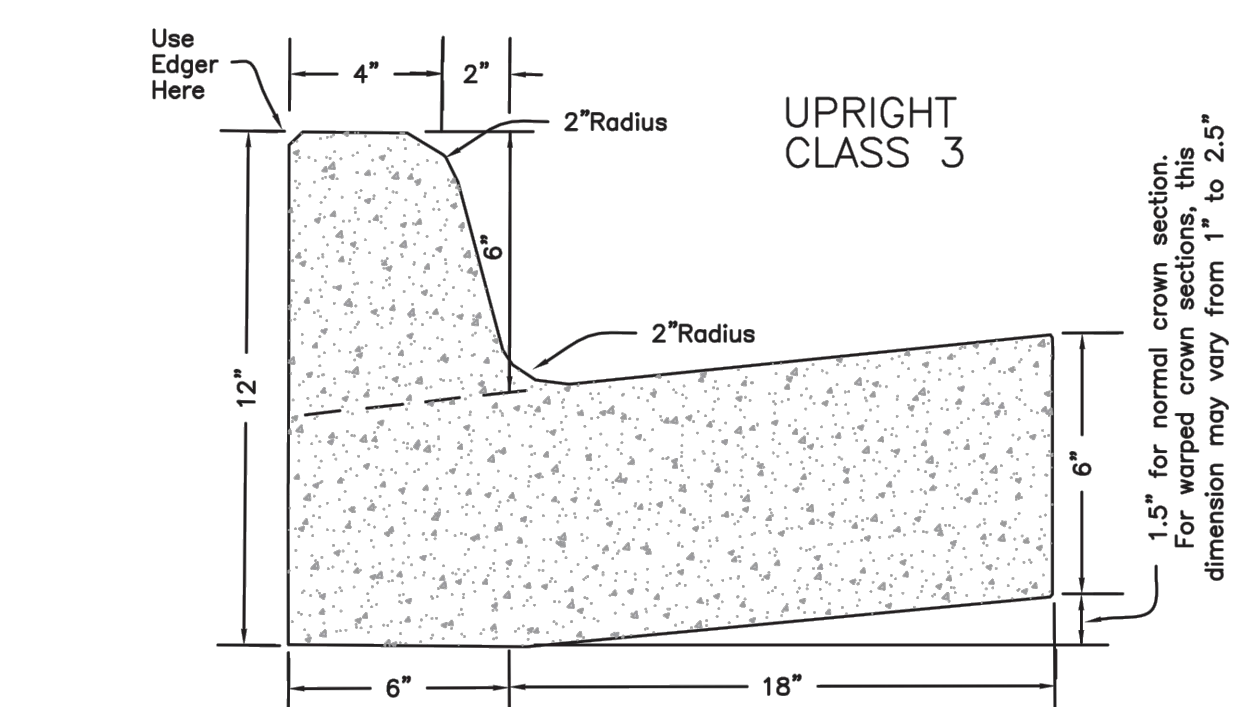
### 7 JUNCTION BOX IN ROADWAY

SCALE: N.T.S.



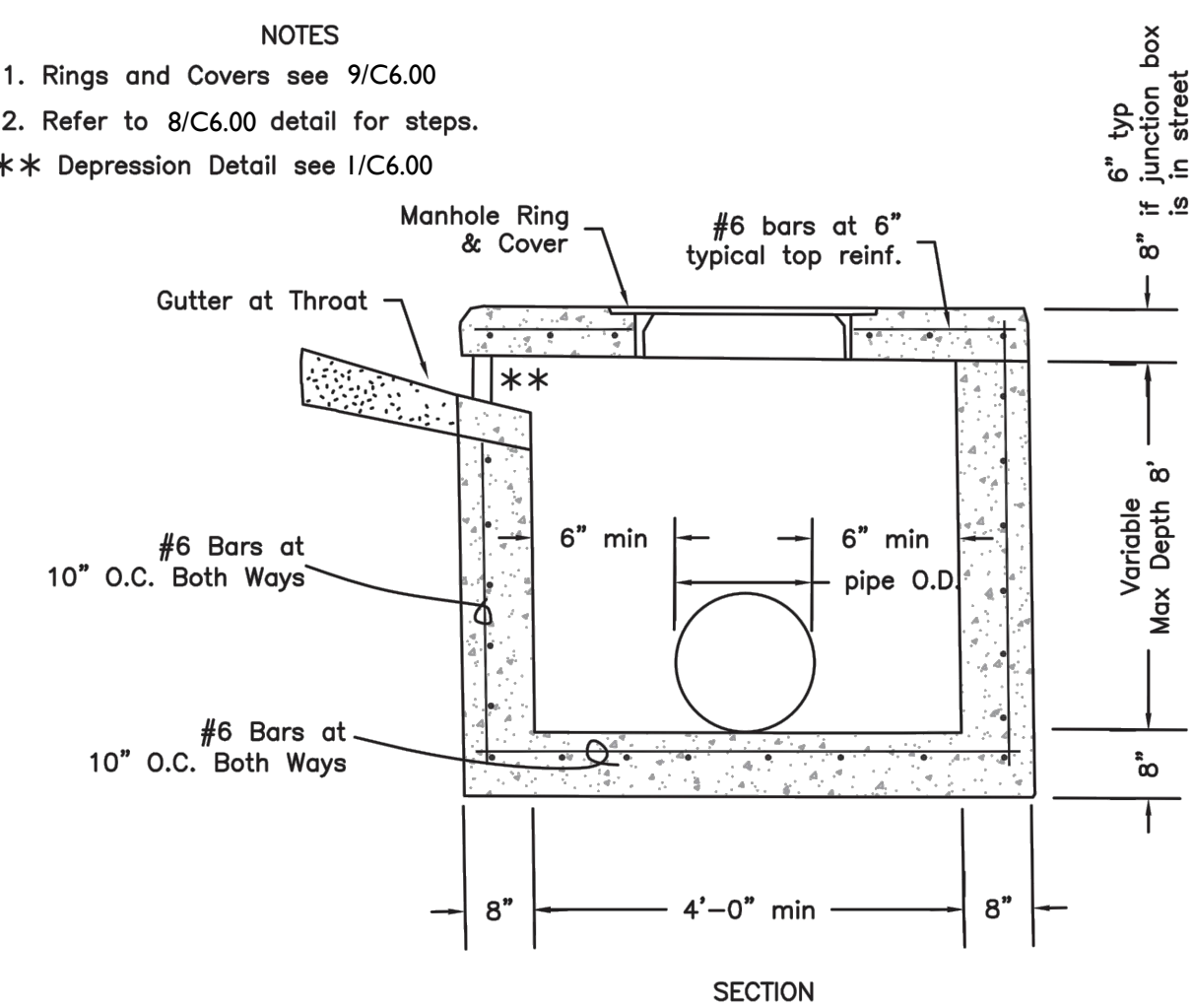
### 11 COMMERCIAL DRIVE

SCALE: N.T.S.



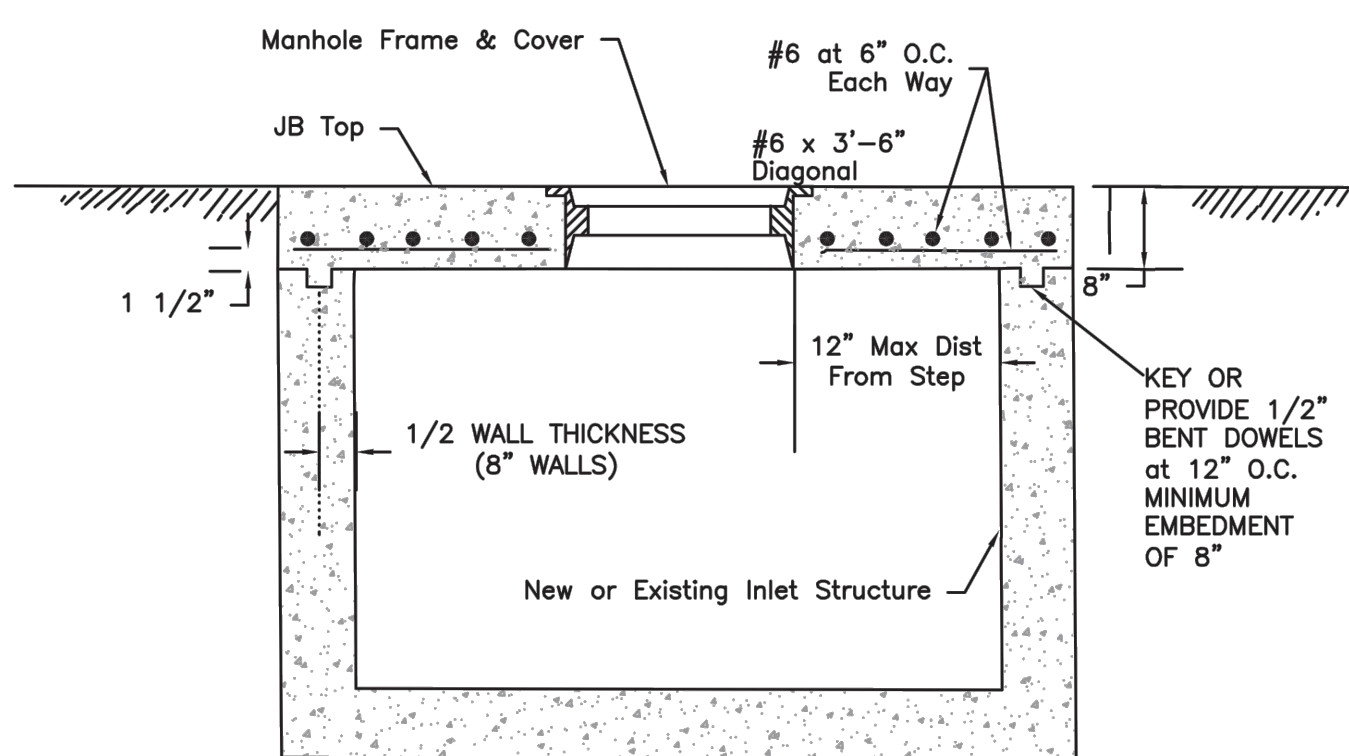
### 10 UPRIGHT CLASS 3 CURB & GUTTER

SCALE: N.T.S.



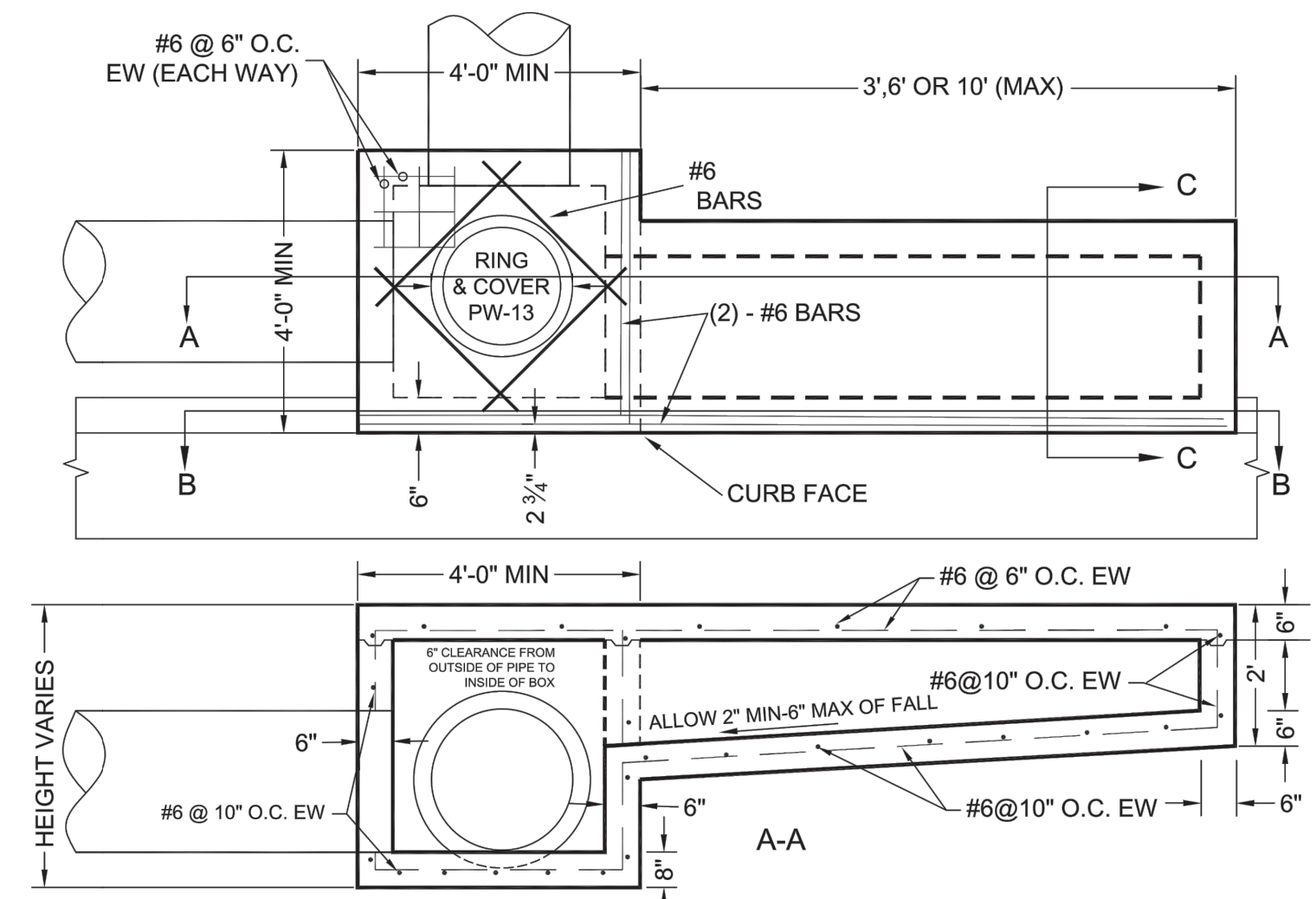
### 3 RECTANGULAR CURB INLET OR JUNCTION BOX

SCALE: N.T.S.



