

# PROSPECT FARMS SUDIVISION

## PROSPECT FARMS PHASE VI- MAPC PRELIMINARY APPROVAL JONESBORO, CRAIGHEAD COUNTY, ARKANSAS

### LOCAL CONTACTS

CITY OF JONESBORO ENGINEERING DEPT.	870-932-2438
CITY OF JONESBORO PLANNING AND ZONING	870-932-0406
CITY, WATER, & LIGHT	870-935-5581
AT&T	1-800-464-7928
RITTER COMMUNICATIONS	870-336-3400
SUDDENLINK COMMUNICATIONS	870-935-3615
CENTER POINT ENERGY	870-972-6682



VICINITY MAP  
(NOT TO SCALE)



NAD83 Arkansas State Planes, North Zone, US Foot

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PROSPECT FARMS PHASE VI

COVER PAGE



REVISIONS		
DATE	BY	DESCRIPTION

DRAWING INFO.	
DRAWN BY:	GMD
DATE:	10/30/2019
SCALE:	1"=77'

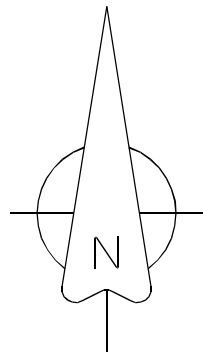
SHEET NUMBER:  
C-1

MARK MORRIS P.E.  
3221 SHELBY DRIVE  
JONESBORO, AR 72404  
PH: 1-870-919-7700  
MARK.B.MORRIS@YAHOO.COM

**MARK MORRIS**



CURVE	DELTA ANGLE	ARC LENGTH	CHORD LENGTH	RADIUS	CHORD BEARING
C1	79°55'17"	278.98'	256.90'	200.00'	S 49°18'36" W
C2	63°56'58"	223.23'	211.82'	200.00'	S 57°17'45" W
C3	17°54'04"	131.72'	131.69'	230.00'	S 11°58'27" W
C4	13°25'51"	53.91'	53.79'	230.00'	S 22°38'25" W
C5	14°05'22"	56.56'	56.42'	230.00'	S 36°24'01" W
C6	13°39'29"	54.83'	54.70'	230.00'	S 50°18'27" W
C7	13°30'46"	54.24'	54.12'	230.00'	S 63°51'34" W
C8	13°36'32"	54.63'	54.50'	230.00'	S 77°25'13" W
C9	15°07'45"	20.26'	20.25'	230.00'	S 88°44'52" W
C10	13°25'51"	85.33'	85.13'	364.00'	S 22°38'25" W
C11	14°05'22"	89.51'	89.29'	364.00'	S 36°24'01" W
C12	13°39'29"	89.77'	89.56'	364.00'	S 50°18'27" W
C13	13°30'46"	85.89'	85.69'	364.00'	S 63°51'34" W
C14	13°36'32"	86.46'	86.25'	364.00'	S 77°25'13" W
C15	15°07'45"	32.09'	32.08'	364.00'	S 88°44'52" W
C16	73°20'45"	465.97'	434.80'	364.00'	S 52°35'52" W
C17	78°07'08"	231.78'	214.24'	170.00'	S 50°12'40" W
C18	63°56'58"	189.74'	180.09'	170.00'	S 57°17'45" W
C19	2°38'44"	10.62'	10.62'	230.00'	N 26°38'39" E
C20	15°43'50"	63.15'	62.95'	230.00'	N 35°49'56" E
C21	13°30'46"	54.24'	54.12'	230.00'	N 50°7'14" E
C22	13°30'46"	54.24'	54.12'	230.00'	N 63°57'59" E
C23	13°30'46"	54.24'	54.12'	230.00'	N 77°28'49" E
C24	5°02'06"	20.21'	20.21'	230.00'	N 86°48'11" E
C25	9°17'26"	55.12'	55.06'	339.86'	N 41°28'24" W
C26	93°05'23"	40.68'	36.39'	25.04'	N 75°49'02" E
C27	11°29'08"	94.22'	94.06'	470.00'	S 51°51'18" E



- LEGEND
- These standard symbols will be found in the drawing.
- FOUND CORNER AS NOTED
  - SET 1/2" REBAR W/ CAP
  - ⦿ FD COTTON PICKER SPINDLE
  - ▲ HIGHWAY RIGHT OF WAY MARKER
  - ⊙ FOUND REBAR
  - △ CALCULATED CORNER
  - X—X— FENCE LINE
  - E—E— ELECTRIC
  - ⊙ SET PK NAIL
  - ⊕ POWER POLE
  - [5000] - DENOTES ADDRESSES

SURVEYORS NOTES:

- BEARINGS ARE STATE PLANE GRID BEARINGS(NAD 83 DATUM)AS PER GPS OBSERVATION ON SITE DURING SURVEY AND ARE TO BE USED TO DEFINE THE GENERAL DIRECTION AND TRUE ANGLE AT THE INTERSECTION OF THE PROPERTY AND LAND LINES.
- PROPERTY IS SUBJECT TO UTILITY SERVICES AND UNDERGROUND UTILITY LINES NOT LOCATED.

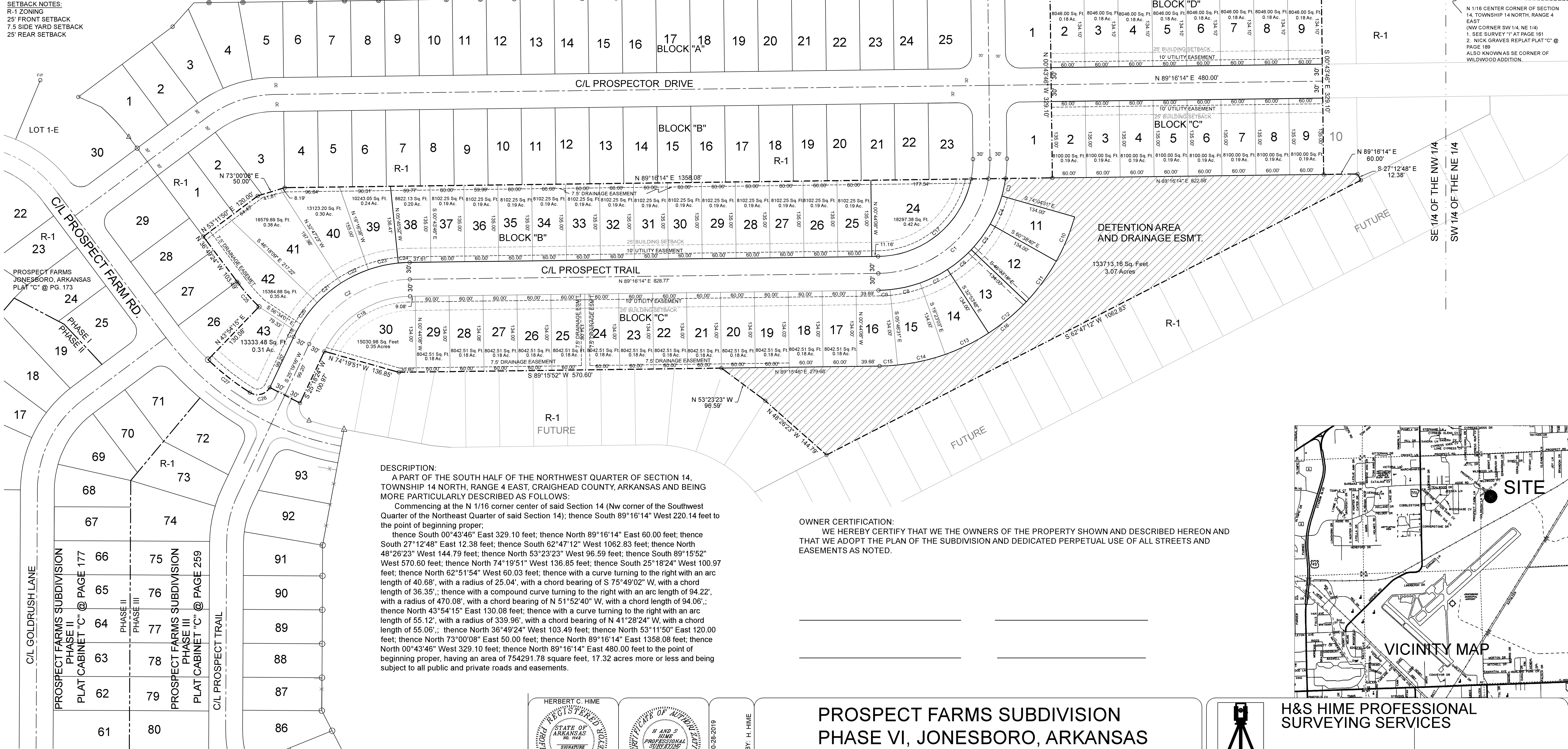
SURVEYOR'S CERTIFICATION:

THIS IS TO CERTIFY I HAVE ON THIS DATE SURVEYED THE ABOVE DESCRIBED PROPERTY IN ACCORDANCE WITH MONUMENTS FOUND THIS PLAT CONFORMS TO THAT SURVEYED.

H&S HIME PROFESSIONAL SURVEYING SERVICES  
2619 CARAWAY RD. STE. "D"  
JONESBORO, ARKANSAS 72401

FLOOD INSURANCE NOTE: By graphics plotting only, this property is in ZONE X of the Flood Insurance Rate Map, Community Panel No. 05031C0063 effective date of 9/27/1991. Exact designations can only be determined by an Elevation Certificate. Based on the above information, this property IS NOT in a Special Flood Hazard Area.

SETBACK NOTES:  
R-1 ZONING  
25' FRONT SETBACK  
7.5 SIDE YARD SETBACK  
25' REAR SETBACK



DESCRIPTION:

A PART OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF SECTION 14, TOWNSHIP 14 NORTH, RANGE 4 EAST, CRAIGHEAD COUNTY, ARKANSAS AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

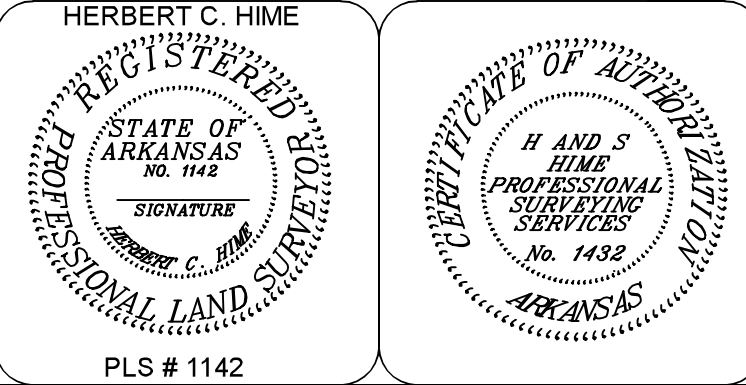
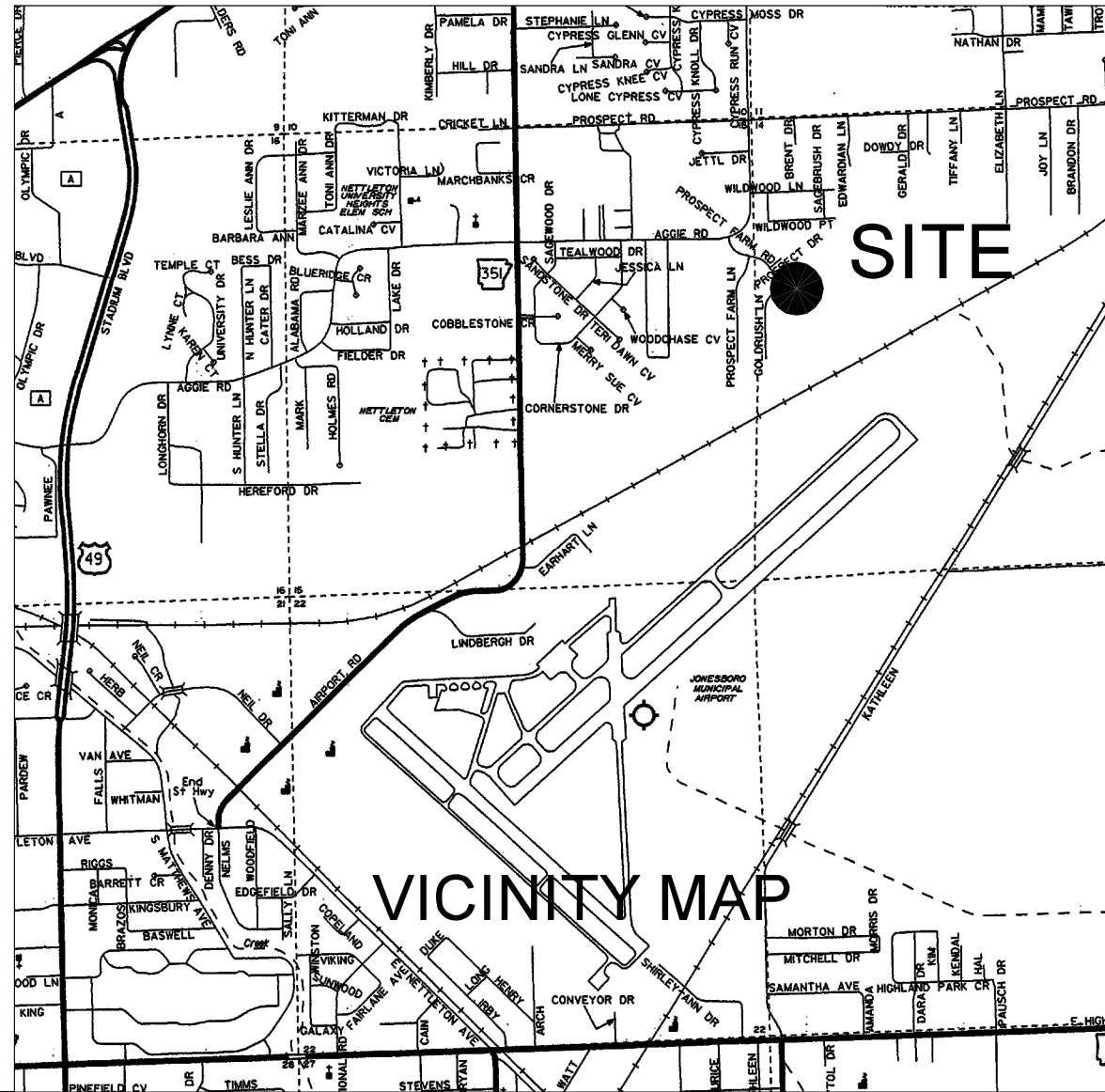
Commencing at the N 1/16 corner center of said Section 14 (Nw corner of the Southwest Quarter of the Northeast Quarter of said Section 14); thence South 89°16'14" West 220.14 feet to the point of beginning proper; thence South 00°43'46" East 329.10 feet; thence North 89°16'14" East 60.00 feet; thence South 27°12'48" East 12.38 feet; thence South 62°47'12" West 1062.83 feet; thence North 48°26'23" West 144.79 feet; thence North 53°23'23" West 96.59 feet; thence South 89°15'52" West 570.60 feet; thence North 74°19'51" West 136.85 feet; thence South 25°18'24" West 100.97 feet; thence North 62°51'54" West 60.03 feet; thence with a curve turning to the right with an arc length of 40.68', with a radius of 25.04', with a chord bearing of S 75°49'02" W, with a chord length of 36.35'; thence with a compound curve turning to the right with an arc length of 94.22', with a radius of 470.08', with a chord bearing of N 51°52'40" W, with a chord length of 94.06'; thence North 43°54'15" East 130.08 feet; thence with a curve turning to the right with an arc length of 55.12', with a radius of 339.96', with a chord bearing of N 41°28'24" W, with a chord length of 55.06'; thence North 36°49'24" West 103.49 feet; thence North 53°11'50" East 120.00 feet; thence North 73°00'08" East 50.00 feet; thence North 89°16'14" East 1358.08 feet; thence North 00°43'46" West 329.10 feet; thence North 89°16'14" East 480.00 feet to the point of beginning proper, having an area of 754291.78 square feet, 17.32 acres more or less and being subject to all public and private roads and easements.

OWNER CERTIFICATION:

WE HEREBY CERTIFY THAT WE THE OWNERS OF THE PROPERTY SHOWN AND DESCRIBED HEREON AND THAT WE ADOPT THE PLAN OF THE SUBDIVISION AND DEDICATED PERPETUAL USE OF ALL STREETS AND EASEMENTS AS NOTED.

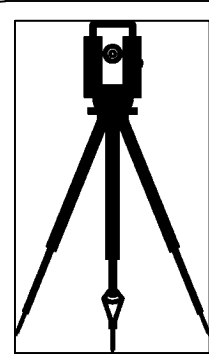
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DATE: 10-28-2019  
REV: \_\_\_\_\_  
DRAWN BY: H. HIME

PROSPECT FARMS SUBDIVISION  
PHASE VI, JONESBORO, ARKANSAS  
PRELIMINARY PLAT NOT FOR RECORD

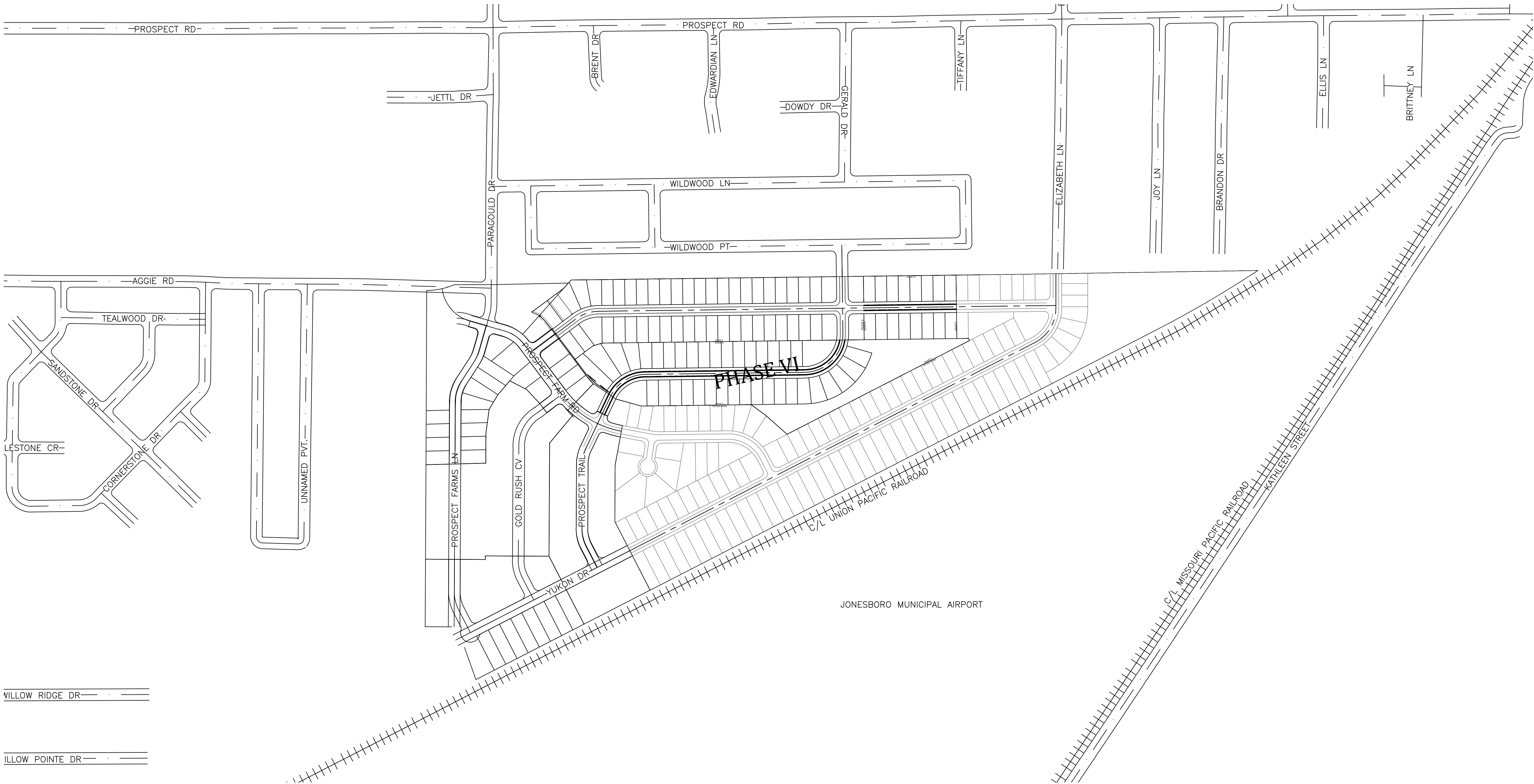


H&S HIME PROFESSIONAL  
SURVEYING SERVICES

2619 CARAWAY RD. SUITE "D"  
JONESBORO, ARKANSAS 72401

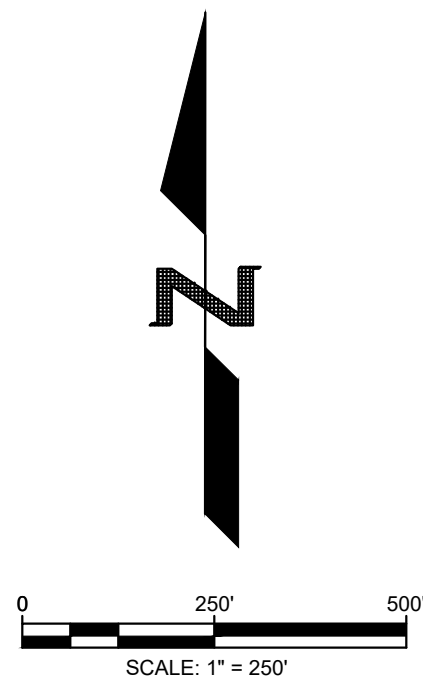
PHONE: 870-972-1288  
E-MAIL: hshime\_butch@yahoo.com





WILLOW RIDGE DR

WILLOW POINTE DR



PROSPECT FARMS PHASE VI

KEY MAP



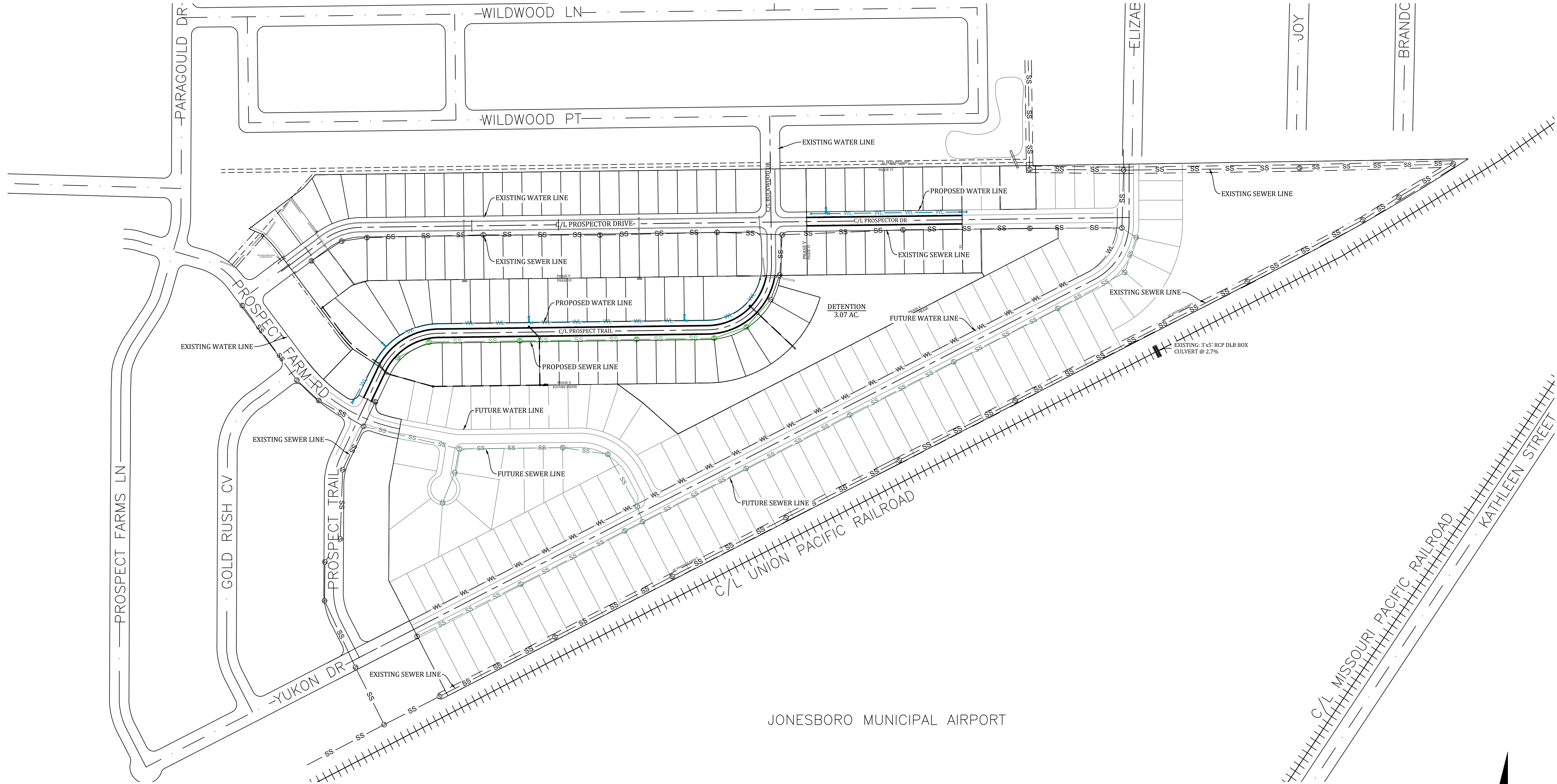
REVISIONS		
DATE	BY	DESCRIPTION

DRAWING INFO.	
DRAWN BY:	GMD
DATE:	10/30/2019
SCALE:	1"=250'

SHEET NUMBER:  
OV-1

MARK MORRIS P.E.  
3221 SHELBY DRIVE  
JONESBORO, AR 72404  
PH: 1-870-919-7700  
MARK.B.MORRIS@YAHOO.COM

MARK MORRIS



LEGEND

CURB

SIDEWALK

CORRIDOR CROSS SECTION LINE

WATER LINE

WATER METER

FIRE HYDRANT

BLOW-OFF ASSEMBLY

GATE VALVE

STORM DRAIN INLET

STORM DRAIN PIPE

SANITARY SEWER

SEWER MANHOLE

SEWER WYE

SEWER STUB-OUT

EX. SEWER WYE

EX. SEWER STUB-OUT

NOTE: SYMBOLS REPRESENTED IN LEGEND MAY NOT ALL BE INCLUDED ON THIS SHEET

MARK MORRIS P.E.  
3221 SHELBY DRIVE  
JONESBORO, AR 72404  
PH: 1-870-919-7700  
MARK.B.MORRIS@YAHOO.COM

MARK MORRIS

PROSPECT FARMS PHASE VI

OVERALL UTILITY

STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
No. 13212  
MARK B. MORRIS

REVISIONS

DATE	BY	DESCRIPTION

DRAWING INFO.

