**PHASE** 

# GROV ACIFIC

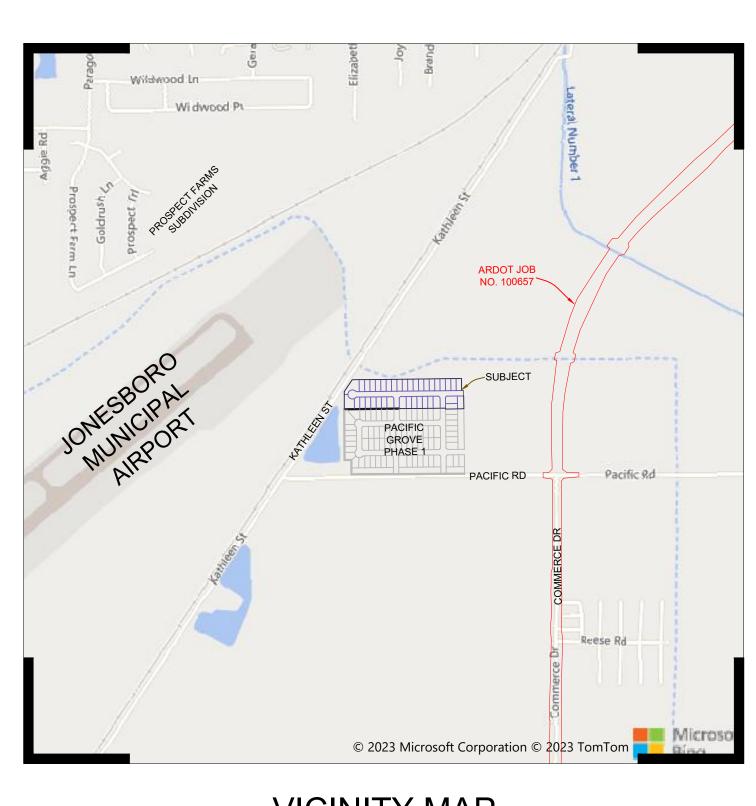
SHEET NUMBER: **C-1** 

## PACIFIC GROVE PHASE 2

### JONESBORO, CRAIGHEAD COUNTY, ARKANSAS SITE DEVELOPMENT PLAN

#### 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

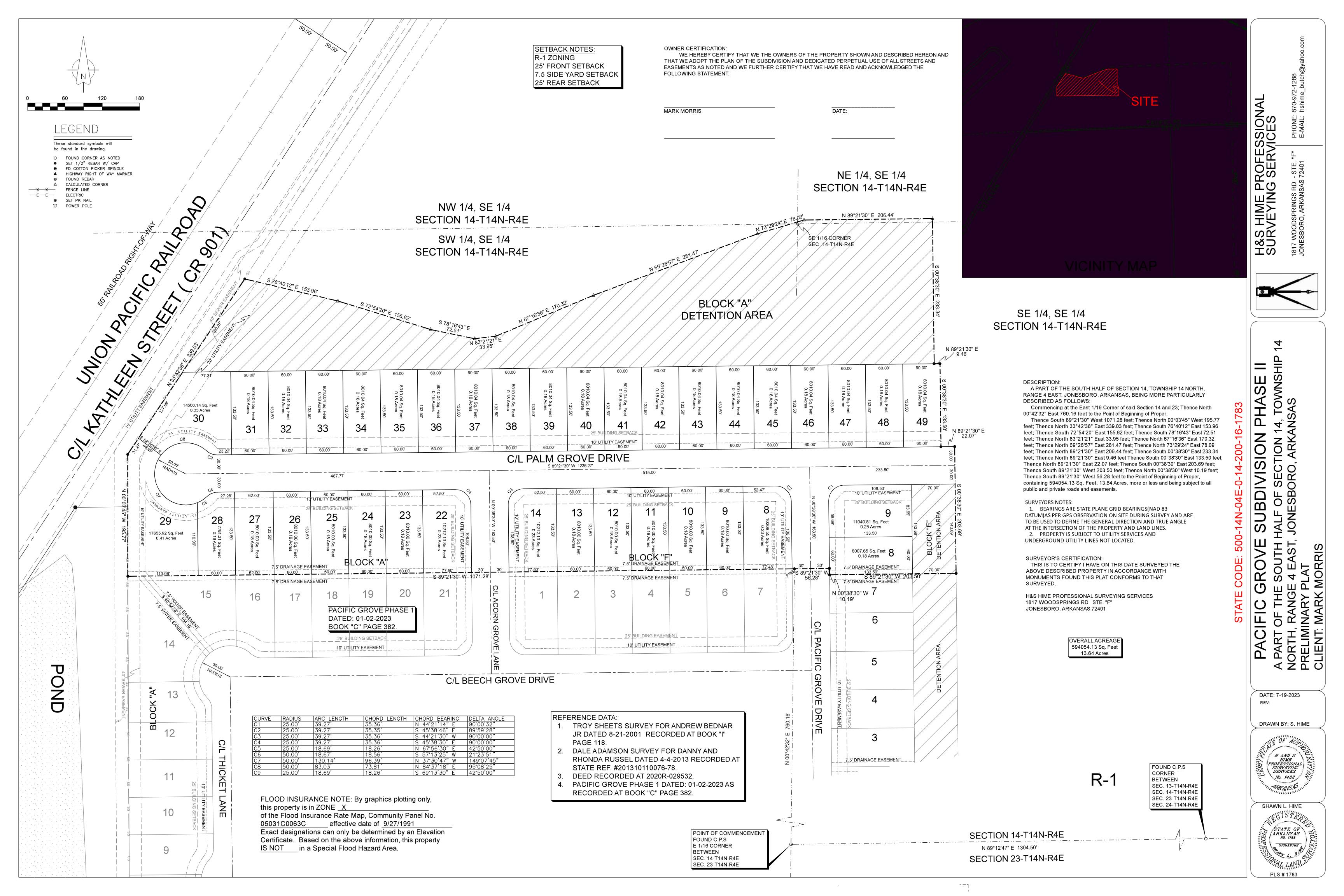


**VICINITY MAP** (NOT TO SCALE)

#### **PAGE DESCRIPTION COVER PAGE** PLAT OV-1 KEY MAP OV-2 OVERALL UTILITY PLAN **EROSION CONTROL PLAN** E-1 UT-1 UTILITY CROSSING PLAN WT-1 WATER PLAN SEWER PLAN SW-1 SW-2 SEWER PLAN & PROFILE SW-3 SEWER PLAN & PROFILE GR-1 GRADING & DRAINAGE PLAN STREET PLAN & PROFILE ST-1 DT-1 **EROSION CONTROL DETAILS** DT-2 WATER DETAILS DT-3 SANITARY SEWER DETAILS DT-4 CONSTRUCTION DETAILS

INDEX OF SHEETS

Widwood Pt Widwood Pt  PROSEET FRANCE  PROSEET FRANCE	Etiza	Lateral Number 1		
RO	L. de la companya de	ARDOT JOB NO. 100657		
JRO JRAL PORT	PACIFIC GROVE PHASE 1	PACIFIC RD  WERCE DR	Pacific Rd	
	© 2022 Missass ft	Reese DJ Quantitation (2000)	Microso	
	© 2023 IVIICIOSO∏	Corporation © 2023 TomT	om <u>fina</u>	





PACIFIC GROVE - PHASE

 $\geq$ 

7

ARKANSAS

REGISTERED
PROFESSION

No. 13212

1933111111		
	REVI	SIONS
DATE	BY	DESCRIPTION

DRAWING INFO.

DRAWN BY: JMH

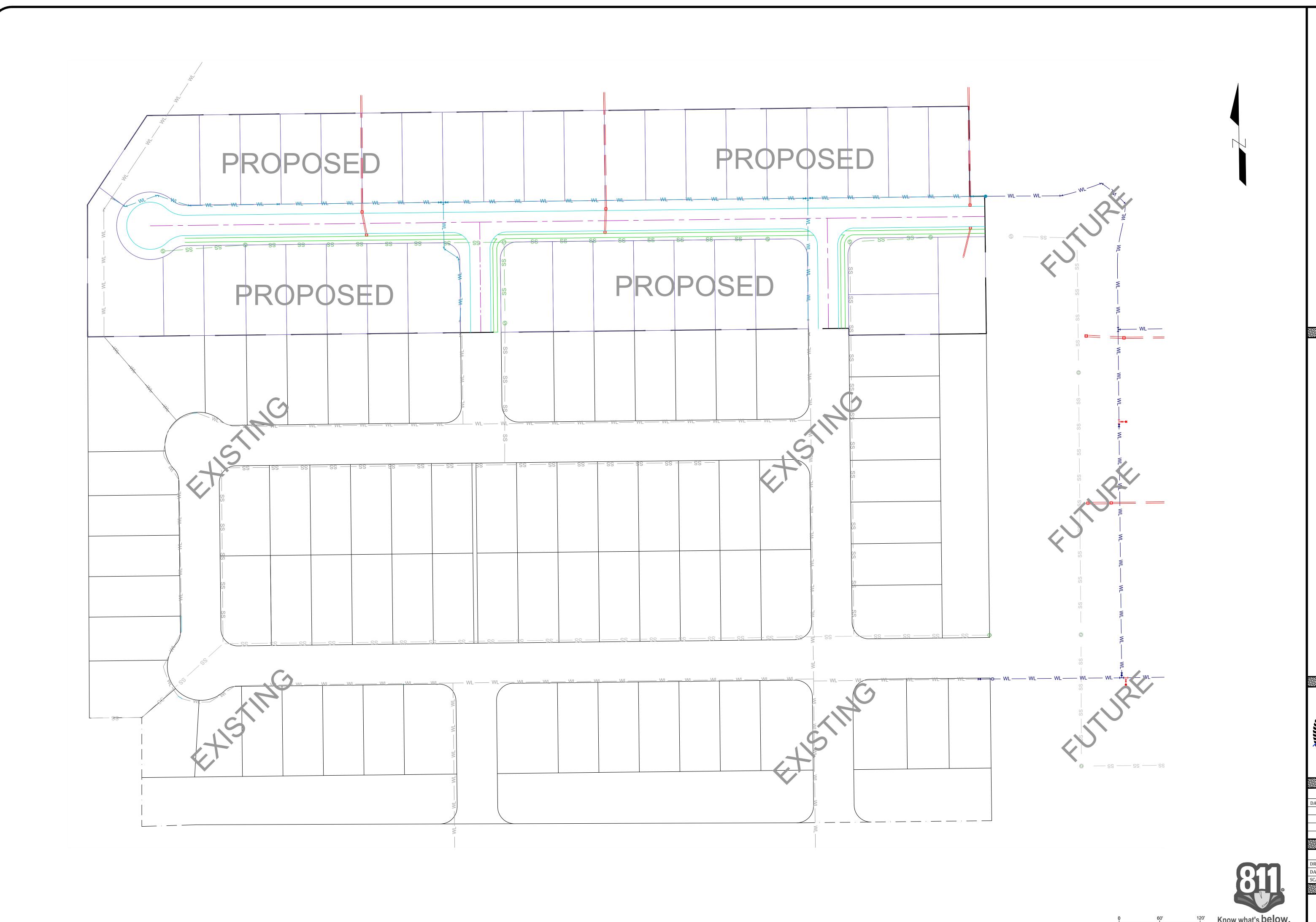
DATE: 7/24/2023

SCALE: 1"=600'

SHEET NUMBER:

OV-1

Know what's below.
Call before you dig.

