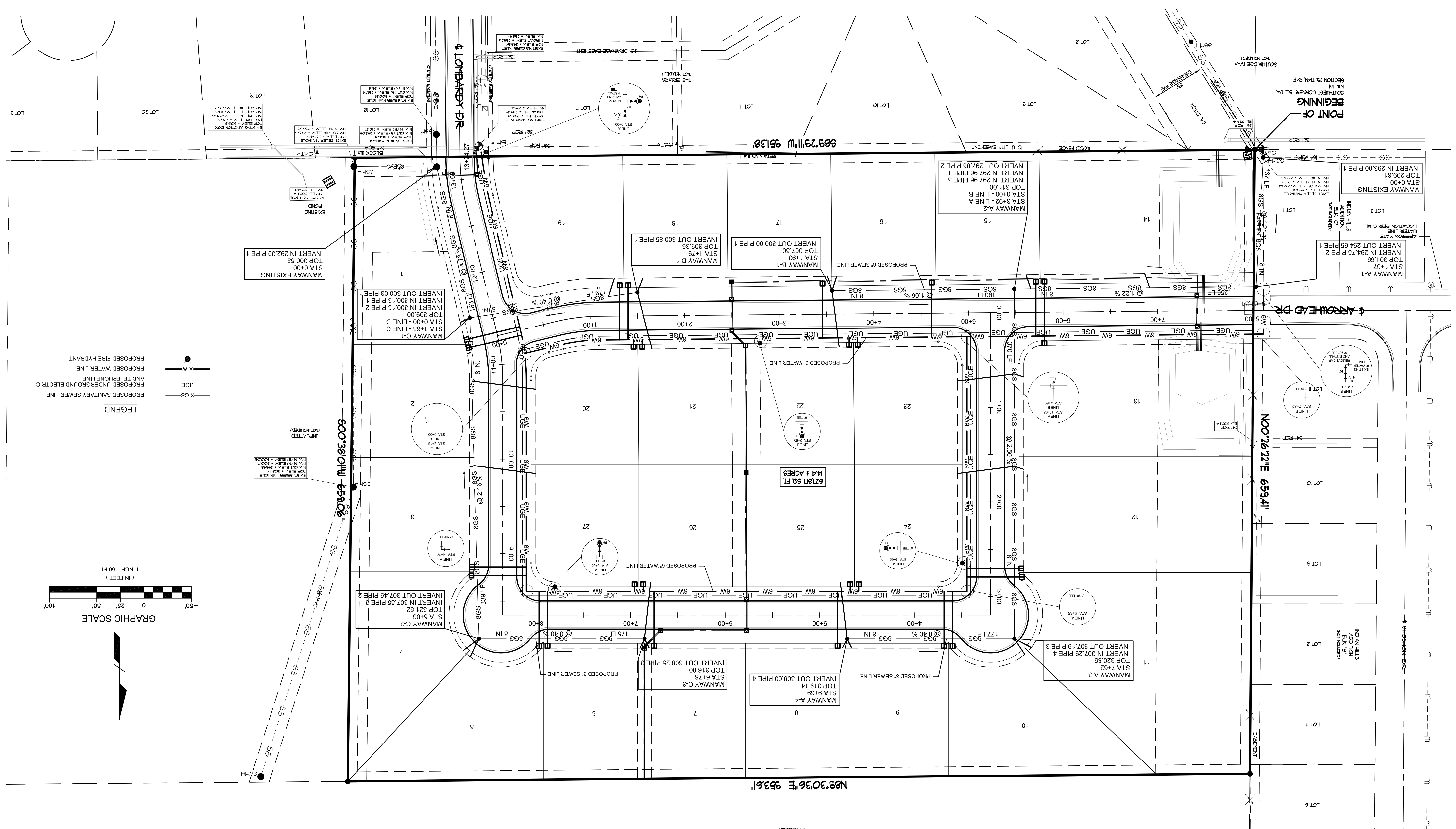


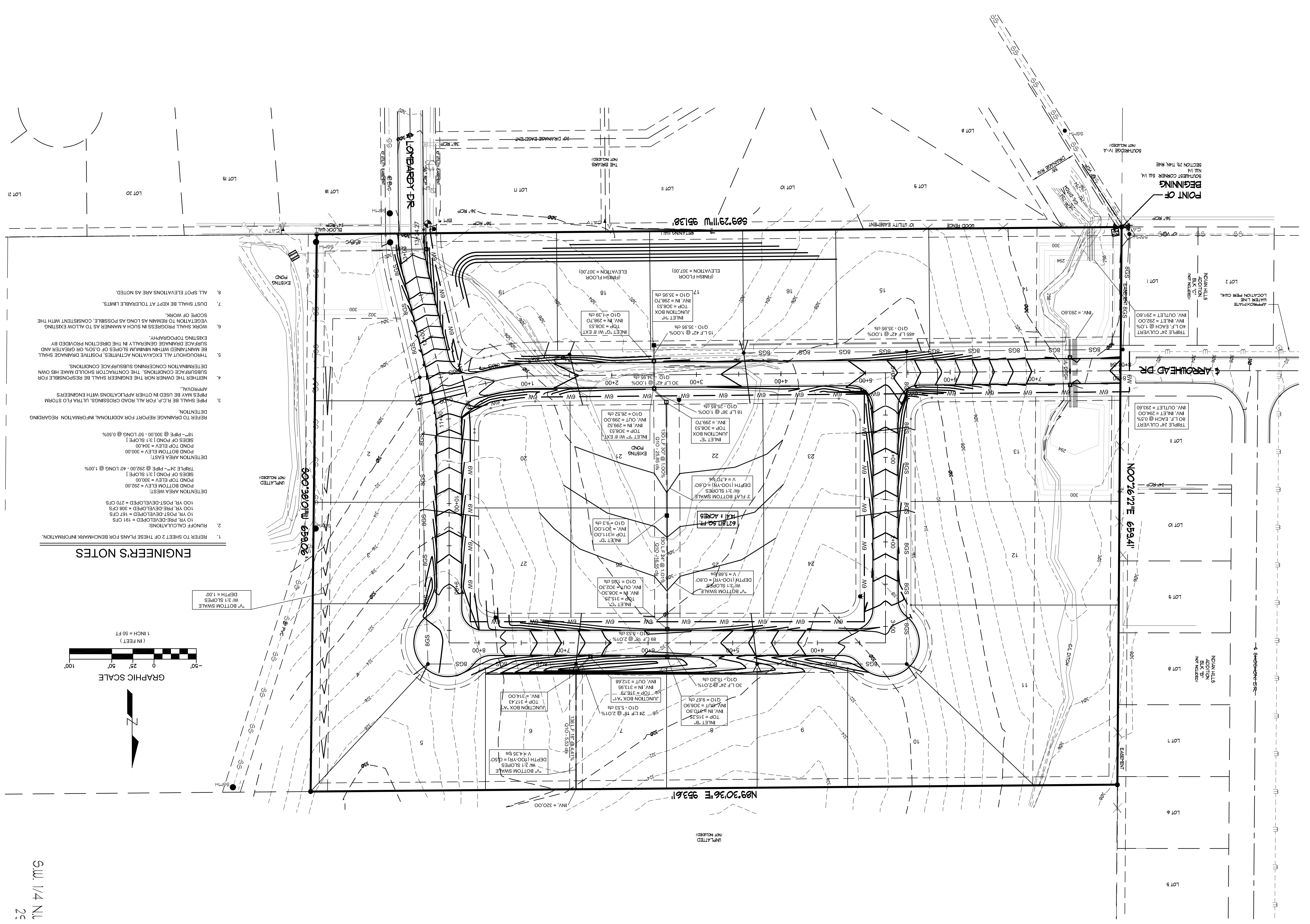
REV	DATE	DESCRIPTION

- GENERAL WATER NOTES:**
- REFER TO SHEET 2 OF THESE PLANS FOR BENCHMARK INFORMATION.
 - 2.035 LF OF 6" AWWA C-900 PRESSURE CLASS 150/D18 WATER LINE.
 - ALL WATER LINES SHALL BE 7" C-900 WITH 42" MIN COVER. VALVES, CONNECTIONS AND RELATED APPURTENANCES SHALL BE IN ACCORDANCE WITH NFPA STANDARDS, CITY OF JONESBORO UTILITIES SPECIFICATIONS AS WELL AS CITY WATER & LIGHT AND INSTALLED WITH RECOMMENDED BEDDING AND THRUST BLOCKING.
 - WATER PRESSURE - XX PSI
 - CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE OWNER'S REPRESENTATIVE.
 - THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
 - PROTECTION IS INCLUDED IN THE BASE BID.
 - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD UTILITIES AND STRUCTURES FROM DAMAGE DURING CONSTRUCTION. THE COSTS OF SUCH PROTECTION ARE INCLUDED IN THE BASE BID.
 - CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE OWNER'S REPRESENTATIVE.
 - THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
 - WATER AND SEWER LINES SHALL MAINTAIN 10 FEET HORIZONTAL SEPARATION.
 - THE SITE SHALL BE CONSTRUCTED TO SUBGRADE AND ALL PROPOSED FILLS SHALL BE MADE AND COMPACTED PRIOR TO CONSTRUCTION OF UTILITIES.
 - LOCATION OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD UTILITIES AND STRUCTURES FROM DAMAGE DURING CONSTRUCTION. THE COSTS OF SUCH PROTECTION ARE INCLUDED IN THE BASE BID.
 - PIPE DISTANCES SHOWN ARE TO CENTER OF STRUCTURES.
 - THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
 - CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE OWNER'S REPRESENTATIVE.
 - WATER LINES AND STORM SEWER CROSSINGS SHALL MAINTAIN 36" MIN. SEPARATION IN ALL DIRECTIONS. SANITARY SEWER LINES SHALL BE A MINIMUM OF 10' FROM PERMANENT STRUCTURES.
 - WATER LINES AND STORM SEWER CROSSINGS SHALL MAINTAIN 36" MIN. SEPARATION IN ALL DIRECTIONS. SANITARY SEWER LINES SHALL BE A MINIMUM OF 10' FROM PERMANENT STRUCTURES.
 - WHERE SEWER LINES PASS WITHIN 2 FT. VERTICALLY OF WATER LINES, THE SEWER LINE SHALL BE ENCASED IN WATER TIGHT PIPE (SEE PART XIV.A OF ADH RULES AND REGULATIONS PERTAINING TO PWS).
 - CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE OWNER'S REPRESENTATIVE.
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 - MIN. COVER AND INSTALLED WITH RECOMMENDED BEDDING.
 - ALL 8" SANITARY SEWER LINES SHALL BE ASTM D3034 SDR-35 UNLESS OTHERWISE SPECIFIED WITH 30" EXCAVATE AND VERIFY ALL UTILITY CROSSINGS AND INFORM THE OWNER'S REPRESENTATIVE OF ANY CONFLICT OR REQUIRED DEVIATION FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
 - REFER TO SHEET 2 OF THESE PLANS FOR BENCHMARK INFORMATION.