DRAWN BY:	GMD
DATE:	10/30/2019
SCALE:	1"=150'

SHEET NUMBER:

0V-2

Z:\Morris Real Estate Holdings, LLC\Projects\Prospect Farms\Engineering\Plans\PHASE VI\PHASE VI.dwg, 10/30/2019 4:27:59 PM





REVISIONS		
DATE	BY	DESCRIPTION

DRAWING INFO.		
DRAWN BY:	GMD	
DATE:	10/30/2019	
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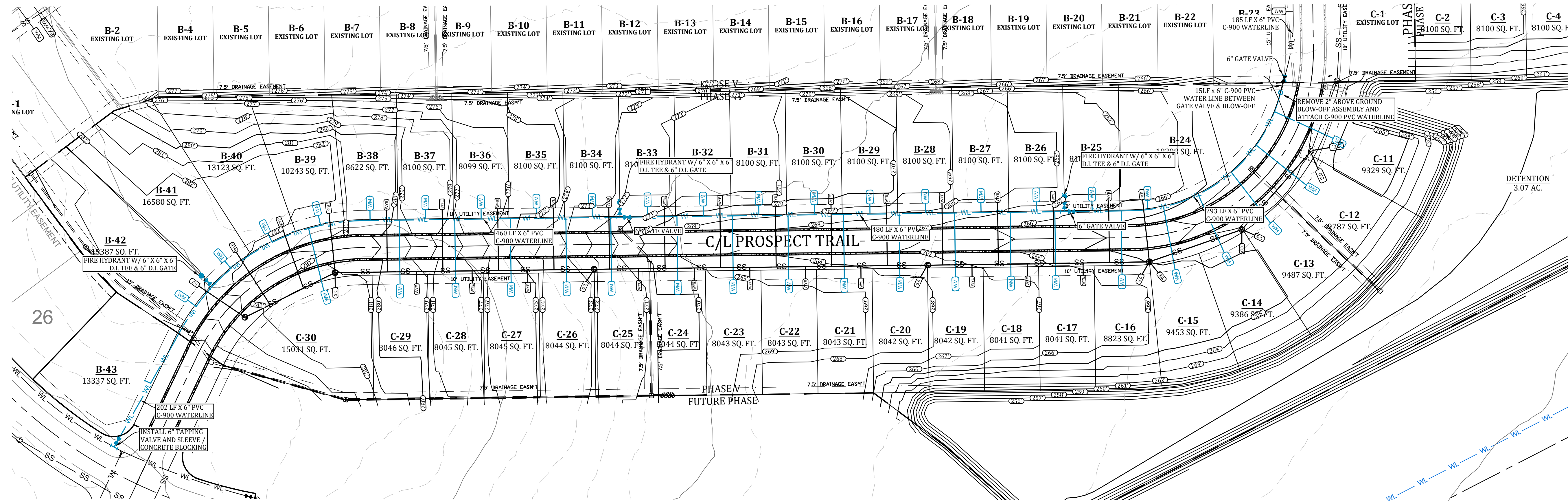
SHEET NUMBER:  
**WT-1**

LEGEND			
	CURB		STORM DRAIN INLET
	SIDEWALK		STORM DRAIN PIPE
	CORRIDOR CROSS SECTION LINE		SANITARY SEWER
	WATER LINE		SEWER MANHOLE
	WATER METER		SEWER WYE
	FIRE HYDRANT		SEWER STUB-OUT
	BLOW-OFF ASSEMBLY		EX. SEWER WYE
	GATE VALVE		EX. SEWER STUB-OUT

NOTE: SYMBOLS REPRESENTED IN LEGEND MAY NOT ALL BE INCLUDED ON THIS SHEET

TOTAL WATERLINE QUANTITIES:  
1915LF - 6" C-900 PVC WATERLINE  
28- 3/4" SHORT SERVICES  
28- 3/4" LONG SERVICES

PRESSURES:  
STATIC PRESSURE = 87 PSI  
RESIDUAL PRESSURE = 77 PSI



#### WATER AND ELECTRIC NOTES:

- CONTRACTOR SHALL PROVIDE NECESSARY ELECTRICAL CONDUIT & PERMANENT MARKERS W/ GRAY PVC SCH 40 (2") & PVC SCH 40 (4") & 36" RAD ELBOWS FOR RISERS AND A STRING & MOUSE BLOWN IN THE CONDUIT. CONTRACTOR SHALL OBTAIN AN ELECTRICAL PLAN FROM C&L AND INSTALL THE ELECTRICAL CONDUIT AS SPECIFIED BY C&L. CONTRACTOR SHALL OBTAIN C&L SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE 36" METER STOP, TAP, SERVICE LINE & METER BOX AS REQUIRED BY C&L & INSTALL AS REQUIRED BY C&L.
- CONTRACTOR SHALL PROVIDE ENGINEER W/ "AS-BUILT" DIMENSIONS FOR WYES, VALVES, TEES, BENDS, FIRE HYDRANTS, & WATER METERS.
- CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR ALL SEWER, WATER, & ELECTRICAL LINE LATERALS & PROVIDE LABOR & MATERIAL TO BACKFILL ALL SEWER, WATER & ELECTRICAL STREET CUTS WITH SANDY MATERIAL (P.I. <15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE COMPACTION TESTS AT 2' INTERVALS. CONTRACTOR SHALL PROVIDE LABOR AND MATERIAL FOR ALL SEWER & WATER LINE MAINS THAT CROSS A STREET AND BACKFILL THEM WITH SANDY (P.I. <15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE MATERIAL COMPACTION TESTS AT 2' INTERVALS.
- A 12 GA SOLID TRACER WIRE SHALL BE INSTALLED WITH WATER LINE MAIN WHERE THERE SHALL BE A PERMANENT WATER LINE MARKER INSTALLED @ THE BEGINNING, THE END, AND 750' INTERVALS IN BETWEEN WHERE THE TRACER WIRE IS INSTALLED. THE TRACER WIRE SHALL BE INSTALLED ABOVE THE WATER LINE AND CONNECTED TO THE PERMANENT MARKERS IN A MANNER THAT WILL ENSURE A CONTINUOUS CONNECTION OF THE TRACER LINE.
- CONTRACTOR SHALL CALL ARK ONE CALL FOR LOCATES PRIOR TO CONSTRUCTION.
- C&L SHALL PROVIDE FIRE HYDRANT, 6" D.I. GATE VALVE, VALVE BOX W/ LID, AND 6" BY LINE SIZE D.I. TEE. CONTRACTOR SHALL PROVIDE LABOR FOR INSTALLATION AND CONCRETE BLOCKING. (SEE DETAIL SHEET)
- CONTRACTOR SHALL NOTIFY ENGINEER TO DETERMINE ELEVATIONS FOR MANHOLE TOPS, WATERLINE ELEVATION WHERE IT CROSSES PROPOSED STORM DRAIN, WATER METER BOX ELEVATIONS, VALVE BOX ELEVATIONS, AND FIRE HYDRANT ELEVATIONS, AND WATER LINE LOCATION AROUND INLETS. WATER LINE SHALL BE INSTALLED AT AN ELEVATION WHERE HYDRANTS ARE LOCATED TO ENSURE HYDRANT WILL BE AT PROPER HEIGHT WHEN FINISHED GRADE HAS BEEN OBTAINED.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH PLANS TO INSURE THE WATER LINE DEPTH OF INSTALLATION IS BELOW THE PROPOSED STORM DRAIN ELEVATION. CONTRACTOR WILL BE REQUIRED TO COME BACK AND LOWER WATER LINE (AT THE CONTRACTOR'S EXPENSE) IF IT INTERFERES WITH THE STORM DRAIN INSTALLATION.
- IF CONTRACTOR CAN NOT INSURE WATER LINE INSTALLATION TO BE BELOW STORM DRAIN, THEN THE CONTRACTOR SHALL POSTPONE WATER LINE INSTALLATION UNTIL STORM DRAIN HAS BEEN INSTALLED.
- CONTRACTOR SHALL PROVIDE OWNER WITH ONE YEAR WARRANTY FOR MATERIALS AND WORKMANSHIP.
- CONTRACTOR SHALL PROVIDE ENGINEER WITH LIEN RELEASES FOR MATERIALS AND LABOR, BACTERIAL SAMPLE RESULTS, AND MODEL & YEAR OF WATER LINE VALVES WITHIN 30 DAYS OF COMPLETION OF WORK.
- CONTRACTOR SHALL DRESS UP PROJECT AFTER INSTALLATION TO THE CONDITION IT AS PRIOR TO BEGINNING CONSTRUCTION. MOUND BACKFILL OVER TRENCHES 1' TO 2' TO ALLOW FOR SETTLING IN AREAS OUT OF THE STREET.
- CONTRACTOR SHALL REVIEW DETAIL SHEETS TO ENSURE PROPER INSTALLATION OF VALVES, FIRE HYDRANTS, CONCRETE BLOCKING, SERVICE LINES, MANHOLE INVERTS, AND DROP ASSEMBLIES.
- CONTRACTOR SHALL OBTAIN A CURRENT SET OF C&L SPECIFICATIONS AND REVIEW THEM. C&L SPECIFICATIONS ARE TO BE ADHERED TO AND MADE A PART OF THIS SET OF PLANS. CONTRACTOR SHALL USE C&L SPECIFICATIONS TO INCLUDE ITEMS NOT SHOWN OR REFERRED TO IN THIS SET OF PLANS. ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS DIRECTED BY OWNER.
- ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS DIRECTED BY OWNER.
- CONTRACTOR SHALL PLACE 8 MIL POLYNYLON OVER DUCTILE IRON FITTINGS PRIOR TO PLACING CONCRETE BLOCKING TO PREVENT CONCRETE FROM ENCASING BOLTS & NUTS.
- ALL WATER LINES 12" DIAMETER SHALL BE AWMA C-900 PRESSURE CLASS 150 OR 18. ALL 2" AND 3" DIAMETER WATER LINES SHALL BE SDR 21 CLASS 200 (ASTM 2241). ALL SEWER LINES SHALL BE ASTM 2241 SDR-26.
- WATER LINE AND SANITARY SEWER LINE SHALL MAINTAIN 18" MINIMUM VERTICAL SEPARATION. WATER LINE AND STORM DRAIN SHALL
- MAINTAIN 36" MINIMUM HORIZONTAL SEPARATION TO PREVENT FREEZING. MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SEWER AND WATER LINE.
- CONSTRUCTION SHALL BEGIN ONLY AFTER APPROVED PLANS FROM THE ARKANSAS DEPARTMENT OF HEALTH ARE SUBMITTED TO C&L AND ALL NECESSARY FEES ARE PAID IN FULL. CONSTRUCTION BY CONTRACTORS SHALL THEN BEGIN ONLY AFTER THE RIGHT OF WAY HAS BEEN CLEARED, THE ENTIRE SECTION STAKED THE ELEVATIONS CAREFULLY CHECKED, AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD. A POST CONSTRUCTION MEETING WILL BE HELD W/ CONTRACTOR PRESENT TO VERIFY ALL CONSTRUCTION IS ACCEPTABLE TO C&L PRIOR TO THE INSTALLATION OF ELECTRICAL WIRE.
- DEVELOPER MUST SHOW PROOF OF ADEQUATE INSURANCE COVERAGE (ARKANSAS WORKERS COMPENSATION, \$1,000,000.00 MINIMUM GENERAL LIABILITY, AND \$1,000,000.00 MINIMUM AUTO LIABILITY). CONTRACTOR MUST HAVE A STATE CONTRACTORS LICENSE. CONTRACTOR MUST HAVE A COMPETENT PERSON AT THE JOB SITE AS DEFINED BY OSHA.
- FINAL CLEAN-UP OF THE SITE SHALL INCLUDE THE REMOVAL AND DISPOSAL OFF-SITE OF ALL CONSTRUCTION DEBRIS, AND SURPLUS MATERIALS.
- DURING CONSTRUCTION, WORK SHALL BE INSPECTED BY THE DEVELOPER'S CONSULTING ENGINEER FOR NECESSARY SAFETY PRACTICES, PROPER MATERIALS, AND WORKMANSHIP. C&L WILL PROVIDE RANDOM INSPECTIONS TO INSURE THAT THE PLANS APPROVED BY THE ARKANSAS DEPARTMENT OF HEALTH AND C&L ARE FOLLOWED CONCERNING WORKMANSHIP AND MATERIALS.
- IF SEWER AND WATER LINES HAVE NOT BEEN ACCEPTED BY C&L WITHIN 360 DAYS AFTER MANDREL TESTS, LOW PRESSURE AIR TESTS, HYDROSTATIC TESTS AND BACTERIAL TESTS, ALL TESTS WILL BE REQUIRED TO BE REPEATED AND RE-CERTIFIED.
- INSTALLATION OF DOMESTIC WATER METER TAPS ARE REQUIRED TO BE MADE DURING THE INSTALLATION OF THE NEW WATER MAINS.
- OBSTRUCTING DRAINAGE PIPES SHALL BE REMOVED IF IN SOUND, UNDEMANAGED CONDITION, THEY MAY BE CLEANED AND RE-INSTALLED. IF UNSOUND OR DAMAGED, THEY SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL. WHEN THE ANGLE BETWEEN CENTER LINES OF A DRAINAGE PIPE AND WATER MAIN WILL PERMIT, THE WATER MAIN MAY BE INSTALLED BY TUNNELING. PROVIDED THE DRAINAGE PIPE IS NOT DAMAGED AND THE WATER MAIN IS LAID PROPERLY. AS AN ALTERNATIVE IN THE CASE OF CORROGATED METAL PIPE, A SECTION MAY BE CUT FROM THE DRAINAGE PIPE, AND RESTORATION ACCOMPLISHED WITH NEW PIPE AND COUPLING BANDS.
- C&L ENGINEERING DEPT. MUST APPROVE ANY WATER OR SEWER LINES THAT WILL BE INSTALLED CLOSER THAN 5' PARALLEL WITH EDGE OF PAVED STREET SURFACE.
- REPAIRS SHALL BE MADE IN ACCORDANCE WITH AWMA. IF VALVE IS CLOSED BY THE CONTRACTOR WITHOUT C&L'S KNOWLEDGE, THE NEW SECTION MUST BE TESTED FOR WATER QUALITY AND FLUSHED. THE C&L INSPECTOR WILL WITNESS ALL REPAIRS.
- WATER LINE FITTINGS SHALL BE CLASS 350 DUCTILE IRON OR CAST IRON.
- TRENCH DEPTH WILL BE SUCH AS TO ALLOW A MINIMUM COVER OF 42" OVER WATER MAIN.
- LEAKAGE TESTS SHALL BE MADE PRIOR TO STERILIZATION OPERATIONS. THE TEST PERIOD SHALL BE TWO (2) HOURS. TEST PRESSURE SHALL BE 1.5 TIMES THE CALCULATED WORKING PRESSURE OF THE MAIN, BUT NOT LESS THAN 100 PSI. THE LINE WILL NOT BE ACCEPTED UNLESS OR UNTIL THE TOTAL IS LESS THAN THAT SPECIFIED IN AWMA C-600-93 FOR DUCTILE IRON AND AWMA C-605-94 FOR PVC PIPE.
- ALL WATER LINES SHALL BE STERILIZED IN ACCORDANCE WITH AWMA C-651-94. ANY NEW CONSTRUCTION OR REPAIRED WATER MAIN MUST BE THOROUGHLY CLEANED (FLUSHED), DISINFECTED, AND TESTED FOR BACTERIOLOGICAL QUALITY BEFORE IT CAN BE PLACED IN SERVICE. FOLLOWING A CONTACT PERIOD OF NOT LESS THAN 24 HOURS, THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM, AND THE SYSTEM FILLED WITH WATER OF NORMAL CHLORINE CONTENT. SAMPLES OF WATER THEN SHALL BE TAKEN ON TWO CONSECUTIVE DAYS FROM THE LINES AND DELIVERED TO THE C&L - LABORATORY FOR BACTERIAL ANALYSIS. THIS PROCESS SHALL BE CONTINUED UNTIL THE SAMPLES SHOW THE WATER IS SAFE FOR DOMESTIC REQUIREMENTS. FLUSHING DEVICES SHOULD BE SIZED TO PROVIDE FLOWS WHICH WILL GIVE A VELOCITY OF AT LEAST 2.5 FEET PER SECOND IN THE WATER MAIN BEING FLUSHED. NO FLUSHING DEVICE SHALL BE DIRECTLY CONNECTED TO ANY SEWER. IF THE LINE HAS SET FOR A ONE MONTH OR LONGER BEFORE FINAL ACCEPTANCE, IT SHALL BE RESTERILIZED, FLUSHED, AND BACTERIAL TESTED.
- THE DEVELOPER AND ENGINEER ARE RESPONSIBLE FOR METER BOX LOCATIONS. ANY CONFLICTS THAT REQUIRE PLASTIC BOX(S) TO BE CHANGED OUT TO CONCRETE BOX(S) WILL BE AT THE EXPENSE OF THE DEVELOPER AND/OR CONTRACTOR.
- IF UNSAFE PRACTICES ARE DISCOVERED BY C&L DURING INSPECTIONS OF WORKMANSHIP AND MATERIALS, C&L WILL NOTIFY OSHA. THIS PROCEDURE IN NO WAY OBLIGATES C&L FOR THE RESPONSIBILITY OF THE CONTRACTOR'S SAFETY PRACTICES.
- DURING CONSTRUCTION, WORK SHALL BE INSPECTED DAILY BY THE ENGINEER OF RECORD FOR PROPER MATERIALS, WORKMANSHIP, AND INSTALLATION IN ACCORDANCE WITH THE APPROVED ARKANSAS DEPARTMENT OF HEALTH AND CITY WATER AND LIGHT APPROVED PLANS.

**OPERATING NOTE:**  
THE OPERATING ROUTINE SHALL INCLUDE NECESSARY PROTECTIVE MEASURES TO DETECT AND REMOVE OR DESTROY ANY CONTAMINANT OF CONCERN OR REGULATION THAT MIGHT ENTER THE DISTRIBUTION SYSTEM. EVERY PRECAUTION MUST BE TAKEN AGAINST THE POSSIBILITY OF SEWAGE CONTAMINATION OF THE WATER IN THE DISTRIBUTION SYSTEM. WATER MAINS AND SANITARY SEWERS SHALL BE CONSTRUCTED AS FAR APART AS PRACTICABLE, AND SHALL BE SEPARATED BY UNDISTURBED AND COMPACTED EARTH. A MINIMUM HORIZONTAL DISTANCE OF 10' SHOULD BE MAINTAINED BETWEEN WATER LINES AND SEWER LINE OR OTHER SOURCES OF CONTAMINATION. WATER LINES AND SEWER SHALL NOT BE LAID IN THE SAME TRENCH EXCEPT OF THE WRITTEN APPROVAL OF THE ARKANSAS DEPARTMENT OF HEALTH. WATER MAINS NECESSARILY CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATERLINE WILL BE AT LEAST 18" ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN A WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST 10' EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18" OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENTS. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH. A MINIMUM HORIZONTAL DISTANCE OF 3' SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NON-SANITARY NATURE (GAS, ELECTRIC, ETC.), EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH AND HUMAN SERVICES.

**TRENCH SETTLEMENT NOTE:**  
CITY WATER & LIGHT IS NOT RESPONSIBLE FOR ANY SETTLEMENT OVER WATER & SEWER TRENCHES THAT OCCURS BEFORE OR AFTER THE WARRANTY PERIOD.

**WATER METER NOTE:**  
WATER METERS ARE SHOWN PICTORIALLY ONLY. WATER METERS SHALL BE LOCATED AT THE RIGHT OF WAY APPROXIMATELY AT THE CENTER OF THE LOT. THERE SHOULD BE A MINIMUM OF 10 FEET SEPARATION BETWEEN WATER METERS AND SANITARY SEWER SERVICES.

**WATER CONNECTION NOTE:**  
CONTRACTOR SHALL NOT INITIATE TIE IN CONNECTION TO EXISTING WATER MAIN AFTER 3 P.M. DURING NORMAL WORKING DAYS, OR ON FRIDAY AFTER 12 P.M., UNLESS APPROVED BY CITY WATER & LIGHT ENGINEERING DEPT. CONTRACTOR SHALL NOTIFY C&L INSPECTOR OF TENTATIVE TIME FRAME FOR CONNECTION 24 HOURS PRIOR TO ACTIVITY.

ALL SEWER WYES SHALL BE A MINIMUM OF 10' FOOT AWAY FROM PROPERTY CORNERS.

**ELECTRICAL CONDUIT NOTE:**  
ALL ELECTRICAL CONDUIT SHALL HAVE A MINIMUM 48" OF COVER BELOW FINISHED GRADE.

NO TRANSFORMER, JUNCTION BOX, OR PULL BOX TO BE PLACED OVER WATER FITTINGS WITHOUT CITY WATER AND LIGHT APPROVAL.

0 60' 120'  
SCALE: 1" = 60'



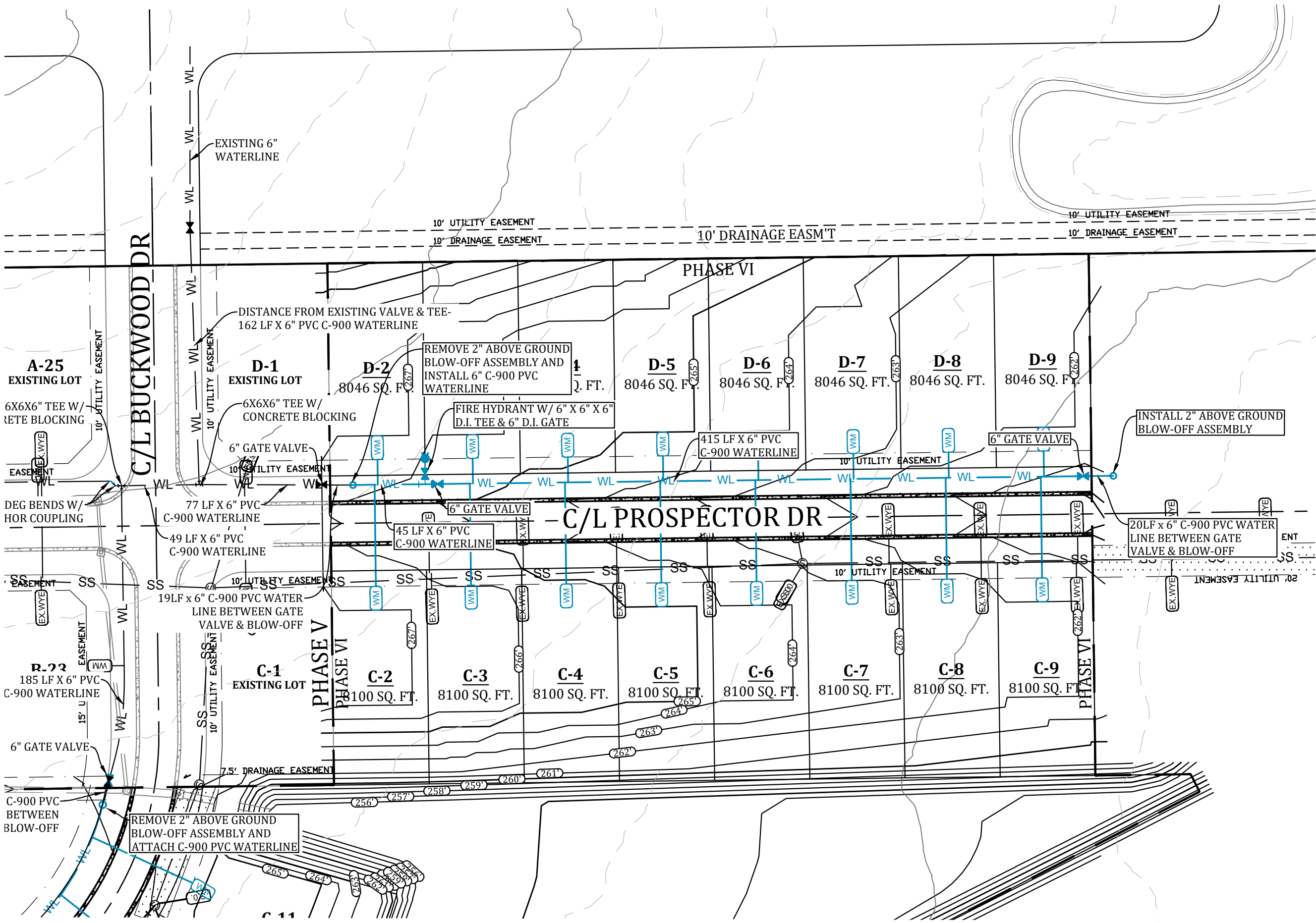


LEGEND			
	CURB		STORM DRAIN INLET
	SIDEWALK		STORM DRAIN PIPE
	CORRIDOR CROSS SECTION LINE		SANITARY SEWER
	WATER LINE		SEWER MANHOLE
	WATER METER		SEWER WYE
	FIRE HYDRANT		SEWER STUB-OUT
	BLOW-OFF ASSEMBLY		EX. SEWER WYE
	GATE VALVE		EX. SEWER STUB-OUT