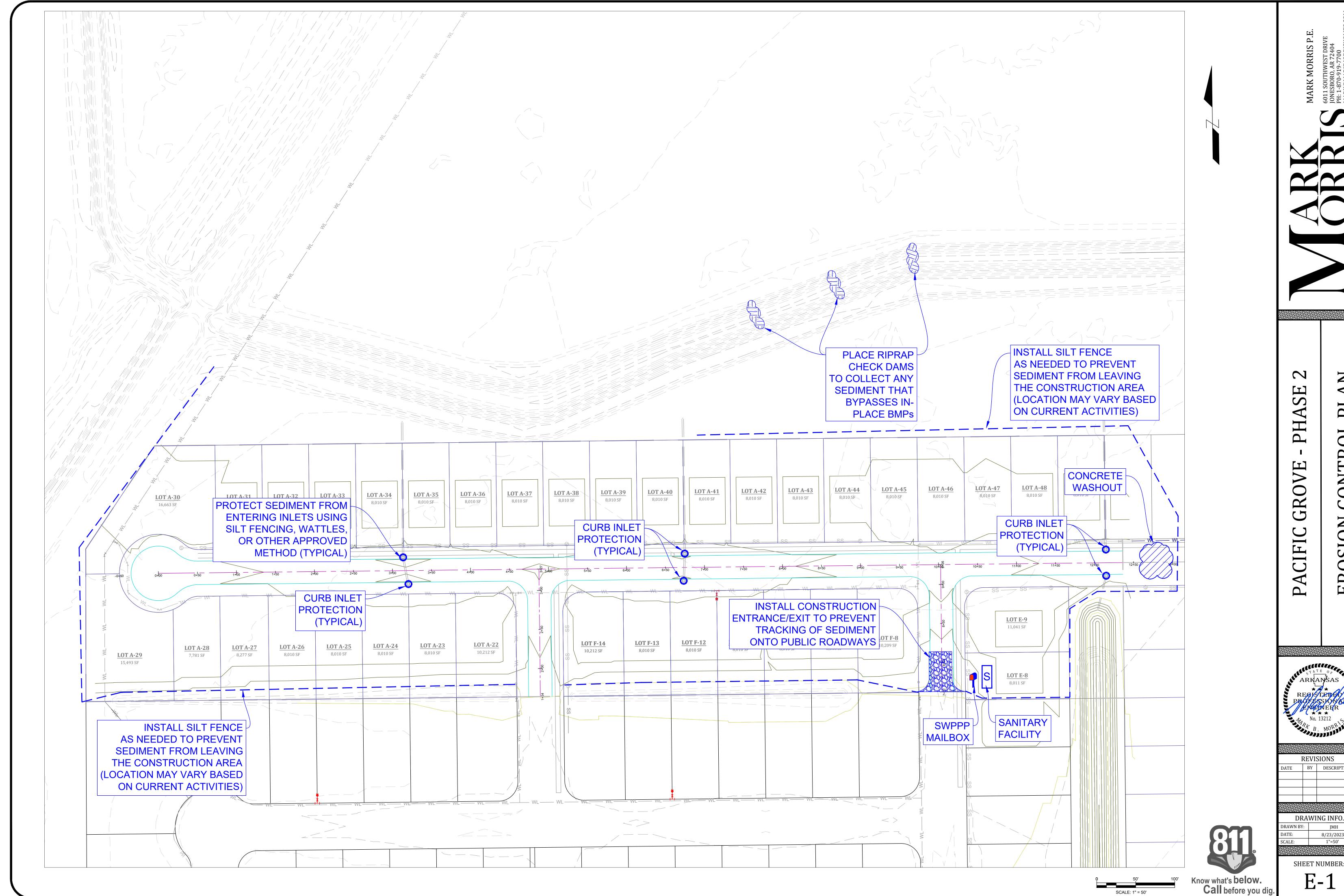


7 PHASE لتا PACIFIC

GR0V]

4332			
	REVI	SIONS	
DATE	BY	DESCRIPTION	

DRAWING INFO.



***************************************			
]	REVI	SIONS	
OATE	BY	DESCRIPTION	

DRAWING INFO. 8/23/2023

ELECTRICAL CONDUIT NOTE

REQUIREMENTS. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE

ARKANSAS DEPARTMENT OF HEALTH. A MINIMUM HORIZONTAL DISTANCE OF 3'

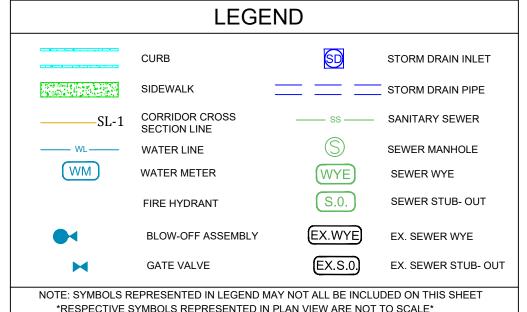
SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NON-SANITATRY NATURE (GAS, ELECTRIC, ETC.), EXCEPTIONS TO

THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF

HEALTH AND HUMAN SERVICES.

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.



TOTAL WATERLINE QUANTITIES: | PRESSURES: 1652 LF - 6" C-900 PVC WATERLINE | STATIC PRESSURE = 64 PSI 23 - 3/4" SHORT SERVICES 14 - 3/4" LONG SERVICES

RESIDUAL PRESSURE = 55 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 CWL AND INSTALL THE ELECTRICAL CONDUIT AS SPECIFIED BY CWL.(CONTRACTOR SHALL OBTAIN CWL SPECIFICATIONS).
- 2. CONTRACTOR SHALL PROVIDE 3/4" METER STOP, TAP, SERVICE LINE & METER BOX AS REQUIRED BY CWL & INSTALL AS
- 3. CONTRACTOR SHALL PROVIDE ENGINEER W/ "AS-BUILT" DIMENSIONS FOR WYE'S, VALVES, TEES, BENDS, FIRE 4. 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.
- 5. 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.
- CWL 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)
- 8. 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 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.
- 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. 10. IF CONTRACTOR CAN NOT INSURE WATER LINÉ INSTALLATION TO BE BELOW STORM DRAIN, THEN THE CONTRACTOR
- 11. CONTRACTOR SHALL PROVIDE OWNER WITH ONE YEAR WARRANTY FOR MATERIALS AND WORKMANSHIP. 12. 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. 3. 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.
- 14. CONTRACTOR SHALL REVIEW DETAIL SHEETS TO ENSURE PROPER INSTALLATION OF VALVES, FIRE HYDRANTS CONCRETE BLOCKING, SERVICE LINES, MANHOLE INVERTS, AND DROP ASSEMBLIES.
- 15. CONTRACTOR SHALL OBTAIN A CURRENT SET OF CWL SPECIFICATIONS AND REVIEW THEM. CWL SPECIFICATIONS ARE TO BE ADHERED TO AND MADE A PART OF THIS SET OF PLANS. CONTRACTOR SHALL USE CWL 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 16. ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS
- 17. CONTRACTOR SHALL PLACE 8 MIL POLYWRAP OVER DUCTILE IRON FITTINGS PRIOR TO PLACING CONCRETE BLOCKING TO PREVENT CONCRETE FROM ENCASING BOLTS & NUTS. 18. ALL WATER LINES 4"-12" DIAMETER SHALL BE AWWA 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-2 19. 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 20. CONSTRUCTION SHALL BEGIN ONLY AFTER APPROVED PLANS FROM THE ARKANSAS DEPARTMENT OF HEALTH ARE SUBMITTED TO CWL, 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 CWL PRIOR TO THE
- INSTALLATION OF ELECTRICAL WIRE. 21. DEVELOPER MUST SHOW PROOF OF ADEQUATE INSURANCE COVERAGE. (ARKANSAS WORKER'S 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 22. FINAL CLEAN-UP OF THE SITE SHALL INCLUDE THE REMOVAL AND DISPOSAL OFF-SITE OF ALL CONSTRUCTION DEBRIS,
- 23. DURING CONSTRUCTION, WORK SHALL BE INSPECTED BY THE DEVELOPER'S CONSULTING ENGINEER FOR NECESSARY SAFETY PRACTICES, PROPER MATERIALS, AND WORKMANSHIP. CWL WILL PROVIDE RANDOM INSPECTIONS TO INSURE THAT THE PLANS APPROVED BY THE ARKANSAS DEPARTMENT OF HEALTH AND CWL ARE FOLLOWED CONCERNING WORKMANSHIP AND MATERIALS.
- 24. IF SEWER AND WATER LINES HAVE NOT BEEN ACCEPTED BY CWL WITHIN 360 DAYS AFTER MANDREL TESTS. LOW PRESSURE AIR TESTS, HYDROSTATIC TESTS AND BACTERIAL TESTS, ALL TESTS WILL BE REQUIRED TO BE REPEATED
- 25. INSTALLATION OF DOMESTIC WATER METER TAPS ARE REQUIRED TO BE MADE DURING THE INSTALLATION OF THE NEW 26. 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 CORRUGATED METAL PIPE, A SECTION MAY BE CUT FROM THE DRAINAGE PIPE,
- AND RESTORATION ACCOMPLISHED WITH NEW PIPE AND COUPLING BANDS. 27. CWL ENGINEERING DEPT. MUST APPROVE ANY WATER OR SEWER LINES THAT WILL BE INSTALLED CLOSER THAN 5' PARALLEL WITH EDGE OF PAVED STREET SURFACE.
- 28. REPAIRS SHALL BE MADE IN ACCORDANCE WITH AWWA. IF VALVE IS CLOSED BY THE CONTRACTOR WITHOUT CWL'S KNOWLEDGE, THE NEW SECTION MUST BE TESTED FOR WATER QUALITY AND FLUSHED. THE CWL INSPECTOR WILL
- 29. WATER LINE FITTINGS SHALL BE CLASS 350 DUCTILE IRON OR CAST IRON. 30. TRENCH DEPTH WILL BE SUCH AS TO ALLOW A MINIMUM COVER OF 42" OVER WATER MAIN.
- 31. 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 AWWA C-600-93
- FOR DUCTILE IRON AND AWWA C-605-94 FOR PVC PIPE. 32. ALL WATER LINES SHALL BE STERILIZED IN ACCORDANCE WITH AWWA 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 CWL - 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
- 33. 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
- 34. IF UNSAFE PRACTICES ARE DISCOVERED BY CWL DURING INSPECTIONS OF WORKMANSHIP AND MATERIALS, CWL WILL NOTIFY OSHA. THIS PROCEDURE IN NO WAY OBLIGATES CWL FOR THE RESPONSIBILITY OF THE CONTRACTOR'S SAFETY
- 35. 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.