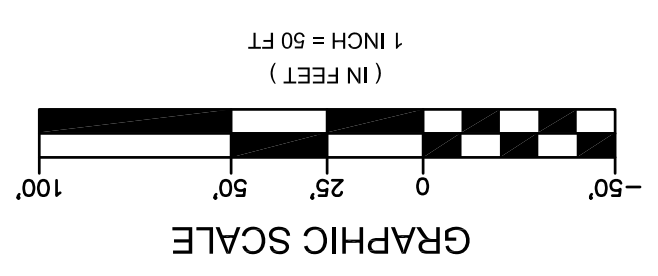
- GENERAL SANITARY SEWER NOTES:**
- REFER TO SHEET 2 OF THESE PLANS FOR BENCHMARK INFORMATION.
 - ALL 8" SANITARY SEWER LINES SHALL BE ASTM D3034 SDR-35 UNLESS OTHERWISE SPECIFIED WITH 30" MIN. COVER AND INSTALLED WITH RECOMMENDED BEDDING.
 - ANY CONFLICT OR REQUIRED DEVIATION FROM THE PLAN, NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
 - CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE OWNER'S REPRESENTATIVE.
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 - REFER TO SHEET 2 OF THESE PLANS FOR BENCHMARK INFORMATION.



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- ENGINEER'S NOTES**
1. REFER TO SHEET 2 OF THESE PLANS FOR BENCHMARK INFORMATION.
 2. RUNOFF CALCULATIONS:
10 YR. PRE-DEVELOPED = 191 CFS
100 YR. POST-DEVELOPED = 270 CFS
100 YR. PRE-DEVELOPED = 308 CFS
FOND TOP ELEV = 300.00
FOND BOTTOM ELEV = 292.00
SIDES OF FOND @ 3:1 SLOPE
TRIPLE 24" PIPE @ 292.00 - 40' LONG @ 1.00%
DETENTION AREA WEST:
FOND TOP ELEV = 300.00
FOND BOTTOM ELEV = 292.00
SIDES OF FOND @ 3:1 SLOPE
TRIPLE 24" PIPE @ 292.00 - 40' LONG @ 1.00%
18" PIPE @ 300.00 - 50' LONG @ 0.50%
REFER TO DRAINAGE REPORT FOR ADDITIONAL INFORMATION REGARDING DETENTION.
 3. PIPE SHALL BE R.C.P. FOR ALL ROAD CROSSINGS. ULTRA FLO STORM PIPES MAY BE USED IN OTHER APPLICATIONS WITH ENGINEERS APPROVAL.
 4. NEITHER THE OWNER NOR THE ENGINEER SHALL BE RESPONSIBLE FOR SUBSURFACE CONDITIONS. THE CONTRACTOR SHOULD MAKE HIS OWN DETERMINATION CONCERNING SUBSURFACE CONDITIONS.
 5. THROUGHOUT ALL EXCAVATION ACTIVITIES, POSITIVE DRAINAGE SHALL BE MAINTAINED WITHIN MINIMUM SLOPES OF 0.50% OR GREATER AND SURFACE DRAINAGE GENERALLY IN THE DIRECTION PROVIDED BY EXISTING TOPOGRAPHY.
 6. WORK SHALL PROGRESS IN SUCH A MANNER AS TO ALLOW EXISTING VEGETATION TO REMAIN AS LONG AS POSSIBLE, CONSISTENT WITH THE SCOPE OF WORK.
 7. DUST SHALL BE KEPT AT TOLERABLE LIMITS.
 8. ALL SPOT ELEVATIONS ARE AS NOTED.

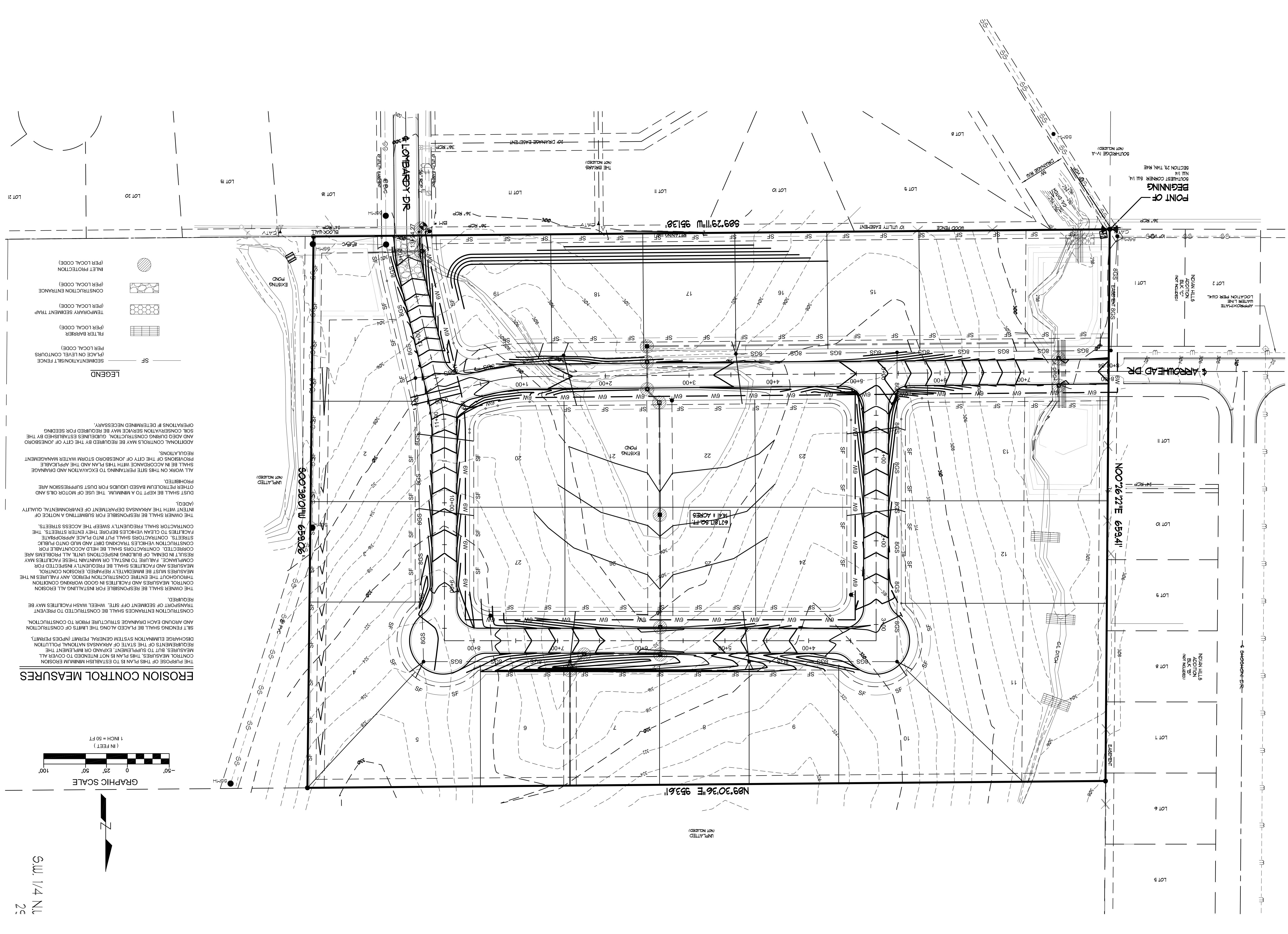


S.W. 1/4 NL
2c

**SITE DEVELOPMENT PLANS
BRARRS 2ND ADDITION
JONESBORO, ARKANSAS**

KELLY PANNECK, P.E.
1205 LINWOOD
PARAGOULD, ARKANSAS 72450
PHONE: 870-565-3030 E-MAIL ADDRESS: kellypanneck@gmail.com

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EROSION CONTROL MEASURES

THE PURPOSE OF THIS PLAN IS TO ESTABLISH MINIMUM EROSION CONTROL MEASURES. THIS PLAN IS NOT INTENDED TO COVER ALL REQUIREMENTS OF THE STATE OF ARKANSAS NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT), AND AROUND EACH DRAINAGE STRUCTURE PRIOR TO CONSTRUCTION, SILT FENCING SHALL BE PLACED ALONG THE LIMITS OF CONSTRUCTION, CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED TO PREVENT TRANSPORT OF SEDIMENT OFF SITE. WHEEL WASH FACILITIES MAY BE REQUIRED.