NOTE: SYMBOLS REPRESENTED IN LEGEND MAY NOT ALL BE INCLUDED ON THIS SHEET

TOTAL WATERLINE QUANTITIES:  
1915LF - 8" C-900 PVC WATERLINE  
28- 3/4" SHORT SERVICES  
28- 3/4" LONG SERVICES

PRESSURES:  
STATIC PRESSURE = 87 PSI  
RESIDUAL PRESSURE = 77 PSI



#### WATER AND ELECTRIC NOTES:

- CONTRACTOR SHALL PROVIDE NECESSARY ELECTRICAL CONDUIT & PERMANENT MARKERS W/ GRAY PVC SCH 40 (2") & PVC SCH 40 (4") & 36" RAD ELBOWS FOR RISERS AND A STRING & MOUSE BLOWN IN THE CONDUIT. CONTRACTOR SHALL OBTAIN AN ELECTRICAL PLAN FROM CIVL AND INSTALL THE ELECTRICAL CONDUIT AS SPECIFIED BY CIVL. CONTRACTOR SHALL OBTAIN CIVL SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE 36" METER STOP, TAP, SERVICE LINE & METER BOX AS REQUIRED BY CIVL & INSTALL AS REQUIRED BY CIVL.
- CONTRACTOR SHALL PROVIDE ENGINEER W/ "AS-BUILT" DIMENSIONS FOR WYES, VALVES, TEES, BENDS, FIRE HYDRANTS, & WATER METERS.
- CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR ALL SEWER, WATER, & ELECTRICAL LINE LATERALS & PROVIDE LABOR & MATERIAL TO BACKFILL ALL SEWER, WATER & ELECTRICAL STREET CUTS WITH SANDY MATERIAL (P.I. <15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE COMPACTION TESTS AT 2' INTERVALS. CONTRACTOR SHALL PROVIDE LABOR AND MATERIAL FOR ALL SEWER & WATER LINE MAINS THAT CROSS A STREET AND BACKFILL THEM WITH SANDY (P.I. <15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE MATERIAL COMPACTION TESTS AT 2' INTERVALS.
- A 12 GA SOLID TRACER WIRE SHALL BE INSTALLED WITH WATER LINE MAIN WHERE THERE SHALL BE A PERMANENT WATER LINE MARKER INSTALLED @ THE BEGINNING, THE END, AND 750' INTERVALS IN BETWEEN WHERE THE TRACER WIRE IS INSTALLED. THE TRACER WIRE SHALL BE INSTALLED ABOVE THE WATER LINE AND CONNECTED TO THE PERMANENT MARKERS IN A MANNER THAT WILL INSURE A CONTINUOUS CONNECTION OF THE TRACER LINE.
- CONTRACTOR SHALL CALL ARK ONE CALL FOR LOCATES PRIOR TO CONSTRUCTION.
- CIVL SHALL PROVIDE FIRE HYDRANT, 6" D.I. GATE VALVE, VALVE BOX W/ LID, AND 6" BY LINE SIZE D.I. TEE. CONTRACTOR SHALL PROVIDE LABOR FOR INSTALLATION AND CONCRETE BLOCKING. (SEE DETAIL SHEET).
- CONTRACTOR SHALL NOTIFY ENGINEER TO DETERMINE ELEVATIONS FOR MANHOLE TOPS, WATERLINE ELEVATION WHERE IT CROSSES PROPOSED STORM DRAIN, WATER METER BOX ELEVATIONS, VALVE BOX ELEVATIONS, AND FIRE HYDRANT ELEVATIONS, AND WATER LINE LOCATION AROUND INLETS. WATER LINE SHALL BE INSTALLED AT AN ELEVATION WHERE HYDRANTS ARE LOCATED TO ENSURE HYDRANT WILL BE AT PROPER HEIGHT WHEN FINISHED GRADE HAS BEEN OBTAINED.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH PLANS TO INSURE THE WATER LINE DEPTH OF INSTALLATION IS BELOW THE PROPOSED STORM DRAIN ELEVATION. CONTRACTOR WILL BE REQUIRED TO COME BACK AND LOWER WATER LINE (AT THE CONTRACTOR'S EXPENSE) IF IT INTERFERES WITH THE STORM DRAIN INSTALLATION.
- IF CONTRACTOR CAN NOT INSURE WATER LINE INSTALLATION TO BE BELOW STORM DRAIN, THEN THE CONTRACTOR SHALL POSTPONE WATER LINE INSTALLATION UNTIL STORM DRAIN HAS BEEN INSTALLED.
- CONTRACTOR SHALL PROVIDE OWNER WITH ONE YEAR WARRANTY FOR MATERIALS AND WORKMANSHIP.
- CONTRACTOR SHALL PROVIDE ENGINEER WITH LIEN RELEASES FOR MATERIALS AND LABOR, BACTERIAL SAMPLE RESULTS, AND MODEL & YEAR OF WATER LINE VALVES WITHIN 30 DAYS OF COMPLETION OF WORK.
- CONTRACTOR SHALL DRESS UP PROJECT AFTER INSTALLATION TO THE CONDITION IT AS PRIOR TO BEGINNING CONSTRUCTION. MOUND BACKFILL OVER TRENCHES 1' TO 2' TO ALLOW FOR SETTLING IN AREAS OUT OF THE STREET.
- CONTRACTOR SHALL REVIEW DETAIL SHEETS TO ENSURE PROPER INSTALLATION OF VALVES, FIRE HYDRANTS, CONCRETE BLOCKING, SERVICE LINES, MANHOLE INVERTS, AND DROP ASSEMBLIES.
- CONTRACTOR SHALL OBTAIN A CURRENT SET OF CIVL SPECIFICATIONS AND REVIEW THEM. CIVL SPECIFICATIONS ARE TO BE ADHERED TO AND MADE A PART OF THIS SET OF PLANS. CONTRACTOR SHALL USE CIVL SPECIFICATIONS TO INCLUDE ITEMS NOT SHOWN OR REFERRED TO IN THIS SET OF PLANS. 18) ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS DIRECTED BY OWNER.
- ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS DIRECTED BY OWNER.
- CONTRACTOR SHALL PLACE 8 MIL POLYWRAP OVER DUCTILE IRON FITTINGS PRIOR TO PLACING CONCRETE BLOCKING TO PREVENT CONCRETE FROM ENCASING BOLTS & NUTS.
- ALL WATER LINES 12" DIAMETER SHALL BE AWMA C-900 PRESSURE CLASS 150 DR 18. ALL 2" AND 3" DIAMETER WATER LINES SHALL BE SDR 21 CLASS 200 (ASTM 2241). ALL SEWER LINES SHALL BE ASTM 2241 SDR-26.
- WATER LINE AND SANITARY SEWER LINE SHALL MAINTAIN 18" MINIMUM VERTICAL SEPARATION. WATER LINE AND STORM DRAIN SHALL

- MAINTAIN 36" MINIMUM HORIZONTAL SEPARATION TO PREVENT FREEZING. MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SEWER AND WATER LINE.
- CONSTRUCTION SHALL BEGIN ONLY AFTER APPROVED PLANS FROM THE ARKANSAS DEPARTMENT OF HEALTH ARE SUBMITTED TO CIVL, AND ALL NECESSARY FEES ARE PAID IN FULL. CONSTRUCTION BY CONTRACTORS SHALL THEN BEGIN ONLY AFTER THE RIGHT OF WAY HAS BEEN CLEARED, THE ENTIRE SECTION STAKED THE ELEVATIONS CAREFULLY CHECKED, AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD. A POST CONSTRUCTION MEETING WILL BE HELD W/ CONTRACTOR PRESENT TO VERIFY ALL CONSTRUCTION IS ACCEPTABLE TO CIVL PRIOR TO THE INSTALLATION OF ELECTRICAL WIRE.
- DEVELOPER MUST SHOW PROOF OF ADEQUATE INSURANCE COVERAGE (ARKANSAS WORKERS COMPENSATION, \$1,000,000.00 MINIMUM GENERAL LIABILITY, AND \$1,000,000.00 MINIMUM AUTO LIABILITY) CONTRACTOR MUST HAVE A STATE CONTRACTORS LICENSE. CONTRACTOR MUST HAVE A COMPETENT PERSON AT THE JOB SITE AS DEFINED BY OSHA.
- FINAL CLEAN-UP OF THE SITE SHALL INCLUDE THE REMOVAL AND DISPOSAL OFF-SITE OF ALL CONSTRUCTION DEBRIS, AND SURPLUS MATERIALS.
- DURING CONSTRUCTION, WORK SHALL BE INSPECTED BY THE DEVELOPER'S CONSULTING ENGINEER FOR NECESSARY SAFETY PRACTICES, PROPER MATERIALS, AND WORKMANSHIP. CIVL WILL PROVIDE RANDOM INSPECTIONS TO INSURE THAT THE PLANS APPROVED BY THE ARKANSAS DEPARTMENT OF HEALTH AND CIVL ARE FOLLOWED CONCERNING WORKMANSHIP AND MATERIALS.
- IF SEWER AND WATER LINES HAVE NOT BEEN ACCEPTED BY CIVL WITHIN 360 DAYS AFTER MANDREL TESTS, LOW PRESSURE AIR TESTS, HYDROSTATIC TESTS AND BACTERIAL TESTS, ALL TESTS WILL BE REQUIRED TO BE REPEATED AND RE-CERTIFIED.
- INSTALLATION OF DOMESTIC WATER METER TAPS ARE REQUIRED TO BE MADE DURING THE INSTALLATION OF THE NEW WATER MAINS.
- OBSTRUCTING DRAINAGE PIPES SHALL BE REMOVED IF IN SOUND, UNDAMAGED CONDITION, THEY MAY BE CLEANED AND RE-INSTALLED. IF UNSOUND OR DAMAGED, THEY SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL. WHEN THE ANGLE BETWEEN CENTER LINES OF A DRAINAGE PIPE AND WATER MAIN WILL PERMIT, THE WATER MAIN MAY BE INSTALLED BY TUNNELING. PROVIDED THE DRAINAGE PIPE IS NOT DAMAGED AND THE WATER MAIN IS LAID PROPERLY. AS AN ALTERNATIVE IN THE CASE OF CORRUPTED METAL PIPE, A SECTION MAY BE CUT FROM THE DRAINAGE PIPE, AND RESTORATION ACCOMPLISHED WITH NEW PIPE AND COUPLING BANDS.
- CIVL ENGINEERING DEPT. MUST APPROVE ANY WATER OR SEWER LINES THAT WILL BE INSTALLED CLOSER THAN 5' PARALLEL WITH EDGE OF PAVED STREET SURFACE.
- REPAIRS SHALL BE MADE IN ACCORDANCE WITH AWMA. IF VALVE IS CLOSED BY THE CONTRACTOR WITHOUT CIVL'S KNOWLEDGE, THE NEW SECTION MUST BE TESTED FOR WATER QUALITY AND FLUSHED. THE CIVL INSPECTOR WILL WITNESS ALL REPAIRS.
- WATER LINE FITTINGS SHALL BE CLASS 350 DUCTILE IRON OR CAST IRON.
- TRENCH DEPTH WILL BE SUCH AS TO ALLOW A MINIMUM COVER OF 42" OVER WATER MAIN.

- LEAKAGE TESTS SHALL BE MADE PRIOR TO STERILIZATION OPERATIONS. THE TEST PERIOD SHALL BE TWO (2) HOURS. TEST PRESSURE SHALL BE 1.5 TIMES THE CALCULATED WORKING PRESSURE OF THE MAIN, BUT NOT LESS THAN 100 PSI. THE LINE WILL NOT BE ACCEPTED UNLESS OR UNTIL THE TOTAL IS LESS THAN THAT SPECIFIED IN AWMA C-600-93 FOR DUCTILE IRON AND AWMA C-605-94 FOR PVC PIPE.
- ALL WATER LINES SHALL BE STERILIZED IN ACCORDANCE WITH AWMA C-651-94. ANY NEW CONSTRUCTION OR REPAIRED WATER MAIN MUST BE THOROUGHLY CLEANED (FLUSHED), DISINFECTED, AND TESTED FOR BACTERIOLOGICAL QUALITY BEFORE IT CAN BE PLACED IN SERVICE. FOLLOWING A CONTACT PERIOD OF NOT LESS THAN 24 HOURS, THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM, AND THE SYSTEM FILLED WITH WATER OF NORMAL CHLORINE CONTENT. SAMPLES OF WATER THEN SHALL BE TAKEN ON TWO CONSECUTIVE DAYS FROM THE LINES AND DELIVERED TO THE CIVL - LABORATORY FOR BACTERIAL ANALYSIS. THIS PROCESS SHALL BE CONTINUED UNTIL THE SAMPLES SHOW THE WATER IS SAFE FOR DOMESTIC REQUIREMENTS. FLUSHING DEVICES SHOULD BE SIZED TO PROVIDE FLOWS WHICH WILL GIVE A VELOCITY OF AT LEAST 2.5 FEET PER SECOND IN THE WATER MAIN BEING FLUSHED. NO FLUSHING DEVICE SHALL BE DIRECTLY CONNECTED TO ANY SEWER. IF THE LINE HAS SET FOR A ONE MONTH OR LONGER BEFORE FINAL ACCEPTANCE, IT SHALL BE RESTERILIZED, FLUSHED, AND BACTERIAL TESTED.
- THE DEVELOPER AND ENGINEER ARE RESPONSIBLE FOR METER BOX LOCATIONS. ANY CONFLICTS THAT REQUIRE PLASTIC BOX(S) TO BE CHANGED OUT TO CONCRETE BOX(S) WILL BE AT THE EXPENSE OF THE DEVELOPER AND/OR CONTRACTOR.
- IF UNSAFE PRACTICES ARE DISCOVERED BY CIVL DURING INSPECTIONS OF WORKMANSHIP AND MATERIALS, CIVL WILL NOTIFY OSHA. THIS PROCEDURE IN NO WAY OBLIGATES CIVL FOR THE RESPONSIBILITY OF THE CONTRACTOR'S SAFETY PRACTICES.
- DURING CONSTRUCTION, WORK SHALL BE INSPECTED DAILY BY THE ENGINEER OF RECORD FOR PROPER MATERIALS, WORKMANSHIP, AND INSTALLATION IN ACCORDANCE WITH THE APPROVED ARKANSAS DEPARTMENT OF HEALTH AND CITY WATER AND LIGHT APPROVED PLANS.

#### OPERATING NOTE:

THE OPERATING ROUTINE SHALL INCLUDE NECESSARY PROTECTIVE MEASURES TO DETECT AND REMOVE OR DESTROY ANY CONTAMINANT OF CONCERN OR REGULATION THAT MIGHT ENTER THE DISTRIBUTION SYSTEM. EVERY PRECAUTION MUST BE TAKEN AGAINST THE POSSIBILITY OF SEWAGE CONTAMINATION OF THE WATER IN THE DISTRIBUTION SYSTEM. WATER MAINS AND SANITARY SEWERS SHALL BE CONSTRUCTED AS FAR APART AS PRACTICABLE, AND SHALL BE SEPARATED BY UNDISTURBED AND COMPACTED EARTH. A MINIMUM HORIZONTAL DISTANCE OF 10' SHOULD BE MAINTAINED BETWEEN WATER LINES AND SEWER LINE OR OTHER SOURCES OF CONTAMINATION. WATER LINES AND SEWER SHALL NOT BE LAID IN THE SAME TRENCH EXCEPT OF THE WRITTEN APPROVAL OF THE ARKANSAS DEPARTMENT OF HEALTH. WATER MAINS NECESSARILY CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATERLINE WILL BE AT LEAST 18" ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN A WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST 10' EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18" OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENTS. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH. A MINIMUM HORIZONTAL DISTANCE OF 3' SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NON-SANITARY NATURE (GAS, ELECTRIC, ETC.), EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH AND HUMAN SERVICES.

#### TRENCH SETTLEMENT NOTE:

CITY WATER & LIGHT IS NOT RESPONSIBLE FOR ANY SETTLEMENT OVER WATER & SEWER TRENCHES THAT OCCURS BEFORE OR AFTER THE WARRANTY PERIOD.

#### WATER METER NOTE:

WATER METERS ARE SHOWN PICTORIALY ONLY. WATER METERS SHALL BE LOCATED AT THE RIGHT OF WAY APPROXIMATELY AT THE CENTER OF THE LOT. THERE SHOULD BE A MINIMUM OF 10 FEET SEPARATION BETWEEN WATER METERS AND SANITARY SEWER SERVICES.

#### WATER CONNECTION NOTE:

CONTRACTOR SHALL NOT INITIATE TIE IN CONNECTION TO EXISTING WATER MAIN AFTER 3 P.M. DURING NORMAL WORKING DAYS, OR ON FRIDAY AFTER 12 P.M., UNLESS APPROVED BY CITY WATER & LIGHT ENGINEERING DEPT. CONTRACTOR SHALL NOTIFY CIVL INSPECTOR OF TENTATIVE TIME FRAME FOR CONNECTION 24 HOURS PRIOR TO ACTIVITY.

ALL SEWER WYES SHALL BE A MINIMUM OF 10' FOOT AWAY FROM PROPERTY CORNERS.

#### ELECTRICAL CONDUIT NOTE:

ALL ELECTRICAL CONDUIT SHALL HAVE A MINIMUM 48" OF COVER BELOW FINISHED GRADE.

NO TRANSFORMER, JUNCTION BOX, OR PULL BOX TO BE PLACED OVER WATER FITTINGS WITHOUT CITY WATER AND LIGHT APPROVAL.

0 60' 120'  
SCALE: 1" = 60'



Know what's below.  
Call before you dig.

## PROSPECT FARMS PHASE VI

## WATER PLAN (PROSPECTOR DR)



MARK MORRIS P.E.  
3221 SHELBY DRIVE  
JONESBORO, AR 72404  
PH: 1-870-919-7700  
MARK.B.MORRIS@YAHOO.COM

# MARK MORRIS

SHEET NUMBER:

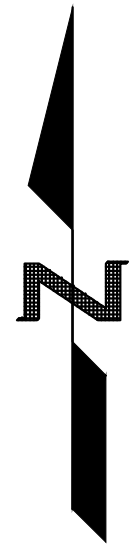
## WT-2

REVISIONS		
DATE	BY	DESCRIPTION

#### DRAWING INFO.

DRAWN BY:	GMD
DATE:	10/30/2019
SCALE:	1"=60'





<b>TOTAL SEWERLINE QUANTITIES:</b>	
1207 LF - 8" SDR 26 PVC	
<b>PHASE VI</b>	
11- SHORT LATERALS	7- SHORT STUB-OUTS
16- LONG LATERALS	3- LONG STUB-OUT

1207 LF - 8" SDR 26 PVC

11- SHORT LATERALS	7- SHORT STUB-OUTS
16- LONG LATERALS	3- LONG STUB-OUT

1207 LF -

## PHASE VI

11- SHORT LATERAL  
16- LONG LATERALS

7- SHORT STUB=0013  
2- LONG STUB OUT

NOTE: SYMBOLS REPRESENTED IN LEGEND MAY NOT ALL BE INCLUDED ON THIS SHEET

PROSPECT FARMS PHASE VI

# SEWER PLAN

MARK MORRIS P.E.

3221 SHELBY DRIVE  
IONESBORO AR 72404

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# MARK MORRIS

DRAWING INFO.	
DRAWN BY:	GMD
DATE:	10/30/2019
SCALE:	1"=50'

SHEET NUMBER:

SW-1

SANITARY SEWER NOTES:

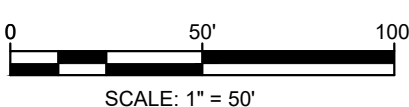
1. CONTRACTOR SHALL PROVIDE WYES OR SUBSTOITS FOR EACH LOT. THEY SHALL BE PLACED ON THE LOW ELEVATION SIDE OF LOT OR IN THE CENTER OF THE LOT IF THE ELEVATION IS FLAT.
2. CONTRACT ENGINEER W/ "AS-BUILT" DIMENSIONS FOR WYES, VALVES, TEES, BENDS, FIRE HYDRANTS, & WATER METERS.
3. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR ALL SEWER, WATER, & ELECTRICAL LINE LATERALS & PROVIDE LABOR & MATERIAL TO BACKFILL ALL SEWER, WATER & ELECTRICAL STREET CUTS WITH SANDY MATERIAL (P1 -15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE MATERIAL COMPACTION TESTS AT 2' INTERVALS. CONTRACTOR SHALL PROVIDE LABOR AND MATERIAL FOR ALL SEWER & WATER LINE MAINS THAT CROSS STREET AND BACKFILL THEM WITH SANDY (P1 -15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE MATERIAL COMPACTION TESTS AT 2' INTERVALS.
4. CONTRACTOR SHALL CALL ANK ONE CALL FOR LOCATES PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL NOTIFY ENGINEER TO DETERMINE ELEVATIONS FOR MANHOLE TOPS, WATERLINE ELEVATION WHERE IT CROSSES PROPOSED STORM DRAINS, WATER METER BOX ELEVATIONS, VALVE BOX ELEVATIONS, AND FIRE HYDRANT ELEVATIONS, AND WATER LINE LOCATION WHEN FINISHED. GRADE SHALL BE INSTALLED AT AN ELEVATION WHERE ELEVATIONS ARE LOCATED TO ENSURE HYDRANT WILL BE AT PROPER HEIGHT AFTER INSHED. WATER LINES HAVE BEEN OBTAINED.
6. CONTRACTOR SHALL PROVIDE OWNER WITH ONE YEAR WARRANTY FOR MATERIALS AND WORKSMANSHIP.
7. CONTRACTOR SHALL PROVIDE ENGINEER WITH LINE RELEASES FOR MATERIALS AND LABOR, BACTERIAL SAMPLE RESULTS, AND MODEL & YEAR OF WATER LINE VALVES WITHIN 30 DAYS OF COMPLETION OF WORK.
8. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES TO THE CONDITION IT AS PRIOR TO BEGINNING CONSTRUCTION. MOUND BACKFILL OVER APPROACHES TO 2' TO ALLOW FOR SETTLE & REPAIR OUT OF THE STREET.
9. ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS DIRECTED BY OWNER.
10. CONTRACTOR SHALL REVIEW DETAIL SHEETS TO ENSURE PROPER INSTALLATION OF VALVES, FIRE HYDRANTS, CONCRETE BLOCKING, SERVICE LINES, MANHOLE INVERTS, AND DRAIN ASSEMBLIES.
11. ALL SEWER LINES SHALL BE ASTM 2241 SDR-26.

13. WATER LINE AND SANITARY SEWER LINE SHALL MAINTAIN 18" MINIMUM SEPARATION. WATER LINE AND STORM DRAIN SHALL MAINTAIN 36" MINIMUM SEPARATION TO PREVENT FREEZING. MAINTAIN 10" HORIZONTAL SEPARATION BETWEEN SEWER AND WATER LINE. WHERE A WATER LINE IS UNAVOIDABLY PASS BEHIND THE SEWER LINE, AT LEAST 10" OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENTS.
14. CONSTRUCTION SHALL BEGIN ONLY AFTER APPROVED PLANS FROM THE ARKANSAS DEPARTMENT OF HEALTH ARE SUBMITTED TO C.W.I., AND ALL NECESSARY FEES ARE PAID IN FULL. CONSTRUCTION BY CONTRACTORS SHALL THEN BEGIN ONLY AFTER THE RIGHT OF WAY HAS BEEN CLEARED, THE ENTIRE SECTION STAKED, THE ELEVATIONS CAREFULLY CHECKED, AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD. A POST CONSTRUCTION MEETING WILL BE HELD BY CONTRACTOR PRESENT TO VERIFY ALL CONSTRUCTION IS ACCEPTABLE. TO C.W.I. PRIOR TO THE INSTALLATION OF ELECTRICAL WIRE.
15. DEATH BENEFIT SHALL BE \$25,000 PER YEAR OF AGE/VEHICLE (ARKANSAS WORKERS COMPENSATION \$1,000,000 MINIMUM MINIMUM GENERAL LIABILITY, AND \$1,000,000 MINIMUM AUTO LIABILITY) CONTRACTOR MUST HAVE A STATE CONTRACTORS LICENSE. CONTRACTOR MUST HAVE A COMPETENT PERSON AT THE JOB SITE AS DEFINED BY OSHA.
16. DURING CONSTRUCTION, WORK SHALL BE INSPECTED BY THE DEVELOPER'S CONSULTING ENGINEER FOR NECESSARY SAFETY PRECAUTIONS, PROPER MATERIALS, AND WORKSMANSHIP. C.W.I. WILL PROVIDE RANDOM INSPECTIONS TO INSURE THAT THE PLANS APPROVED BY THE ARKANSAS DEPARTMENT OF HEALTH AND C.W.I. ARE FOLLOWED CONCERNING ENCASEMENTS AND MATERIALS.
17. IF SEWER AND WATER LINES HAVE NOT BEEN ACCEPTED BY C.W.I. WITHIN 300 DAYS AFTER MANHOLE TESTS, LOW PRESSURE AIR TESTS, HYDROSTATIC TESTS AND BACTERIAL TESTS, ALL TESTS WILL BE REQUIRED TO BE REPEATED AND RE-CERTIFIED.
18. C.W.I. ENGINEERING DEPT. MUST APPROVE ANY WATER OR SEWER LINES THAT WILL BE INSTALLED CLOSER THAN 5' PARALLEL WITH EDGE OF PAVED STREET SURFACE.
19. REPAIRS SHALL BE MADE IN ACCORDANCE WITH AWWA.
20. ALL SEWER WYES & STUBOUTS SHALL BE EXTENDED ACROSS STREETS TO THE APPROPRIATE LOT LINES. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL LOTS HAVE A SEWER SERVICE.

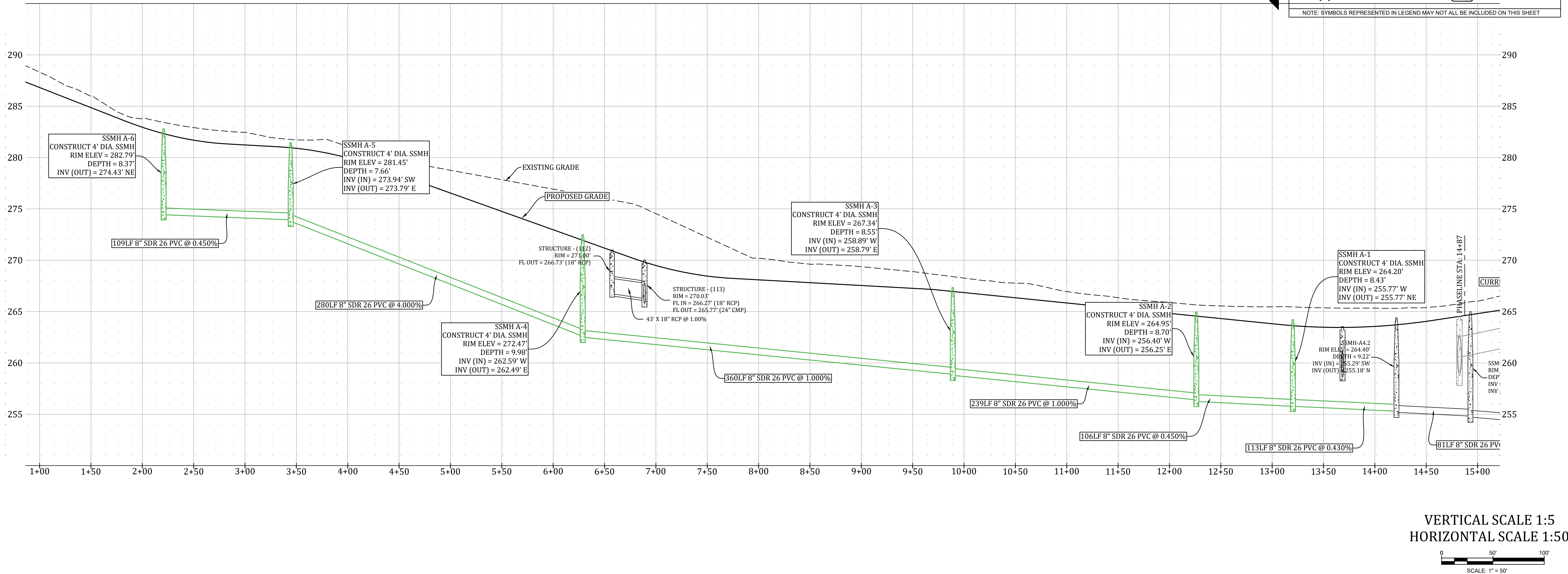
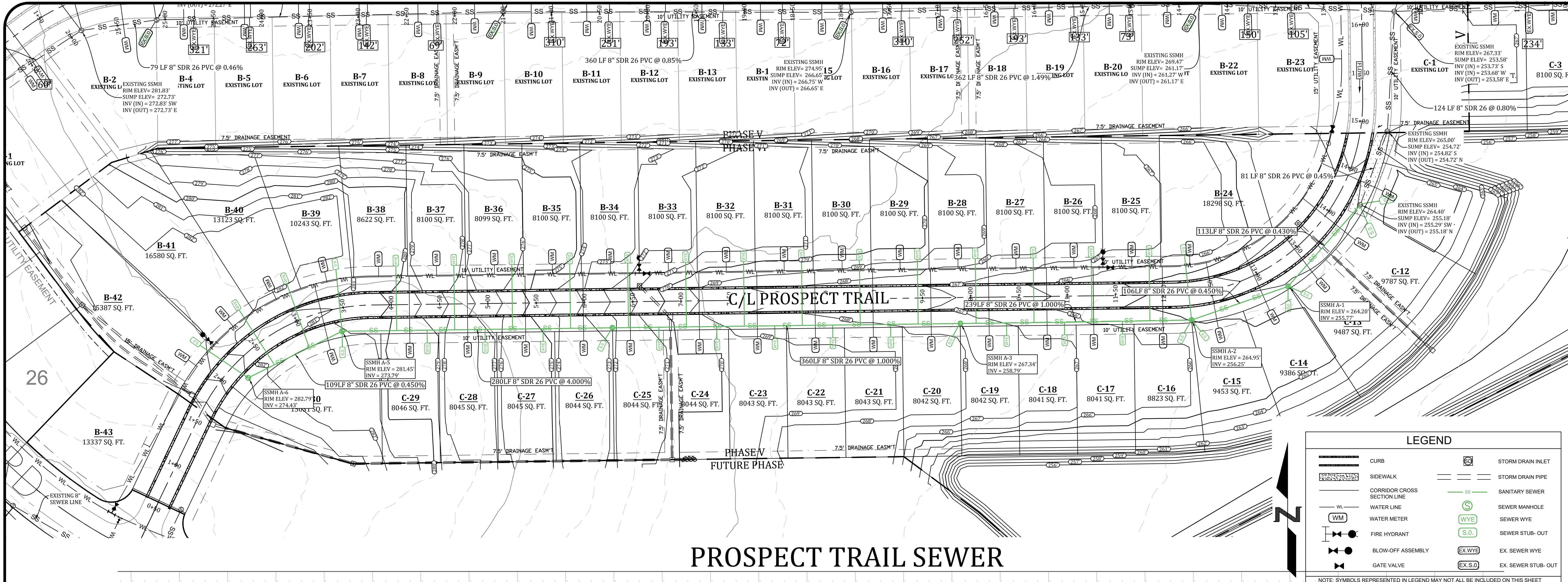
**TRENCH SETTLEMENT NOTE:**  
CITY WATER & LIGHT IS NOT RESPONSIBLE FOR ANY SETTLEMENT OVER WATER  
& SEWER TRENCHES THAT OCCURS BEFORE OR AFTER THE WARRANTY PERIOD.