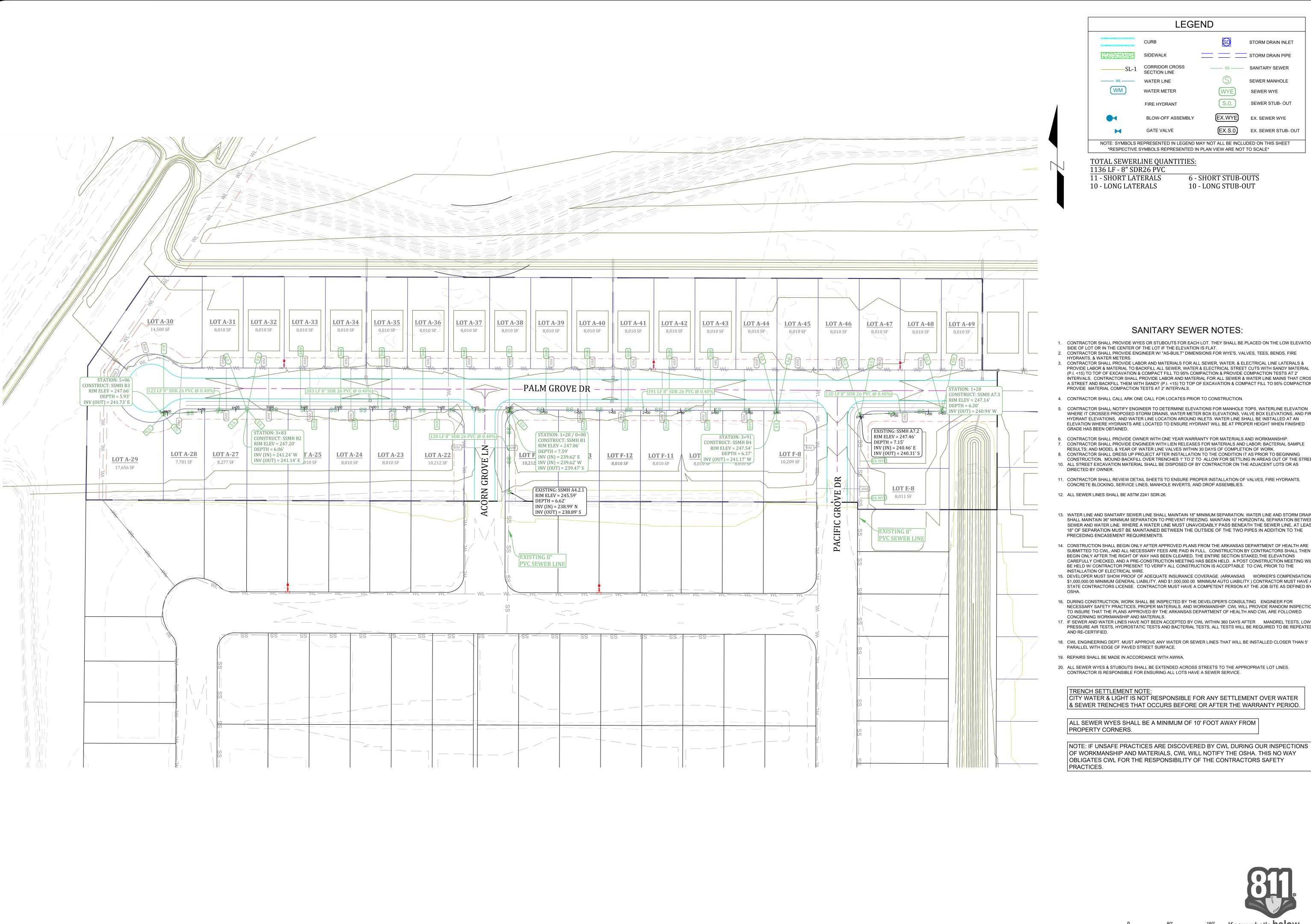
NOTE: TRACER WIRE AND PEDESTAL SHOULD BE INSTALLED WHEN WATER LINE NOT ACCOMPANIED WITH ELECTRIC LINE.

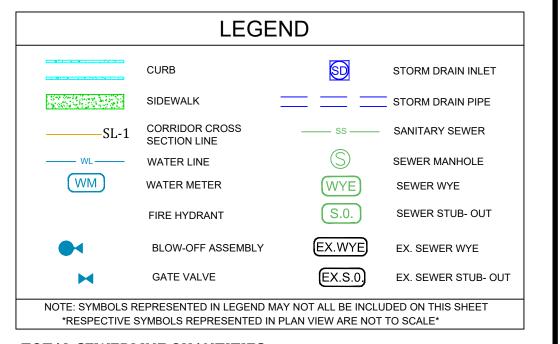


**[** + ]

Millitar ARKANSAS REGISTEREL PROFESSIONA ( \* \* \* ARR B. MU. No. 13212

REVISIONS ATE BY DESCRIPTION DRAWING INFO. IMH 7/24/2023





TOTAL SEWERLINE QUANTITIES:

1136 LF - 8" SDR26 PVC

11 - SHORT LATERALS

6 - SHORT STUB-OUTS 10 - LONG STUB-OUT

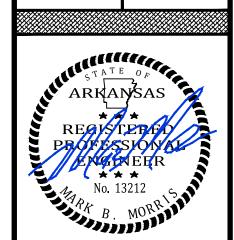
#### **SANITARY SEWER NOTES:**

- 1. CONTRACTOR SHALL PROVIDE WYES OR STUBOUTS 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.
- CONTRACTOR SHALL PROVIDE ENGINEER W/ "AS-BUILT" DIMENSIONS FOR WYE'S, VALVES, TEES, BENDS, FIRE 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 (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.
- 4. CONTRACTOR SHALL CALL ARK 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 AROUND INLETS. WATER LINE SHALL BE INSTALLED AT AN ELEVATION WHERE HYDRANTS ARE LOCATED TO ENSURE HYDRANT WILL BE AT PROPER HEIGHT WHEN FINISHED
- 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. 8. 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. 10. ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS
- 11. CONTRACTOR SHALL REVIEW DETAIL SHEETS TO ENSURE PROPER INSTALLATION OF VALVES, FIRE HYDRANTS, CONCRETE BLOCKING, SERVICE LINES, MANHOLE INVERTS, AND DROP ASSEMBLIES.
- 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 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.
- 14. CONSTRUCTION SHALL BEGIN ONLY AFTER APPROVED PLANS FROM THE ARKANSAS DEPARTMENT OF HEALTH ARE SUBMITTED TO CWL, 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 CWL PRIOR TO THE
- 15. DEVELOPER MUST SHOW PROOF OF ADEQUATE INSURANCE COVERAGE. (ARKANSAS WORKER'S 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
- 16. DURING CONSTRUCTION, WORK SHALL BE INSPECTED BY THE DEVELOPER'S CONSULTING ENGINEER FOR NECESSARY SAFETY PRACTICES, PROPER MATERIALS, AND WORKMANSHIP. CWL WILL PROVIDE RANDOM INSPECTION TO INSURE THAT THE PLANS APPROVED BY THE ARKANSAS DEPARTMENT OF HEALTH AND CWL ARE FOLLOWED
- 17. IF SEWER AND WATER LINES HAVE NOT BEEN ACCEPTED BY CWL WITHIN 360 DAYS AFTER MANDREL TESTS, LOW PRESSURE AIR TESTS, HYDROSTATIC TESTS AND BACTERIAL TESTS, ALL TESTS WILL BE REQUIRED TO BE REPEATED
- 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.

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

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



<b>XXXXXXXXXXXX</b>	XXXXXXX	XX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX/3/XXX
	REVI	SIONS
DATE	BY	DESCRIPTION
*********	******	
DI	RAW	ING INFO.
DRAWN B	γ.	IMH

1/2/2023 SHEET NUMBER:

7

**PHASE** 

GRO

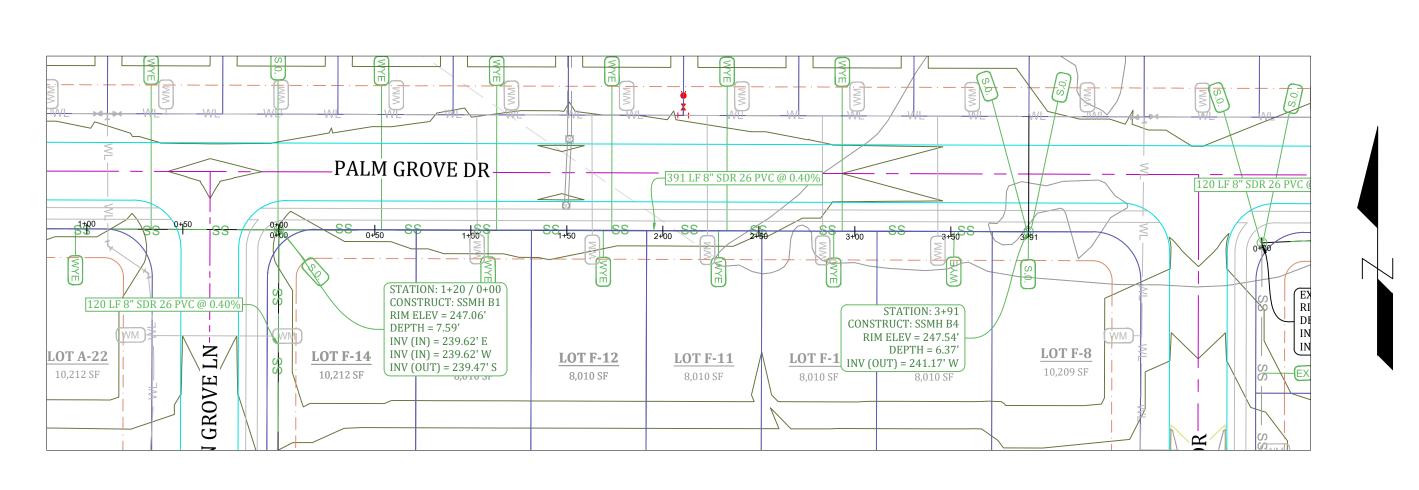
ACIFIC

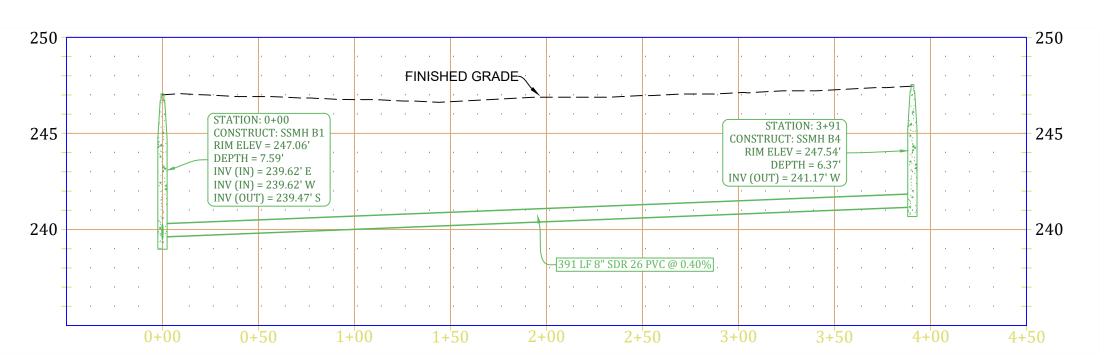
**D** 

DRAWING INFO. JMH 1/2/2023 1"=50'