### 4 CURB INLET WITH THROAT EXTENSIONS

SCALE: N.T.S.



### 8 CURB INLET STEPS

SCALE: N.T.S.

- A. Manhole steps: corrosion resistant, coated, and reinforced with steel per ASTM C-478. Steel reinforcing minimum 1/2" diameter.
- B. Acceptable Manufacturers:  
 1. Utility Products Inc. Perma Step 100-2  
 2. ICM Inc. Polypropylene coated steps.  
 3. M.A. Industries, Inc. Polypropylene coated steps.  
 #PSI-PF  
 4. BOWCO, by H. Bowen Co.
- C. Capable of supporting minimum 300 lb. load.
- D. Non-Slip textured treads.
- E. Required in all structures 3'-0" deep or greater.

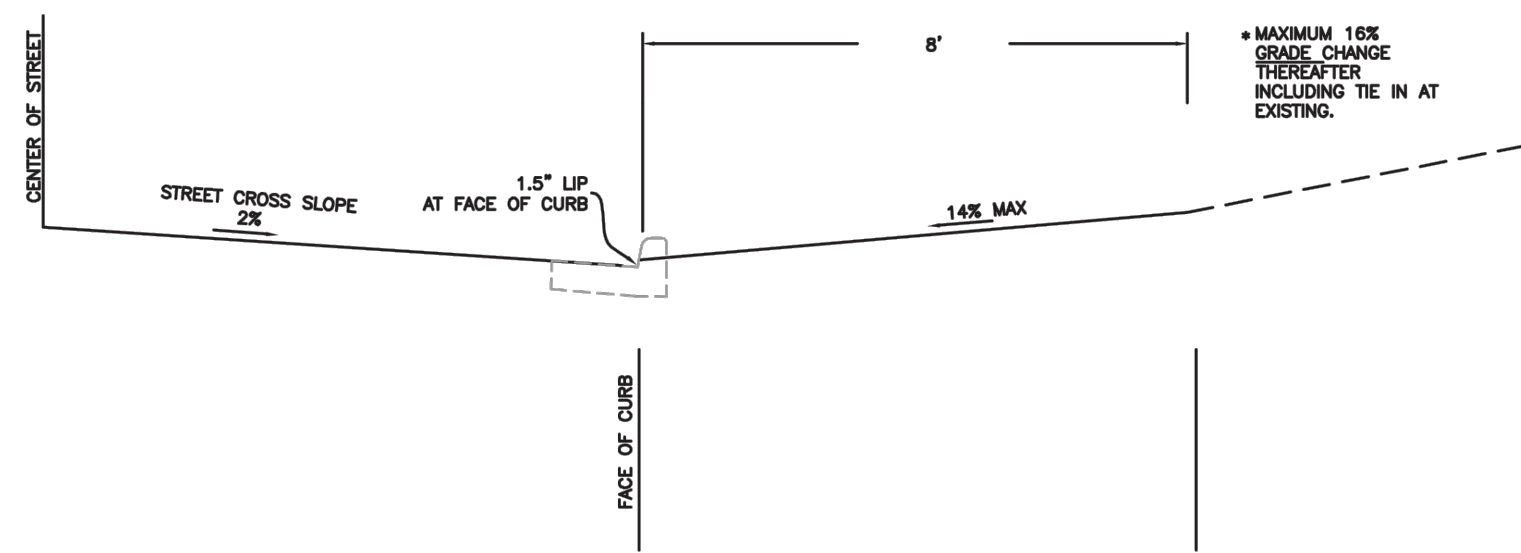


CERTIFICATE OF AUTHORIZATION  
 Ecological Design Group, Inc.  
 No. 2311  
 ARKANSAS

CONSTRUCTION PLANS
REVISIONS

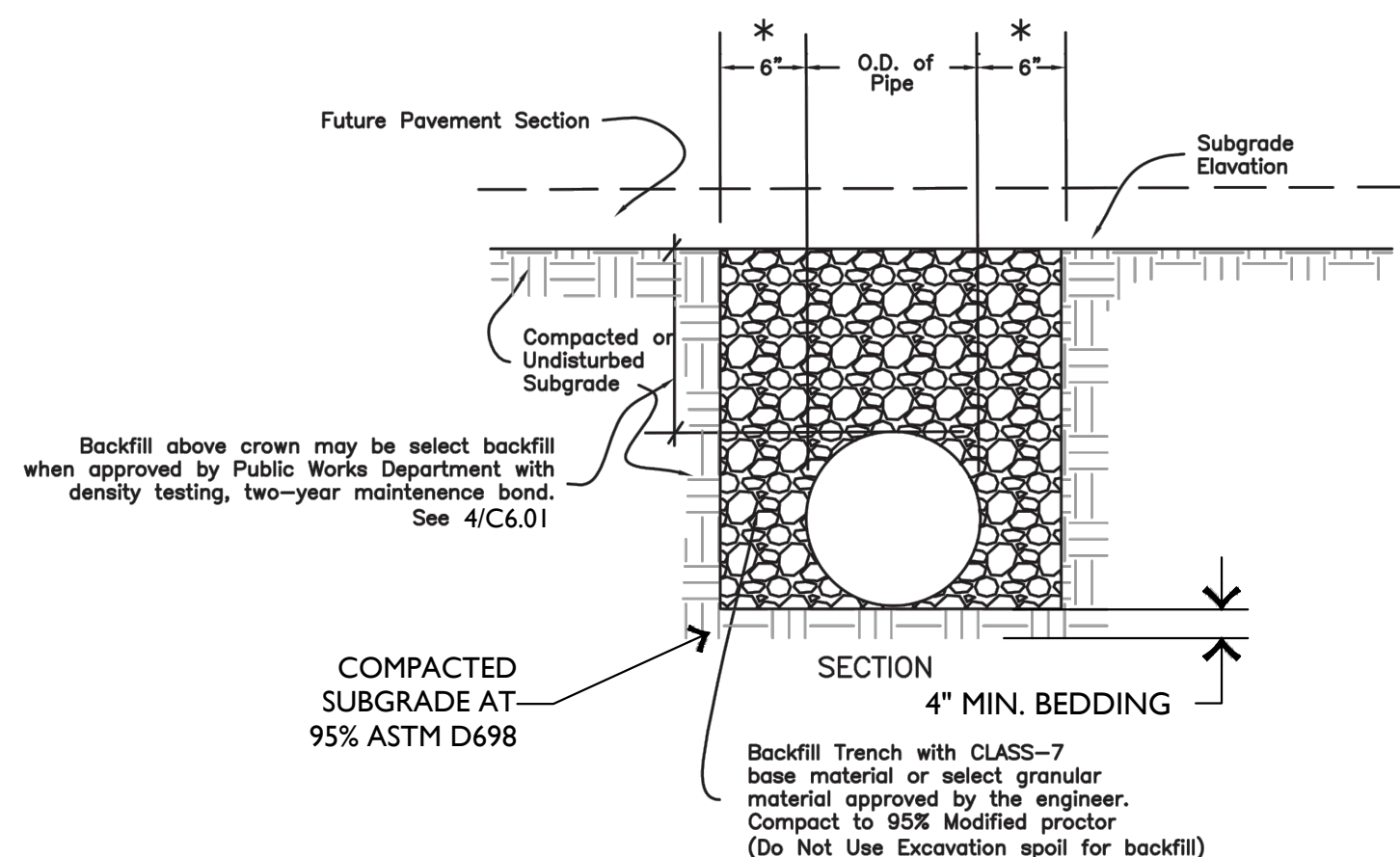
SHEET TITLE SITE DETAILS
ISSUE DATE 6-16-17
SHEET NO.





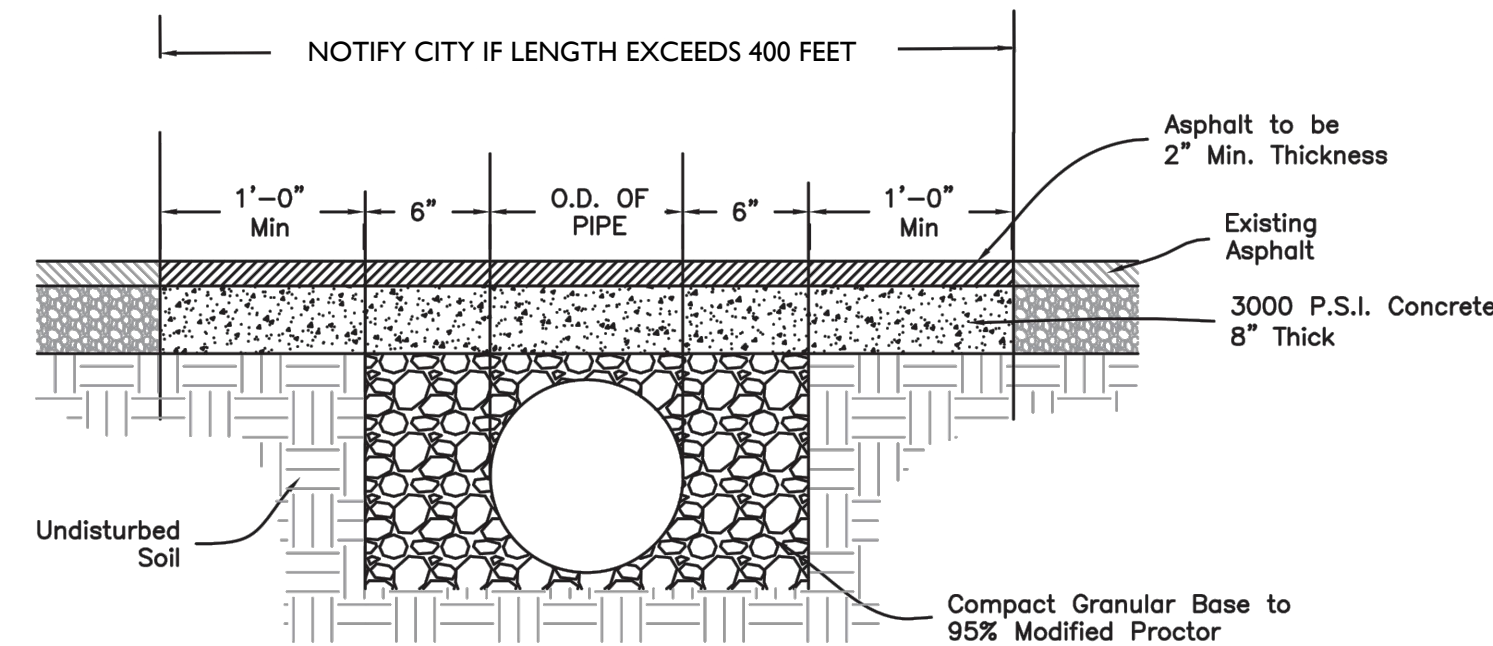
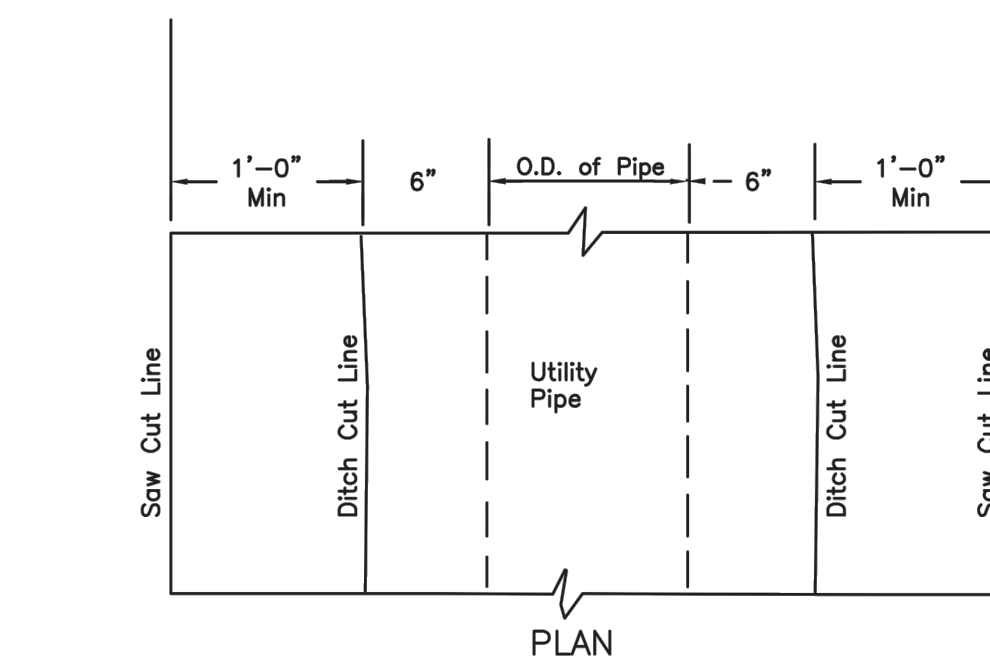
- NOTE: 1. ALL GRADE CHANGES SHALL BE ROUNDED OFF WITH A 2' RADIUS.  
 2. THE MAXIMUM GRADE CHANGE SHALL NOT EXCEED 16%.  
 3. GRADES SHOWN ARE THE MAXIMUM ALLOWED TO AVOID DRAGGING A VEHICLE. THE GRADES SHALL NOT BE DESIGNED OR USED EXCEPT IN EXTREME CONDITIONS.