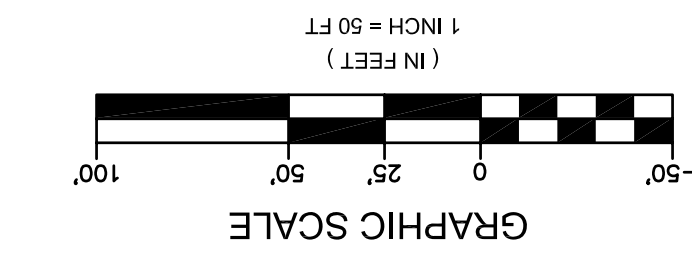
THE OWNER SHALL BE RESPONSIBLE FOR INSTALLING ALL EROSION CONTROL MEASURES AND FACILITIES IN GOOD WORKING CONDITION THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. ANY FAILURE IN THE MEASURES MUST BE IMMEDIATELY REPAIRED. EROSION CONTROL COMPLIANCE, FAILURE TO INSTALL OR MAINTAIN THESE FACILITIES MAY RESULT IN DENIAL OF BUILDING INSPECTIONS UNTIL ALL PROBLEMS ARE CORRECTED. CONTRACTORS SHALL BE HELD ACCOUNTABLE FOR CONSTRUCTION VEHICLES TRACKING DIRT AND MUD ONTO PUBLIC STREETS. CONTRACTORS SHALL PUT INTO PLACE APPROPRIATE FACILITIES TO CLEAN VEHICLES BEFORE THE ACCESS STREETS. THE CONTRACTOR SHALL FREQUENTLY SWEEP THE ACCESS STREETS.

THE OWNER SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF INTEREST WITH THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ).

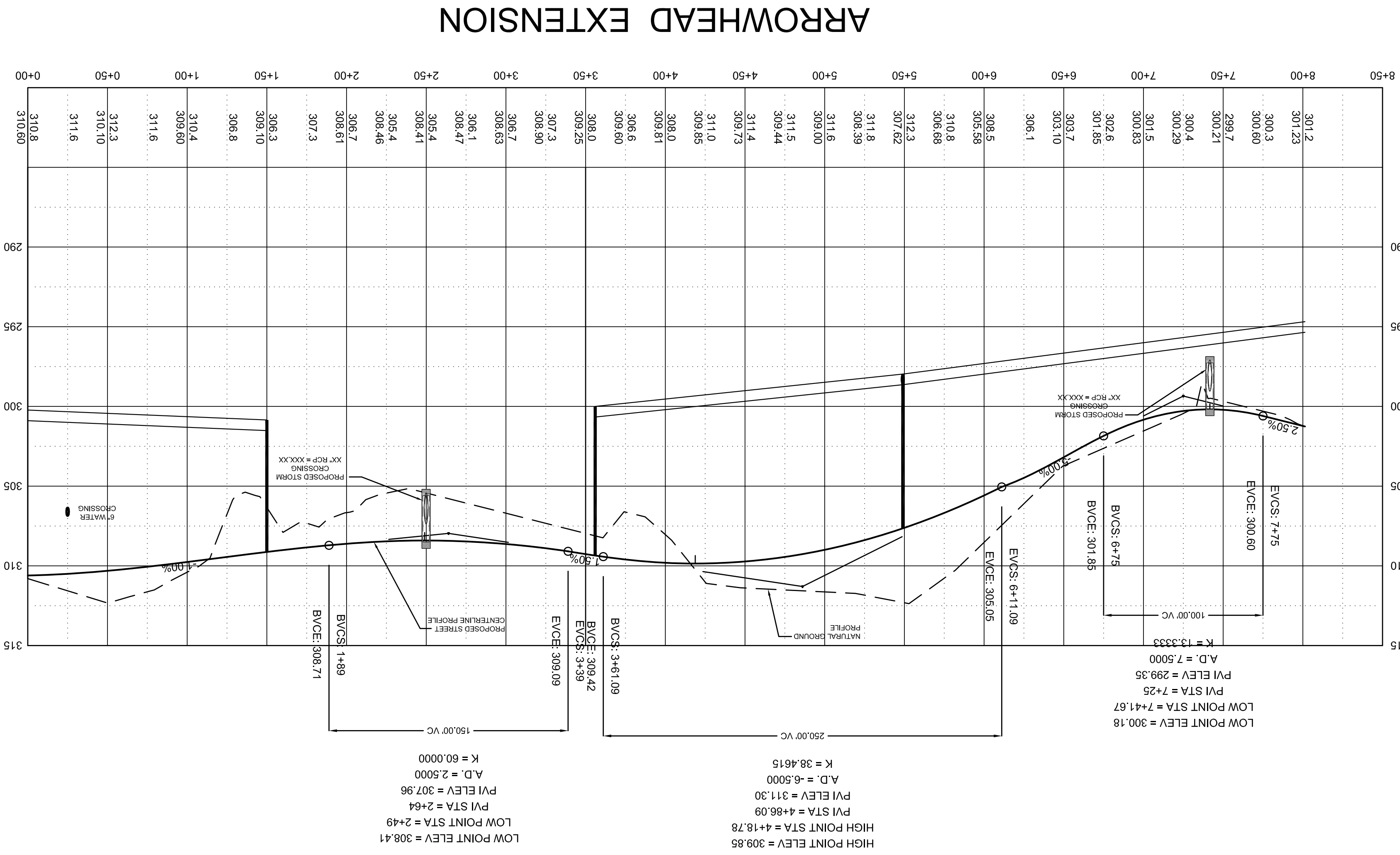
OTHER PETROLEUM BASED LIQUIDS FOR DUST SUPPRESSION ARE PROHIBITED.

ALL WORK ON THIS SITE PERTAINING TO EXCAVATION AND DRAINAGE PROVISIONS OF THE CITY OF JONESBORO STORM WATER MANAGEMENT REGULATIONS.

ADDITIONAL CONTROLS MAY BE REQUIRED BY THE CITY OF JONESBORO AND ADEQ DURING CONSTRUCTION. GUIDELINES ESTABLISHED BY THE SOIL CONSERVATION SERVICE MAY BE REQUIRED FOR SEEDING OPERATIONS IF DETERMINED NECESSARY.

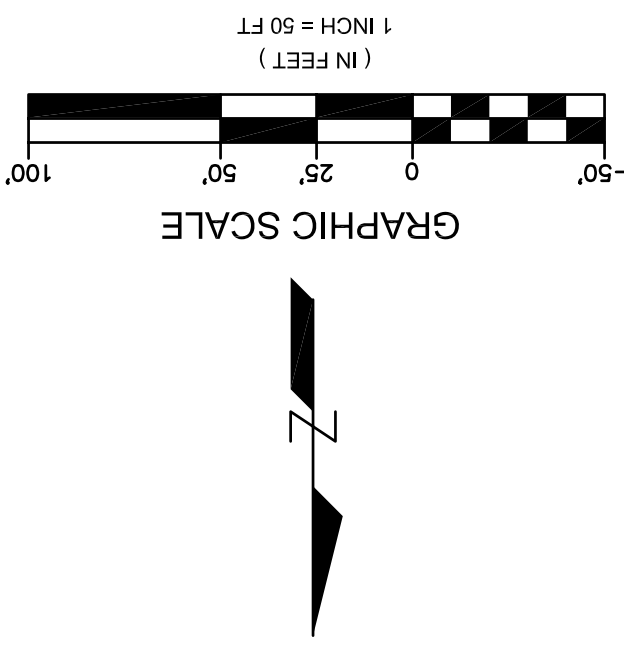
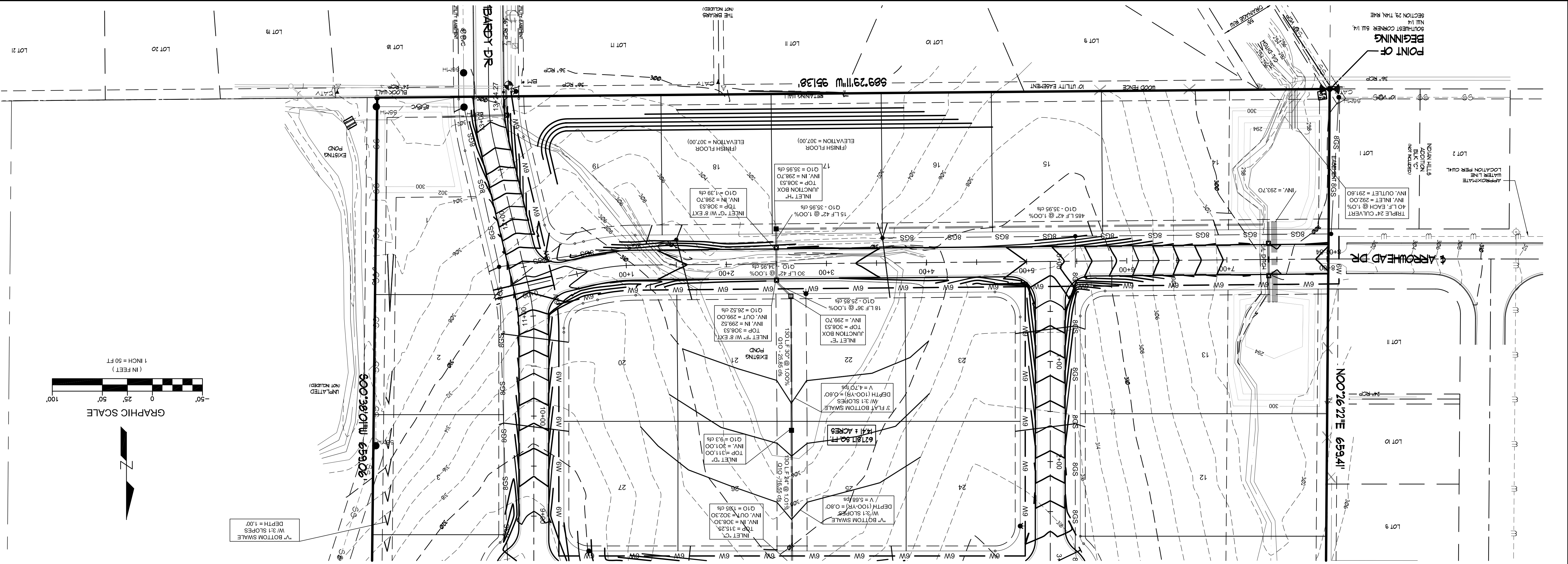