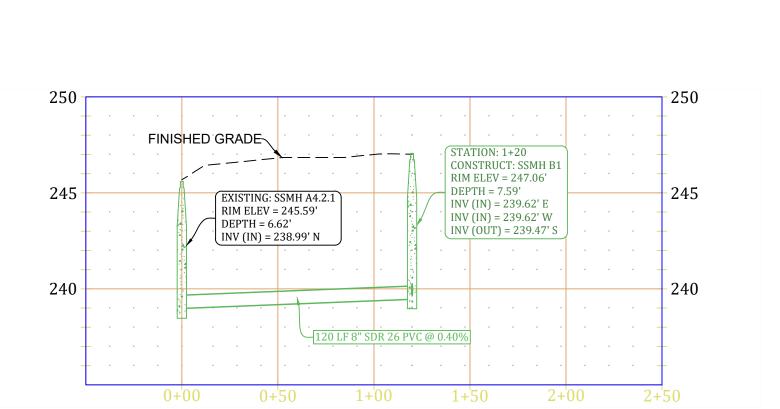
SHEET NUMBER:

SCALE: 1" = 50' VERTICAL SCALE 1:5





SEWER LINE B1 --> B4 PLAN/PROFILE



ACORN GROVE LN-

STATION: 1+20 / 0+00 CONSTRUCT: SSMH B1 RIM ELEV = 247.06'

INV (IN) = 239.62' E INV (IN) = 239.62' W

INV (OUT) = 239.47' S

**LOT F-13** 

EXISTING: SSMH A4.2 RIM ELEV = 245.59'

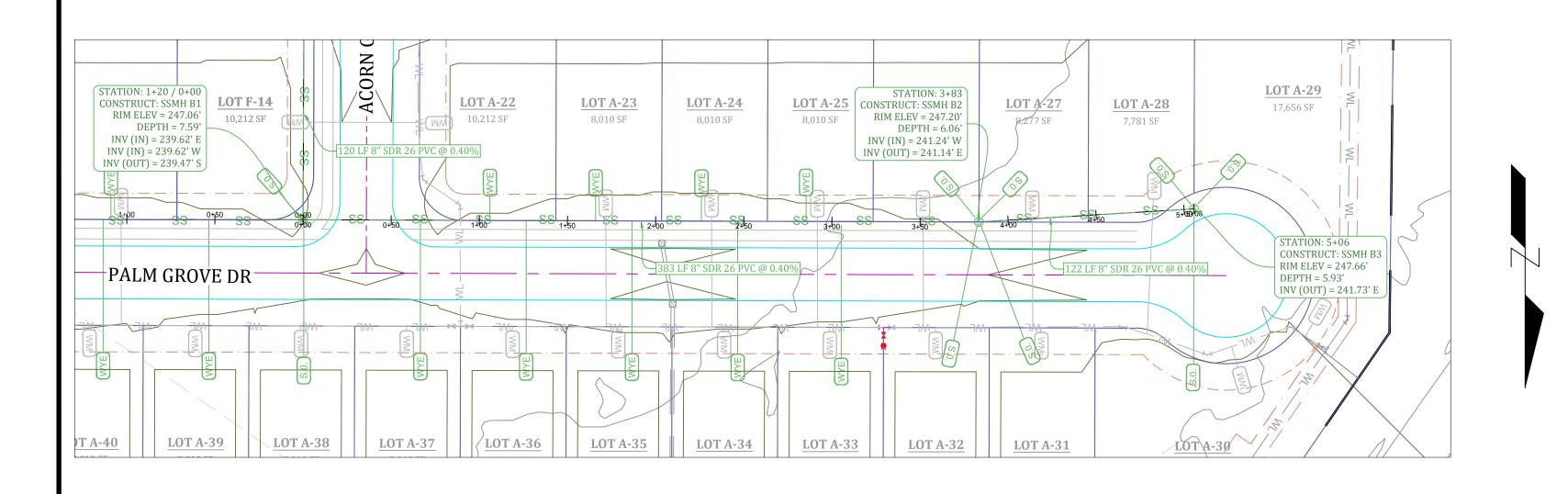
DEPTH = 6.62' INV (IN) = 238.99' N 8,010 SF