1 MAXIMUM DRIVEWAY GRADE SCALE: N.T.S.



- NOTE: This backfill procedure shall be utilized for all trenches excavated in area to be paved.  
 \* SEE PUBLIC WORKS STANDARD SPECIFICATIONS FOR TRENCH WIDTH AND DEPTH REQUIRED FOR STORM DRAIN APPLICATIONS.

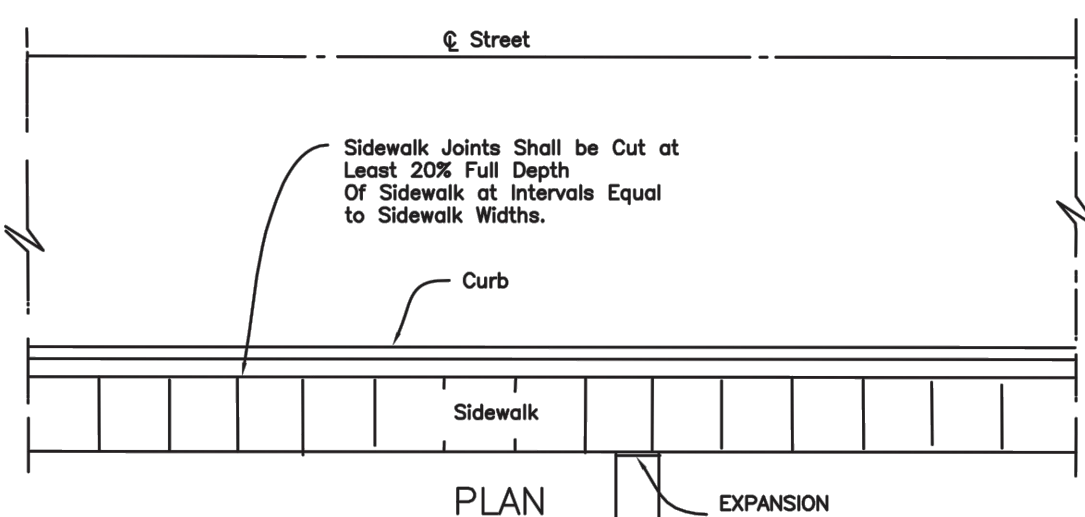
2 DRAINAGE & UTILITY CUT BACKFILL ON STREET UNDER NEW CONSTRUCTION SCALE: N.T.S.



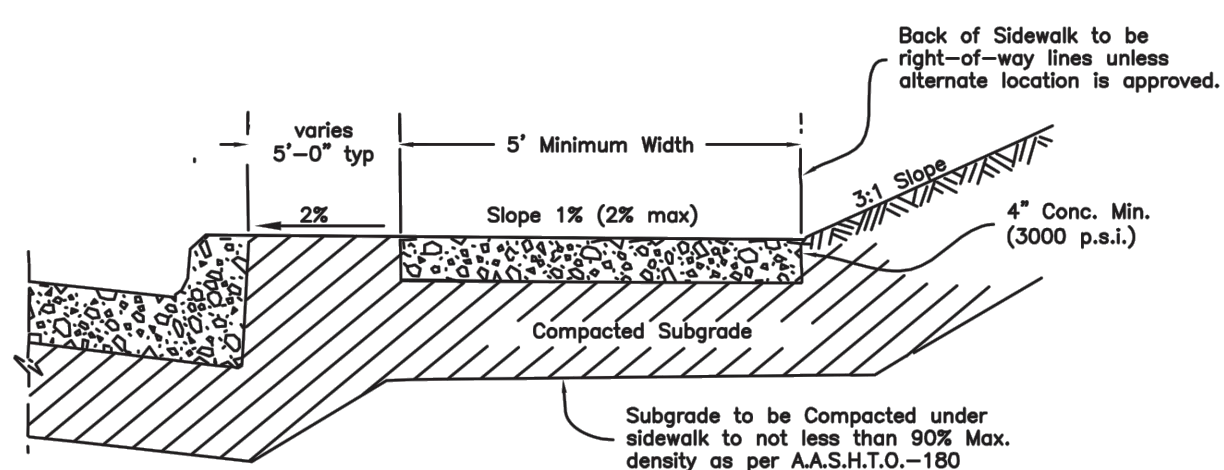
3 UTILITY CUT - PAVEMENT REPLACEMENT ON EXISTING ASPHALT STREET SCALE: N.T.S.

- The City will allow Contractor to backfill utility and storm drain installations under a planned new street with select material or approved borrow material providing Engineer of Record and Contractor comply with following:
- \* Engineer of Record must submit a request in writing to Department of Public Works. Letter must note agreement with conditions of this memorandum.
  - \* Trench backfill with other than aggregate per current City standard is not allowed in cuts of existing street, on projects where street construction is a partial widening (boundary street widening), or a street extension less than 300 feet in length. Locations must be approved prior to start of construction.
  - \* A two year maintenance bond for one-half project's construction cost shall be provided and shall cover all construction associated with project (curbs, base, ACHM surface, drainage inlets, stormdrain, sidewalks, and other improvements in right-of-way).
  - \* Trenches shall be a minimum of eighteen inches in width to allow for proper compaction.
  - \* Aggregate material as approved by Department of Public Works shall be used to crown of pipe.
  - \* Material used for backfilling may be suitable excavated material, and it may be necessary to stockpile a part or all of this suitable material for later use. Material shall be free of frozen material, trash, lumber, broken concrete having a dimension larger than two inches, or other debris. Such material shall be capable of being compacted to a density of not less than ninety-five (95) percent of maximum density, at optimum moisture, obtained in laboratory in accordance with AASHTO-Designation T-180. All tests are to be at expense of Developer or Contractor.
  - \* A letter certifying compaction of backfill in trenches shall be furnished for a minimum of every third lift with eight inch lifts maximum (one test per two feet of fill). Test locations shall be spaced no further than one hundred feet, one per street crossing, or as required by Engineer of Record or City staff.
  - \* Failure to provide satisfactory density testing of backfill for each trench will require one of three options of Contractor: A. Removal and re-compaction with certified testing. B. A maintenance bond for five (5) years shall be furnished for total project. C. A 3000 psi seven inch thick concrete cap two feet wider than trench may be installed below base course similar to Public Works Standard Detail 3/C6.01.

4 TRENCH BACKFILL REQUIREMENTS SCALE: N.T.S.

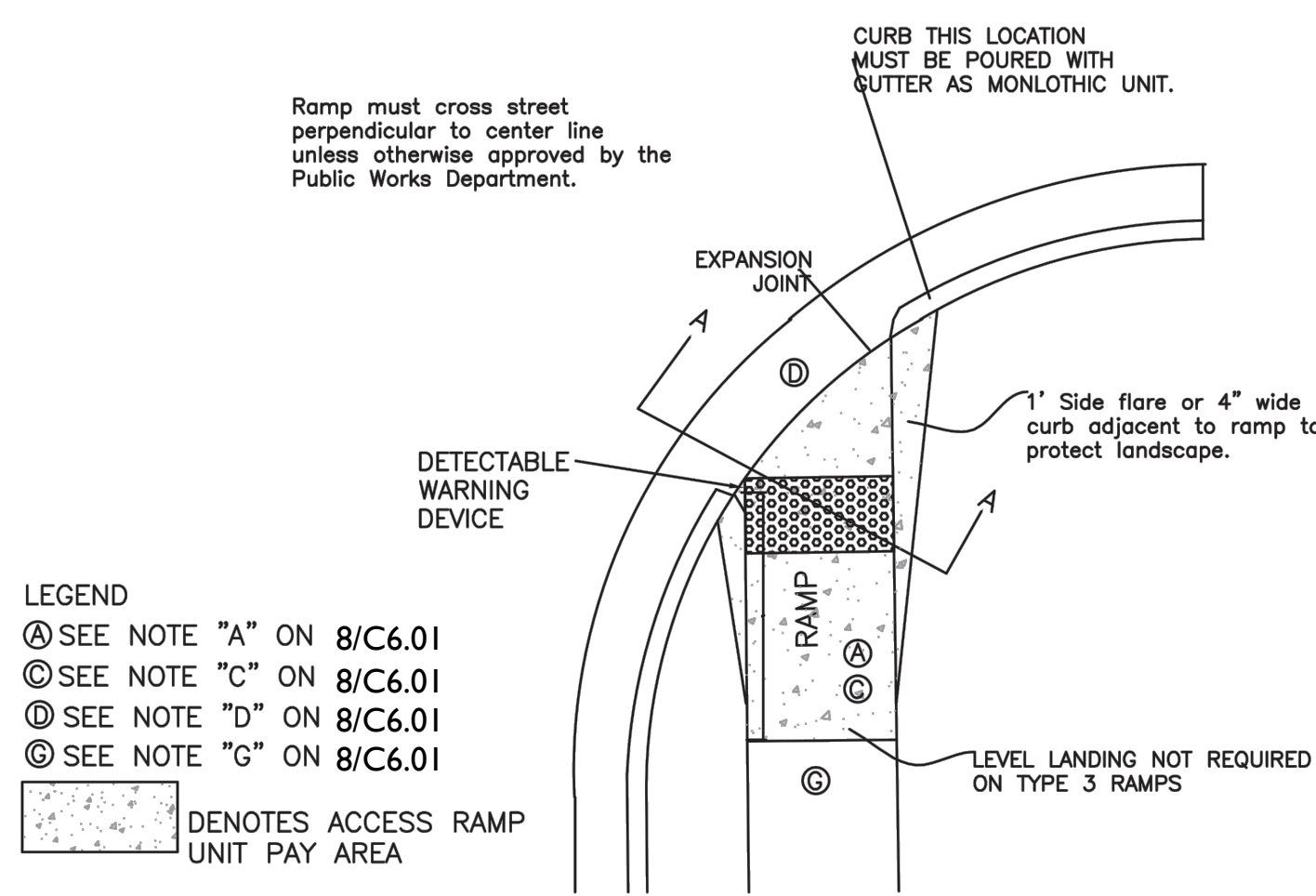


- NOTE: (1) 1/2" Expansion Joint Spacing at 60' Or adjacent and Drives.  
 (2) Expansion Material is Not Required Between Sidewalk and Curb Unless Noted on Plans.  
 (3) Dowel bars with Expansion Joint Material required at inlets. See PW-42.