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ARROWHEAD EXTENSION

SCALE: 1" = 50' (HORIZONTAL)
1" = 5' (VERTICAL)



C-7
ROADWAY P&P

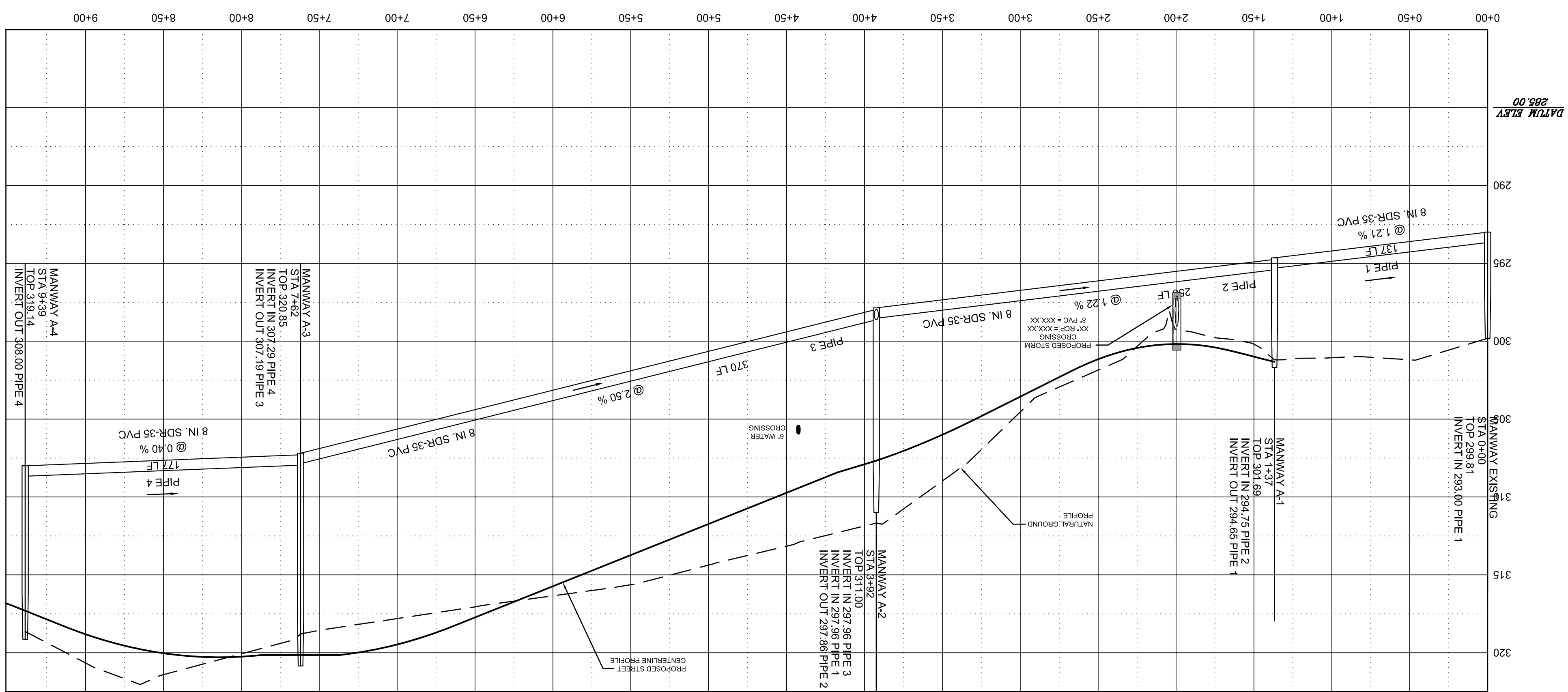
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BRIARS 2ND SPP.DWG

SITE DEVELOPMENT PLANS
BRIARS 2ND ADDITION
JONESBORO, ARKANSAS

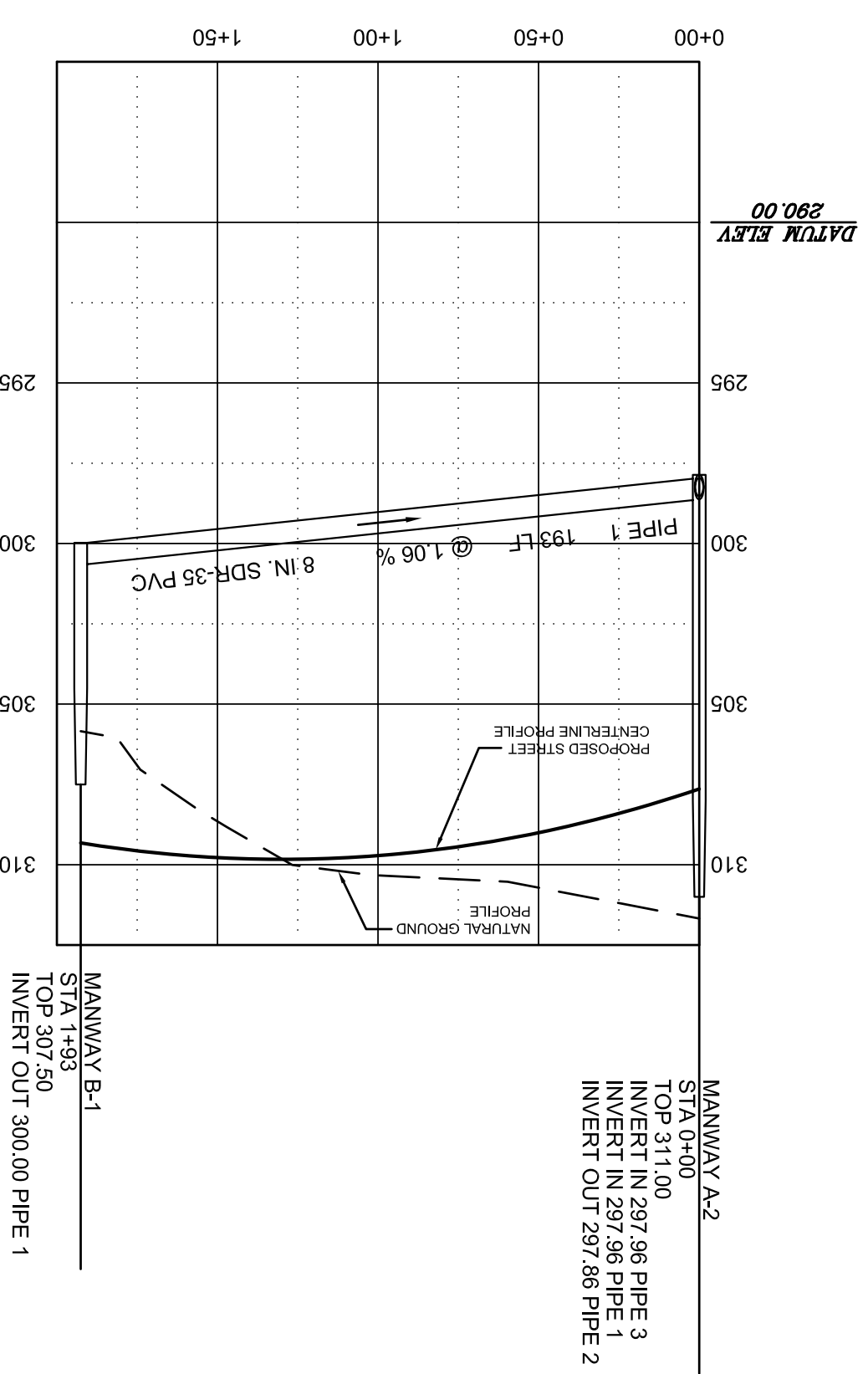
KELLY PANNECK, P.E.
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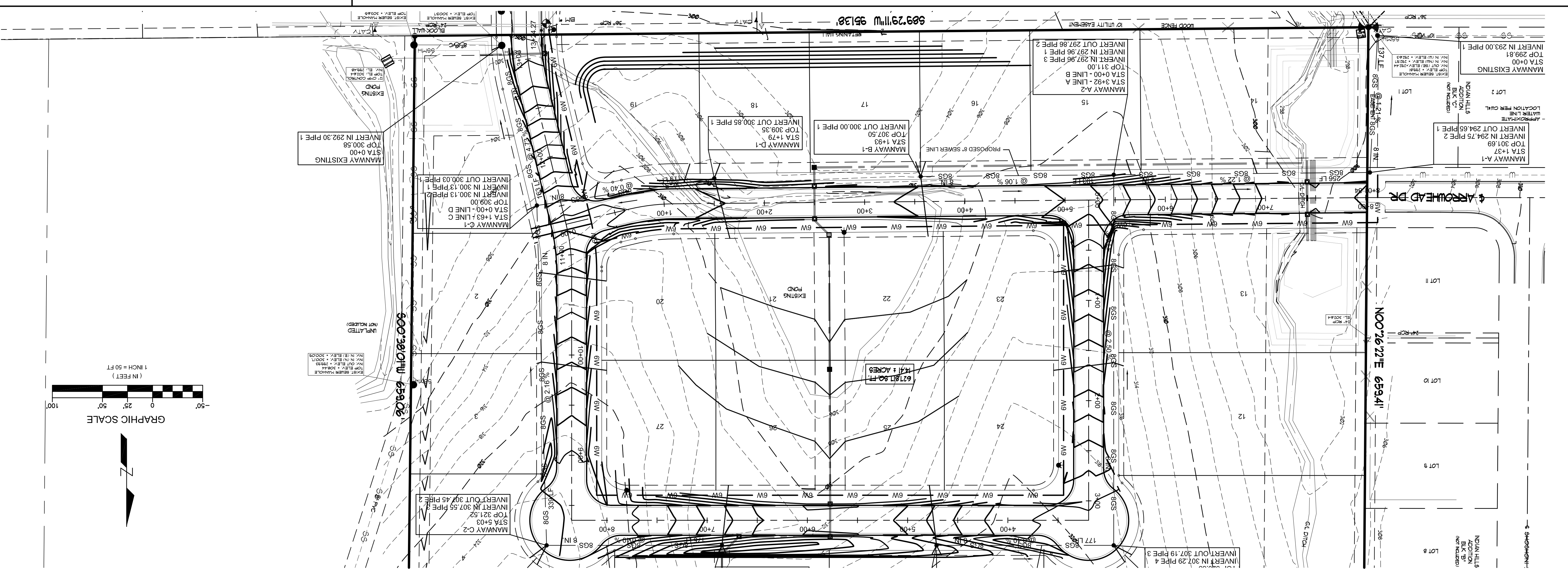
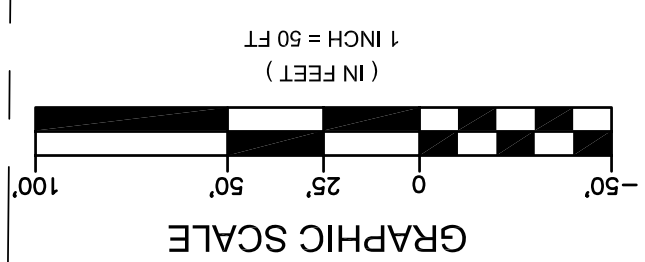
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**SITE DEVELOPMENT PLANS
BRARRS 2ND ADDITION
JONESBORO, ARKANSAS**