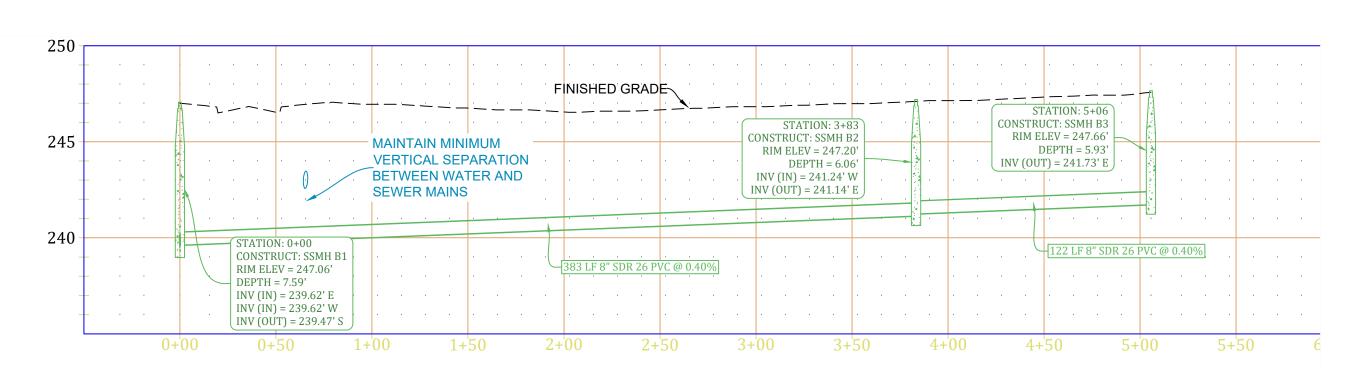
8,010 SF

**LOT A-39** 

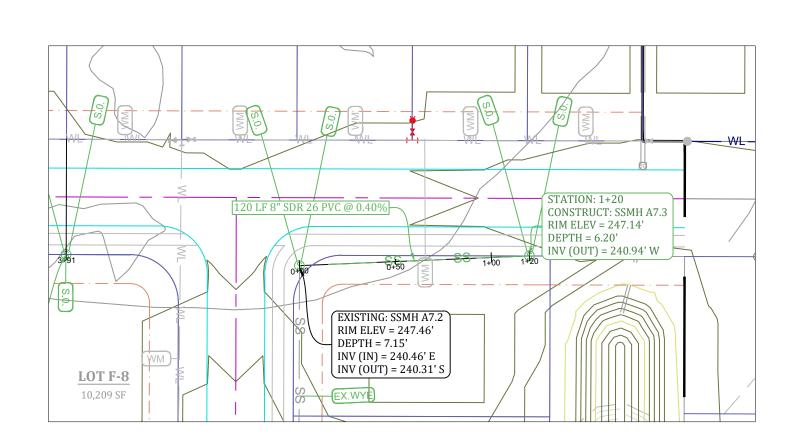
8,010 SF

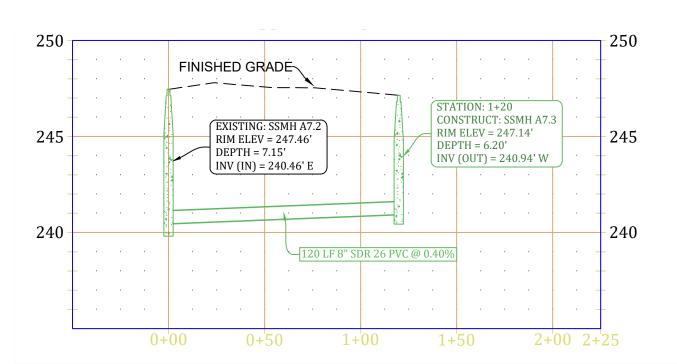
SEWER LINE A4.2.1 --> B1 PLAN/PROFILE



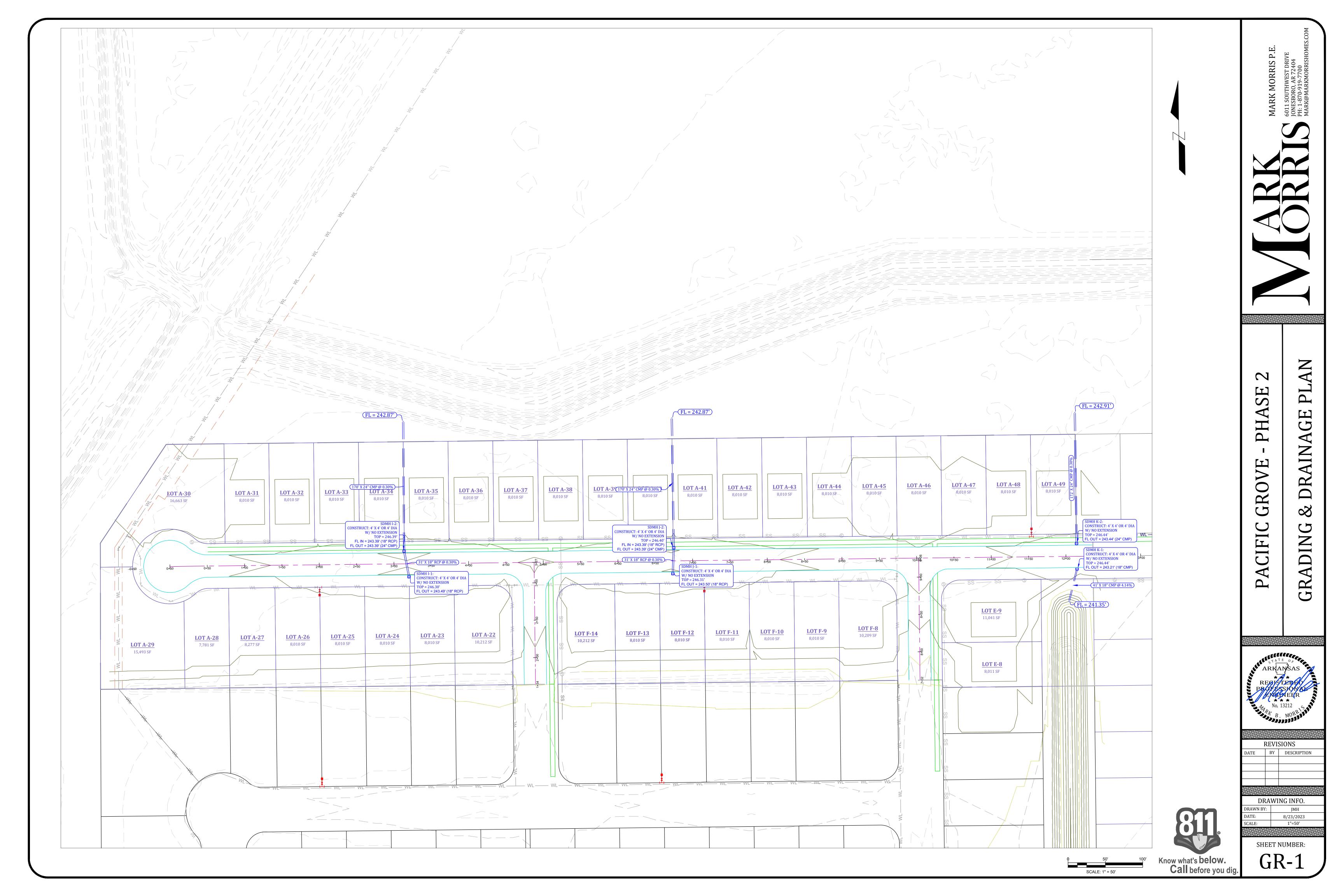


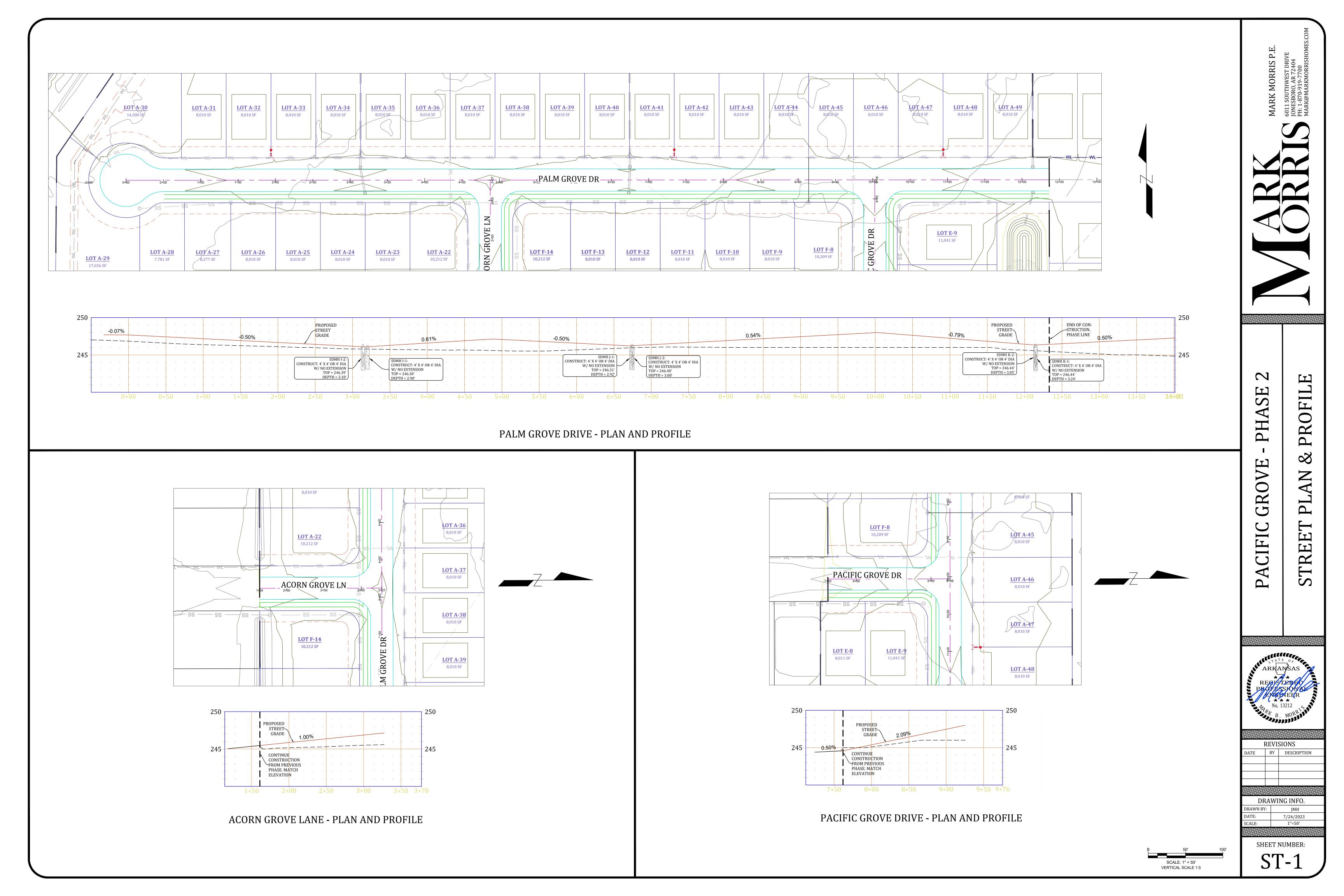
SEWER LINE B1 --> B3 PLAN/PROFILE





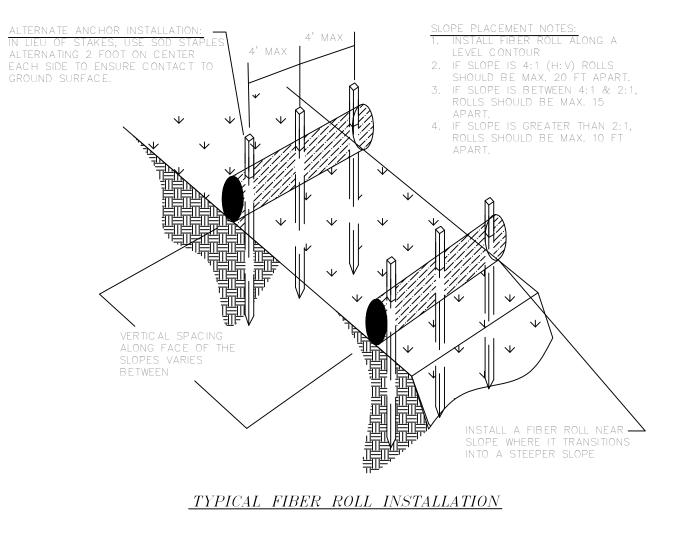
SEWER LINE A7.2 --> A7.3 PLAN/PROFILE







S Д [1] GR CIF X 



– PROPOSED GRADE

INFLOW PIPE

\_\_100 YR Hw \_\_\_\_\_

CMP ELBOW SECTION

MAX. 4' SPACING (SEE ALTERNATE ANCHOR NOTE) SECTION VIEW

— FAIRCLOTH SKIMMER OR

TOP OF LEVY

OUTFLOW PIPE

EQUIVALENT (SEE PLANS FOR SIZE)

NOT TO SCALE

NOT TO SCALE

FIBER ROLLS AND WATTLES

– 1FT (H) X 20 FT (W) BROAD

ROCK OUTFALL

SEDIMENT BASIN w/ FAIRCLOTH SKIMMER

**PROTECTION** 

CRESTED WEIR

PERSPECTIVE VIEW DETAIL A

WOOD FRAME

GATHER EXCESS AT CORNERS

PERSPECTIVE VIEW

ELEVATION OF STAKE AND

FABRIC ORIENTATION

DROP INLET

WITH GRATE

**ALTERNATE INSTALLATION:** 

FIBER ROLLS (WATTLES) MAY BE

SUBSTITUTED TO PREVENT SITE

AS DEEMED NECESSARY BY CONTRACTOR.

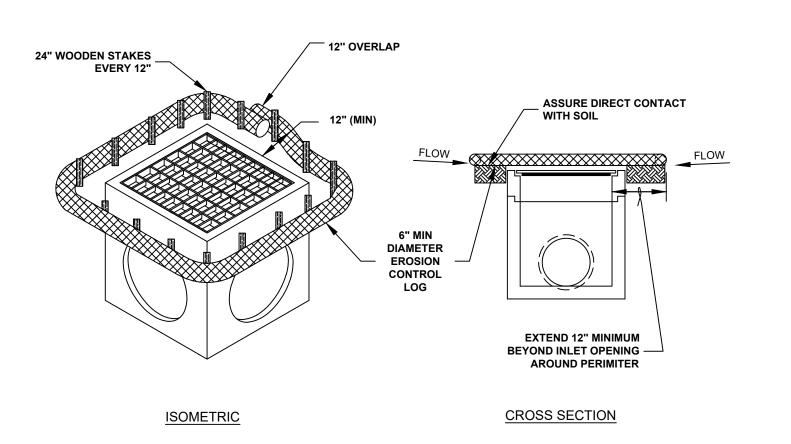
FLOODING FROM OCCURRING.