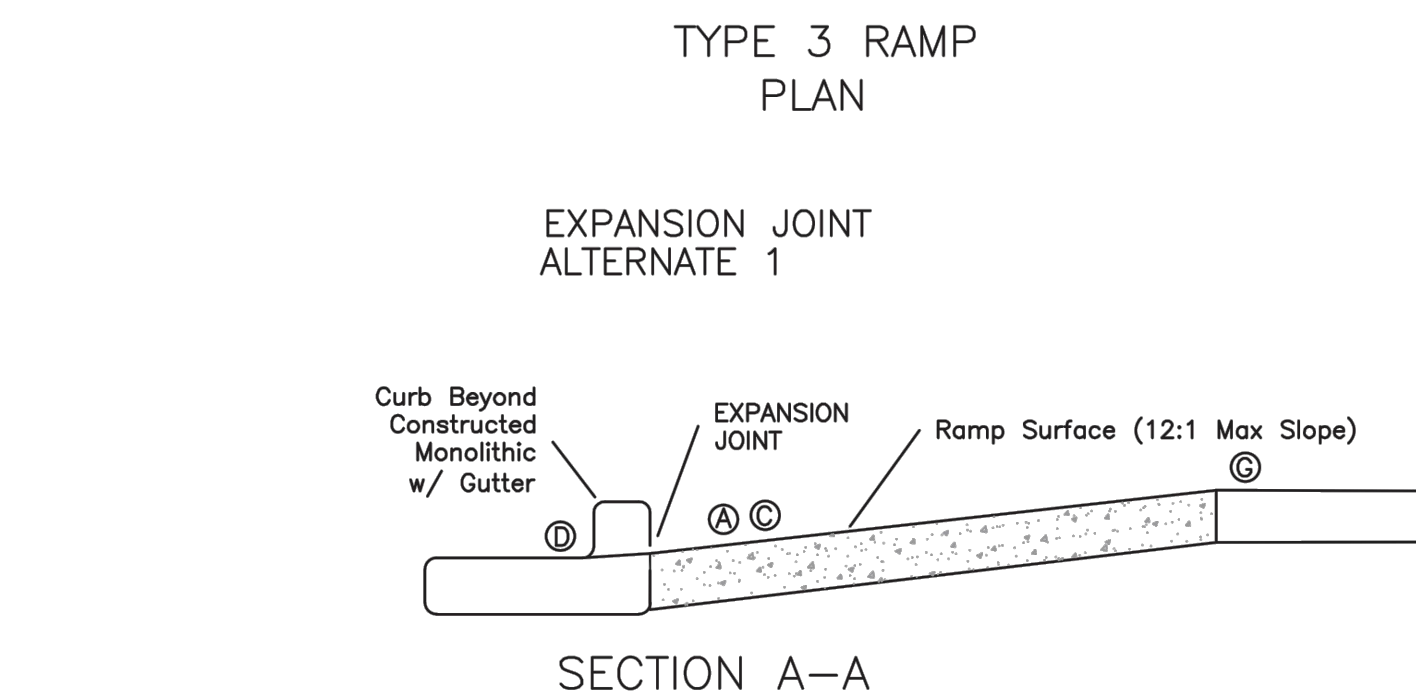
Expansion joint shall be installed between public and private sidewalk, buildings or driveways.

5 SIDEWALK SCALE: N.T.S.

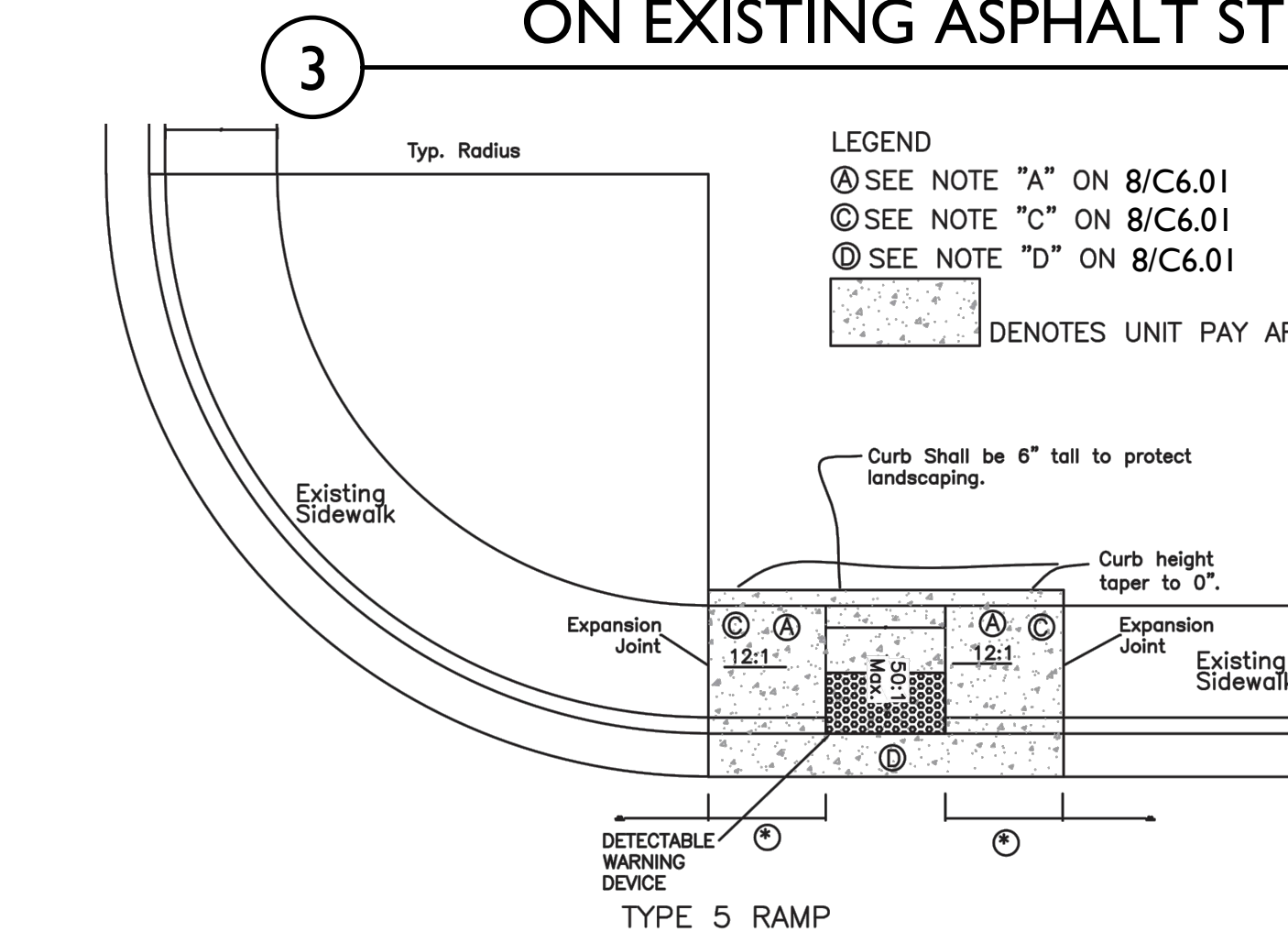


- LEGEND  
 A SEE NOTE "A" ON 8/C6.01  
 C SEE NOTE "C" ON 8/C6.01  
 D SEE NOTE "D" ON 8/C6.01  
 G SEE NOTE "G" ON 8/C6.01