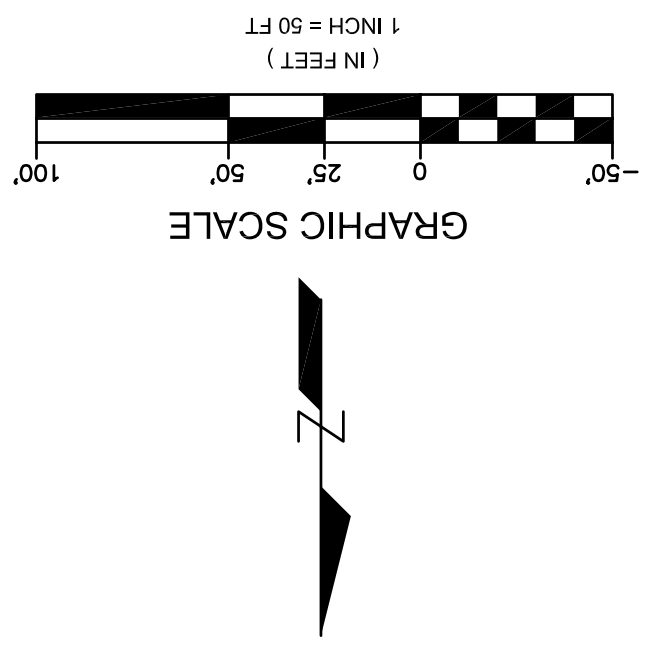
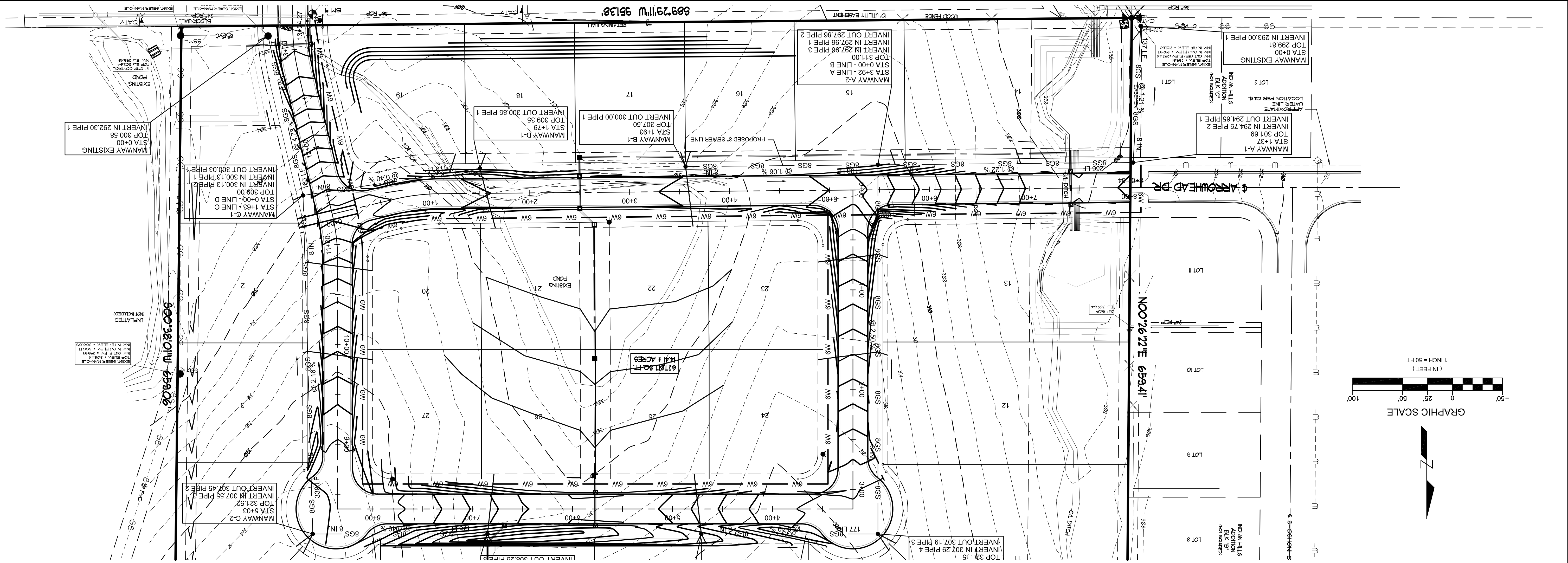
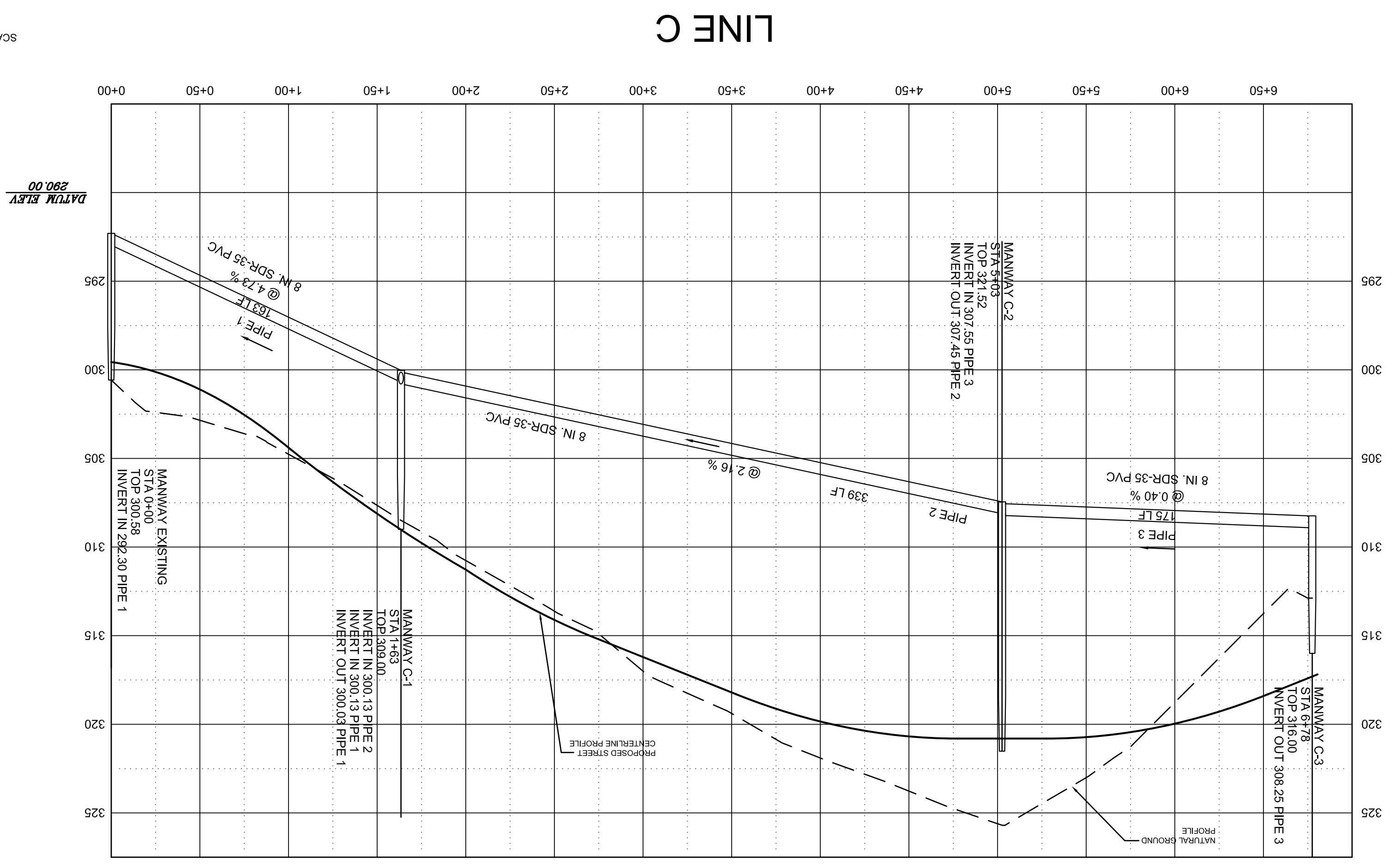
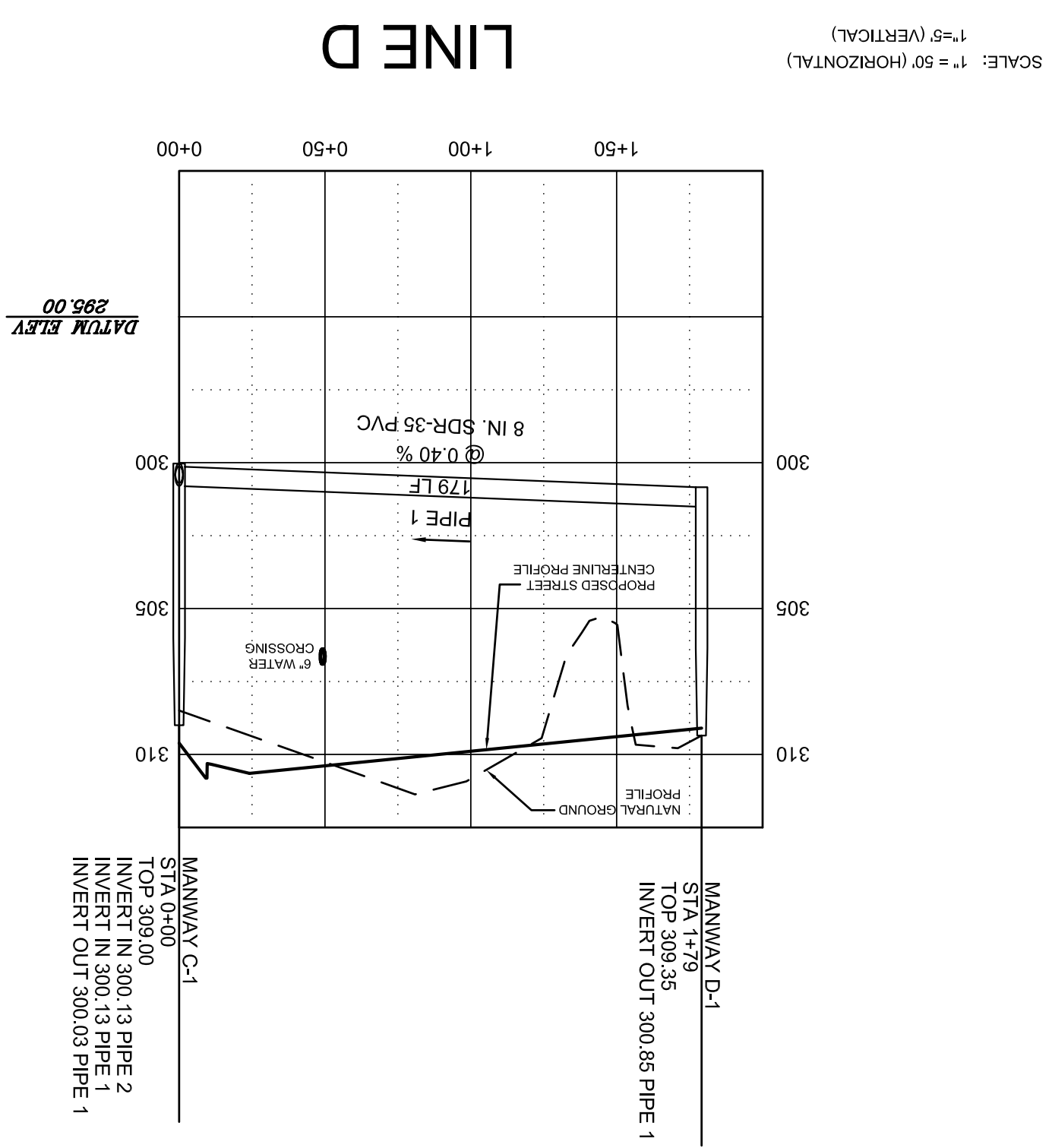
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C-9