ALL SEWER WYES SHALL BE A MINIMUM OF 10' FOOT AWAY FROM  
PROPERTY CORNERS.

NOTE: IF UNSAFE PRACTICES ARE DISCOVERED BY CWL DURING OUR INSPECTIONS OF WORKMANSHIP AND MATERIALS, CWL WILL NOTIFY THE OSHA. THIS NO WAY OBLIGATES CWL FOR THE RESPONSIBILITY OF THE CONTRACTORS SAFETY PRACTICES.







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**PROSPECT FARMS PHASE VI**

**SEWER PLAN & PROFILE**

**REVISIONS**

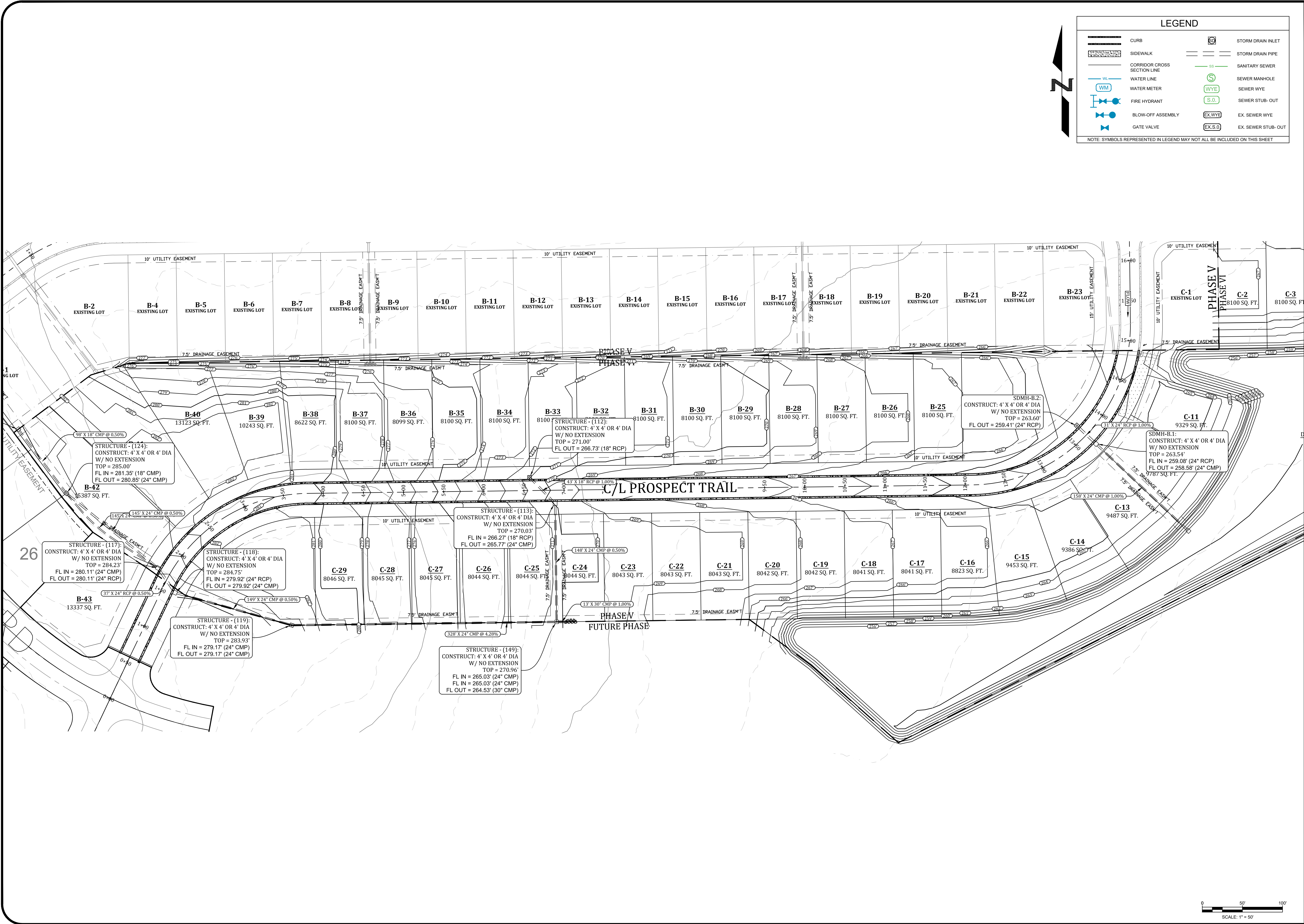
DATE	BY	DESCRIPTION

**DRAWING INFO.**

DRAWN BY:	GMD
DATE:	10/30/2019
SCALE:	1"=50'

**SHEET NUMBER:**  
**SW-2**





MARK MORRIS P.E.  
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MARK MORRIS

PROSPECT FARMS PHASE VI

GRADING & DRAINAGE

STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
No. 13212  
MARK B. MORRIS

REVISIONS

DATE	BY	DESCRIPTION

DRAWING INFO.

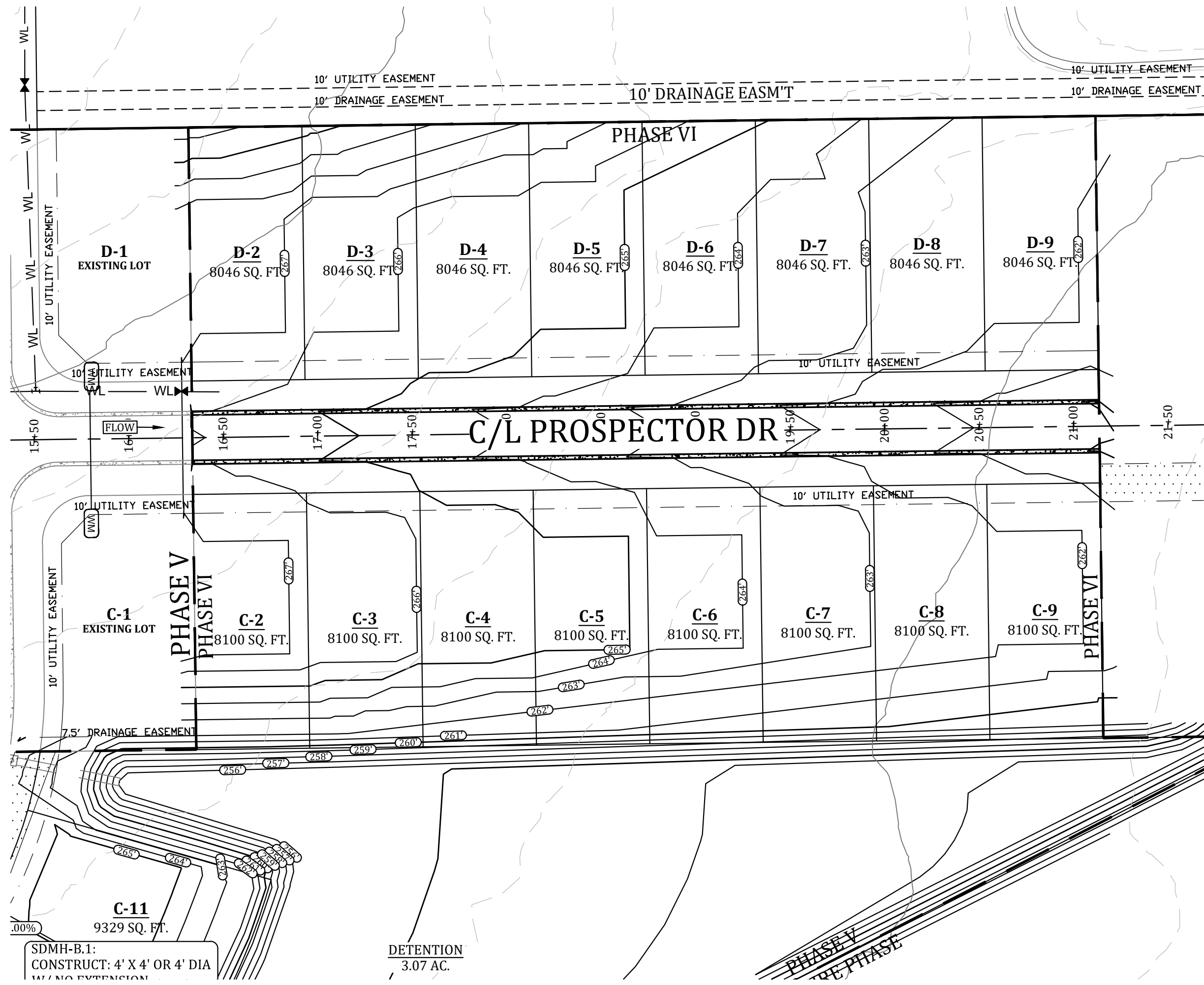
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SHEET NUMBER:

GR-1

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LEGEND			
	CURB		STORM DRAIN INLET
	SIDEWALK		STORM DRAIN PIPE
	CORRIDOR CROSS SECTION LINE		SANITARY SEWER
	WATER LINE		SEWER MANHOLE
	WATER METER		SEWER WYE
	FIRE HYDRANT		SEWER STUB-OUT
	BLOW-OFF ASSEMBLY		EX. SEWER WYE
	GATE VALVE		EX. SEWER STUB-OUT
NOTE: SYMBOLS REPRESENTED IN LEGEND MAY NOT ALL BE INCLUDED ON THIS SHEET			

PROSPECT FARMS PHASE VI

GRADING & DRAINAGE

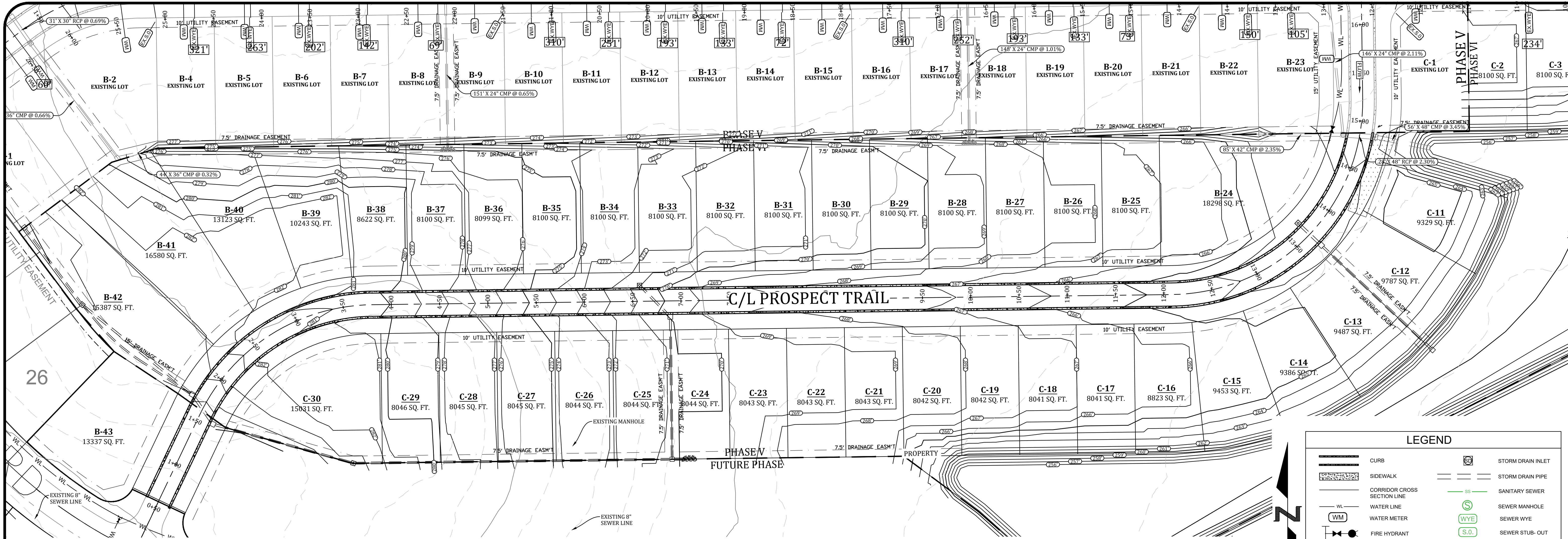


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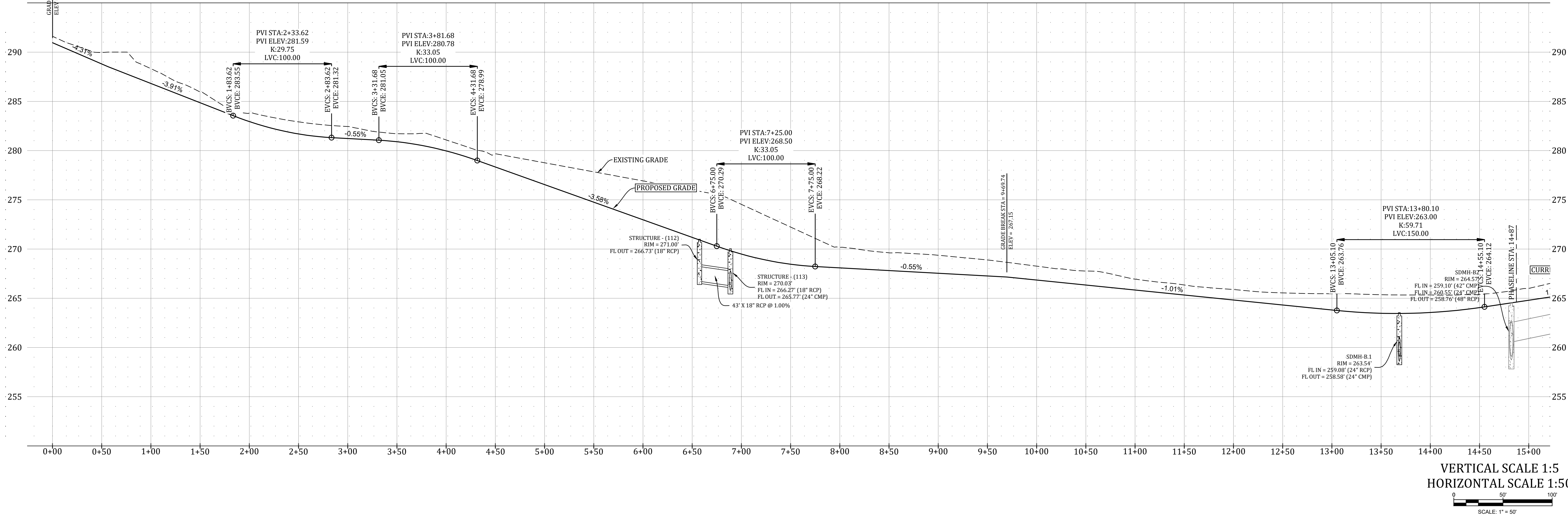


PROSPECT TRAIL

**LEGEND**

	CURB		STORM DRAIN INLET
	SIDEWALK		STORM DRAIN PIPE
	CORRIDOR CROSS SECTION LINE		SANITARY SEWER
	WATER LINE		SEWER MANHOLE
	WATER METER		SEWER WYE
	FIRE HYDRANT		SEWER STUB-OUT
	BLOW-OFF ASSEMBLY		EX. SEWER WYE
	GATE VALVE		EX. SEWER STUB-OUT

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PROSPECT FARMS PHASE VI

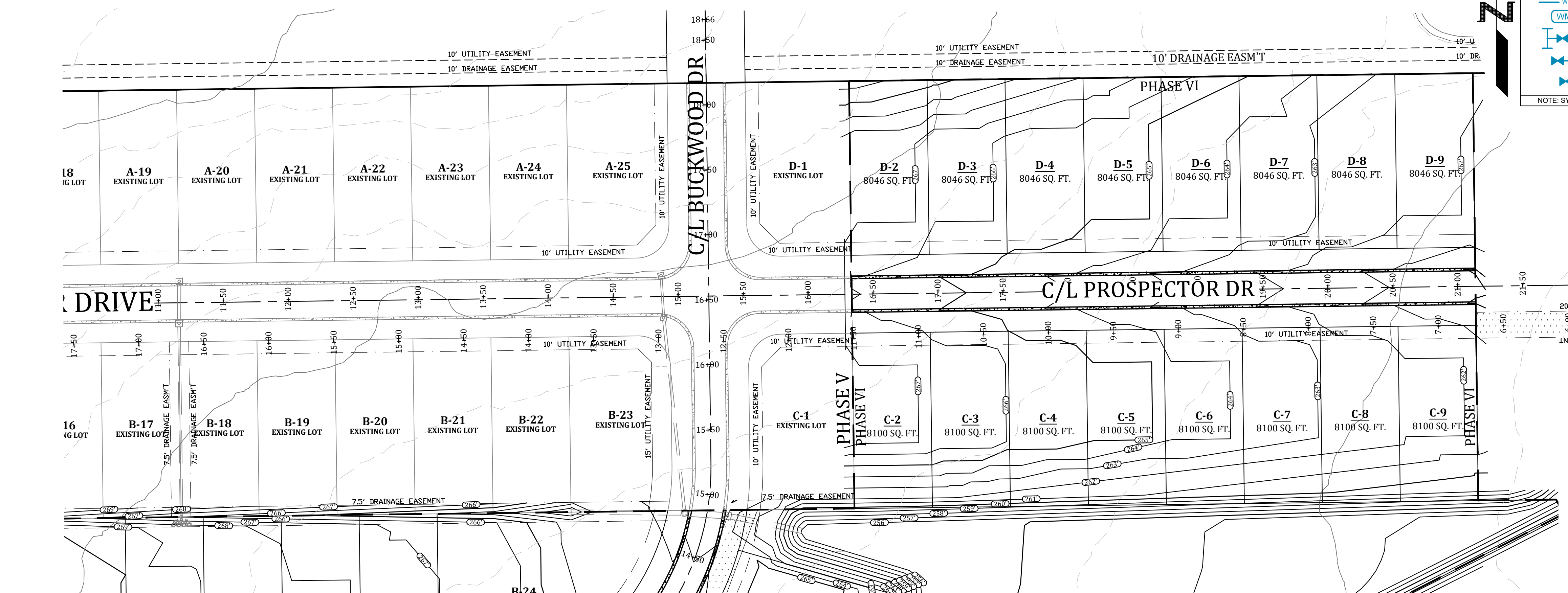
STREET PLAN & PROFILE

REVISIONS		
DATE	BY	DESCRIPTION

DRAWING INFO.	
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DATE:	10/30/2019
SCALE:	1"=50'

SHEET NUMBER:  
**ST-1**





LEGEND

CURB

SIDEWALK

CORRIDOR CROSS SECTION LINE

WATER LINE

WATER METER

FIRE HYDRANT

BLOW-OFF ASSEMBLY

GATE VALVE

STORM DRAIN INLET

STORM DRAIN PIPE

SANITARY SEWER

SEWER MANHOLE

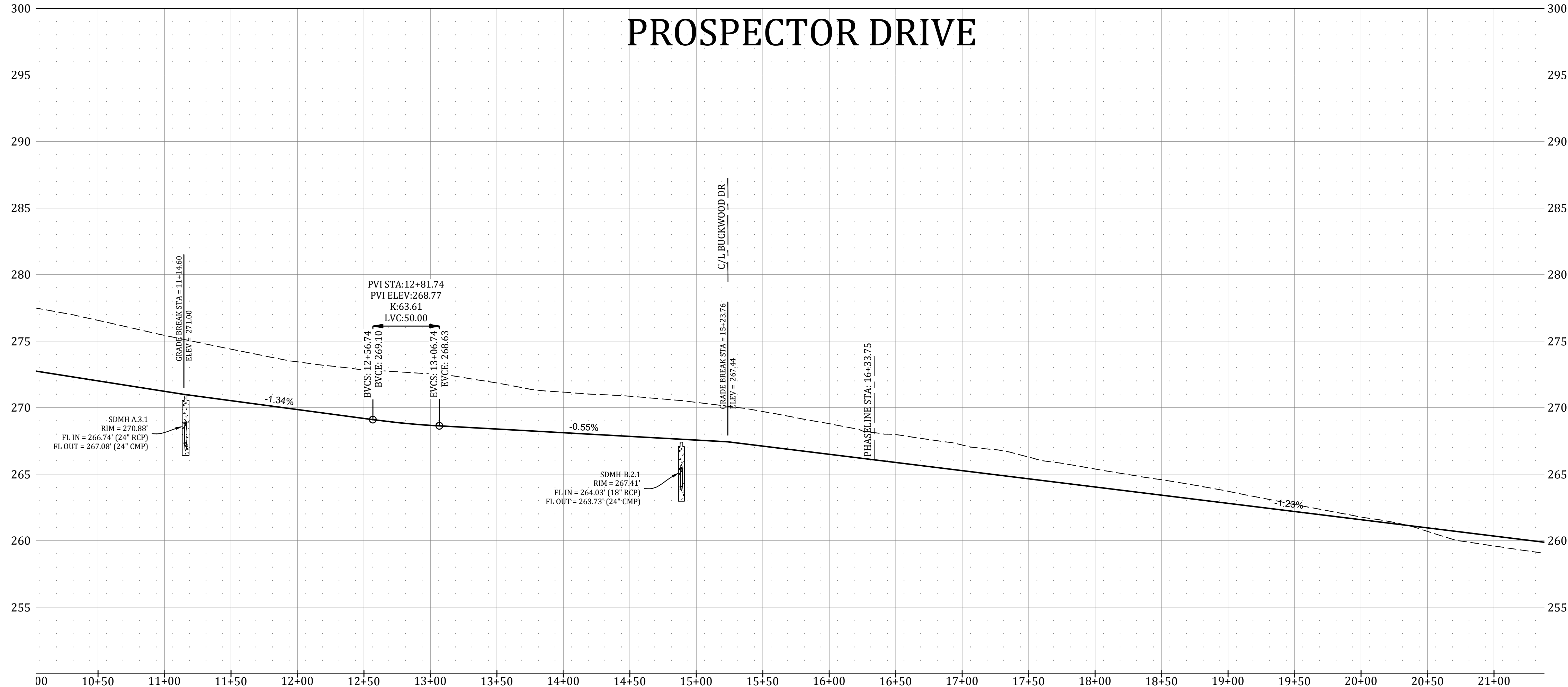
SEWER WYE

SEWER STUB-OUT

EX. SEWER WYE

EX. SEWER STUB-OUT

NOTE: SYMBOLS REPRESENTED IN LEGEND MAY NOT ALL BE INCLUDED ON THIS SHEET



VERTICAL SCALE 1:5  
HORIZONTAL SCALE 1:50

0 50 100  
SCALE: 1" = 50'

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PROSPECT FARMS PHASE VI

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REVISIONS

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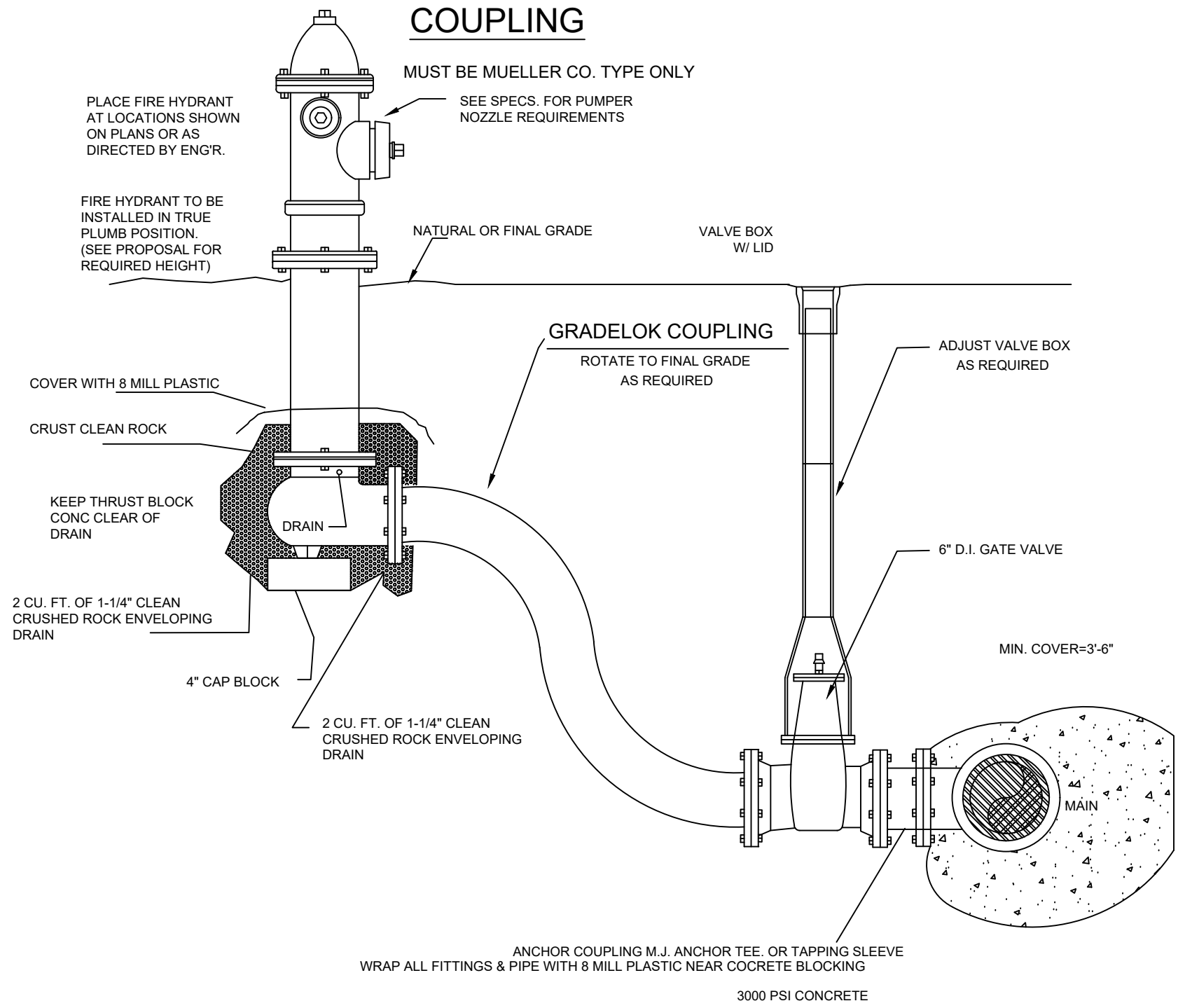
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ST-2