DENOTES ACCESS RAMP UNIT PAY AREA

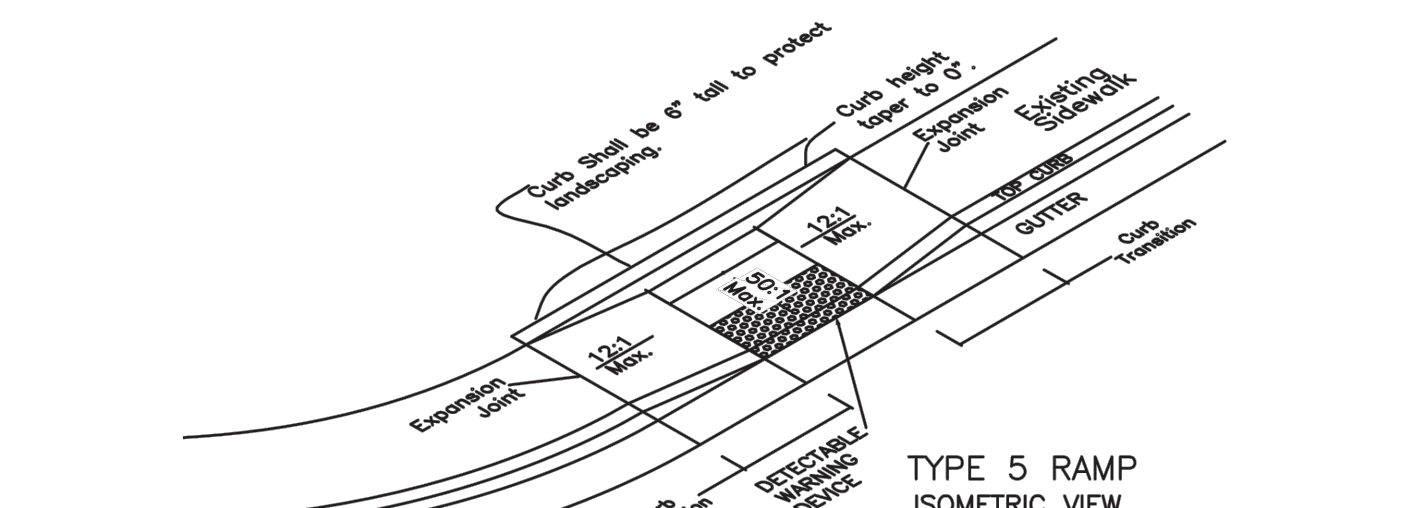


6 TYPE 3 ACCESS RAMP SCALE: N.T.S.

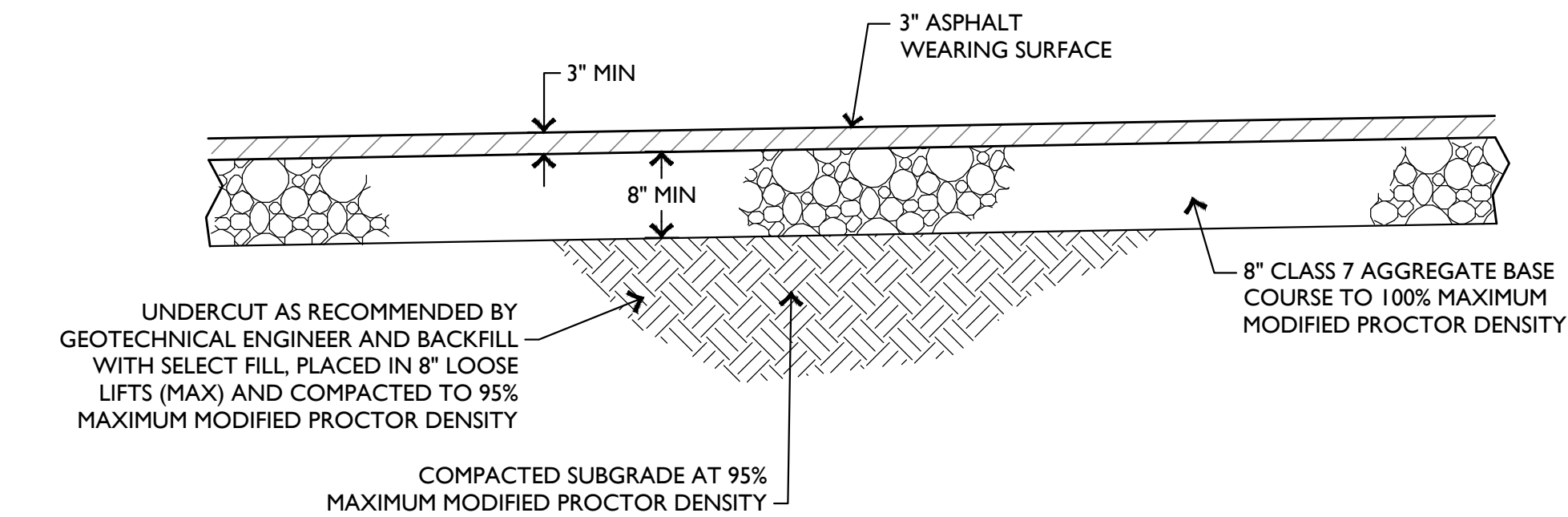


- LEGEND  
 A SEE NOTE "A" ON 8/C6.01  
 C SEE NOTE "C" ON 8/C6.01  
 D SEE NOTE "D" ON 8/C6.01

DENOTES UNIT PAY AREA

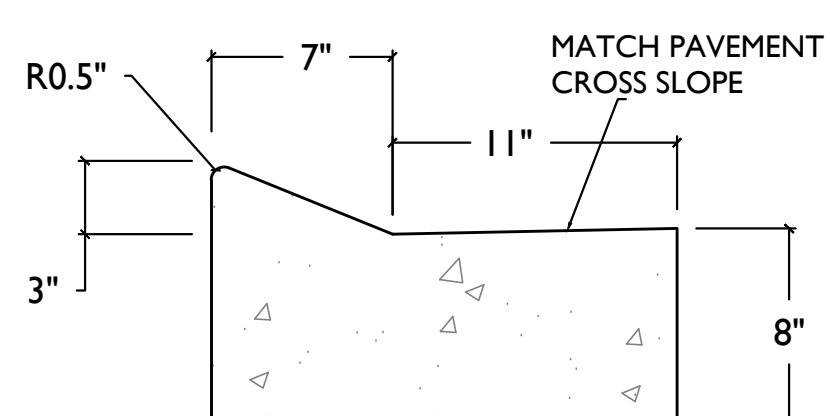


7 TYPE 5 ACCESS RAMP SCALE: N.T.S.

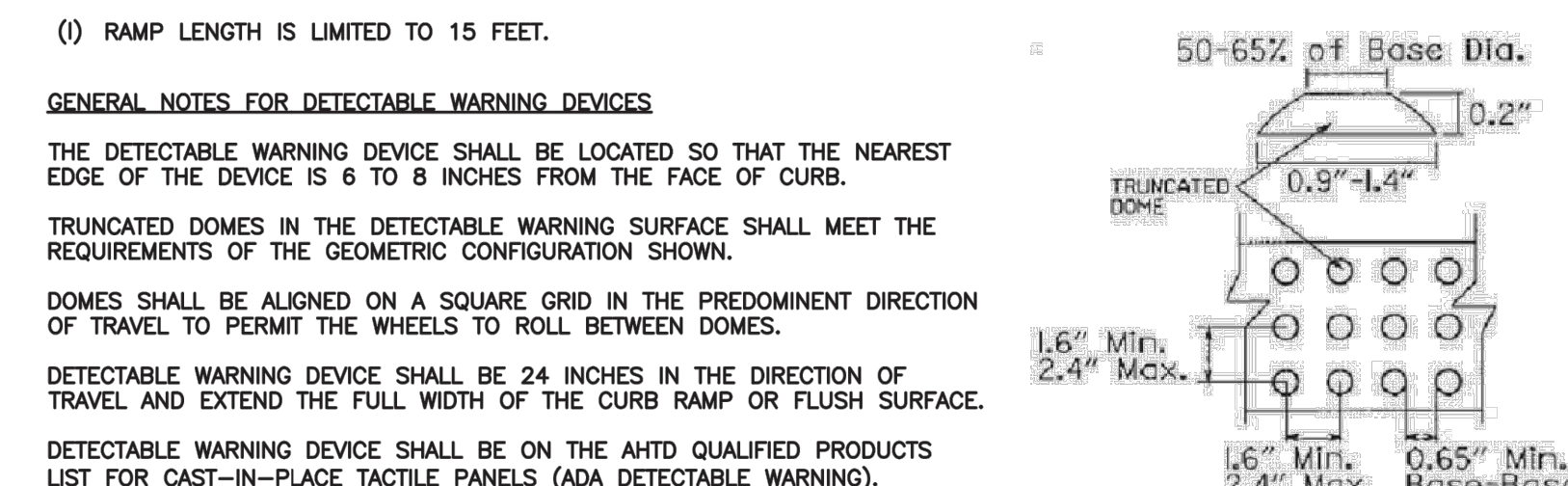


- NOTES:  
 1) SUBGRADE SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING SUBGRADE AND PAVEMENT.  
 2) IN AREAS TO RECEIVE BITUMINOUS PAVING, CONCRETE DRIVEWAYS, OR CURB AND GUTTER, SUBGRADE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 95% OF MAXIMUM DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT. (AASHTO T-180)  
 3) FOR AREAS OF SUBGRADE PREPARATION TO RECEIVE CONCRETE SIDEWALKS, SUBGRADE SHALL BE COMPACTED TO A DENSITY OF 90% MAXIMUM. (AASHTO T-180)  
 4) CENTERLINE PROFILE WILL REQUIRE HEIGHT GREATER THAN CURB FOR SOME STREETS TO MAINTAIN 2% CROSS SLOPE.  
 5) THICKNESS SHALL BE DETERMINED BY SOIL TEST AND PAVEMENT DESIGN IF REQUIRED BY DEPARTMENT OF PUBLIC WORKS. 20'-0" PAVEMENT FOR MINOR RESIDENTIAL WHERE APPROVED BY CITY. PAVEMENT RECONSTRUCTION TO CENTERLINE IS REQUIRED WHEN EXISTING STREET DOES NOT MEET THESE REQUIREMENTS

9 ASPHALT STREET SECTION SCALE: N.T.S.



10 MOUNTABLE CURB SCALE: N.T.S.



FIRST CHOICE	TYPE 1 CORNER LOCATIONS WITH WALK ADJACENT TO CURB BOTH NEW CONSTRUCTION AND ALTERATIONS
	TYPE 2 CORNER LOCATIONS WITH WALK OFFSET FROM CURB A DISTANCE INSUFFICIENT TO ALLOW REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS)
	TYPE 3 CORNER LOCATIONS WITH WALK OFFSET FROM CURB A DISTANCE SUFFICIENT TO ALLOW REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS)
	TYPE 4 TANGENT LOCATIONS (BOTH NEW CONSTRUCTION AND ALTERATIONS)
SECOND	TYPE 5 TANGENT LOCATIONS (ALTERATIONS ONLY)

8 ACCESS RAMP (GENERAL NOTES & RAMP CRITERIA) SCALE: N.T.S.

**EDG**  
 Ecological Design Group, Inc.  
 130 S. Izard Street  
 Little Rock, AR 72201  
 P 501.378.0200  
 F 501.378.0201  
 314 South 3rd Street  
 Rogers, AR 72756  
 P 479.935.4826  
 210 E. Merriam Ave.  
 Wynne, AR 72376  
 P 870.588.6026  
 F 870.238.8210

**STREET & UTILITY IMPROVEMENTS**  
**4TH, 5TH, POPLAR & MAGNOLIA STREETS**  
 North Little Rock, Arkansas

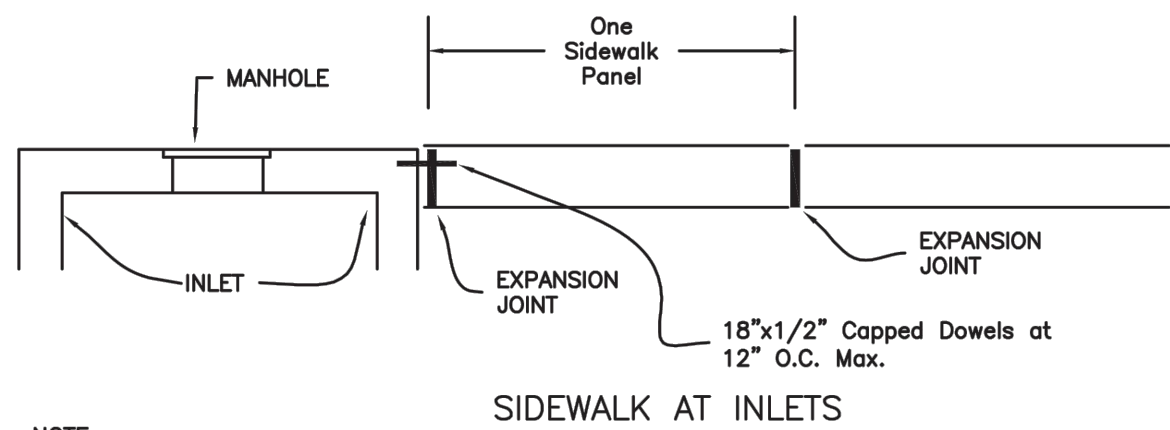


CONSTRUCTION PLANS	
REVISIONS	

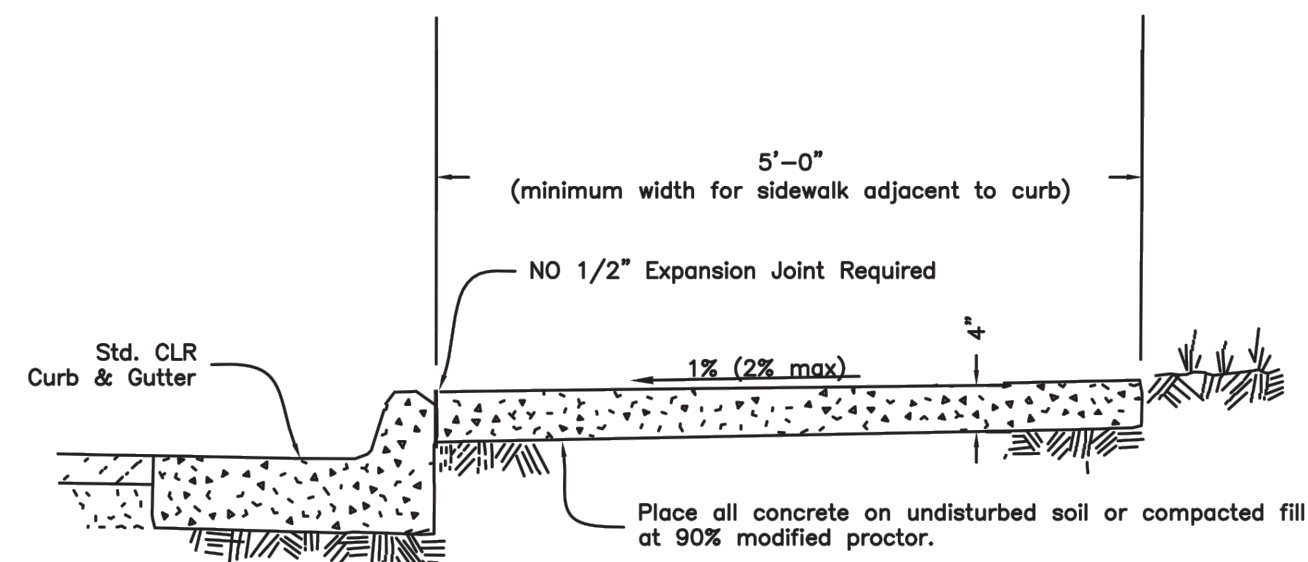
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ISSUE DATE	6-16-17
SHEET NO.	
<b>C7.01</b>	



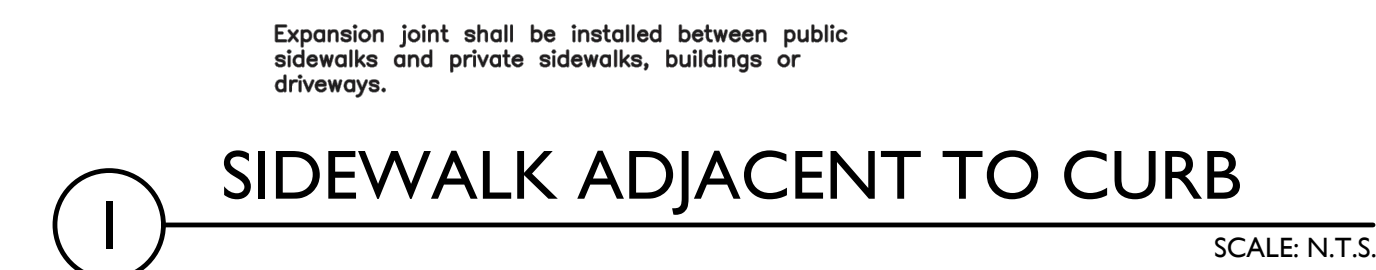
GENERAL NOTE: PUBLIC SIDEWALK SHALL BE BUFFERED FROM STREET. SIDEWALK MAY BE INSTALLED ADJACENT TO CURB ONLY UPON RECEIVING WRITTEN AUTHORIZATION FROM PUBLIC WORKS.