STAKE -

FABRIC —

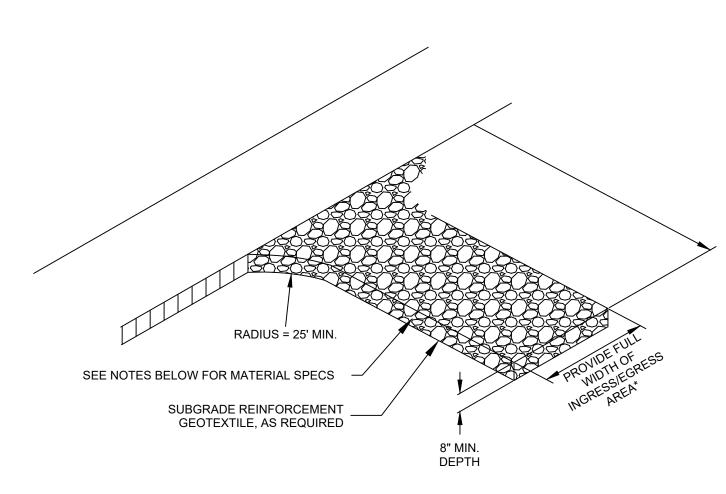
FILTER FABRIC INLET PROTECTION

NOT TO SCALE



#### NOTES:

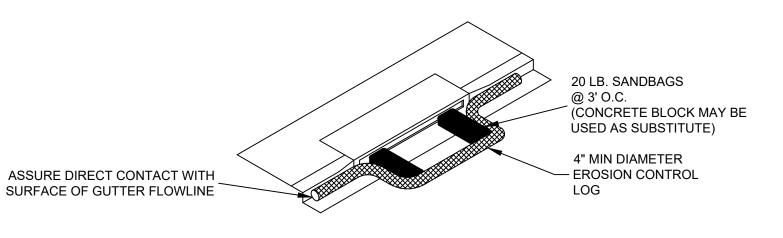
- 1. EROSION CONTROL LOG CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE;
- AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSIOR FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100% RECYCLABLE FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY. 2. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH
- **REACHES 50% CAPACITY.**
- 3. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND
- IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS. 4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

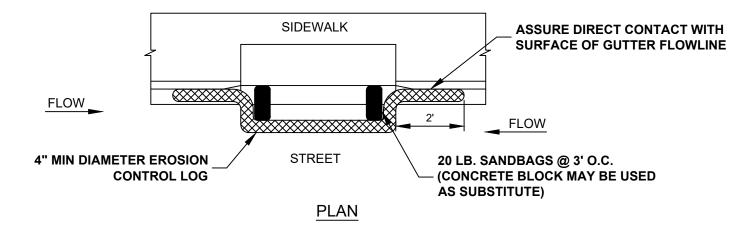


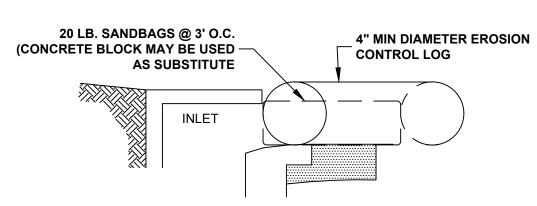
\*20' MIN. FOR SINGLE FAMILY AND DUPLEX RESIDENTIAL

- 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP
- 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- 4. WHERE RUNOFF CONTAINING SEDIMENT-LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
- 5. DIMENSIONS:
- 20' LONG BY 20' WIDE, 8" DEEP OF 3/4" MINUS CLEAN ROCK.
- COMMERCIAL
  50' LONG BY 20' WIDE, 3-6" DEEP CLEAN ROCK. GOVERNING AUTHORITY MAY REQUIRE GEOTEXTILE FABRIC TO PREVENT SUB-SOIL PUMPING.

CONSTRUCTION ENTRANCE NOT TO SCALE

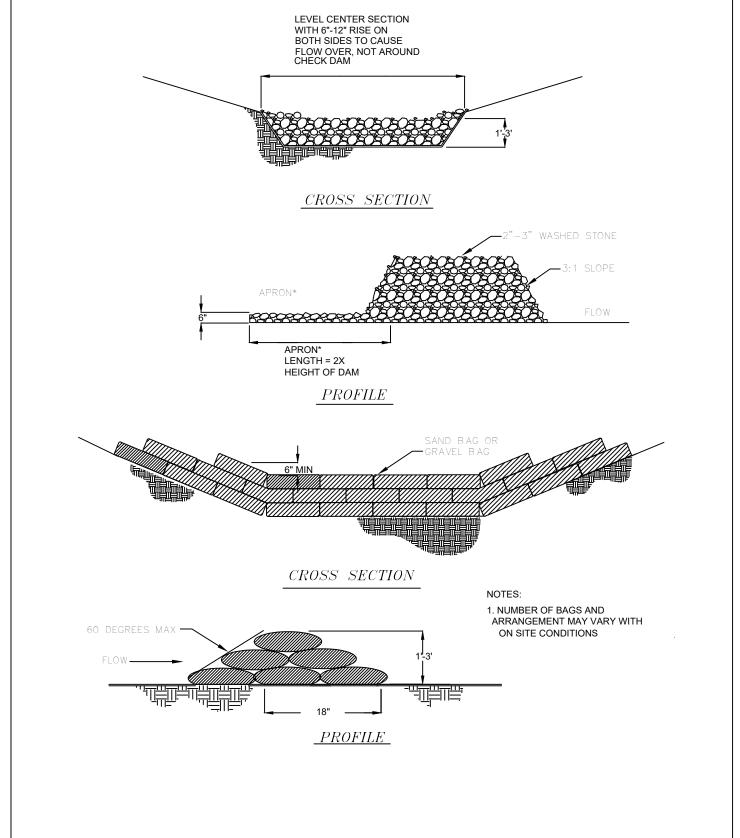


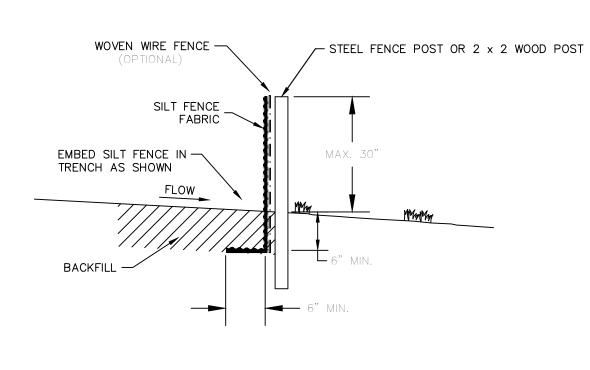


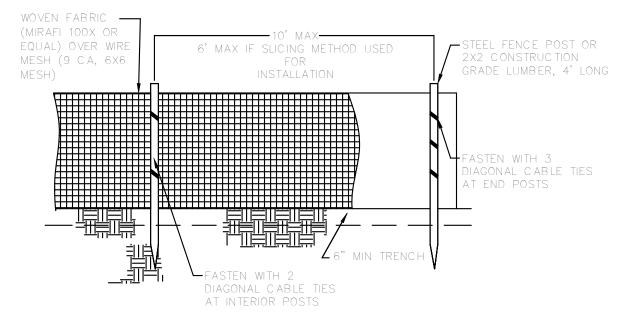


#### **CROSS SECTION**

- 1. EROSION CONTROL LOG CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE; AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSIOR FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100%
- RECYCLABLE FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY. 2. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH
- **REACHES 50% CAPACITY.** 3. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM WATER BEGINS TO OVERTOP THE CURB.
- 4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.



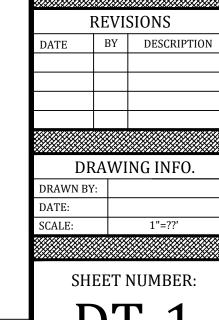




#### 1. PLACE SILT FENCE AT DOWNSLOPE LIMIT OF AREA TO BE GRADED.

2. SILT FENCE SHALL BE PLACED ALONG A LEVEL CONTOUR

- 3. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION. 4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR
- TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POSTS. 5. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE
- MADE PROMPTLY AS NEEDED. 6. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- 7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES 50% CAPACITY
- 8. AT EACH END OF SILT FENCE, TURN FENCE UPSLOPE AND EXTEND UNTIL GROUND SURFACE RISES 18 INCHES.



No. 13212

FIBER ROLL (WATTLE) INLET PROTECTION

NOT TO SCALE

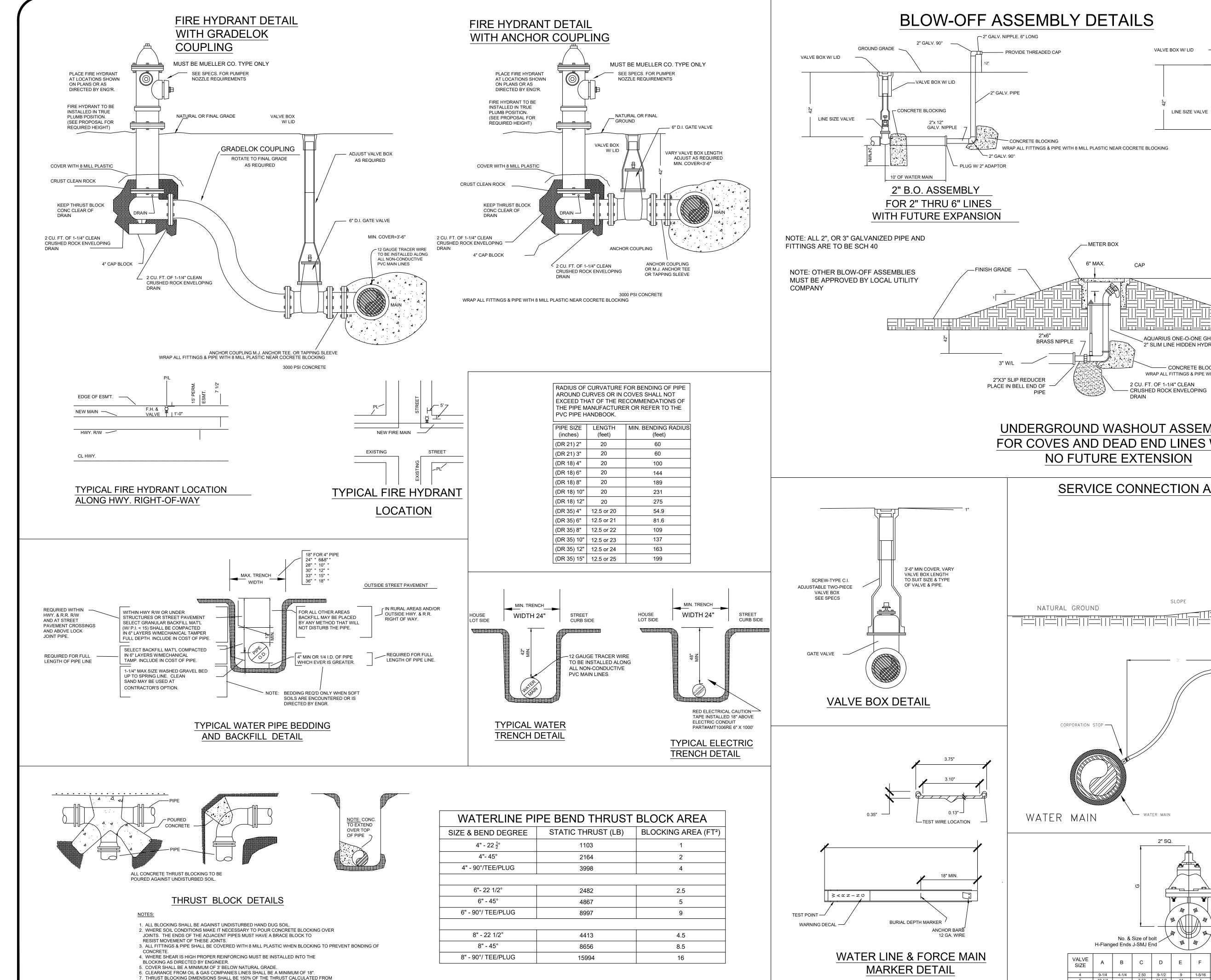
FIBER ROLL (WATTLE) CURB INLET PROTECTION