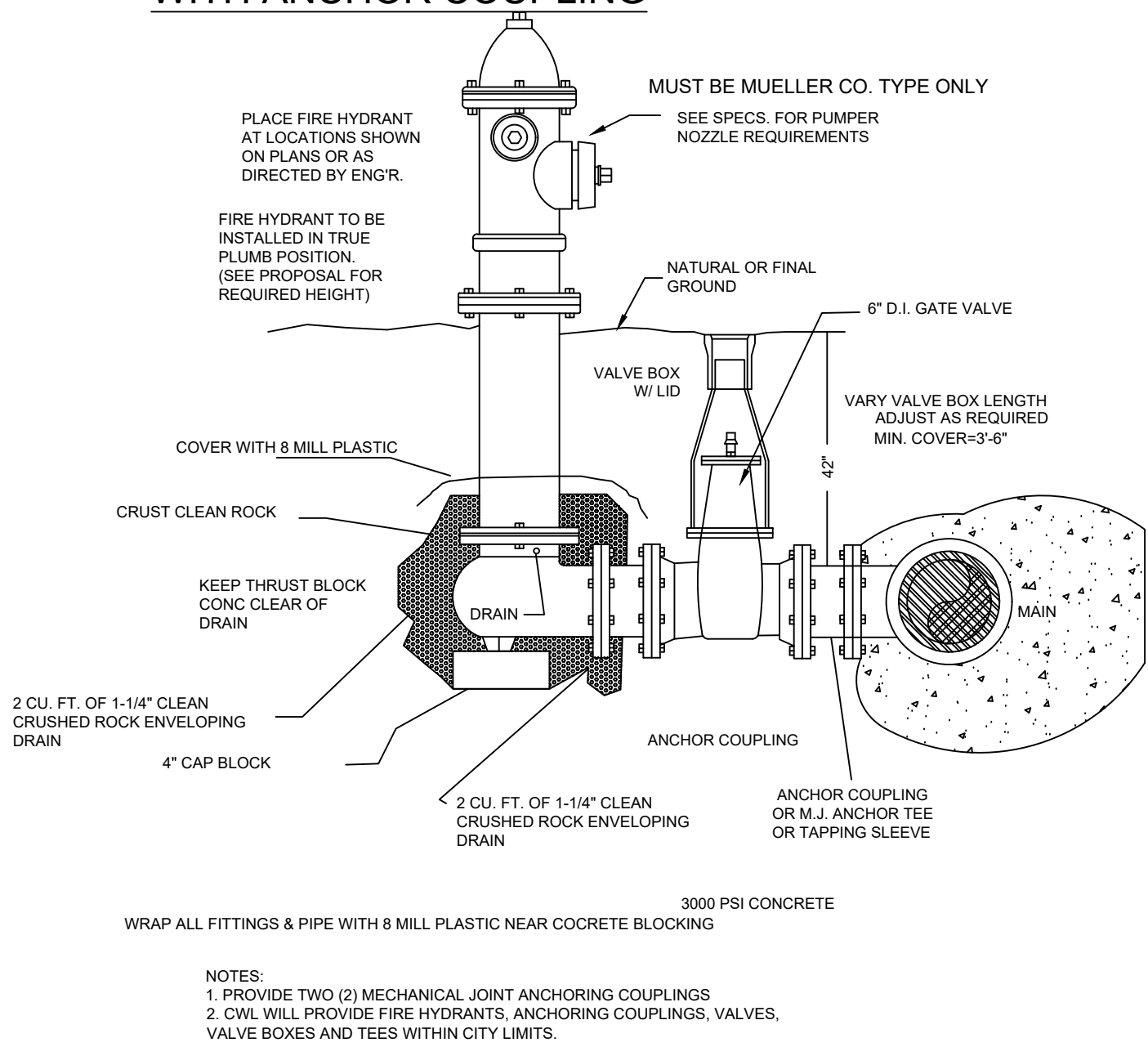


FIRE HYDRANT DETAIL  
WITH GRADELOK  
COUPLING



TYPICAL FIRE HYDRANT LOCATION  
ALONG HWY. RIGHT-OF-WAY

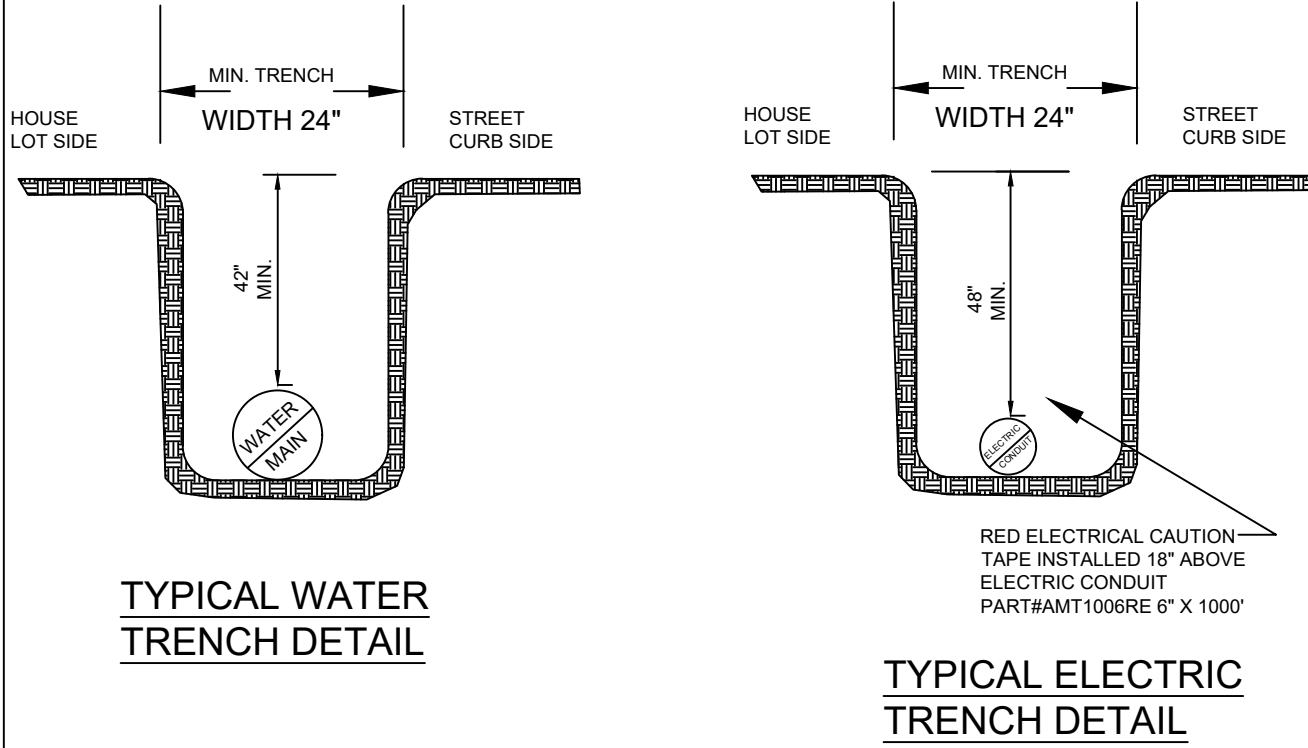
FIRE HYDRANT DETAIL  
WITH ANCHOR COUPLING



TYPICAL FIRE HYDRANT  
LOCATION

RADIUS OF CURVATURE FOR BENDING OF PIPE  
AROUND CURVES OR IN COVES SHALL NOT  
EXCEED THAT OF THE RECOMMENDATIONS OF  
THE PIPE MANUFACTURER OR REFER TO THE  
PVC PIPE HANDBOOK.

PIPE SIZE (inches)	LENGTH (feet)	MIN. BENDING RADIUS (feet)
(DR 21) 2"	20	60
(DR 21) 3"	20	60
(DR 18) 4"	20	100
(DR 18) 6"	20	144
(DR 18) 8"	20	189
(DR 18) 10"	20	231
(DR 18) 12"	20	275
(DR 35) 4"	12.5 or 20	54.9
(DR 35) 6"	12.5 or 21	81.6
(DR 35) 8"	12.5 or 22	109
(DR 35) 10"	12.5 or 23	137
(DR 35) 12"	12.5 or 24	163
(DR 35) 15"	12.5 or 25	199

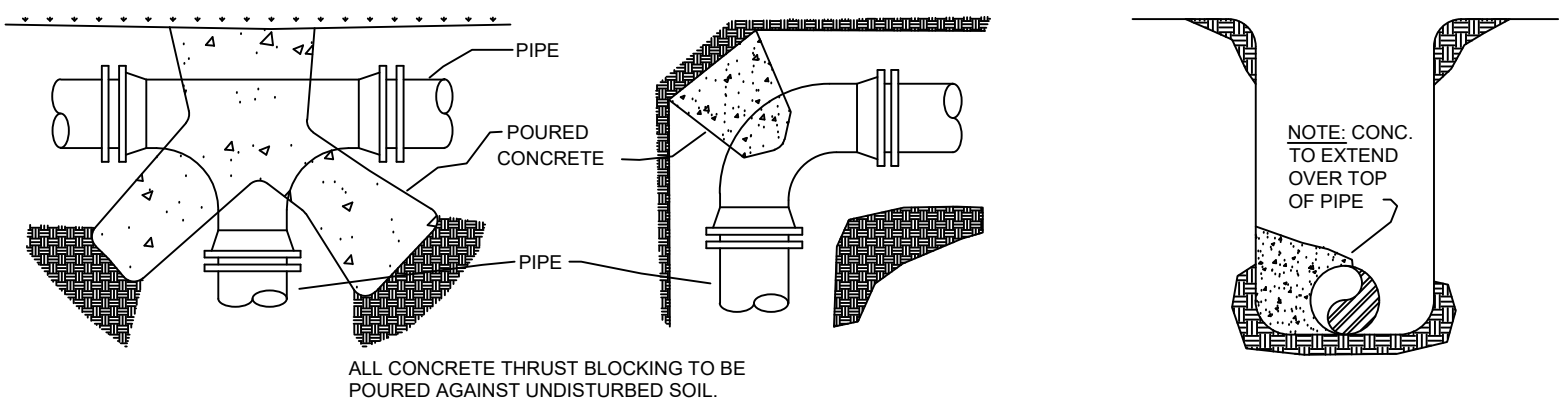


TYPICAL WATER PIPE BEDDING  
AND BACKFILL DETAIL

TYPICAL WATER  
TRENCH DETAIL

TYPICAL ELECTRIC  
TRENCH DETAIL

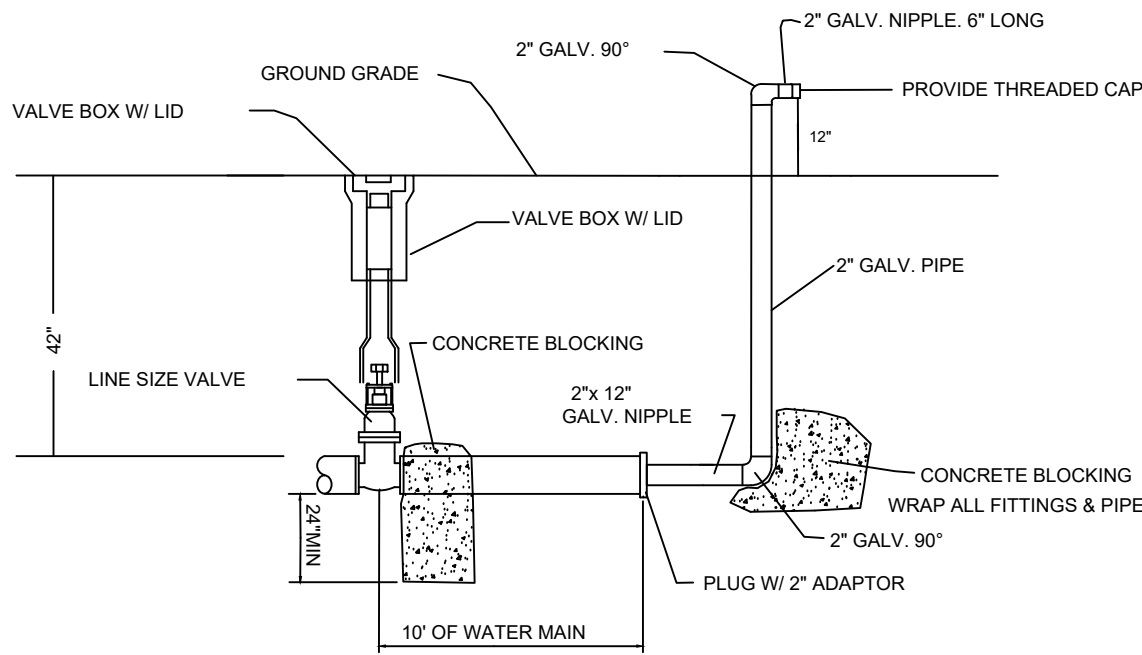
WATERLINE PIPE BEND THRUST BLOCK AREA		
SIZE & BEND DEGREE	STATIC THRUST (LB)	BLOCKING AREA (FT <sup>2</sup> )
4" - 22 1/2°	1103	1
4" - 45°	2164	2
4" - 90°/TEE/PLUG	3998	4
6" - 22 1/2°	2482	2.5
6" - 45°	4867	5
6" - 90°/TEE/PLUG	8997	9
8" - 22 1/2°	4413	4.5
8" - 45°	8656	8.5
8" - 90°/TEE/PLUG	15994	16



THRUST BLOCK DETAILS

- NOTES:
1. ALL BLOCKING SHALL BE AGAINST UNDISTURBED HAND DUG SOIL.
  2. WHERE SOIL CONDITIONS MAKE IT NECESSARY TO POUR CONCRETE BLOCKING OVER JOINTS, THE ENDS OF THE ADJACENT PIPES MUST HAVE A BRACE BLOCK TO RESIST MOVEMENT OF THESE JOINTS.
  3. ALL FITTINGS & PIPE SHALL BE COVERED WITH 8 MILL PLASTIC WHEN BLOCKING TO PREVENT BONDING OF CONCRETE.
  4. WHERE SHEAR IS HIGH PROPER REINFORCING MUST BE INSTALLED INTO THE BLOCKING AS DIRECTED BY ENGINEER.
  5. COVER SHALL BE A MINIMUM OF 3\"/>

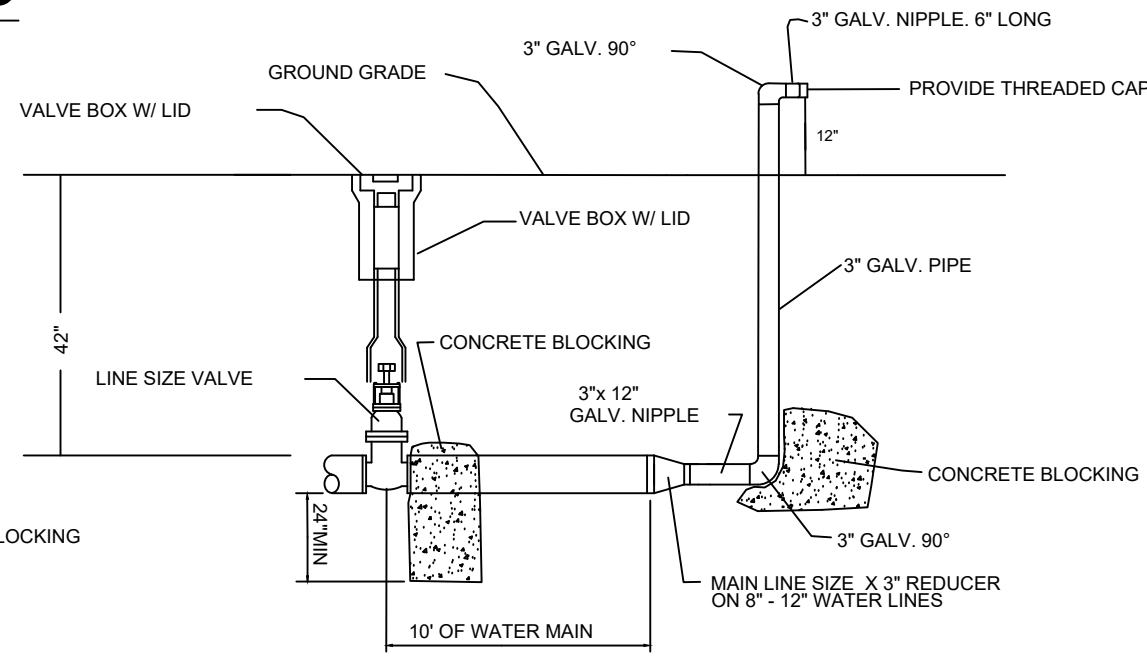
BLOW-OFF ASSEMBLY DETAILS



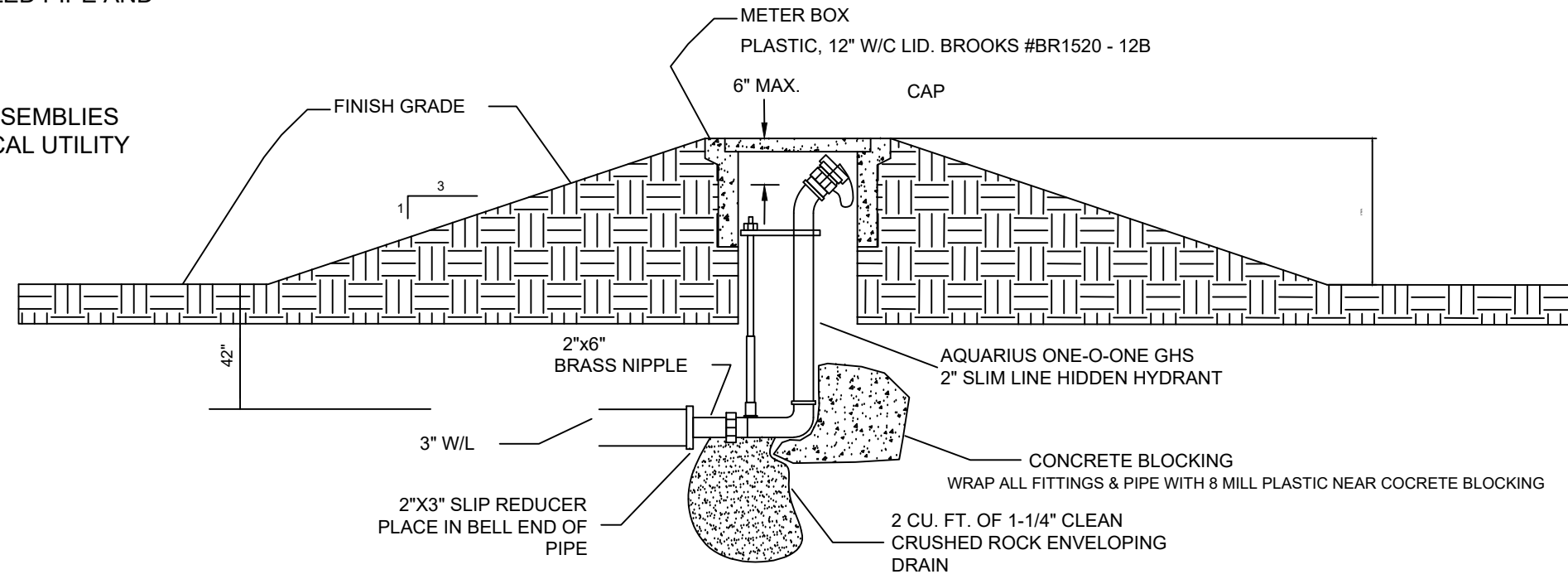
2" B.O. ASSEMBLY  
FOR 2" THRU 6" LINES  
WITH FUTURE EXPANSION

NOTE: ALL 2", OR 3" GALVANIZED PIPE AND  
FITTINGS ARE TO BE SCH 40

NOTE: OTHER BLOW-OFF ASSEMBLIES  
MUST BE APPROVED BY LOCAL UTILITY  
COMPANY



3" B.O. ASSEMBLY  
FOR 8" THRU 12" LINES  
WITH FUTURE EXPANSION

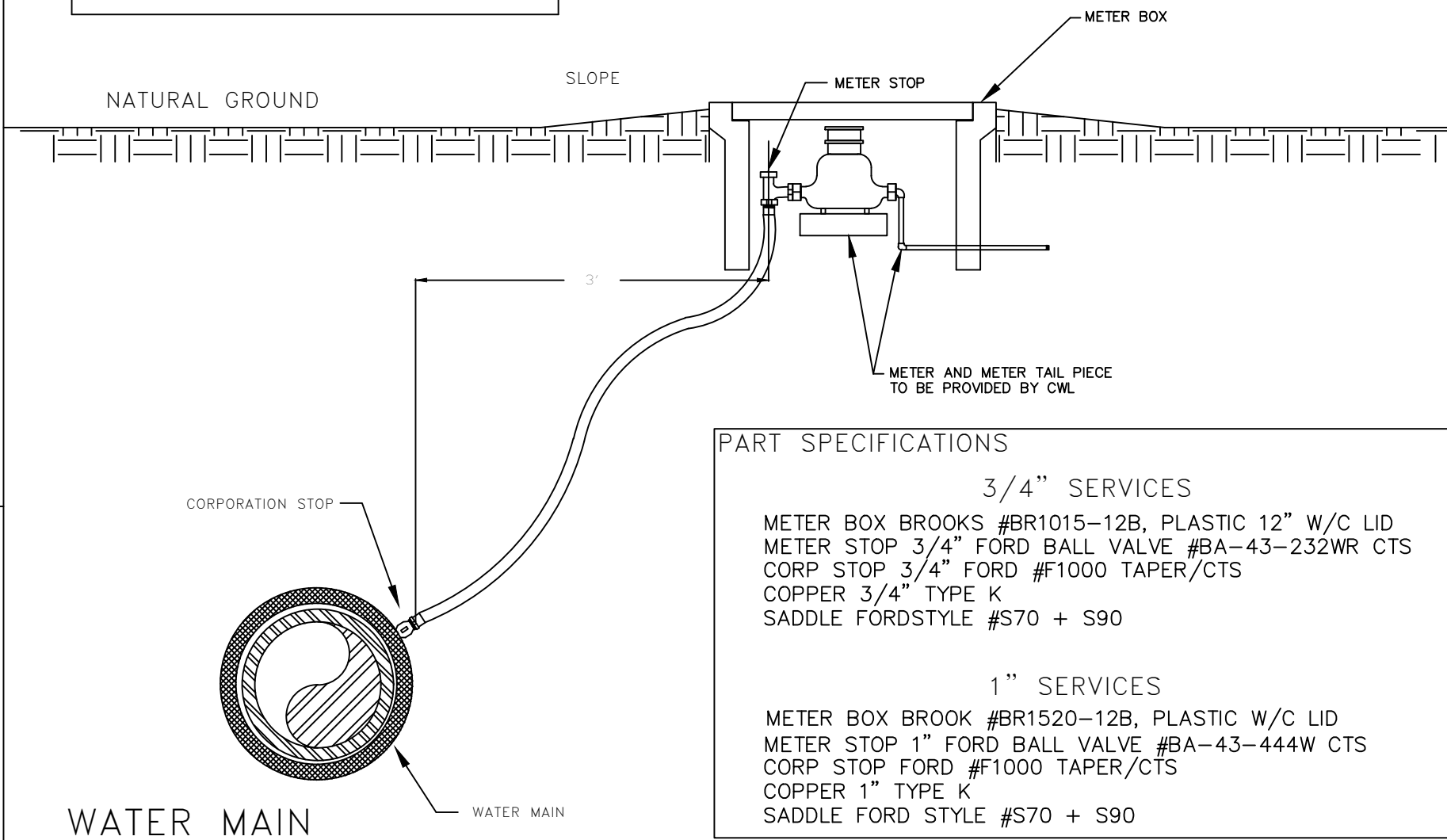


UNDERGROUND WASHOUT ASSEMBLY  
FOR COVES AND DEAD END LINES WITH  
NO FUTURE EXTENSION

SERVICE CONNECTION AND METER SETTING

NOTE: ONLY 3/4" SERVICES TO BE USED OUTSIDE CITY LIMITS  
NOTE: 1" SERVICES TO BE USE WHEN WATER PRESSURE IS BELOW 60 PSI

UNDERGROUND SERVICE LINE  
MINIMUM REQUIREMENTS  
CITY WATER AND LIGHT PLANT



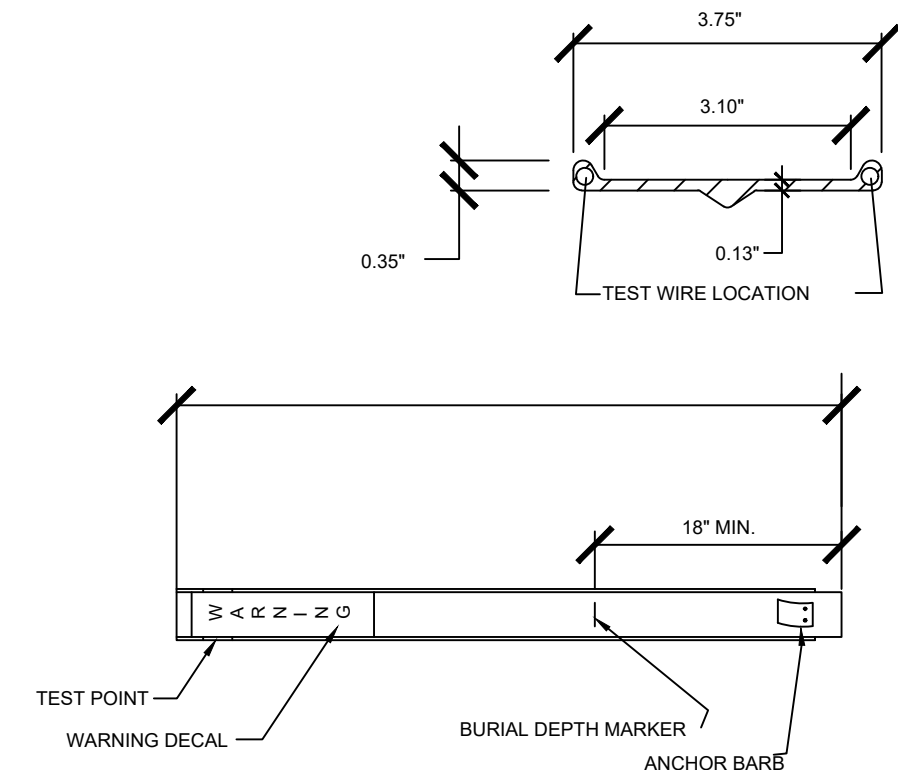
PART SPECIFICATIONS

3/4" SERVICES  
METER BOX BROOKS #BR1015-12B, PLASTIC 12" W/C LID  
METER STOP 3/4" FORD BALL VALVE #BA-43-23WR CTS  
CORP STOP 3/4" FORD #F1000 TAPER/CTS  
COPPER 3/4" TYPE K  
SADDLE FORDSTYLE #S70 + S90