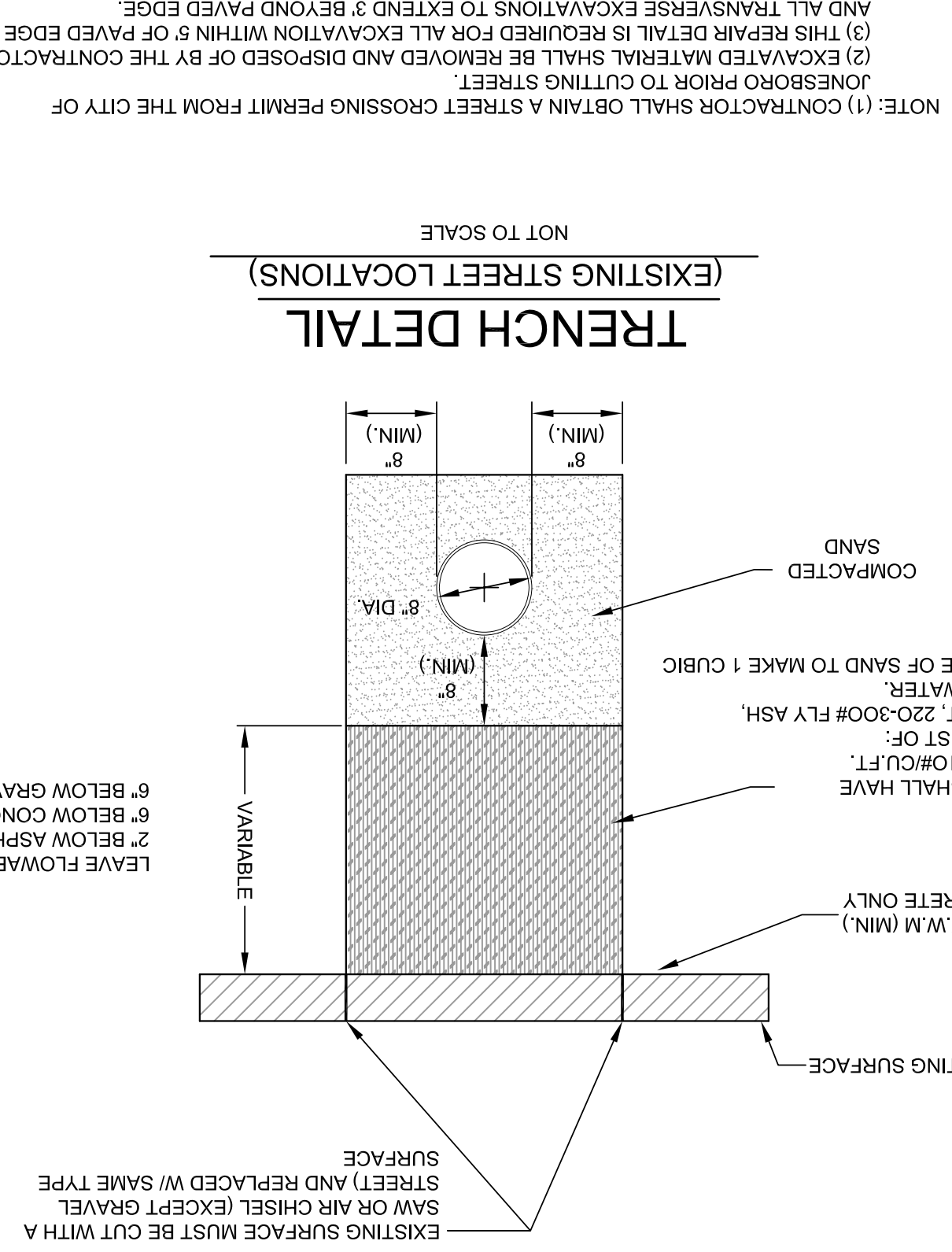
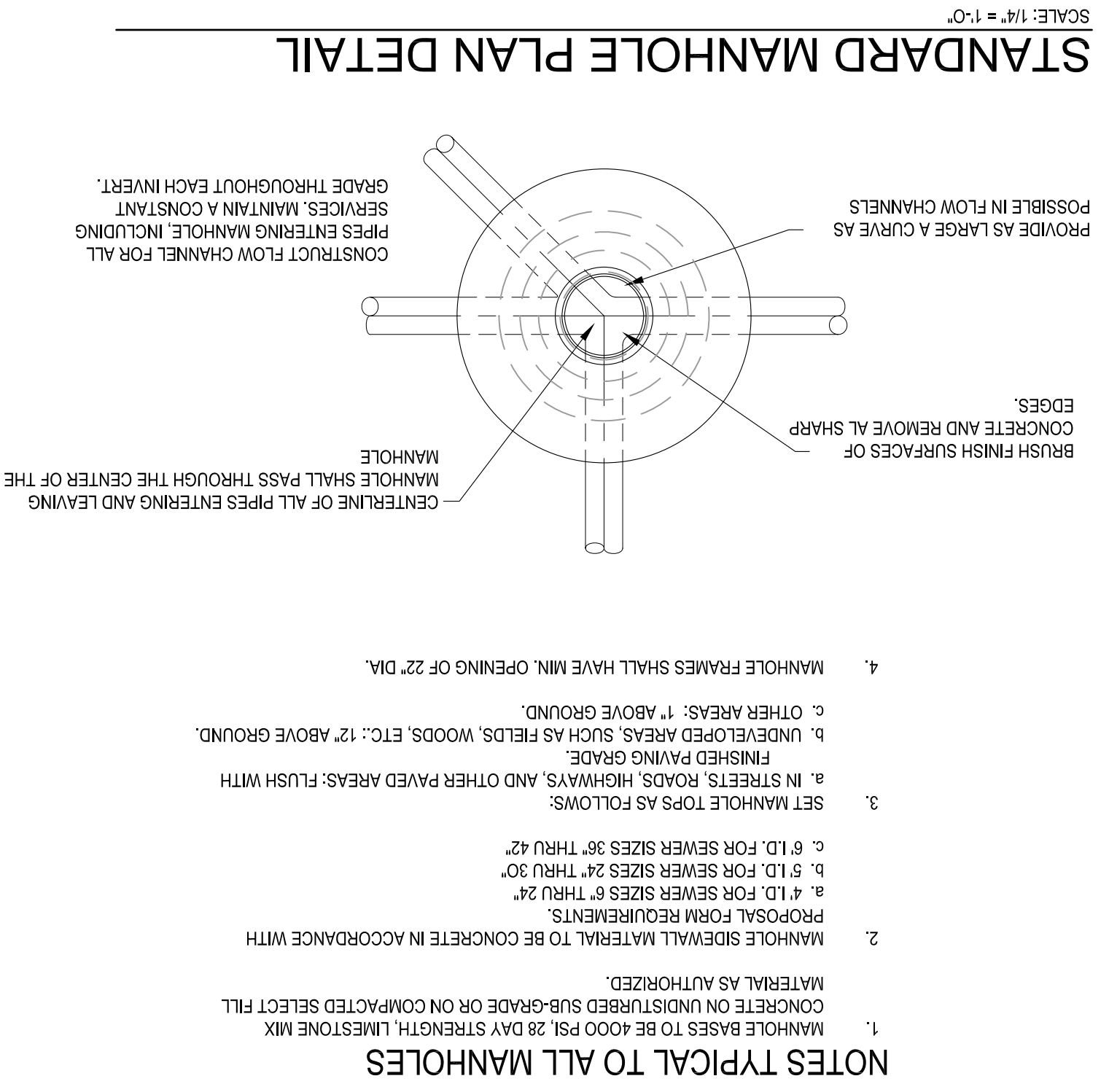
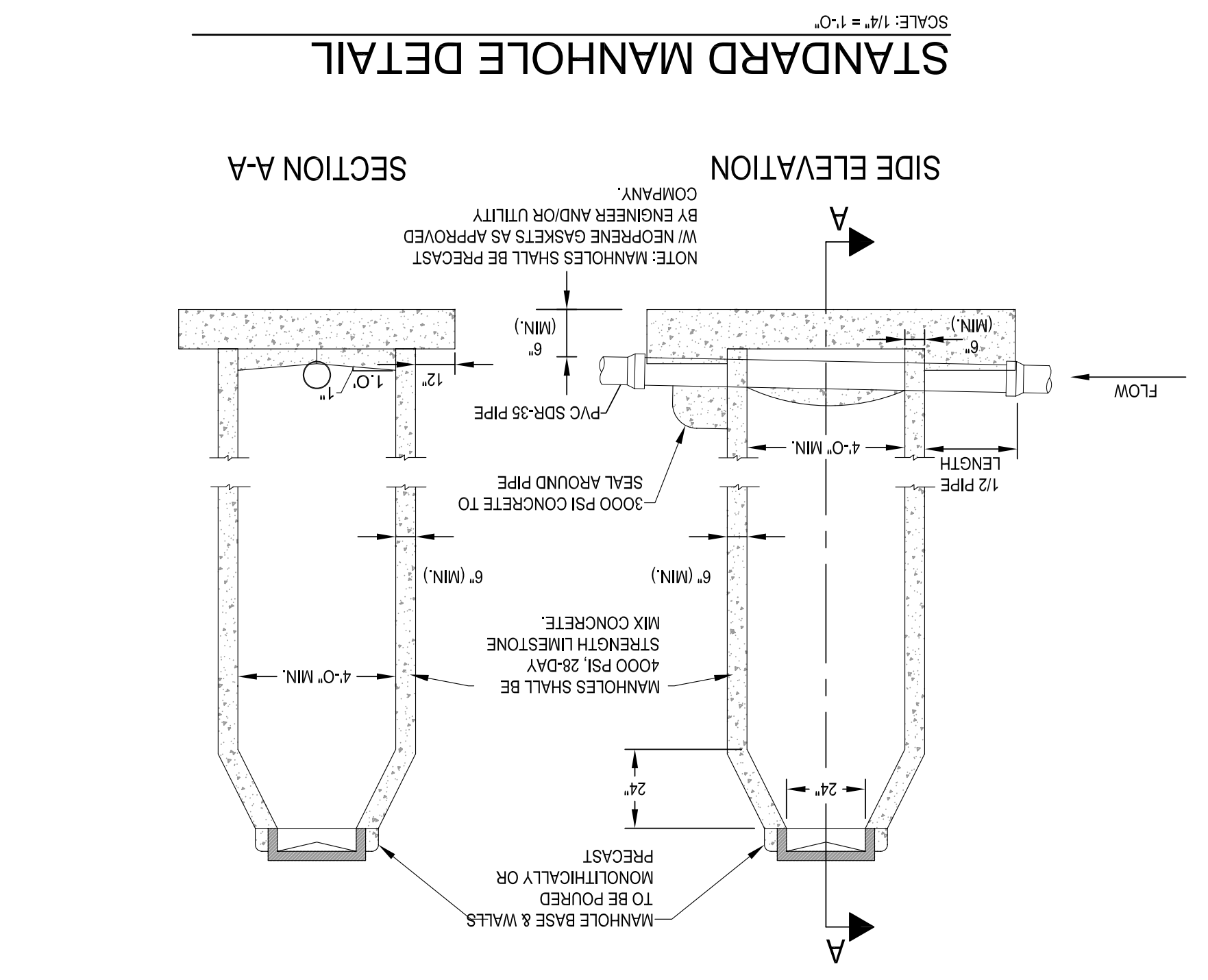
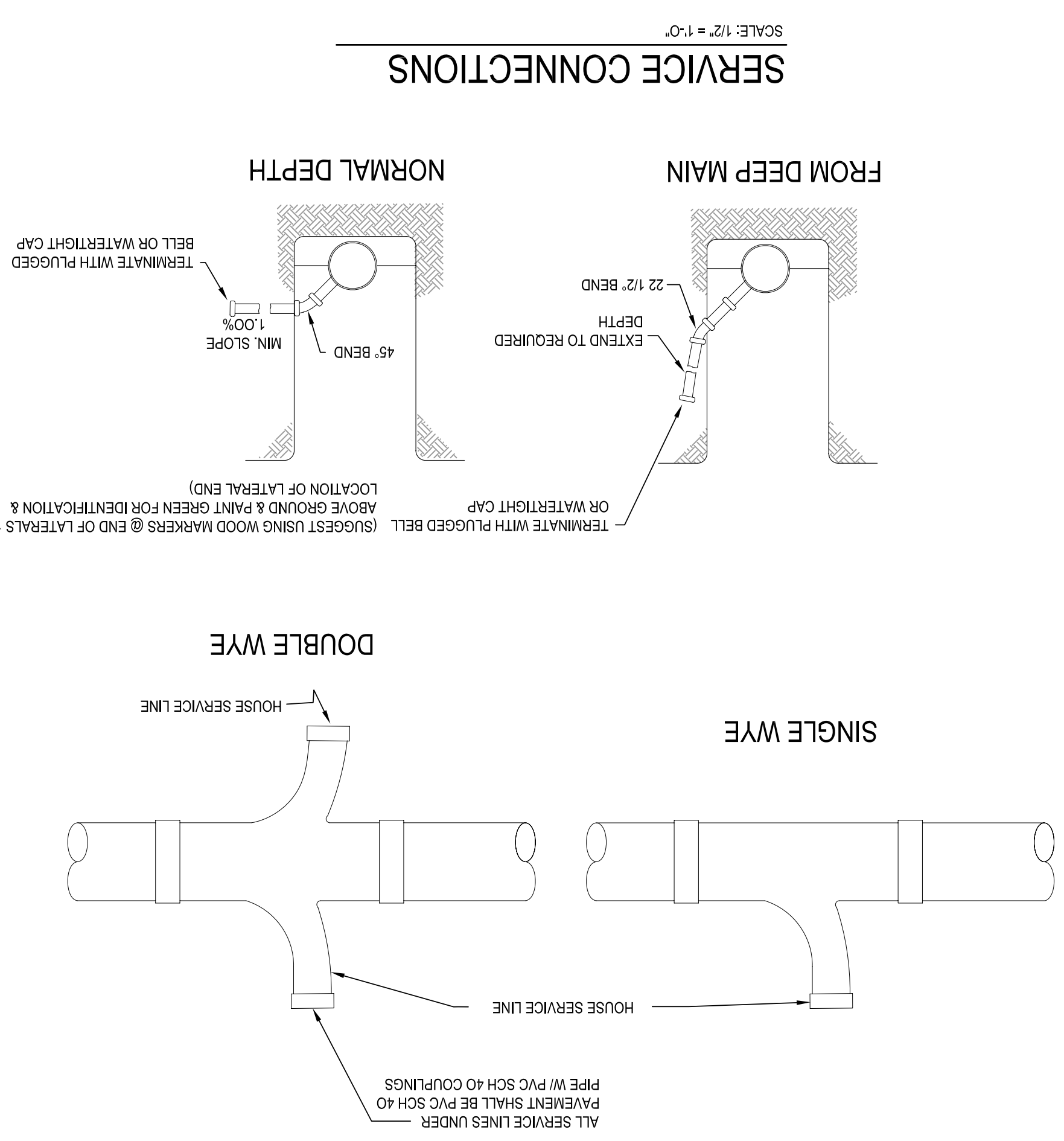
SANITARY SEWER P&P