NOT TO SCALE

DITCH CHECKS (STONE & SAND BAG) NOT TO SCALE

SILT FENCE

NOT TO SCALE

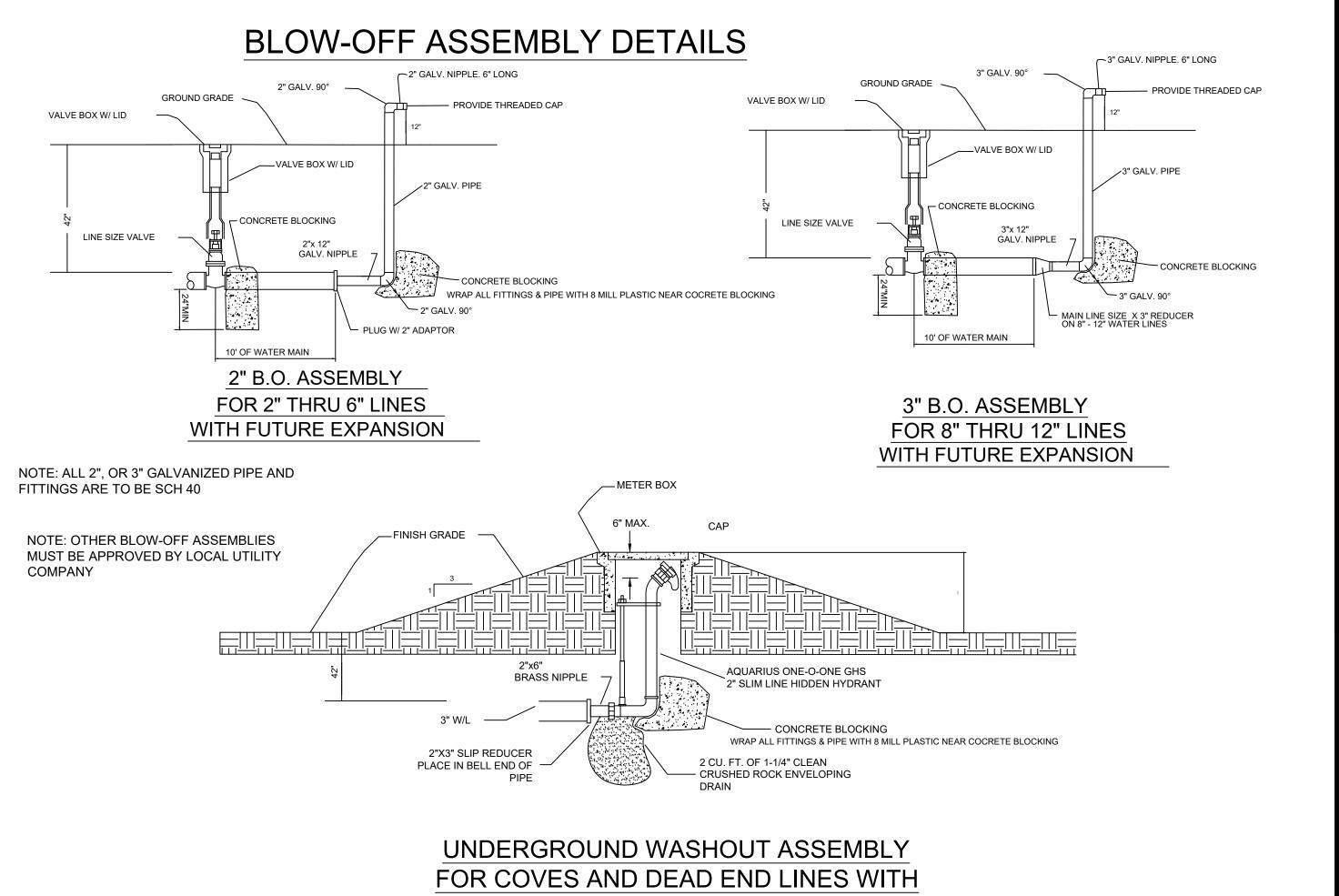


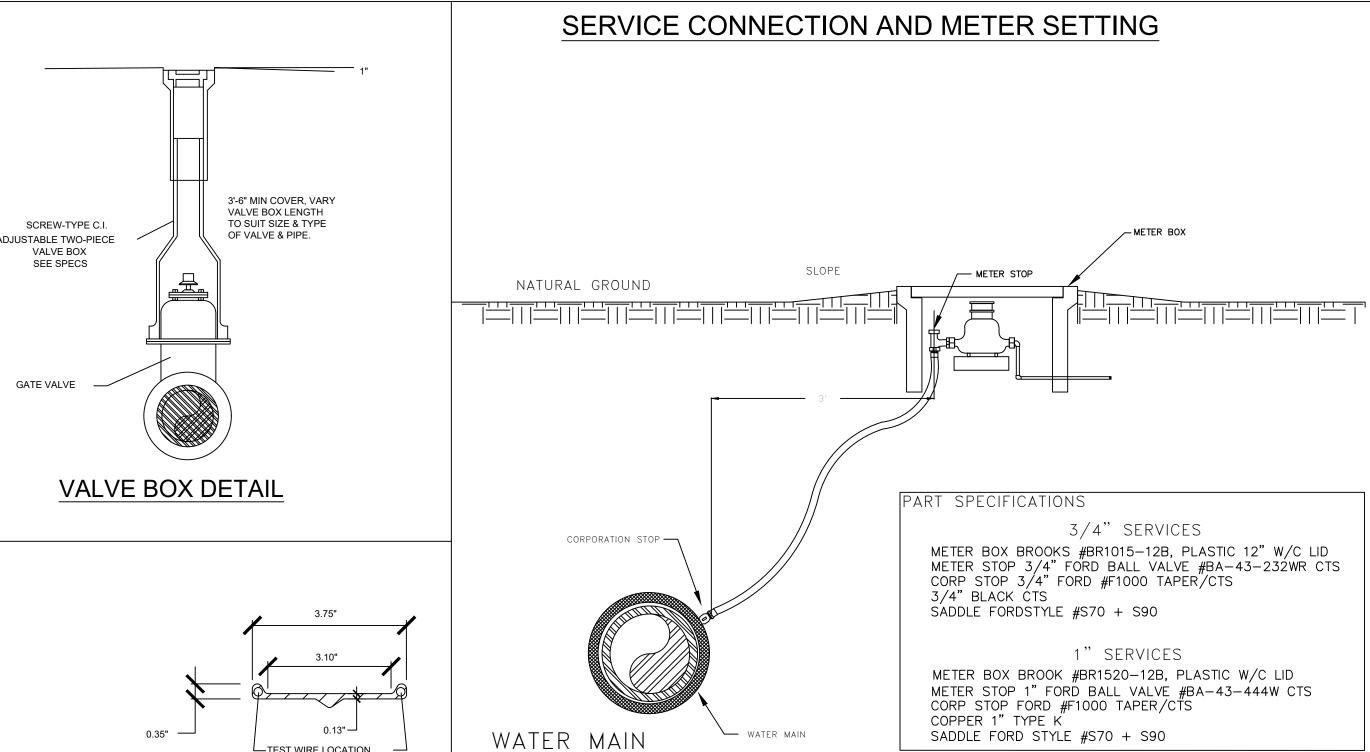
THE FORMULA (THRUST=2(A)(P)\*SIN( $\theta$ /2): WHERE A=PIPE END AREA. P=PRESSURE

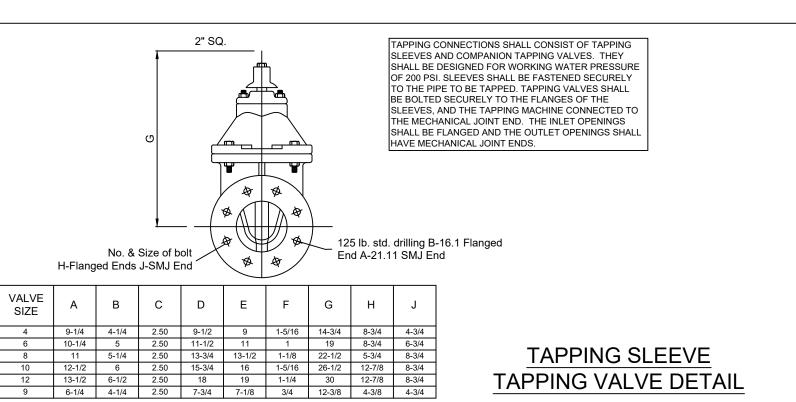
PRODUCED BY PUMPING LIQUID. & θ=ANGLE OF BEND TO BE BLOCKED) AND SOIL

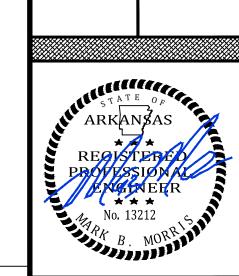
BEARING CAPACITY OF 1000 PSF.

8. ALL CONCRETE SHALL BE 3000 PSI AT 28 DAY STRENGTH.









Щ

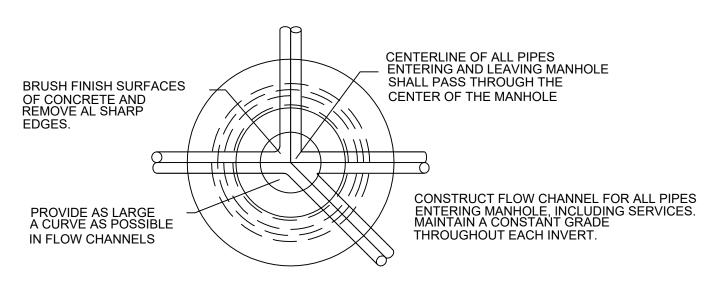
IF

Ь

	_	
	REVI	SIONS
DATE	BY	DESCRIPTION
D	RAW	ING INFO.
DRAWN I	BY:	

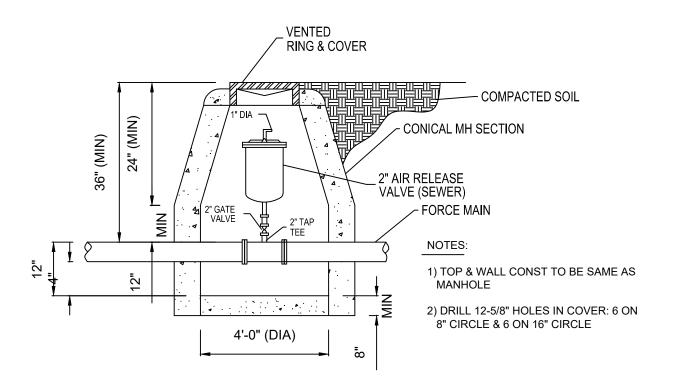
- 1. MANHOLE BASES TO BE 4000 PSI, 28 DAY STRENGTH, LIMESTONE MIX CONCRETE ON UNDISTURBED SUB-GRADE OR ON COMPACTED SELECT FILL MATERIAL AS AUTHORIZED.
- 2. MANHOLE SIDEWALL MATERIAL TO BE CONCRETE IN ACCORDANCE
- WITH PROPOSAL FORM REQUIREMENTS. a. 4' I.D. FOR SEWER SIZES 6" THRU 24"
- b. 5' I.D. FOR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