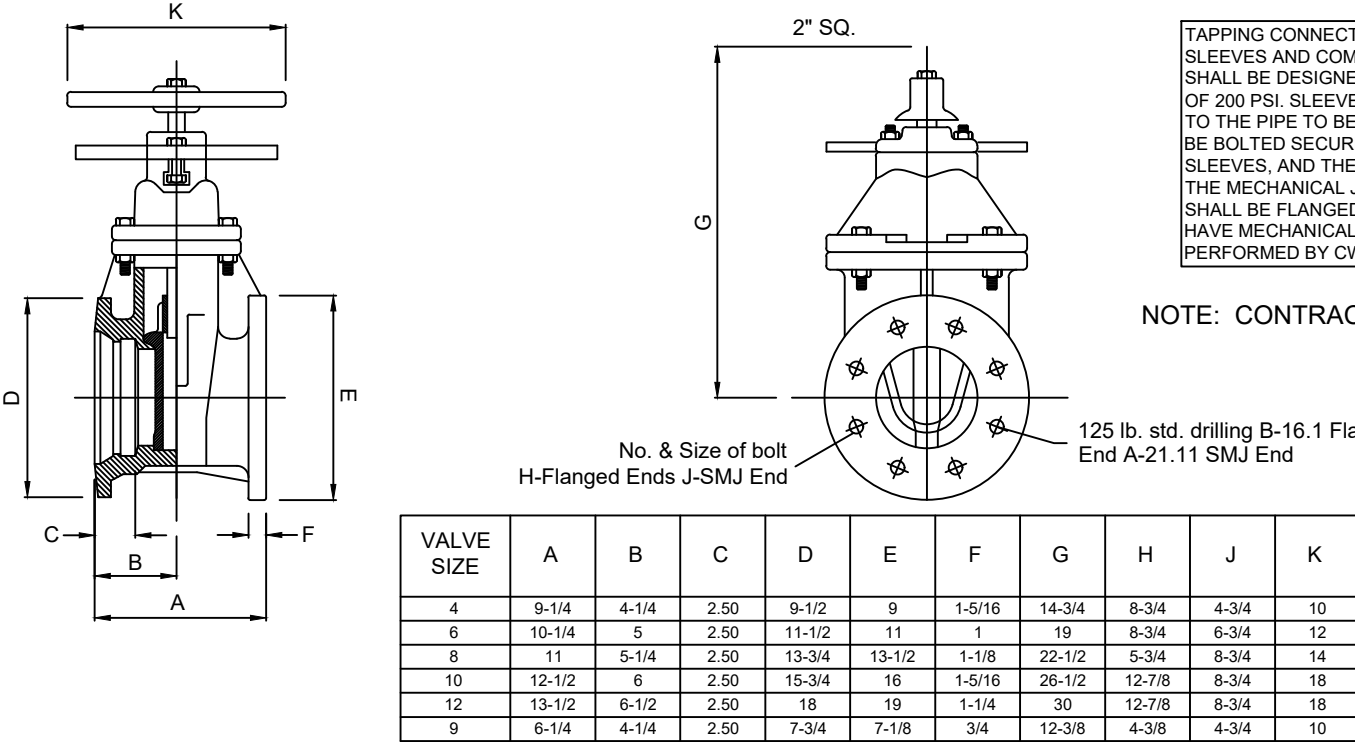
1" SERVICES  
METER BOX BROOK #BR1520-12B, PLASTIC W/C LID  
METER STOP 1" FORD BALL VALVE #BA-43-444W CTS  
CORP STOP FORD #F1000 TAPER/CTS  
COPPER 1" TYPE K  
SADDLE FORD STYLE #S70 + S90

TAPPING CONNECTIONS SHALL CONSIST OF TAPPING  
SLEEVES AND COMPANION TAPPING VALVES. THEY  
SHALL BE DESIGNED FOR WORKING WATER PRESSURE  
OF 200 PSI. SLEEVES SHALL BE FASTENED SECURELY  
TO THE PIPE TO BE TAPPED. TAPPING VALVES SHALL  
BE BOLTED SECURELY TO THE FLANGES OF THE  
SLEEVES, AND THE TAPPING MACHINE CONNECTED TO  
THE MECHANICAL JOINT END. THE INLET OPENINGS  
SHALL BE FLANGED AND THE OUTLET OPENINGS SHALL  
HAVE MECHANICAL JOINT ENDS. ALL TAPS WILL BE  
PERFORMED BY CWL.

NOTE: CONTRACTOR TO PURCHASE FROM CWL



WATER LINE & FORCE MAIN  
MARKER DETAIL



TAPPING SLEEVE  
TAPPING VALVE DETAIL

PROSPECT FARMS PHASE VI

WATER DETAILS



REVISIONS

DATE	BY	DESCRIPTION

DRAWING INFO.

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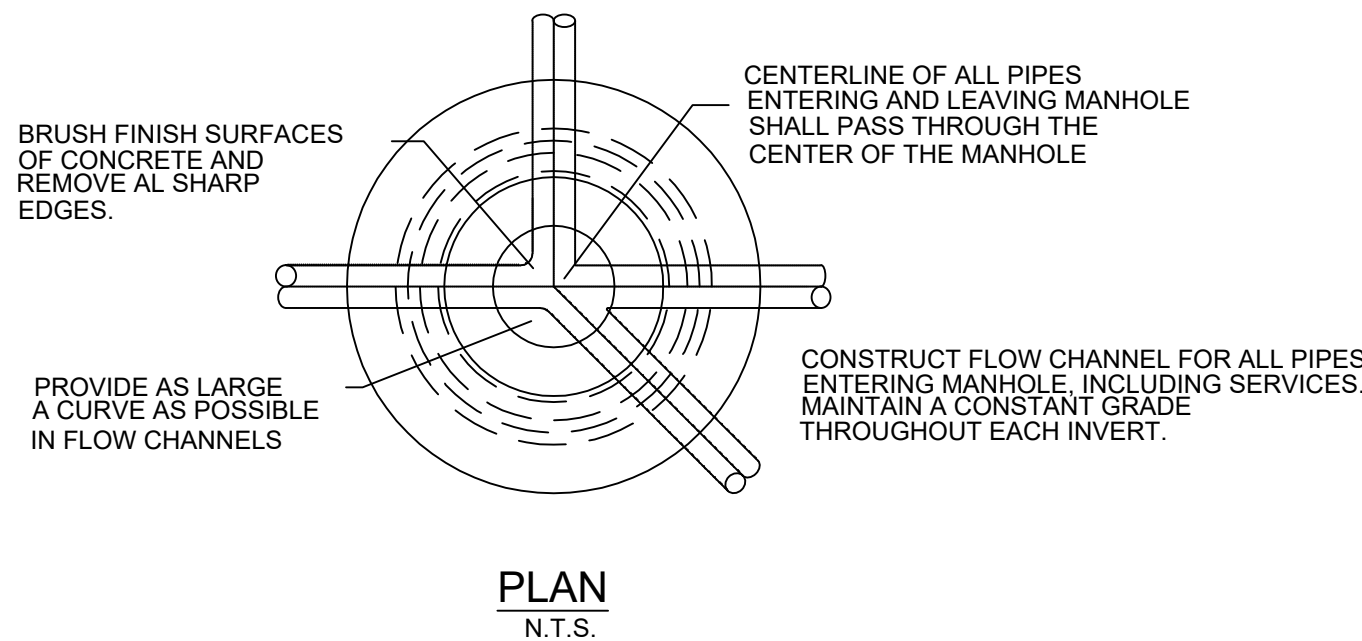
DT-2



NOTES TYPICAL TO ALL MANHOLES

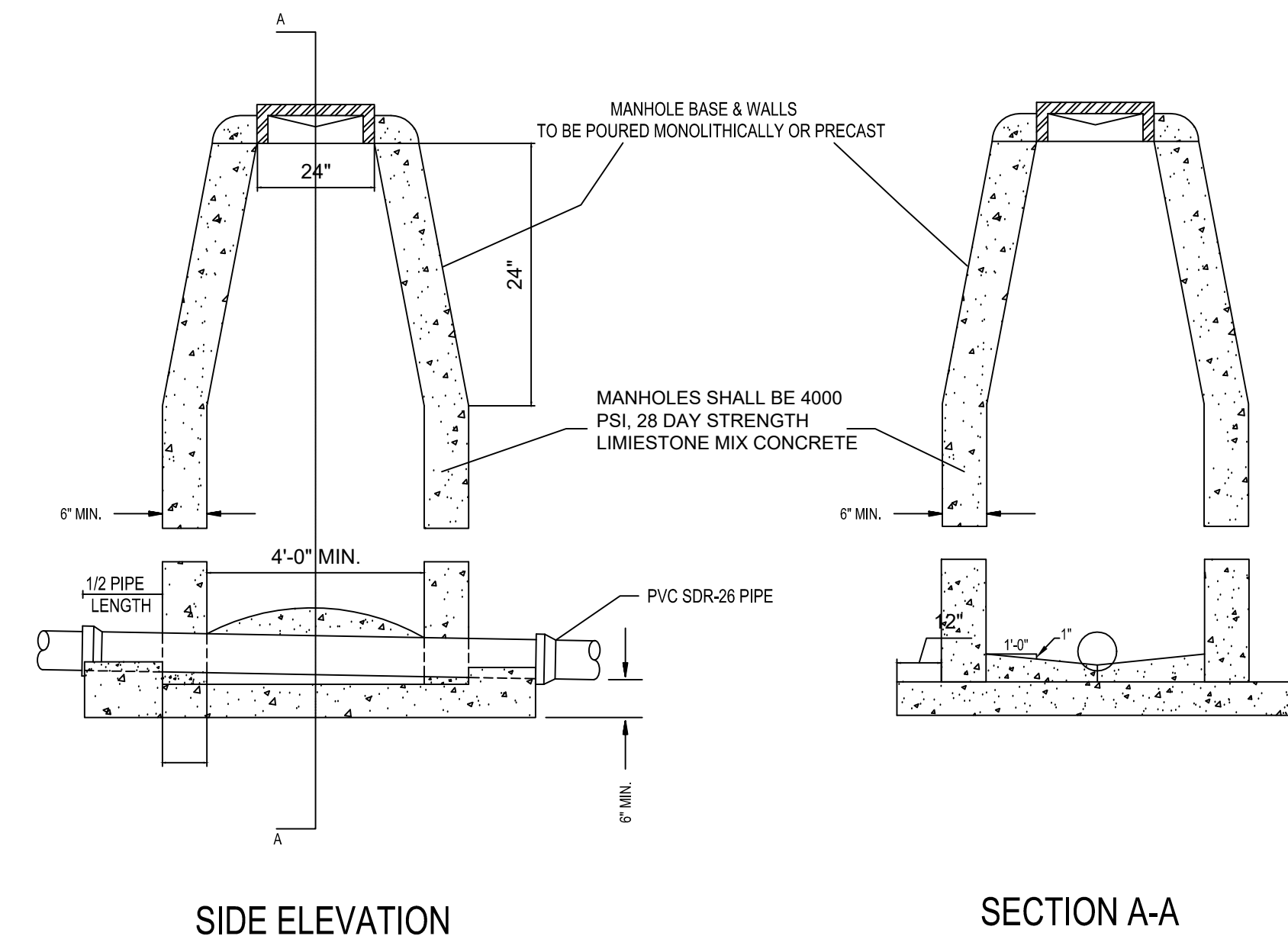
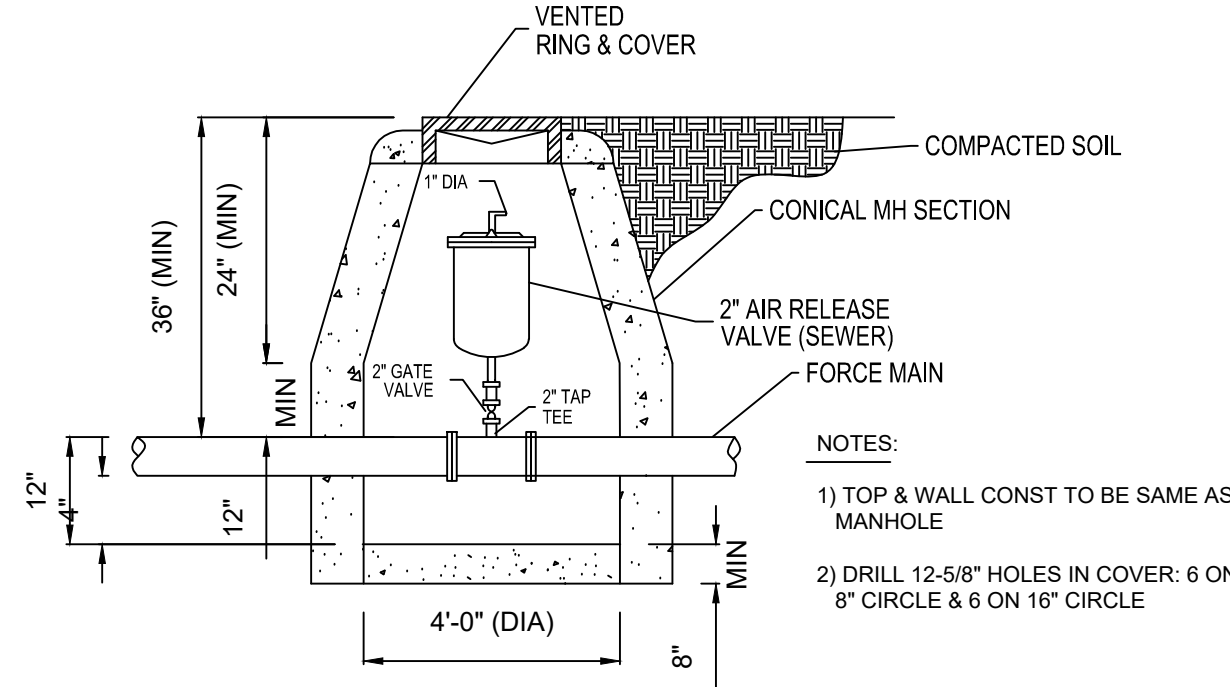
- MANHOLE BASES TO BE 4000 PSI, 28 DAY STRENGTH, LIMESTONE MIX CONCRETE ON UNDISTURBED SUB-GRADE OR ON COMPACTED SELECT FILL MATERIAL AS AUTHORIZED.
- MANHOLE SIDEWALL MATERIAL TO BE CONCRETE IN ACCORDANCE WITH PROPOSAL FORM REQUIREMENTS.
  - 4" I.D. FOR SEWER SIZES 6" THRU 24"
  - 5" I.D. FOR SEWER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

STANDARD MANHOLE



MANHOLE DETAILS

AIR/VACUUM RELEASE VALVE DETAIL

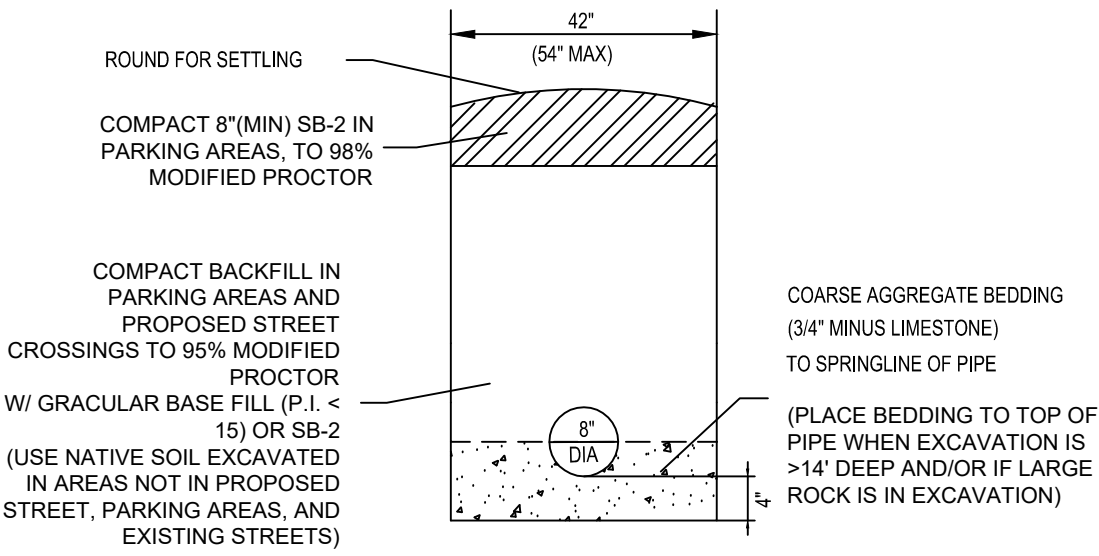


STANDARD MANHOLE

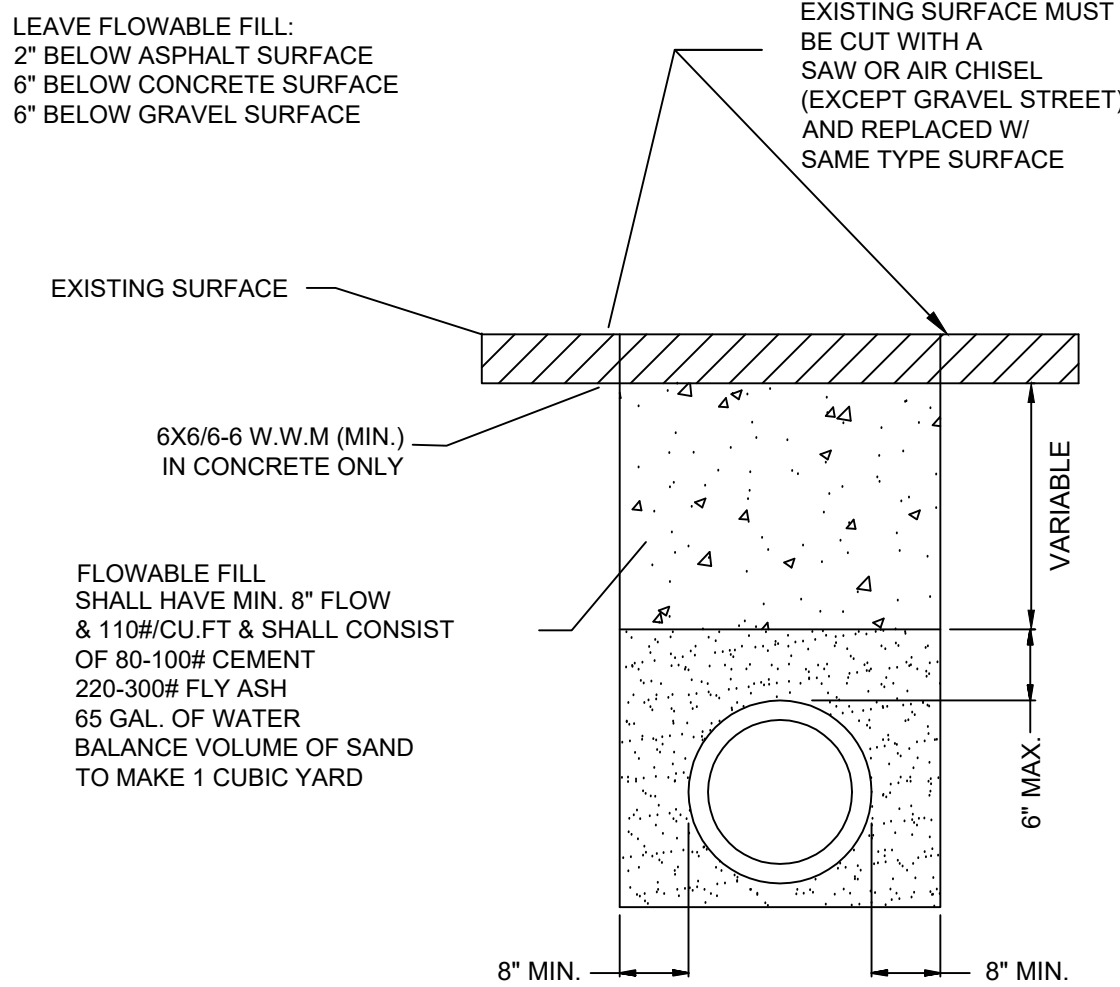
NON-EXISTING STREET LOCATIONS  
SDR-26 PVC TRENCH DETAIL

NOTES:

- COARSE AGGREGATE SHALL BE MECHANICALLY TAMPED WHEN USED.
- 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.
- PVC PIPE SHALL BE SDR-26 AND INSTALLED IN ACCORDANCE WITH UNI-BELL PVC PIPE ASSOCIATION'S RECOMMENDATIONS FOR CONSTRUCTION.



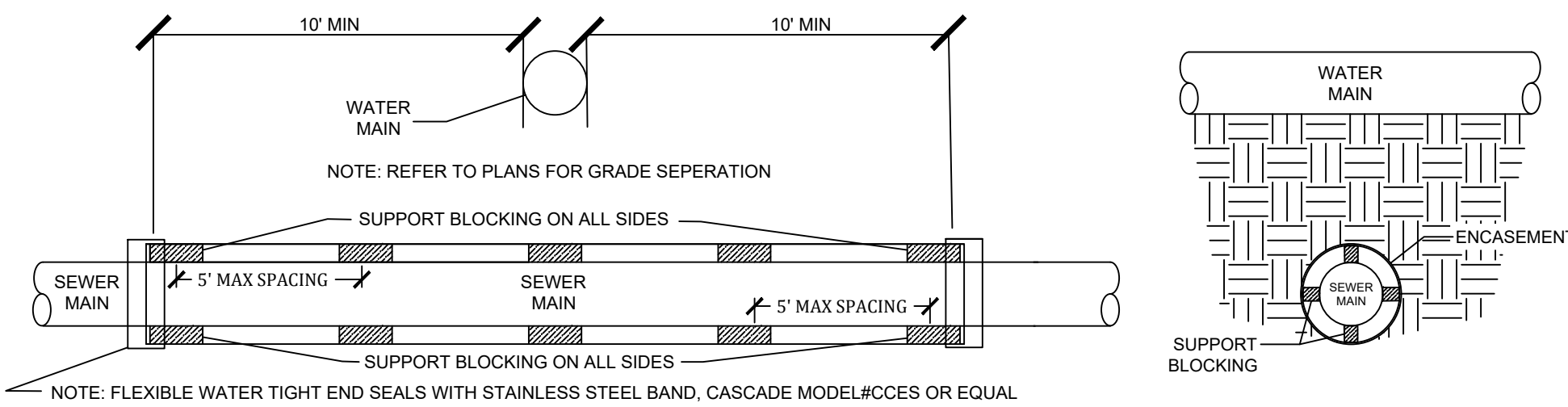
- NOTE: (1) CONTRACTOR SHALL OBTAIN A STREET CROSSING PERMIT FROM THE CITY OF JONESBORO PRIOR TO CUTTING STREET.
- (2) EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR
- (3) THIS REPAIR DETAIL IS REQUIRED FOR ALL EXCAVATION WITHIN 5' OF PAVED EDGE AND ALL TRANSVERSE EXCAVATIONS TO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



EXISTING STREET LOCATIONS

PVC TRENCH DETAIL

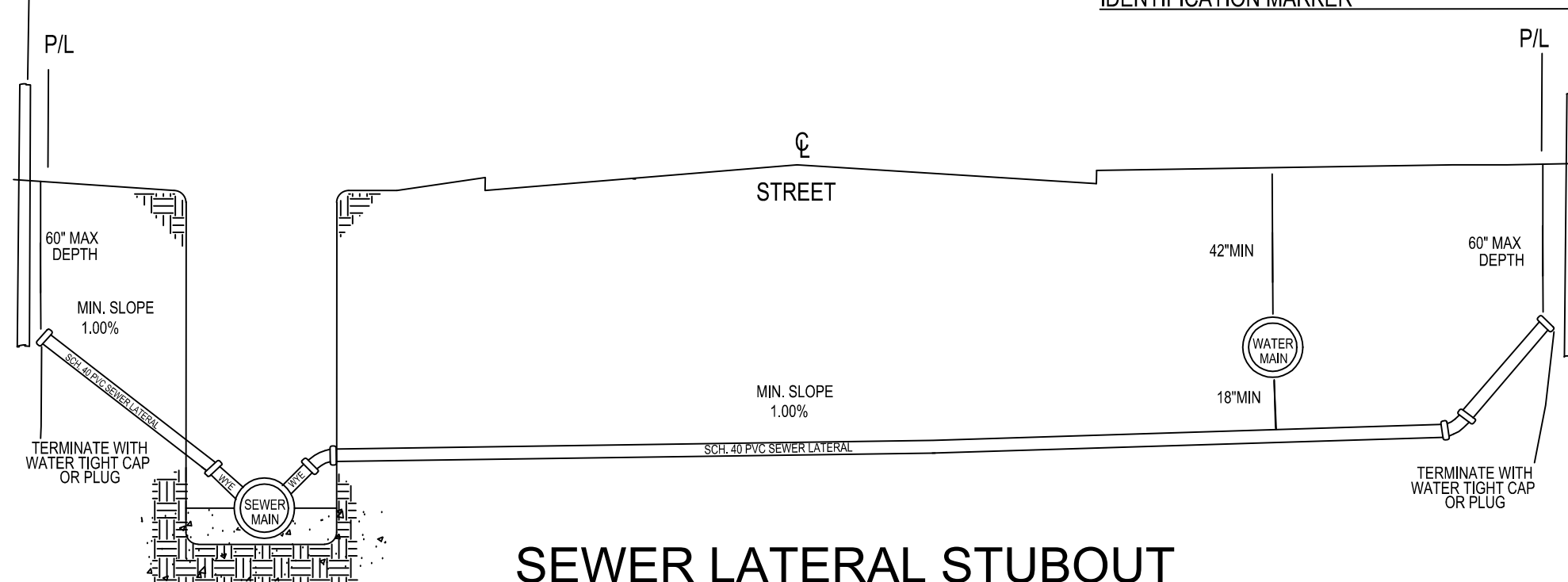
- NOTE: 0.25 THICKNESS STEEL OR SCH 40" PVC ENCASEMENT PIPE SHALL EXTEND 10' MINIMUM EACH SIDE OF WATER MAIN
- NOTE: REFER TO OPERATING ROUTING NOTE IF WATERLINE CANNOT AVOID GOING UNDER SEWERLINE