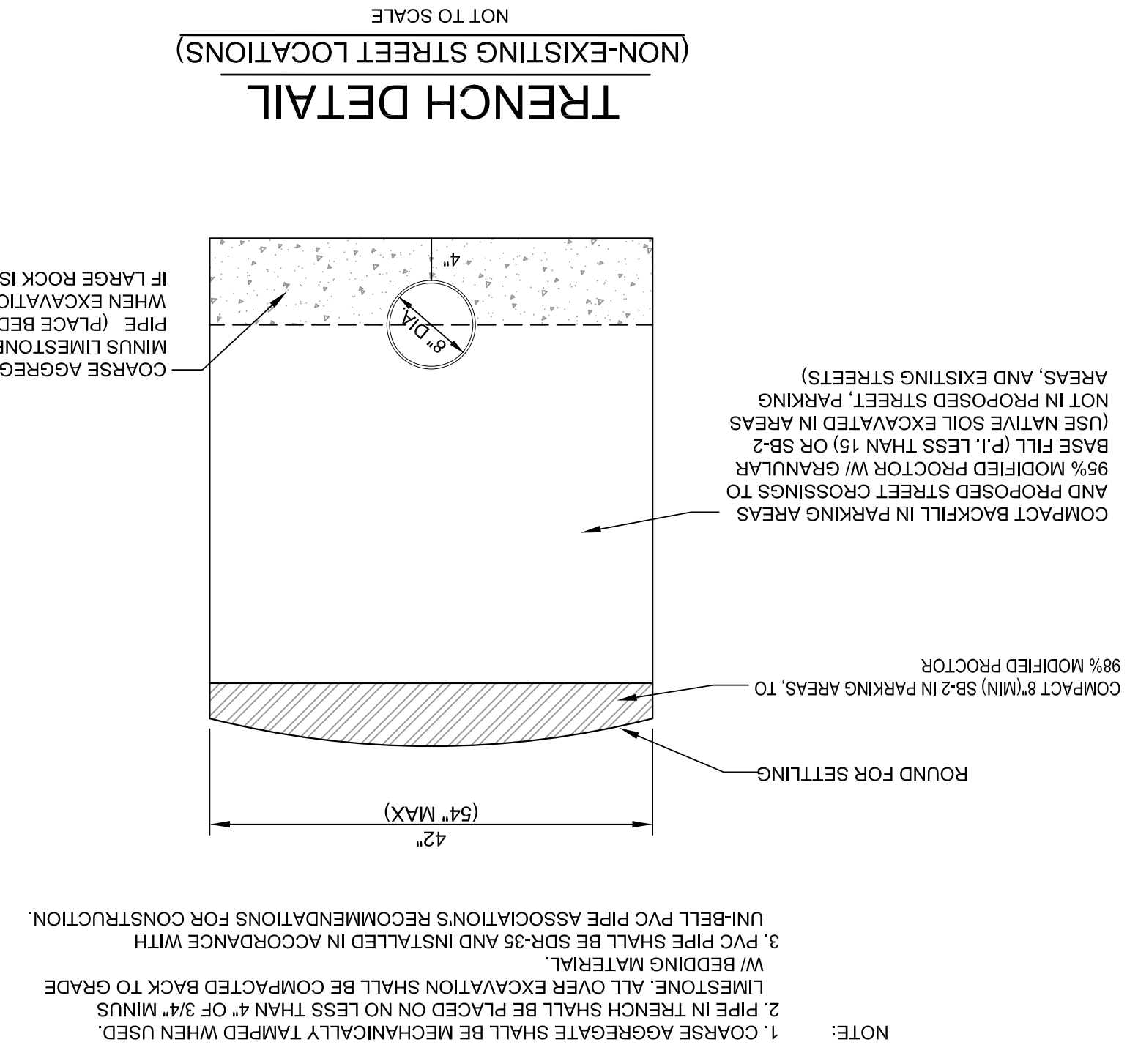
C-10
SANITARY SEWER POP
SITE DEVELOPMENT PLANS
BRIARS 2ND ADDITION
JONESBORO, ARKANSAS