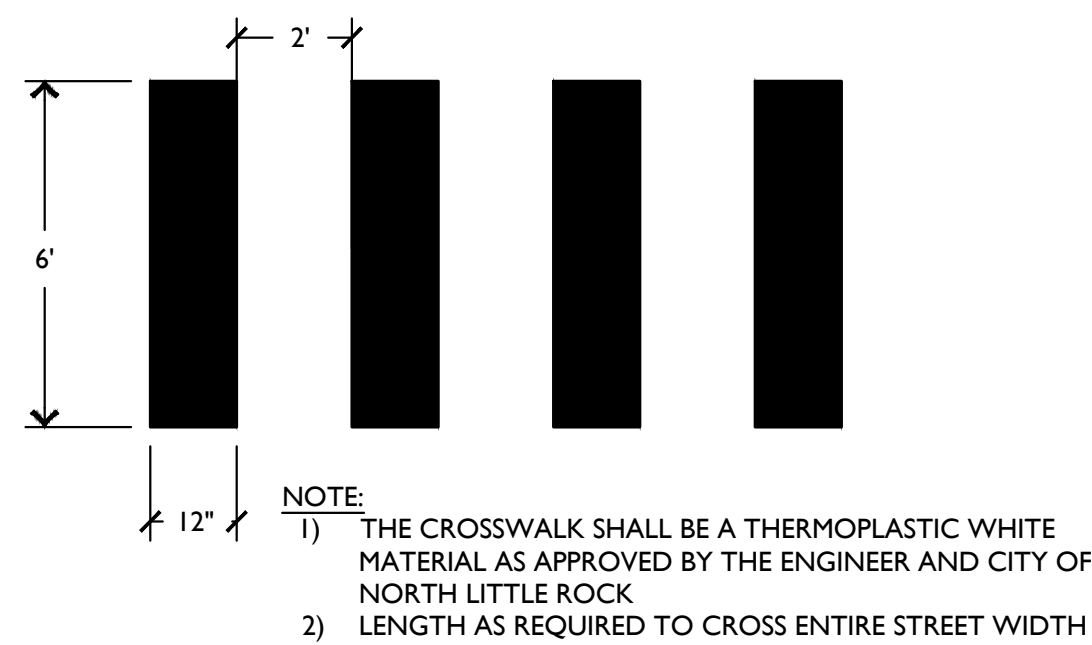
NOTE: 1/2" Expansion Joint Spacing at 60' Or adjacent to Structures and Drives. Sidewalk Expansion Material is Required Between Sidewalks and Inlets. Dowel bars with Expansion Joint Material required at Inlets.



2 THERMOPLASTIC CROSSWALK MARKINGS (MUTCD SECTION 3B.18) SCALE: N.T.S.



1 SIDEWALK ADJACENT TO CURB SCALE: N.T.S.

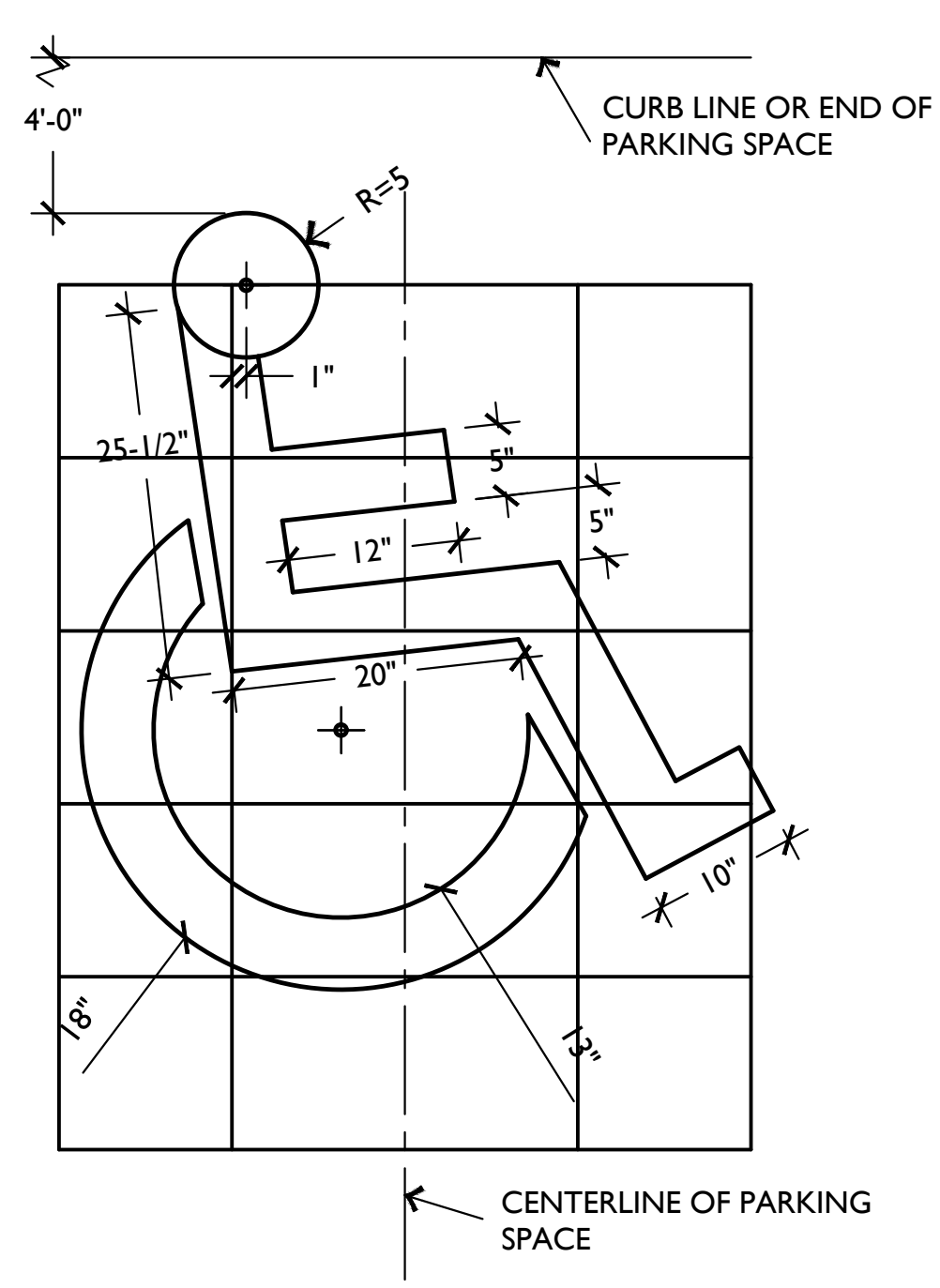


NOTE: All Work on Sanitary Sewer Manholes & Sewer Lines shall be in accordance with Standard City of Little Rock Wastewater Dept. Details & Specifications.

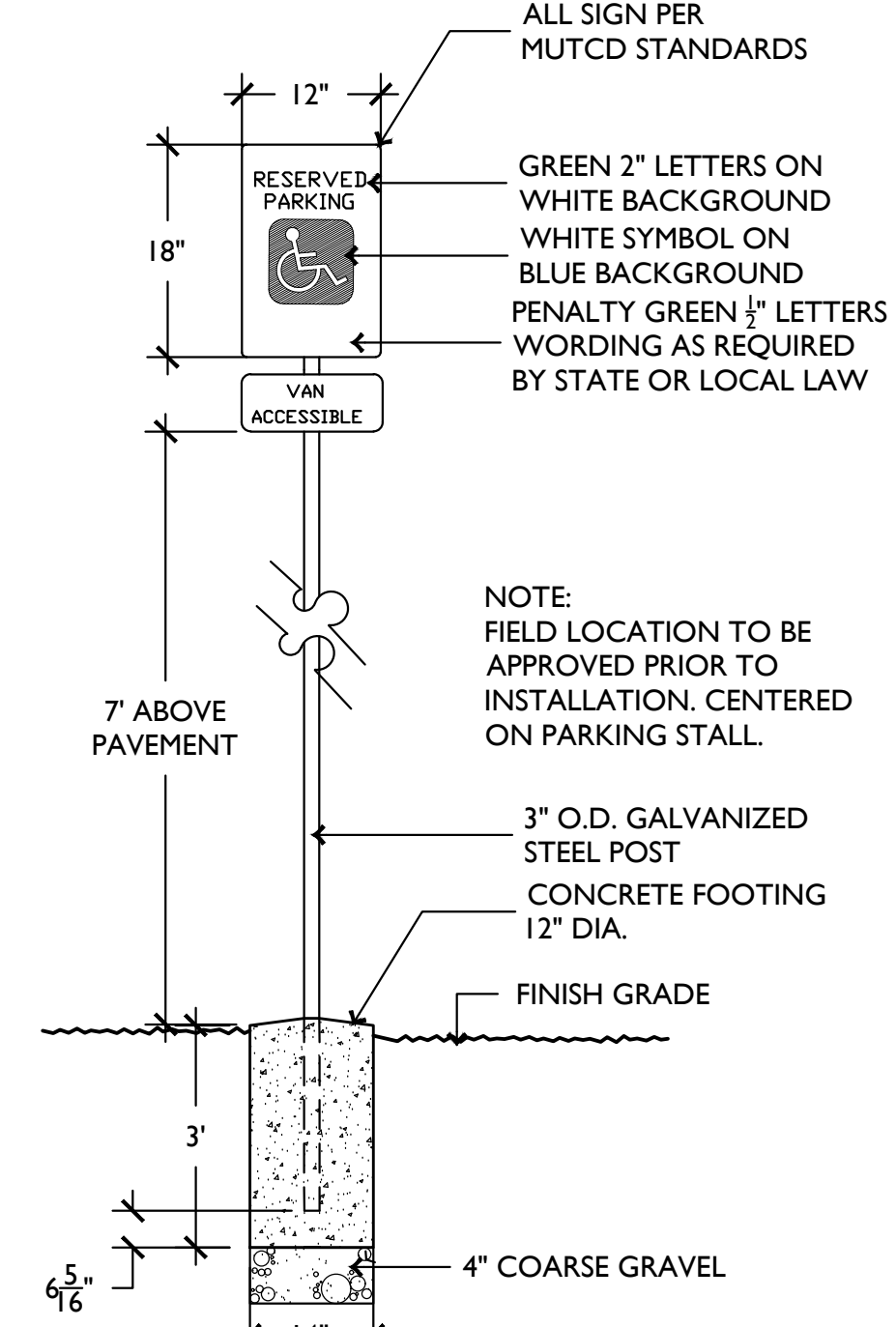
\* NOTE: Where a neck section of greater than 12" is required to bring the Manhole up to the New Grade, the contractor shall Rebuild the Cone Section of the Manhole.

5 SANITARY SEWER MANHOLE TOP ADJUSTMENT DETAIL SCALE: N.T.S.

2 THERMOPLASTIC CROSSWALK MARKINGS (MUTCD SECTION 3B.18) SCALE: N.T.S.



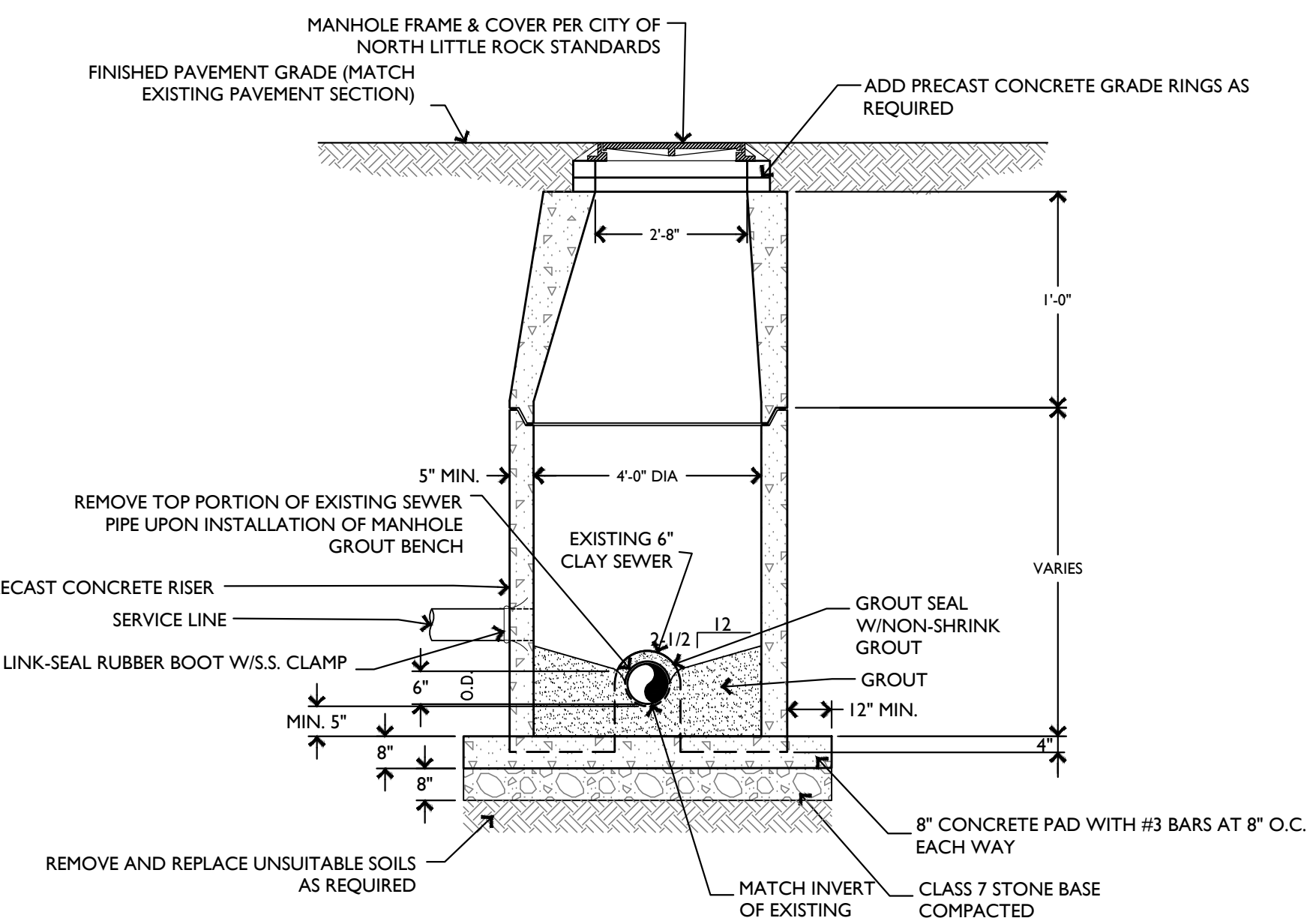
3 ACCESSIBLE SYMBOL SCALE: N.T.S.