ENCASEMENT FOR SEWER MAINS AT WATER CROSSINGS

NOTE: WHEN 18" VERTICAL SEPERATION CANNOT BE MAINTAINED

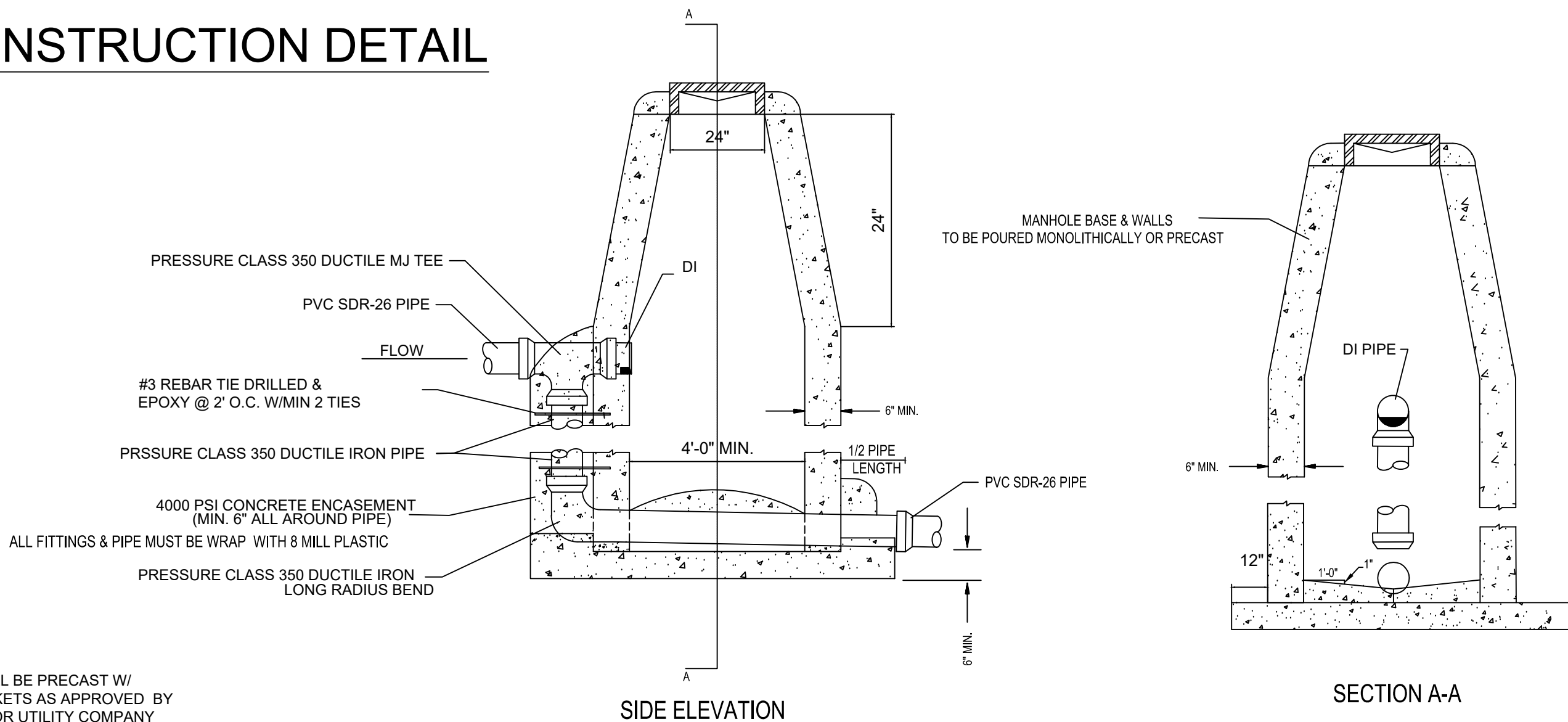
USE 4" PERFORATED SDR-35 PVC PIPE AS MARKERS @ END OF LATERALS 3'-4' ABOVE GROUND PAINTED GREEN FOR IDENTIFICATION MARKER



SEWER LATERAL STUBOUT  
PERMITS REQUIRED BEFORE INSTALLATION

USE SAME CONFIGURATION FOR MANHOLE STUBOUTS

MANHOLE  
CONSTRUCTION DETAIL

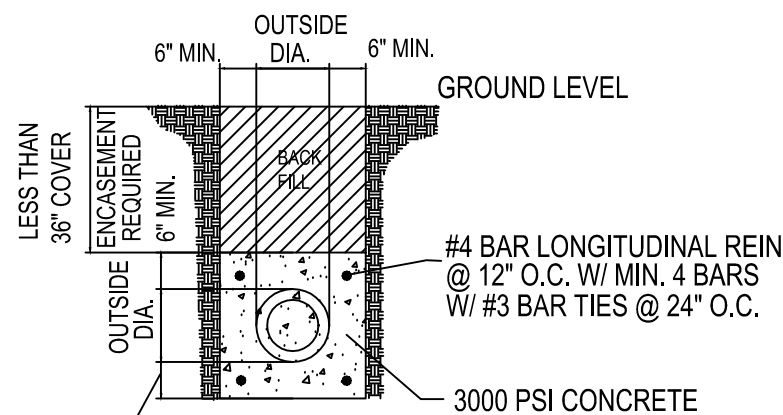
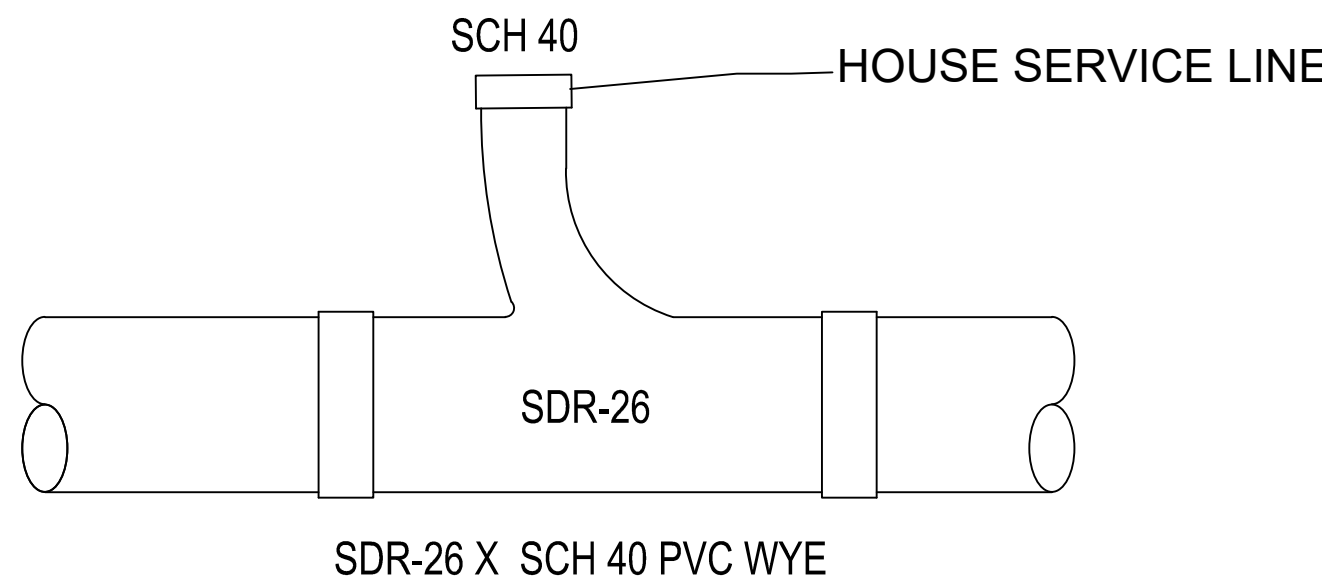


DROP MANHOLE

SINGLE WYE

ALL SERVICE LINES UNDER PAVEMENT SHALL BE PVC SCH 40 PIPE W/ PVC SCH 40 COUPLINGS

TEE WYE ONLY



CONCRETE ENCASEMENT  
FOR  
DITCH CROSSINGS

NOTE: ENCASEMENT PIPE MUST PRESSURE CLASS 350 DUCTILE IRON AND WRAP DUCTILE IRON PIPE WITH 8 MILL PLASTIC

PROSPECT FARMS PHASE VI

SEWER DETAILS

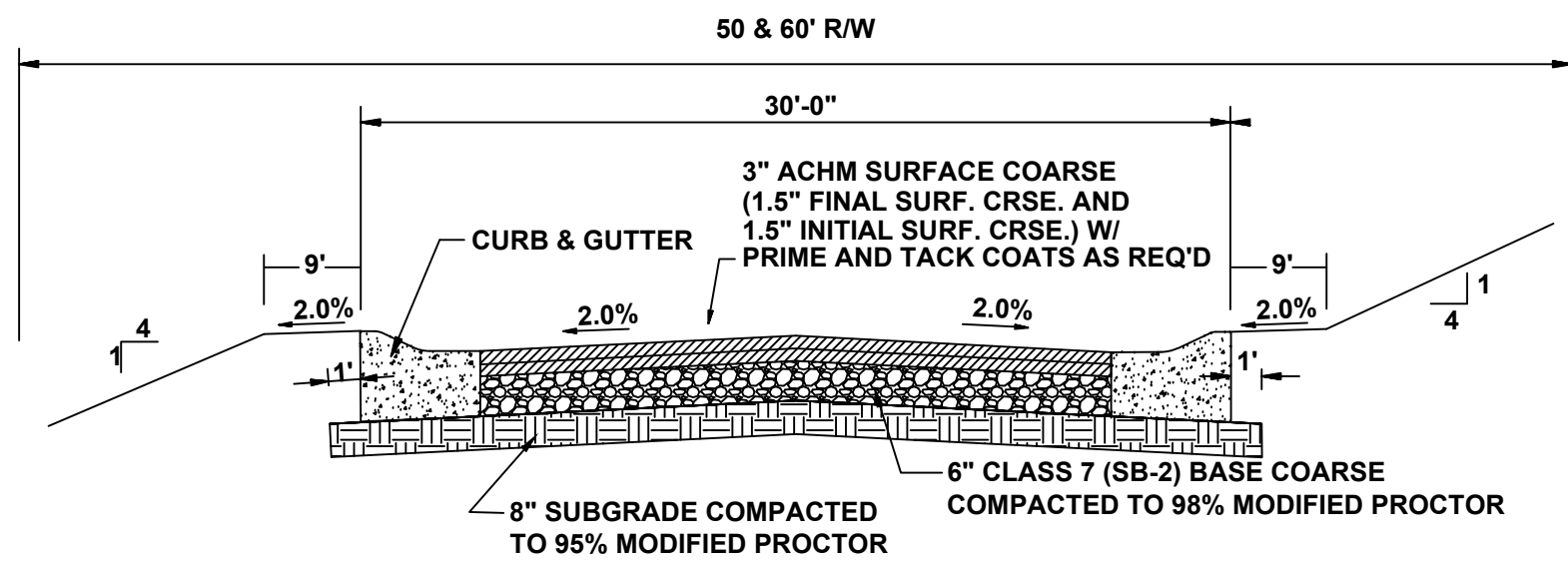


REVISIONS		
DATE	BY	DESCRIPTION
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DATE:		
SCALE:		

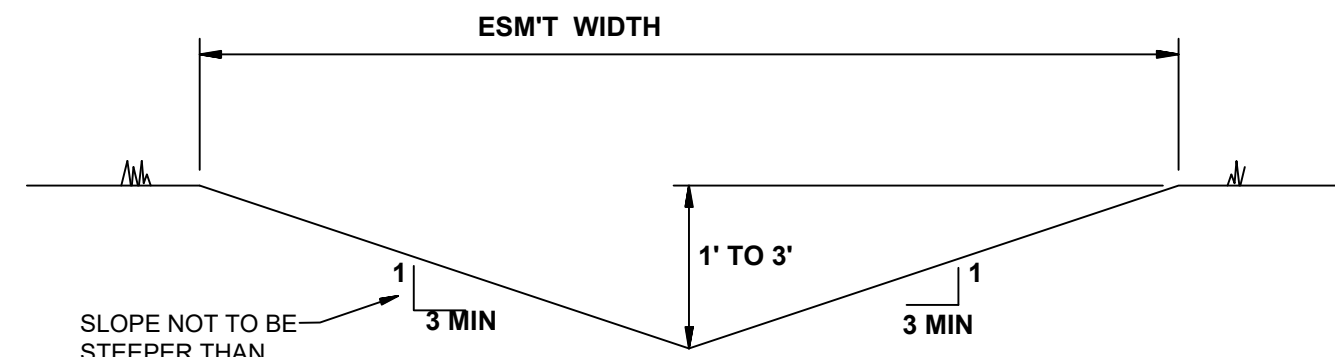
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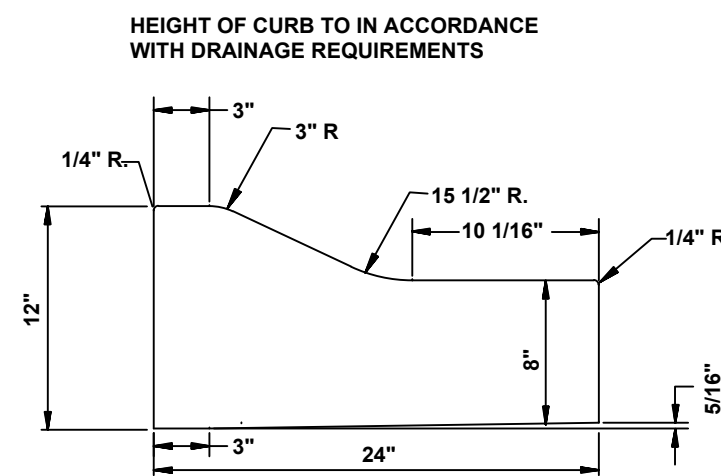




**TYPICAL SECTION - INTERIOR STREETS**  
N.T.S.



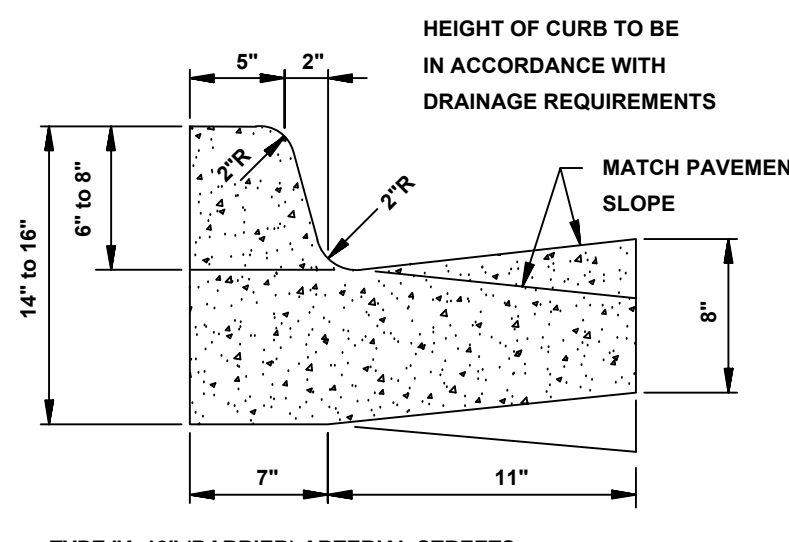
**'A' TYPICAL DITCH DETAIL**  
N.T.S.



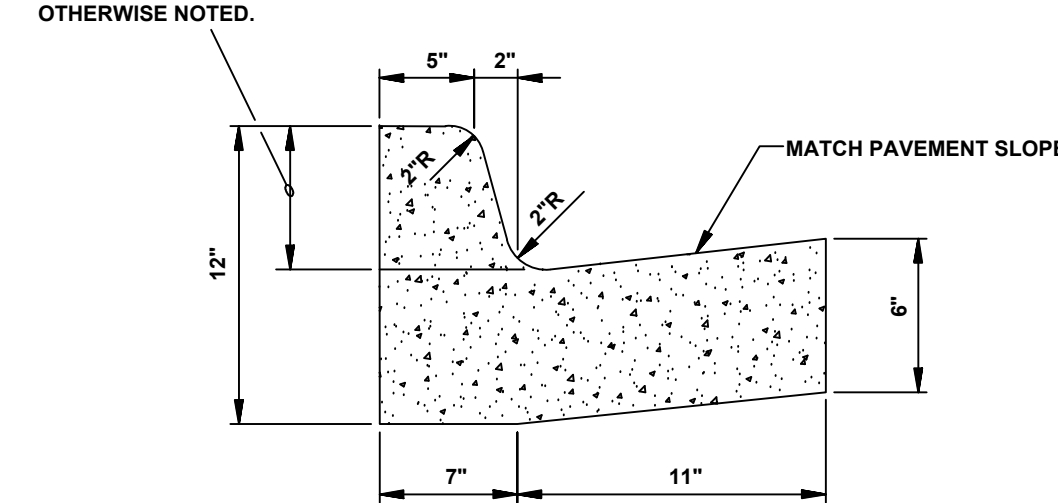
**TYPE 'B' CURB & GUTTER**  
N.T.S.

NOTE: CONTRACTION AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF JONESBORO SPECIFICATIONS

NO DRIVEWAY CUTS ALLOWED WITH THIS TYPE OF CURB



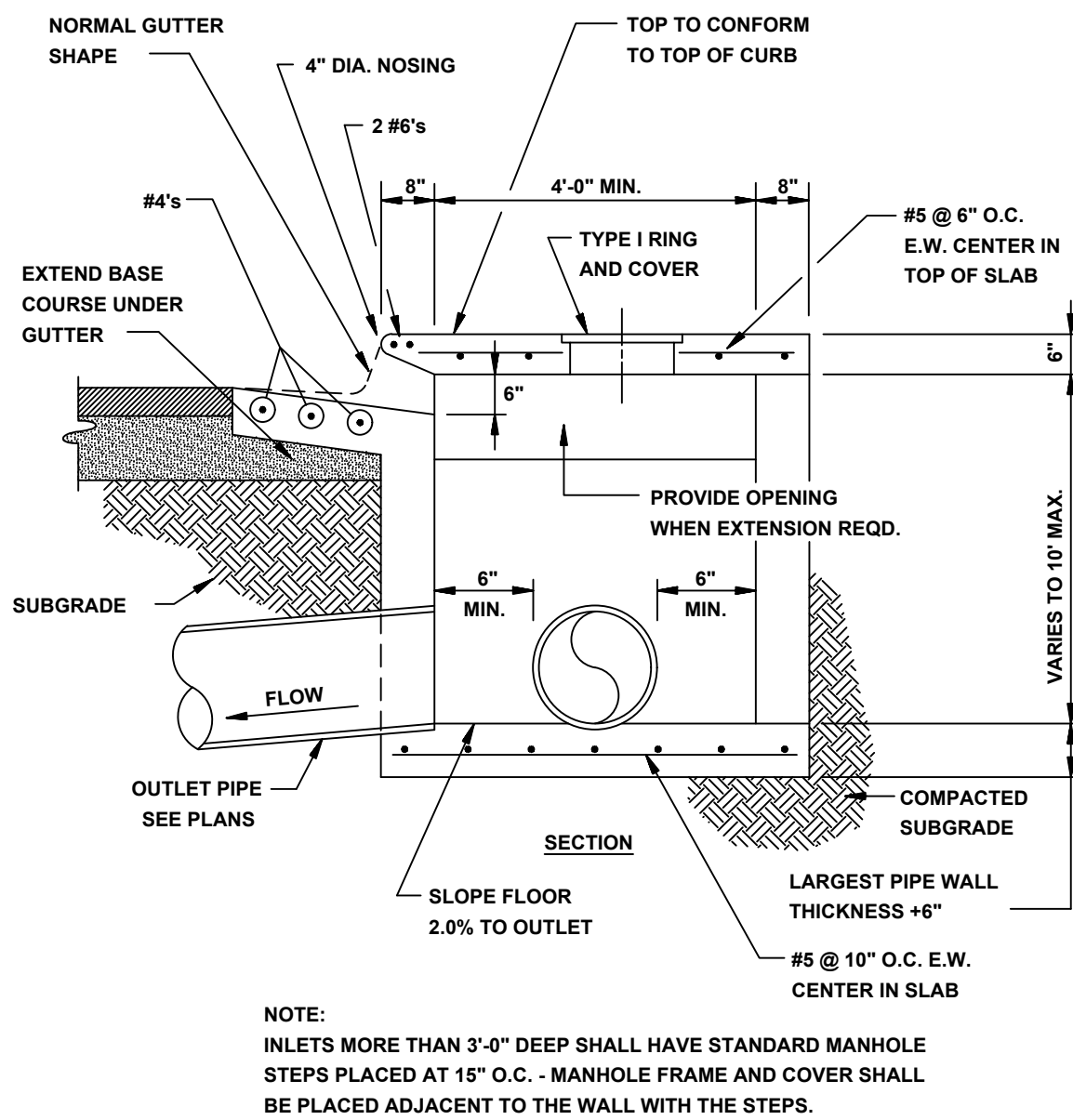
**TYPE "A-18" (BARRIER) ARTERIAL STREETS**



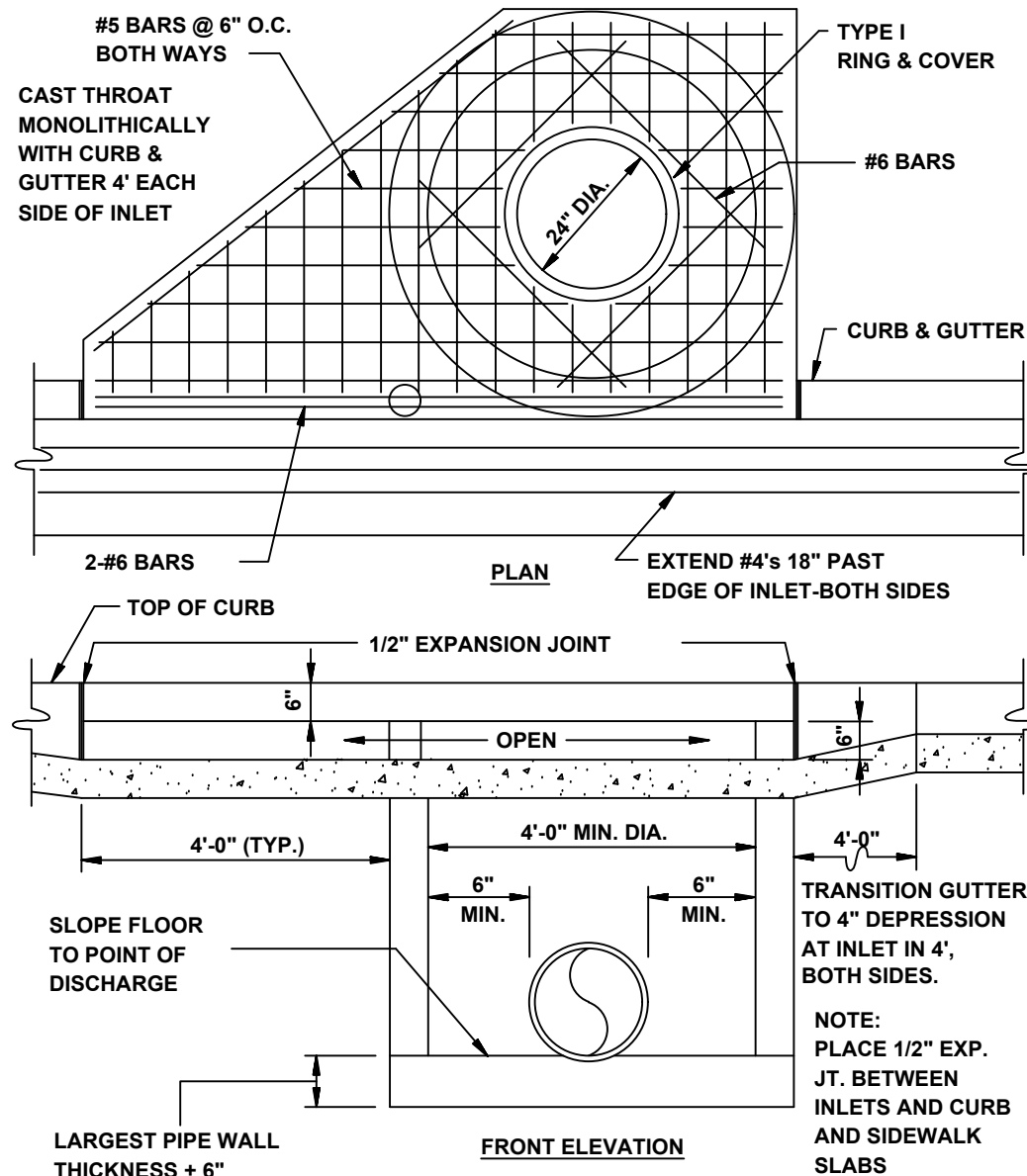
**TYPE "A-18" (BARRIER) RESIDENTIAL & COLLECTOR STREETS**

**COMBINATION CURB & GUTTER**  
N.T.S.

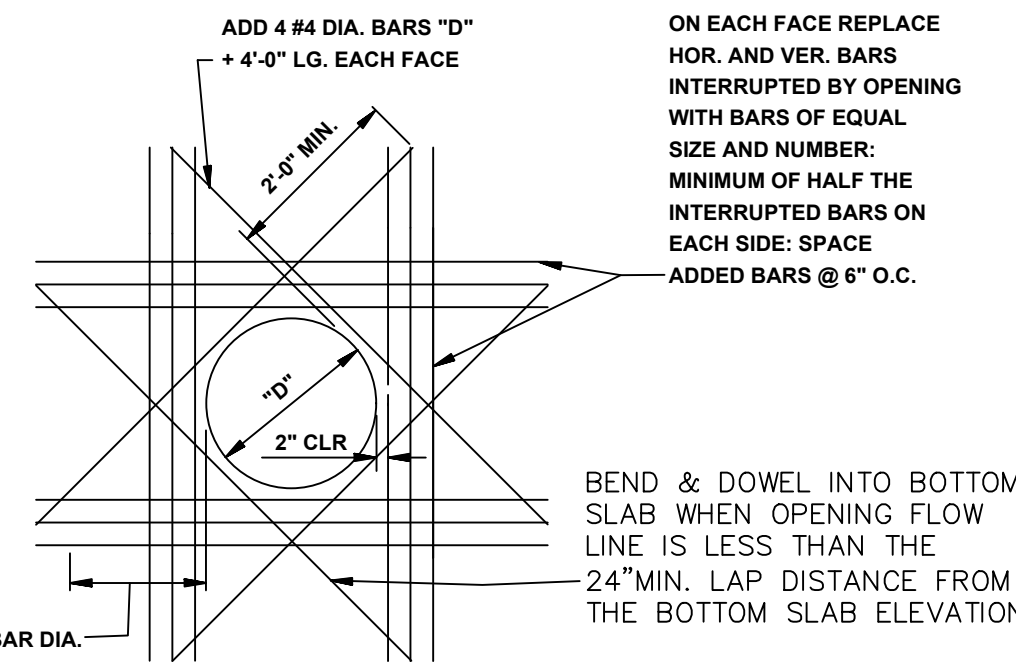
NOTE: CONTRACTION AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.



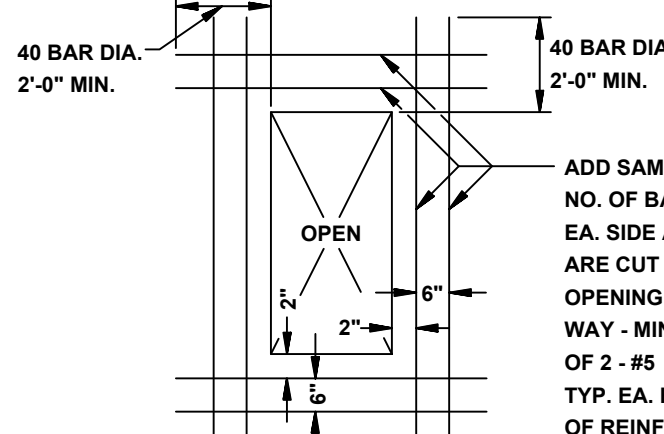
**SECTION - CIRCULAR CURB INLET**  
N.T.S.