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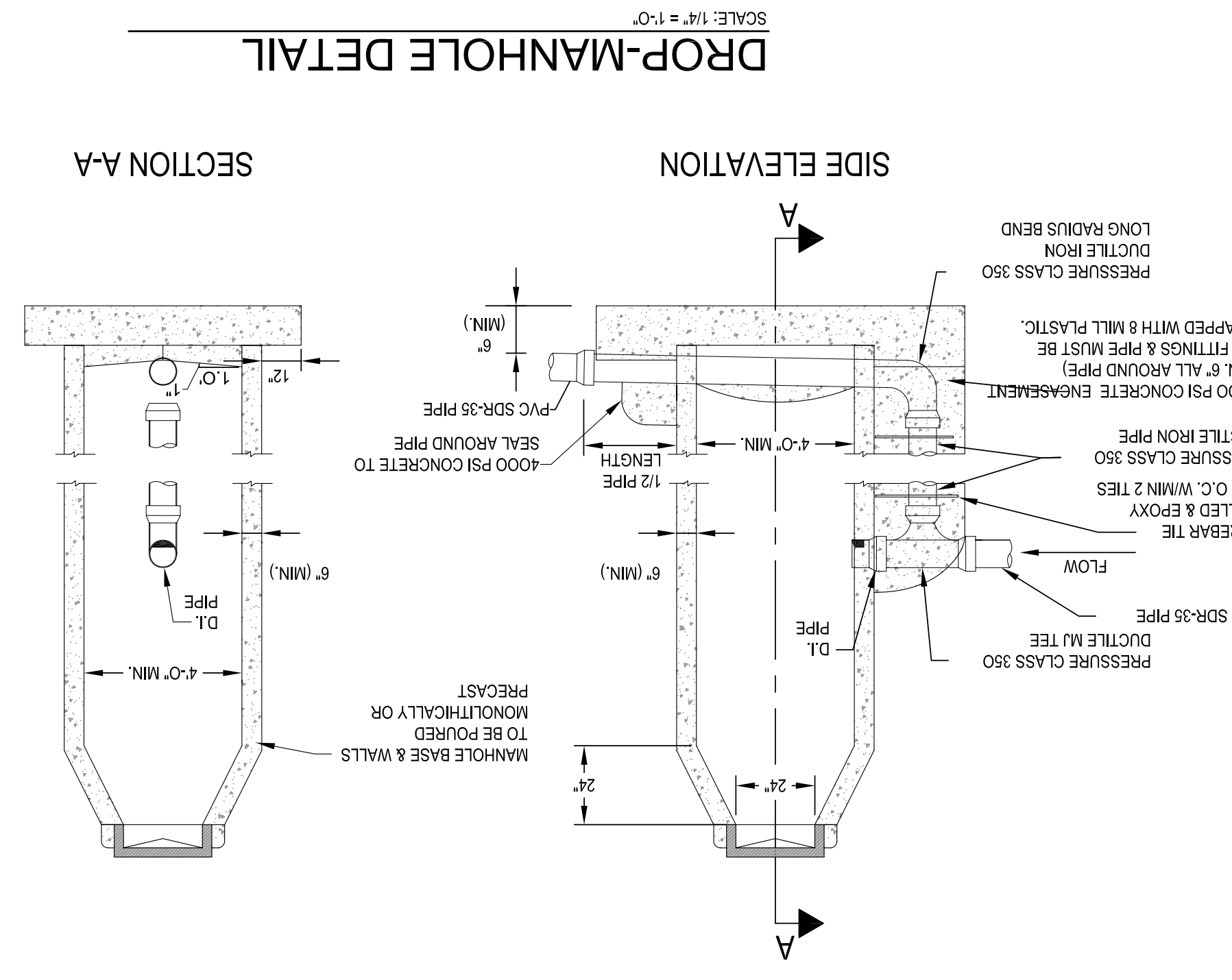
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NOTE: (1) CONTRACTOR SHALL OBTAIN A STREET CROSSING PERMIT FROM THE CITY OF JONESBORO PRIOR TO CUTTING STREET.
(2) EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR
(3) THIS REPAIR DETAIL IS REQUIRED FOR ALL EXCAVATION WITHIN 5' OF PAVED EDGE AND ALL TRANSVERSE EXCAVATIONS TO EXTEND 3' BEYOND PAVED EDGE.



NOTE:
1. COARSE AGGREGATE SHALL BE MECHANICALLY TAMPED WHEN USED.
2. PIPE IN TRENCH SHALL BE PLACED ON NO LESS THAN 4" OF 3/4" MINUS LIMESTONE. ALL OVER EXCAVATION SHALL BE COMPACTED BACK TO GRADE W/ BEDDING MATERIAL.
3. PVC PIPE SHALL BE SDR-35 AND INSTALLED IN ACCORDANCE WITH UN-BELL PVC PIPE ASSOCIATION'S RECOMMENDATIONS FOR CONSTRUCTION.



- NOTES TYPICAL TO ALL MANHOLES**
- MANHOLE BASES TO BE 4000 PSI 28 DAY STRENGTH LIMESTONE MIX CONCRETE ON UNDISTURBED SUB-GRADE OR ON COMPACTED SELECT FILL MATERIAL AS AUTHORIZED.
 - MANHOLE SIDEWALL MATERIAL TO BE CONCRETE IN ACCORDANCE WITH PROPOSED FORM REQUIREMENTS.
a. 4' I.D. FOR SEWER SIZES 6" THRU 24"
b. 5' I.D. FOR SEWER SIZES 24" THRU 30"
c. 6' I.D. FOR SEWER SIZES 36" THRU 42"
 - SET MANHOLE TOPS AS FOLLOWS:
a. IN STREETS, ROADS, HIGHWAYS, AND OTHER PAVED AREAS, FLUSH WITH FINISHED FINING GRADE.
b. UNDEVELOPED AREAS SUCH AS FIELDS, WOODS, ETC.: 12" ABOVE GROUND.
c. OTHER AREAS: 1" ABOVE GROUND.
 - MANHOLE FRAMES SHALL HAVE MIN. OPENING OF 22" DIA.