NOTES:  
1. SUBGRADE SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING SUBGRADE AND PAVEMENT.  
2. SEE DETAIL THIS SHEET FOR JOINT DETAILS.  
3. SEE SHEET C1.1 FOR JOINT LAYOUT.

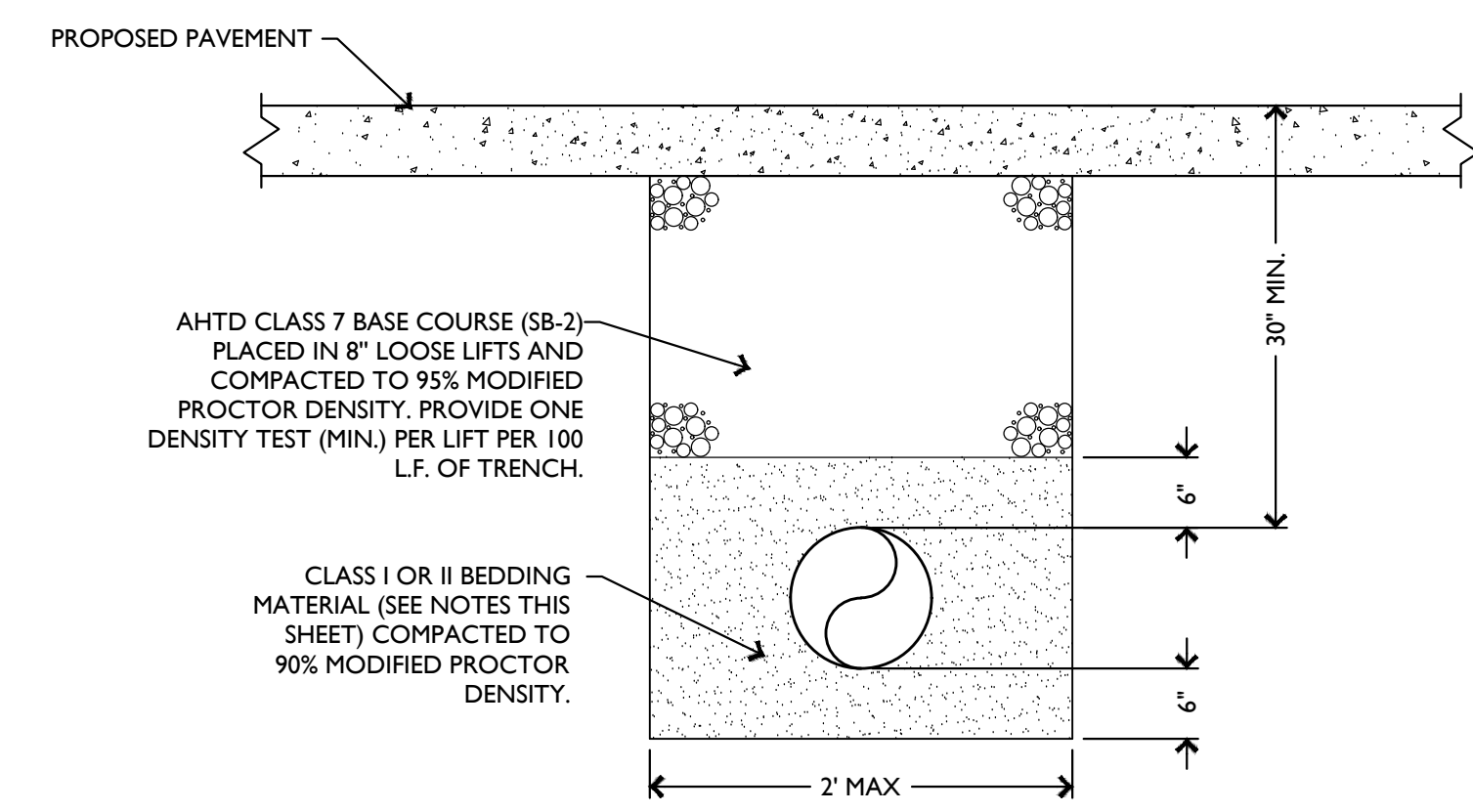
UNDERCUT AS RECOMMENDED BY GEOTECHNICAL ENGINEER AND BACKFILL WITH SELECT FILL (12" MIN THICKNESS), PLACED IN 8" LOOSE LIFTS (MAX) AND COMPACTED TO 90% OF MAXIMUM MODIFIED PROCTOR DENSITY.

7 TYPICAL CONCRETE PAVEMENT SECTION SCALE: N.T.S.

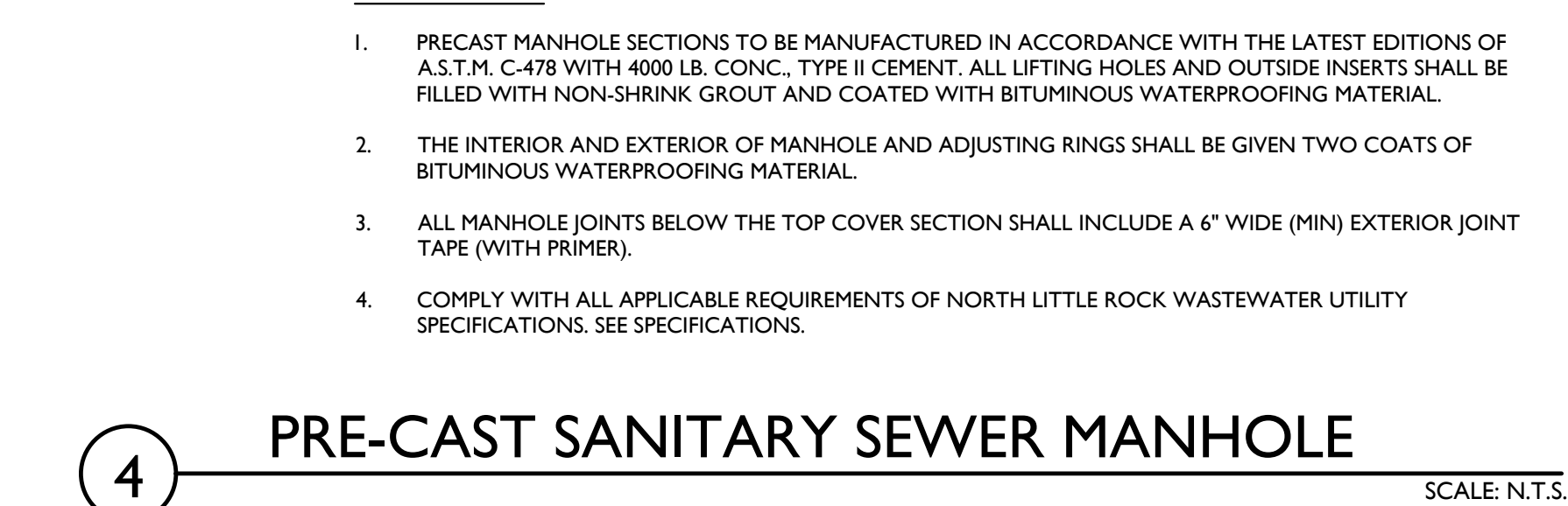


PIPE BEDDING NOTES:  
1. CLASS I BEDDING MATERIAL - PER ASTM D2487 AND SHALL CONSIST OF MANUFACTURED ANGULAR, GRANULAR MATERIAL  
2. CLASS II BEDDING MATERIAL - PER ASTM D2487 AND:  
A. SOIL TYPE GW - WELL - GRADED GRAVELS AND GRAVEL SAND MIXTURES, LITTLE OR NO FINES. 50% OR MORE RETAINED ON NO. 40 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.  
B. SOIL TYPE GP - POORLY GRADED GRAVELS AND GRAVEL - SAND MIXTURES, LITTLE OR NO FINES. 50% OR MORE RETAINED ON NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.