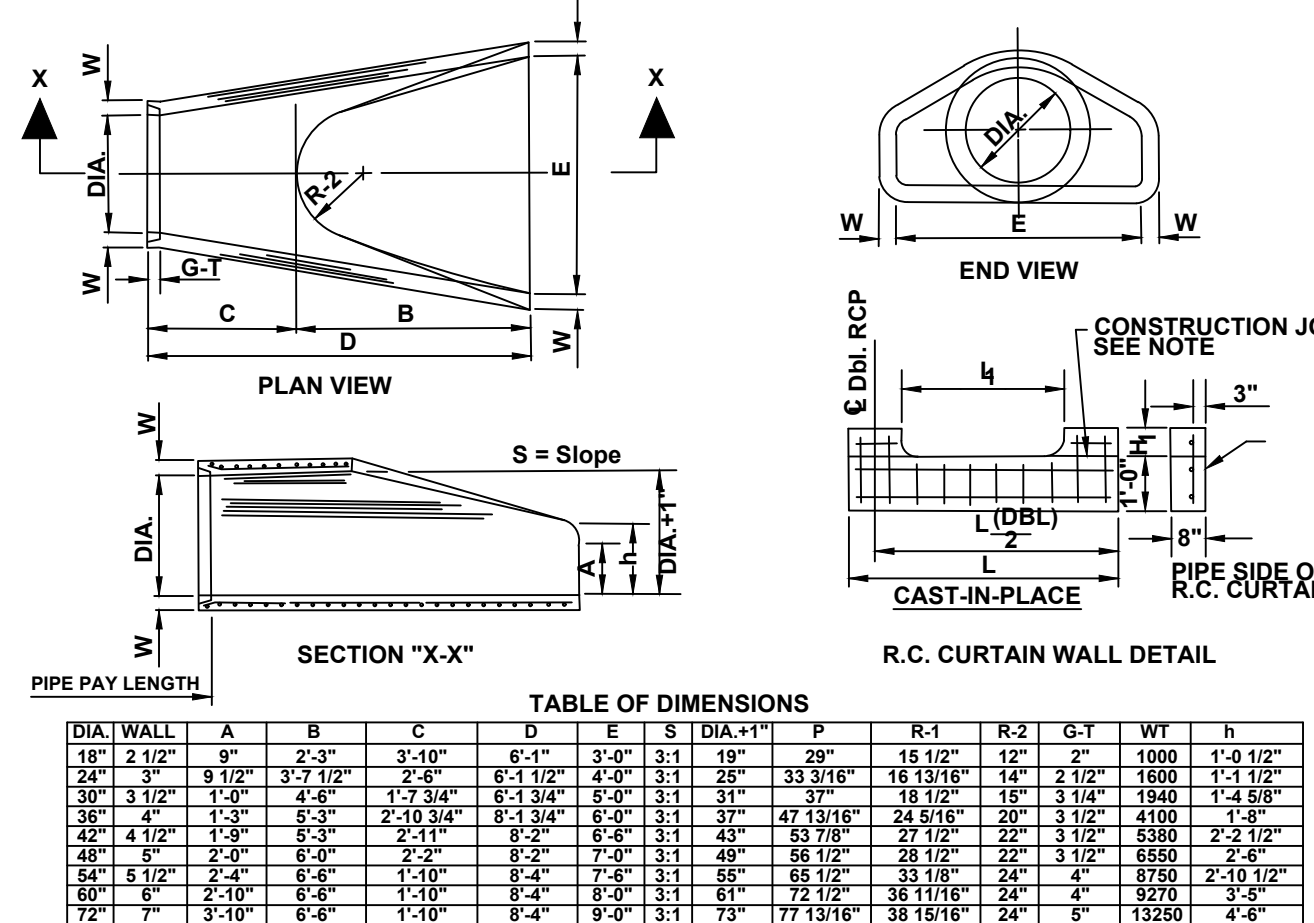
**CIRCULAR CURB INLET W/ INLET EXTENSION**  
N.T.S.



**ADDED REINFORCEMENT AT ROUND OPENING IN WALL OR SLAB**  
N.T.S.

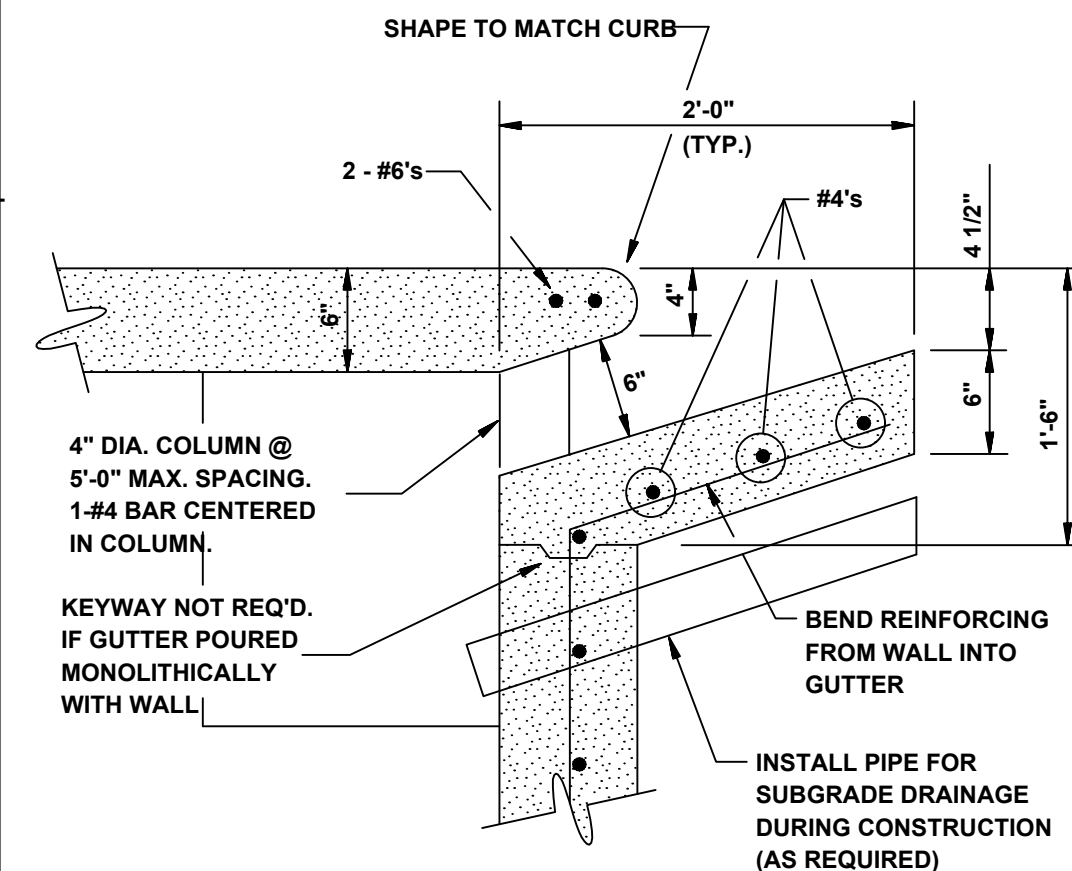


**ADDED REINFORCEMENT AT RECTANGULAR OPENING IN WALL OR SLAB**  
N.T.S.

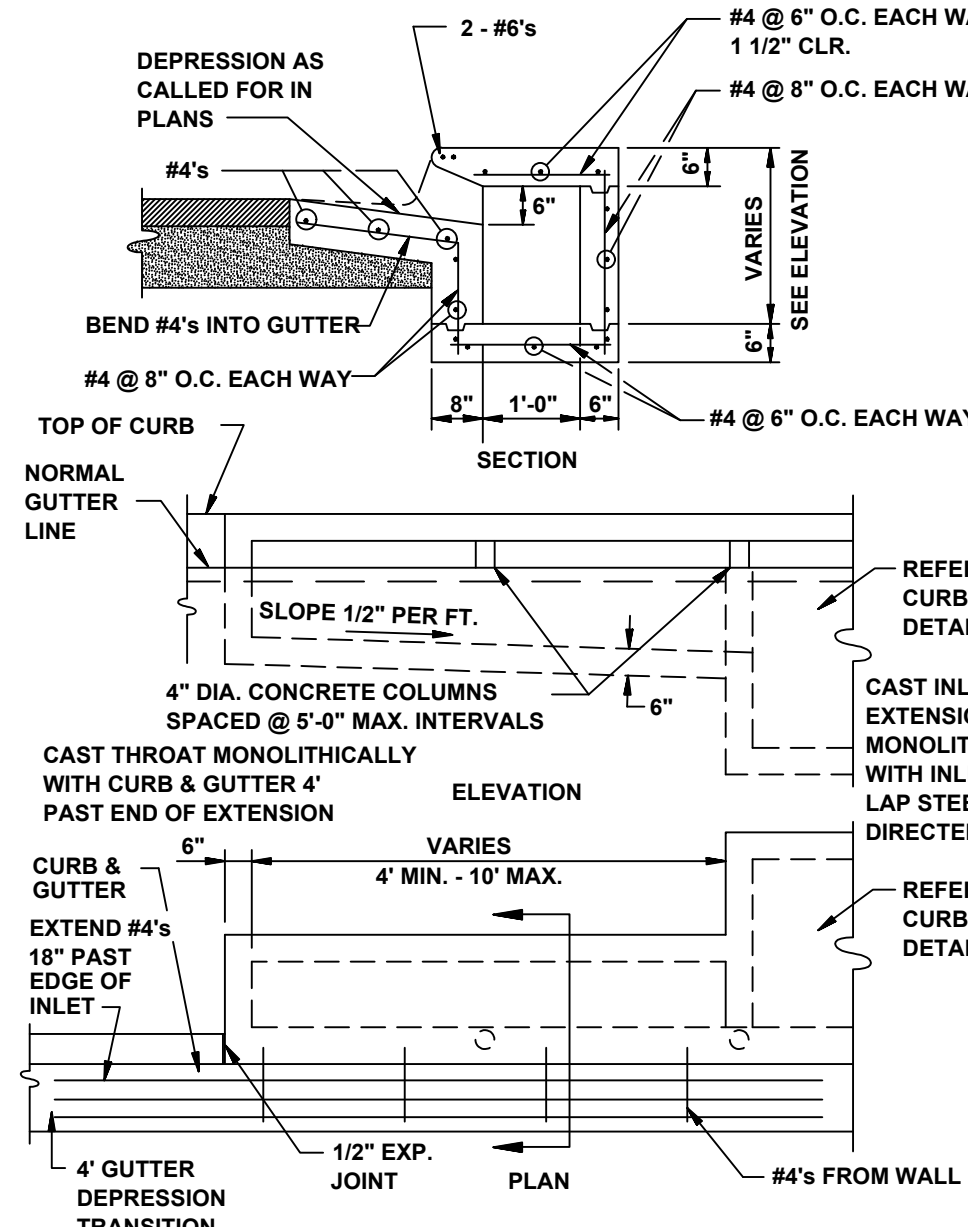


**FLARED END SECTION DETAIL FOR REINFORCED CONCRETE PIPE CULVERT**  
N.T.S.

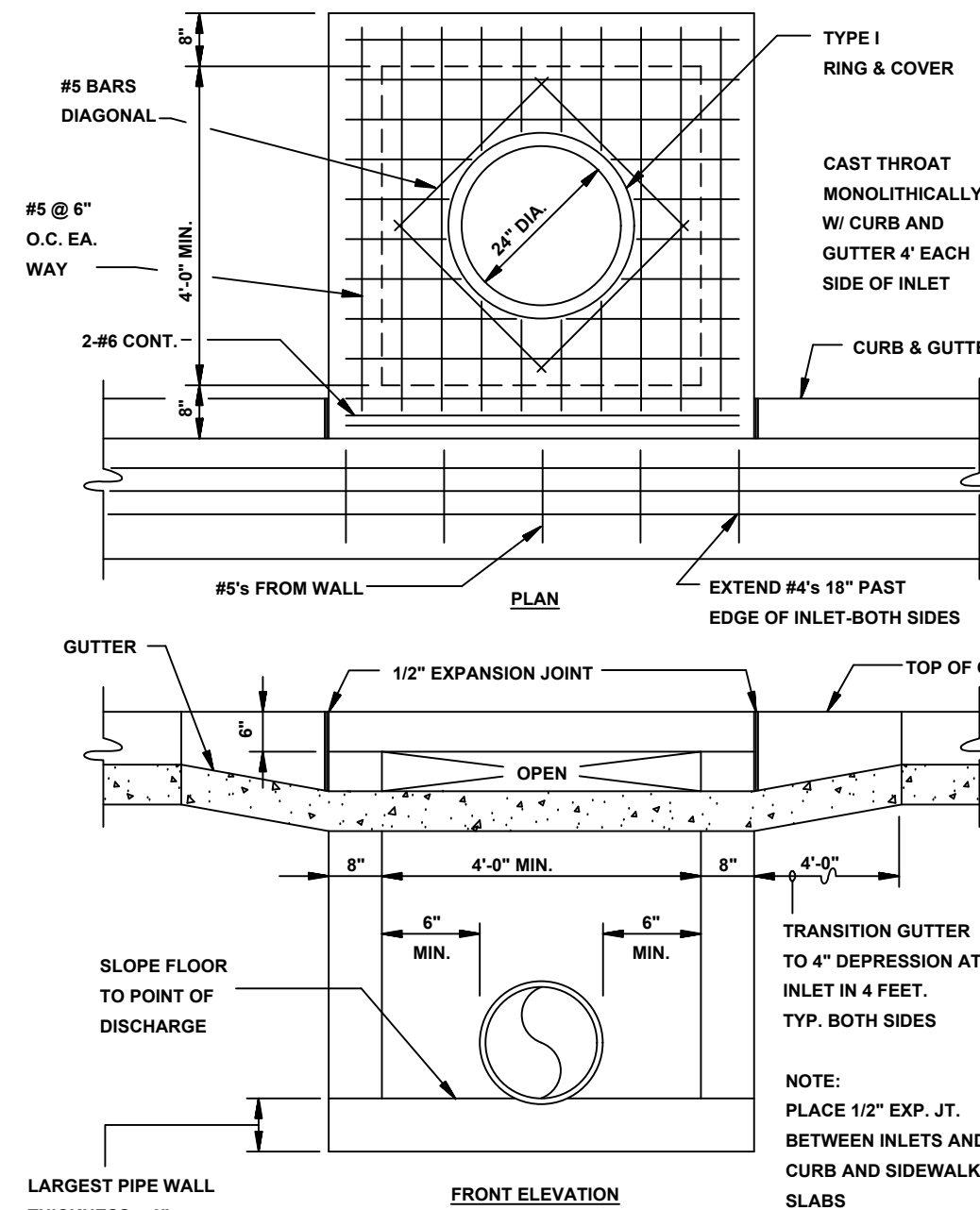
- NOTES:
- The portion of the R.C. Curtain Wall beneath the Flared End Section (Lower 1'-0") shall be placed monolithically. The Flared End Section shall then be set in place and the remaining portions of the R.C. Curtain Wall placed.
  - All reinforcing steel are #4 Bars at 6" O.C.
  - No separate payment will be made for the Curtain Walls. They shall be considered subsidiary to the Flared End Sections.
  - Tongue End On Upstream Section. Groove End On Downstream Section.



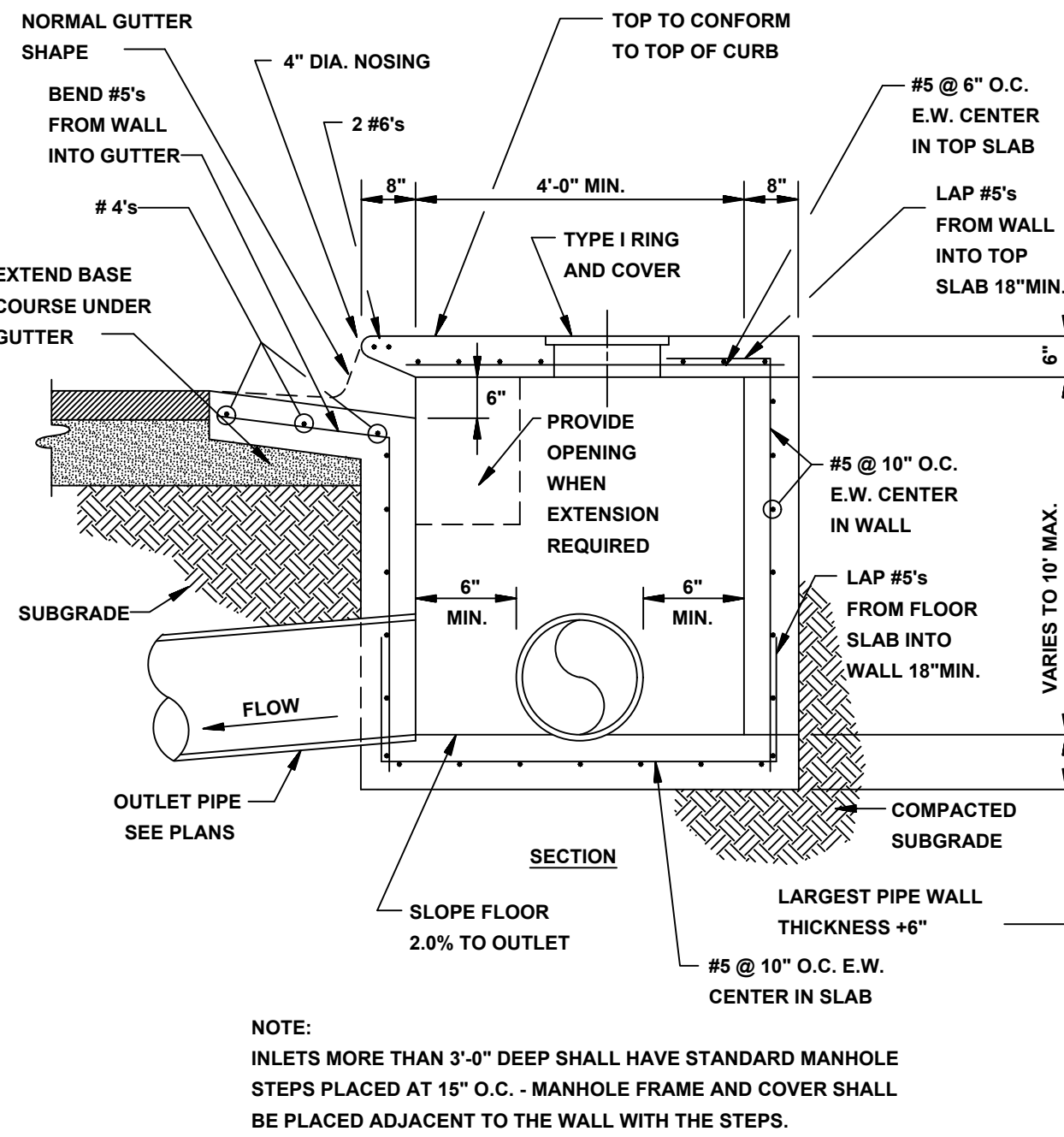
**CURB OPENING**  
N.T.S.



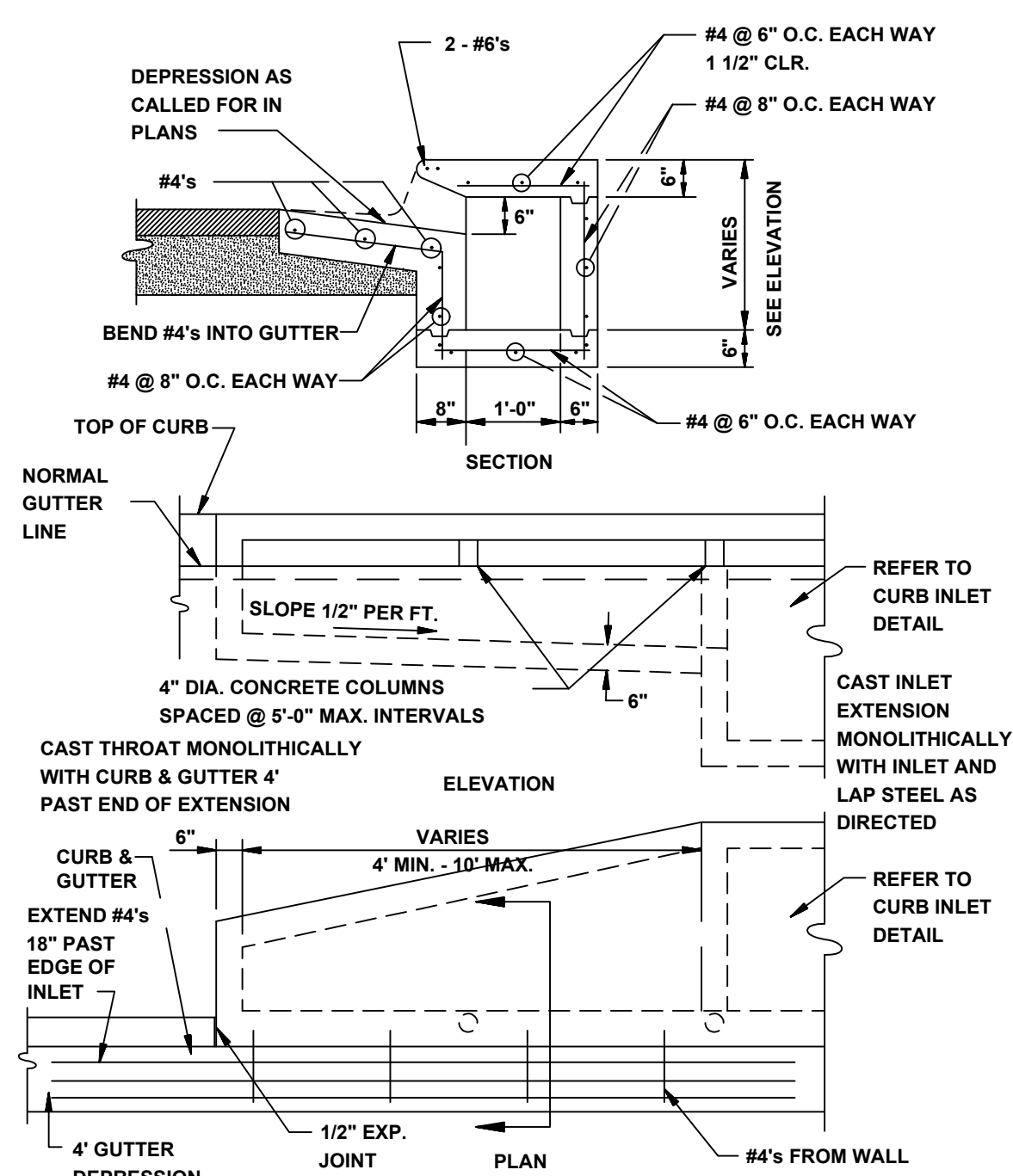
**RECTANGULAR CURB INLET EXTENSION**  
N.T.S.



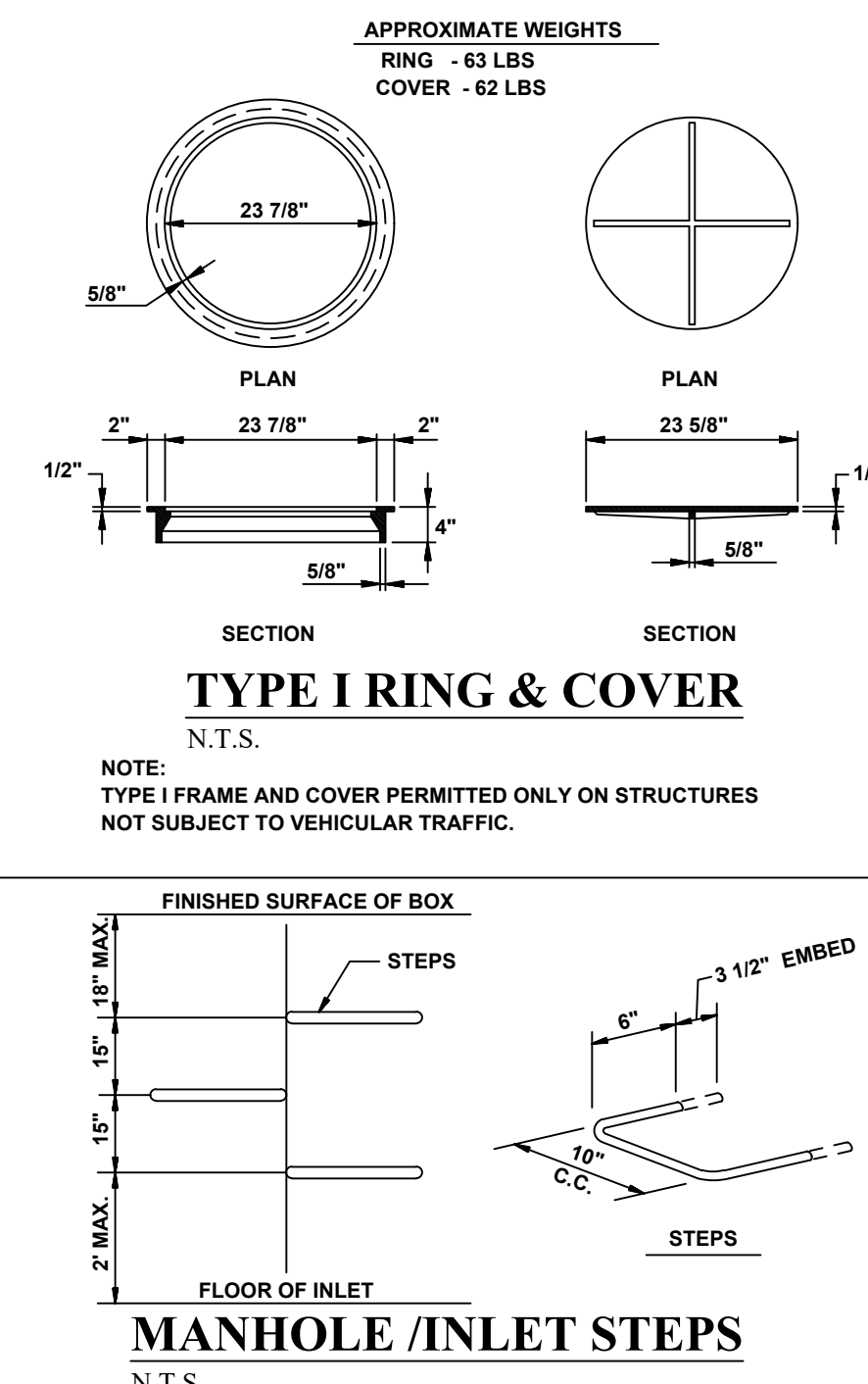
**RECTANGULAR CURB INLET**  
N.T.S.



**SECTION - TYPICAL CURB INLET - TYPE 'A'**  
N.T.S.



**ALTERNATE CURB INLET EXTENSION**  
N.T.S.



**MANHOLE / INLET STEPS**  
N.T.S.

- STEPS SPECIFICATIONS:
- MANHOLE STEPS: CORROSION RESISTANT, COATED AND REINFORCED WITH STEEL PER ASTM C-478. STEEL REINFORCING MINIMUM 1/2" DIAMETER.
  - CAPABLE OF SUPPORTING MINIMUM 300 LB. LOAD.
  - NON-SLIP TEXTURED TREADS.
  - REQUIRED IN ALL STRUCTURES 3'-0" DEEP OR DEEPER, UNLESS SPECIFIED OTHERWISE.

PROSPECT FARMS PHASE VI

STREET DETAILS



REVISIONS		
DATE	BY	DESCRIPTION
DRAWING INFO.		
DRAWN BY:	GMD	
DATE:	8/28/2019	
SCALE:	1"=50'	
SHEET NUMBER:		
DT-4		

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