#### STANDARD MANHOLE



 $\frac{\mathsf{PLAN}}{\mathsf{N.T.S.}}$ MANHOLE DETAILS

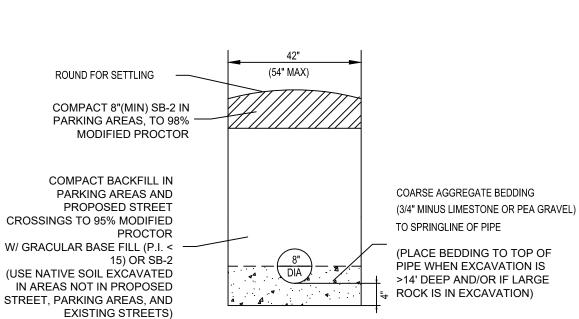
#### AIR/VACUUM RELEASE VALVE DETAIL

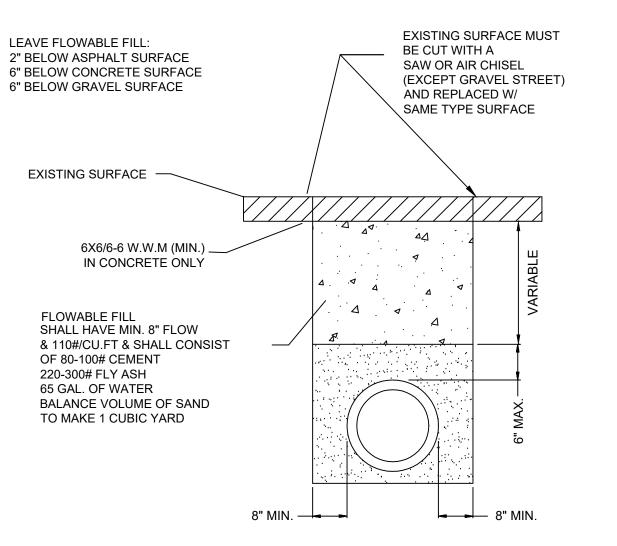


#### NON-EXISTING STREET LOCATIONS SDR-26 PVC TRENCH DETAIL

#### NOTES:

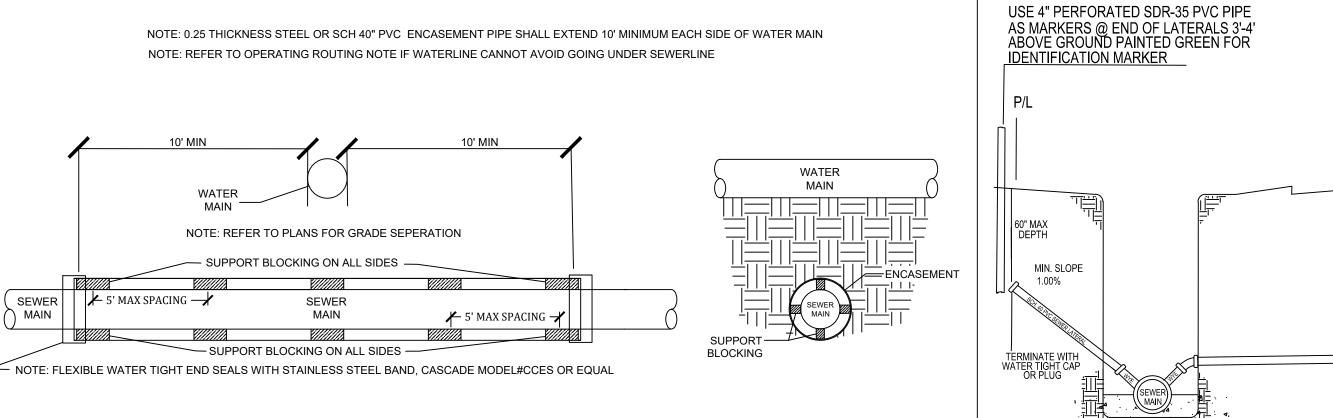
- 1. COARSE AGGREGATE SHALL BE MECHANICALLY TAMPED WHEN USED. 2. PIPE IN TRENCH SHALL BE PLACED ON NO LESS THAN 4" OF 3/4" MINUS LIMESTONE. ALL OVER EXCAVATION SHALL BE COMPACTED BACK TO GRADE W/ BEDDING MATERIAL.
- 3. PVC PIPE SHALL BE SDR-26 AND INSTALLED IN ACCORDANCE WITH UNI-BELL PVC PIPE ASSOCIATION'S RECOMMENDATIONS FOR CONSTRUCTION.



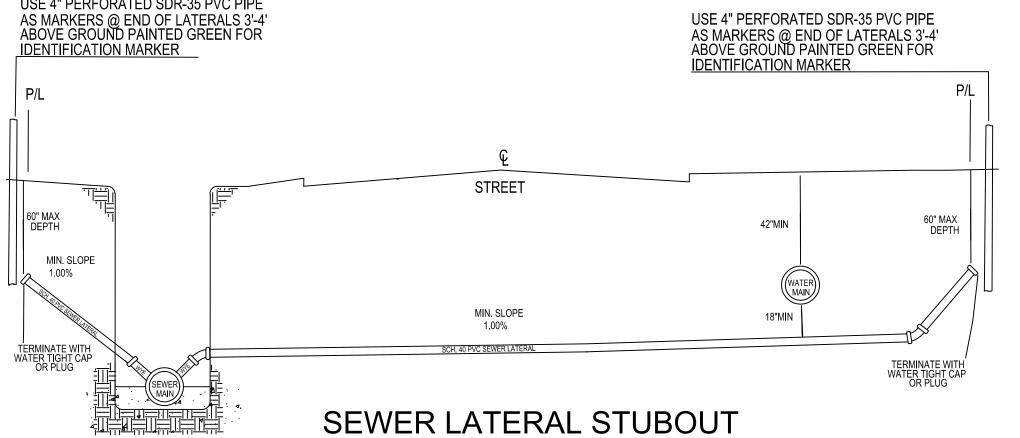


#### **EXISTING STREET LOCATIONS**

#### PVC TRENCH DETAIL



**ENCASEMENT FOR SEWER MAINS AT WATER CROSSINGS** NOTE: WHEN 18" VERTICAL SEPERATION CANNOT BE MAINTAINED



PERMITS REQUIRED BEFORE INSTALLATION USE SAME CONFIGURATION FOR MANHOLE STUBOUTS

SINGLE WYE

ALL SERVICE LINES UNDER PAVEMENT SHALL BE

TEE WYE ONLY

**SCH 40** 

SDR-26 X SCH 40 PVC WYE

-HOUSE SERVICE LINE

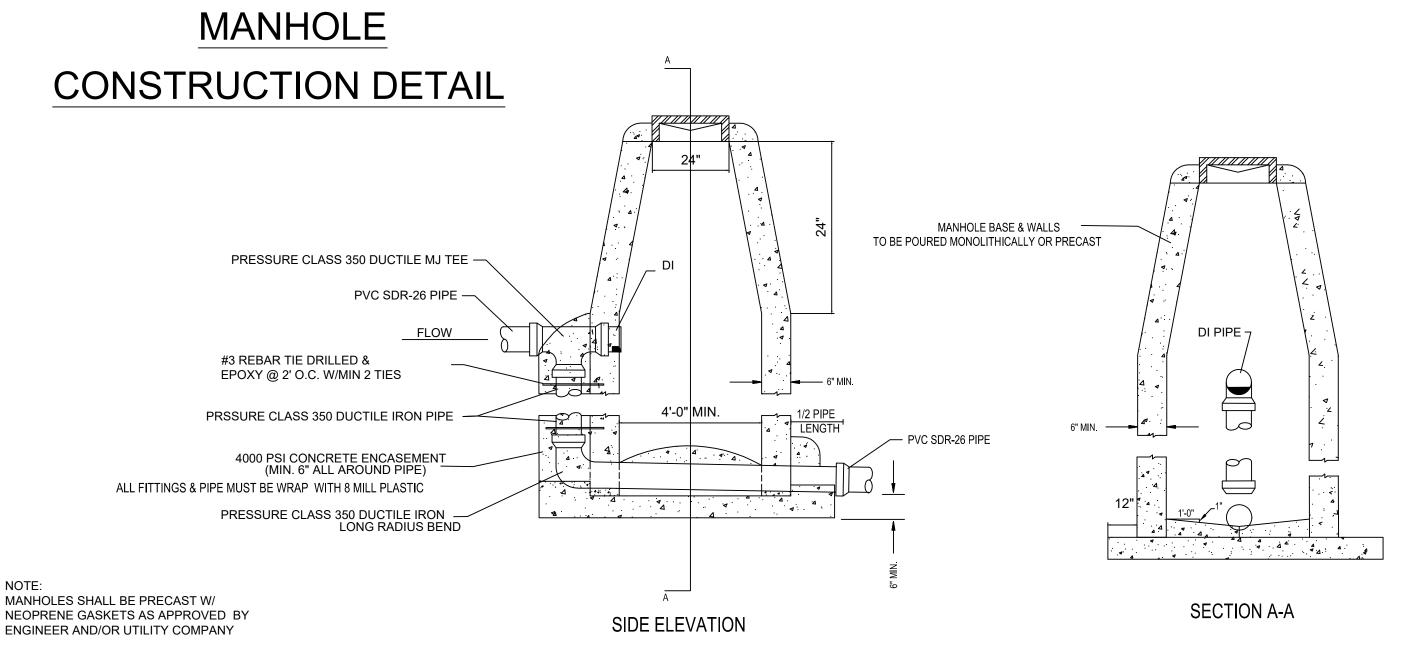
PVC SCH 40 PIPE W/ PVC SCH 40 COUPLINGS

## MANHOLE BASE & WALLS TO BE POURED MONOLITHICALLY OR PRECAST MANHOLES SHALL BE 4000 PSI, 28 DAY STRENGTH LIMIESTONE MIX CONCRETE PVC SDR-26 PIPE

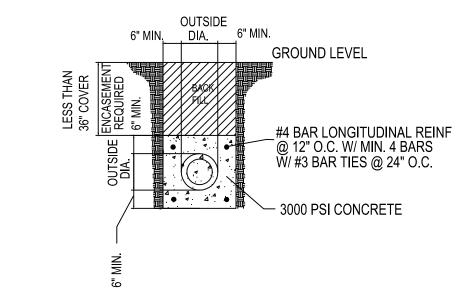


SIDE ELEVATION

**SECTION A-A** 



DROP MANHOLE



**CONCRETE ENCASEMENT** FOR

**DITCH CROSSINGS** 

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

DRAWING INFO.

Щ S GRO CIFI

REVISIONS BY DESCRIPTION

SHEET NUMBER: DT-3