8 BEDDING AND BACKFILL FOR SEWER PIPE (UNPAVED AREAS) SCALE: N.T.S.



9 BEDDING AND BACKFILL FOR SEWER PIPE (PAVED AREAS) SCALE: N.T.S.



4 PRE-CAST SANITARY SEWER MANHOLE SCALE: N.T.S.

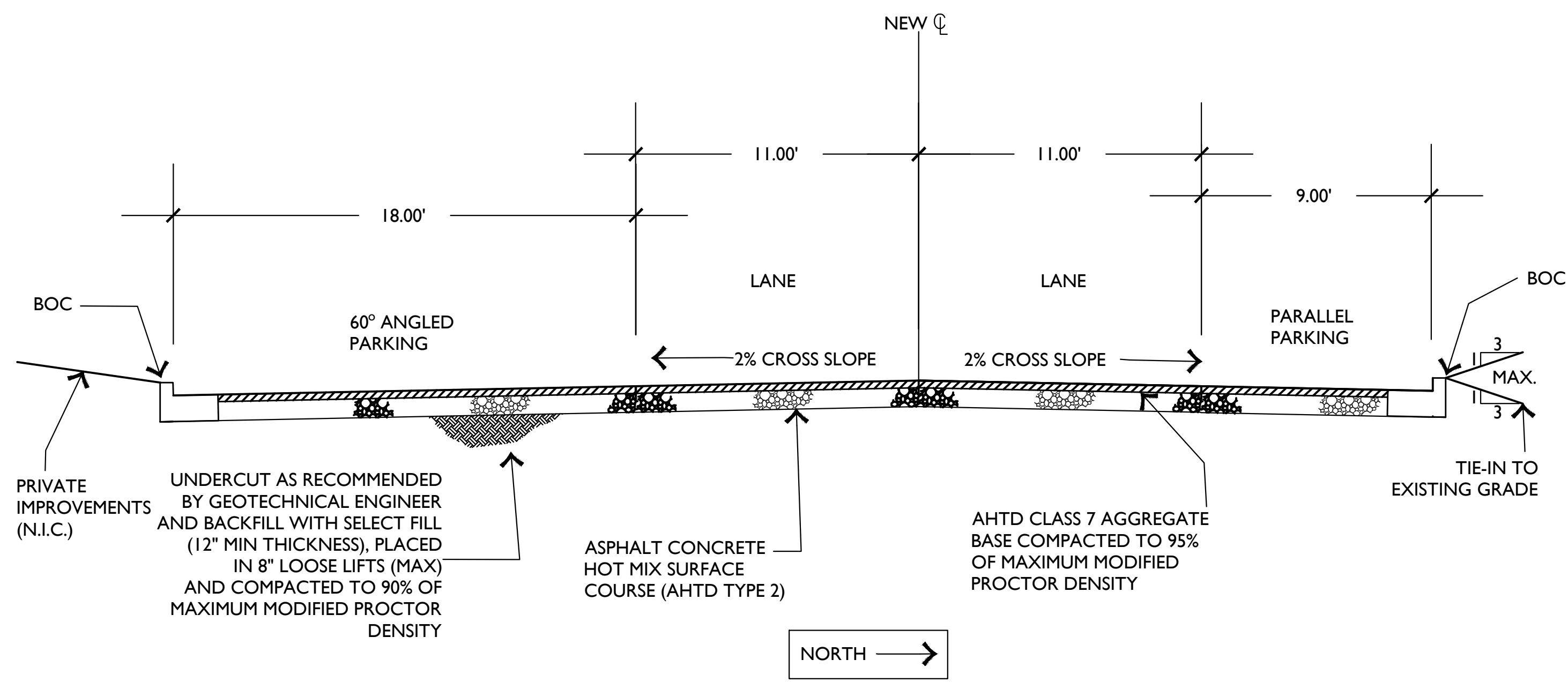


CONSTRUCTION PLANS

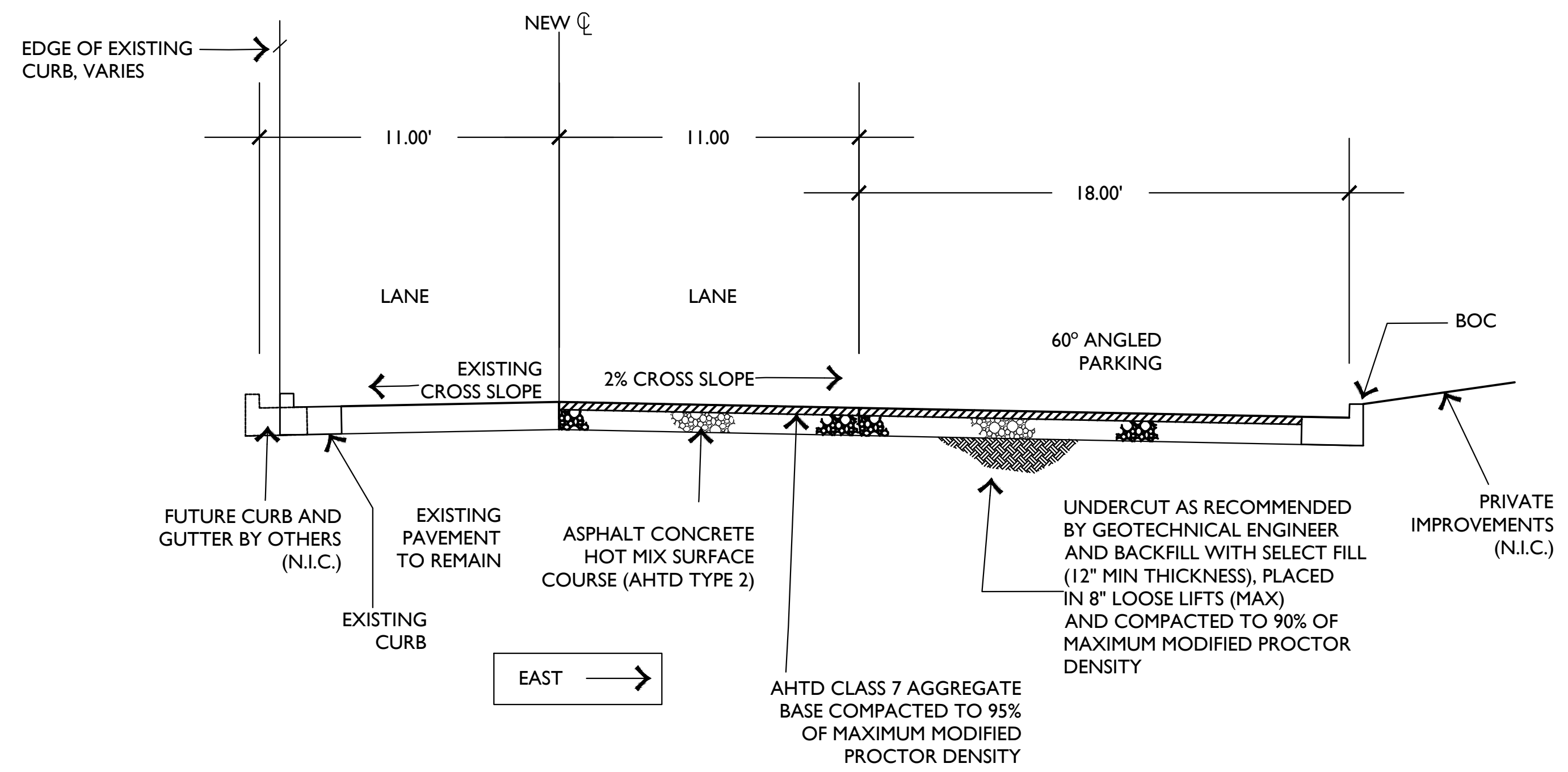
SHEET TITLE
SITE DETAILS
ISSUE DATE
6-16-17
SHEET NO.
C7.02



**STREET & UTILITY IMPROVEMENTS**  
**4TH, 5TH, POPLAR & MAGNOLIA STREETS**  
 North Little Rock, Arkansas

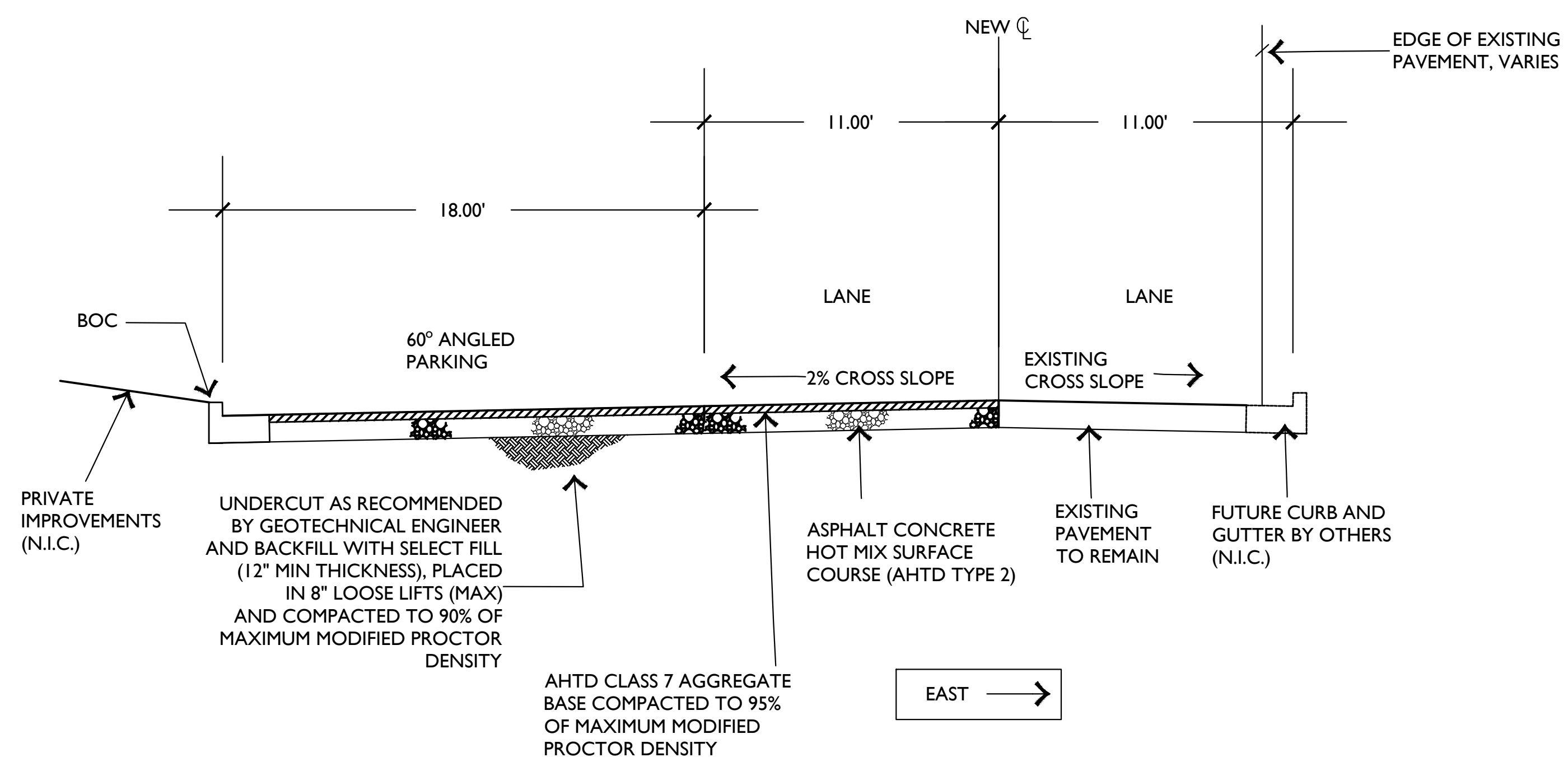


2 FIFTH STREET - TYPICAL SECTION  
 SCALE: N.T.S.

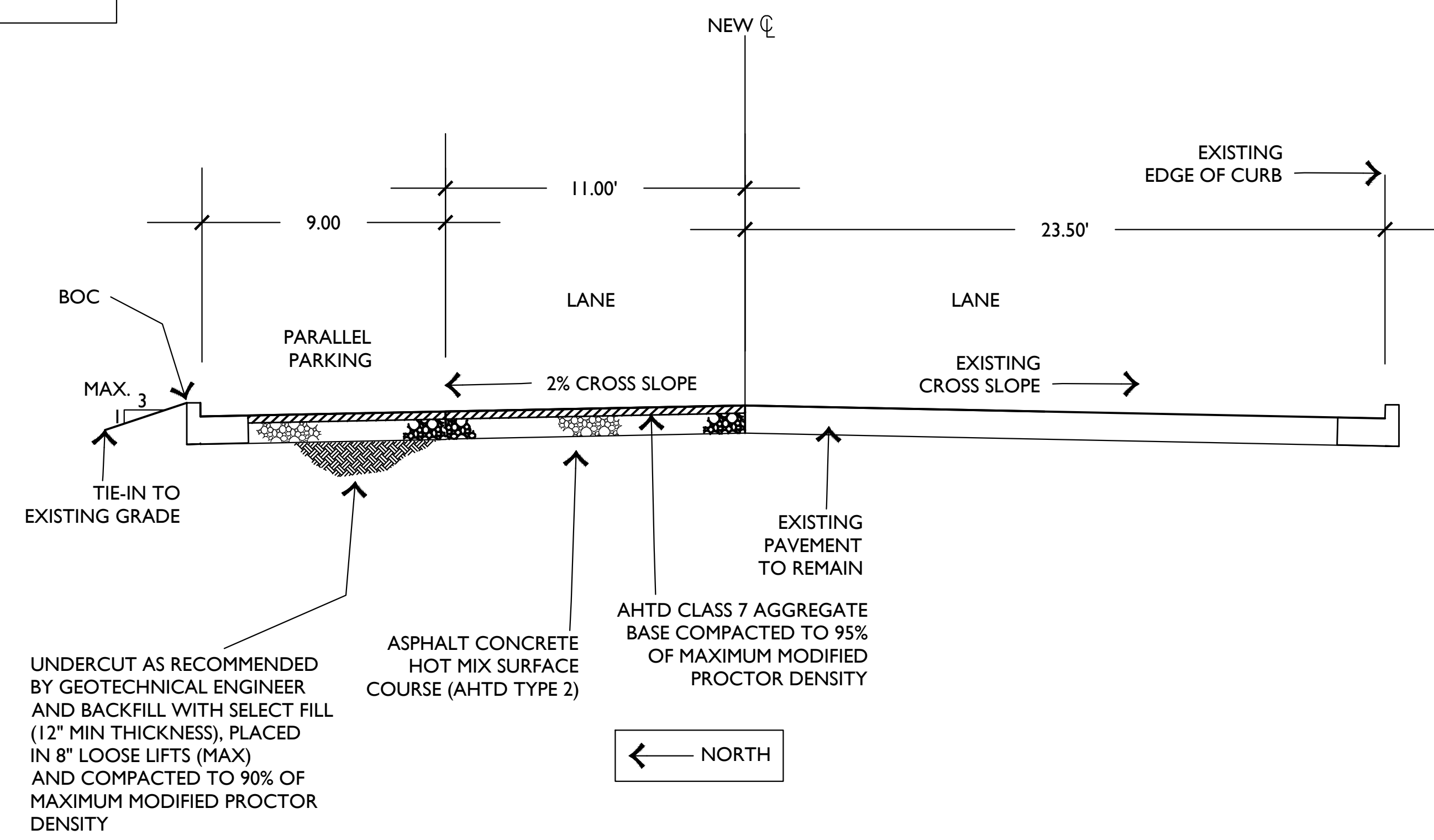


2 POPLAR STREET - TYPICAL SECTION  
 SCALE: N.T.S.

**NOTE:**  
 1) SUBGRADE SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING SUBGRADE AND PAVEMENT.



2 MAGNOLIA STREET - TYPICAL SECTION  
 SCALE: N.T.S.



2 FOURTH STREET - TYPICAL SECTION  
 SCALE: N.T.S.



CONSTRUCTION PLANS

SHEET TITLE
STREET CROSS SECTIONS
ISSUE DATE
6-16-17
SHEET NO.
C7.03

