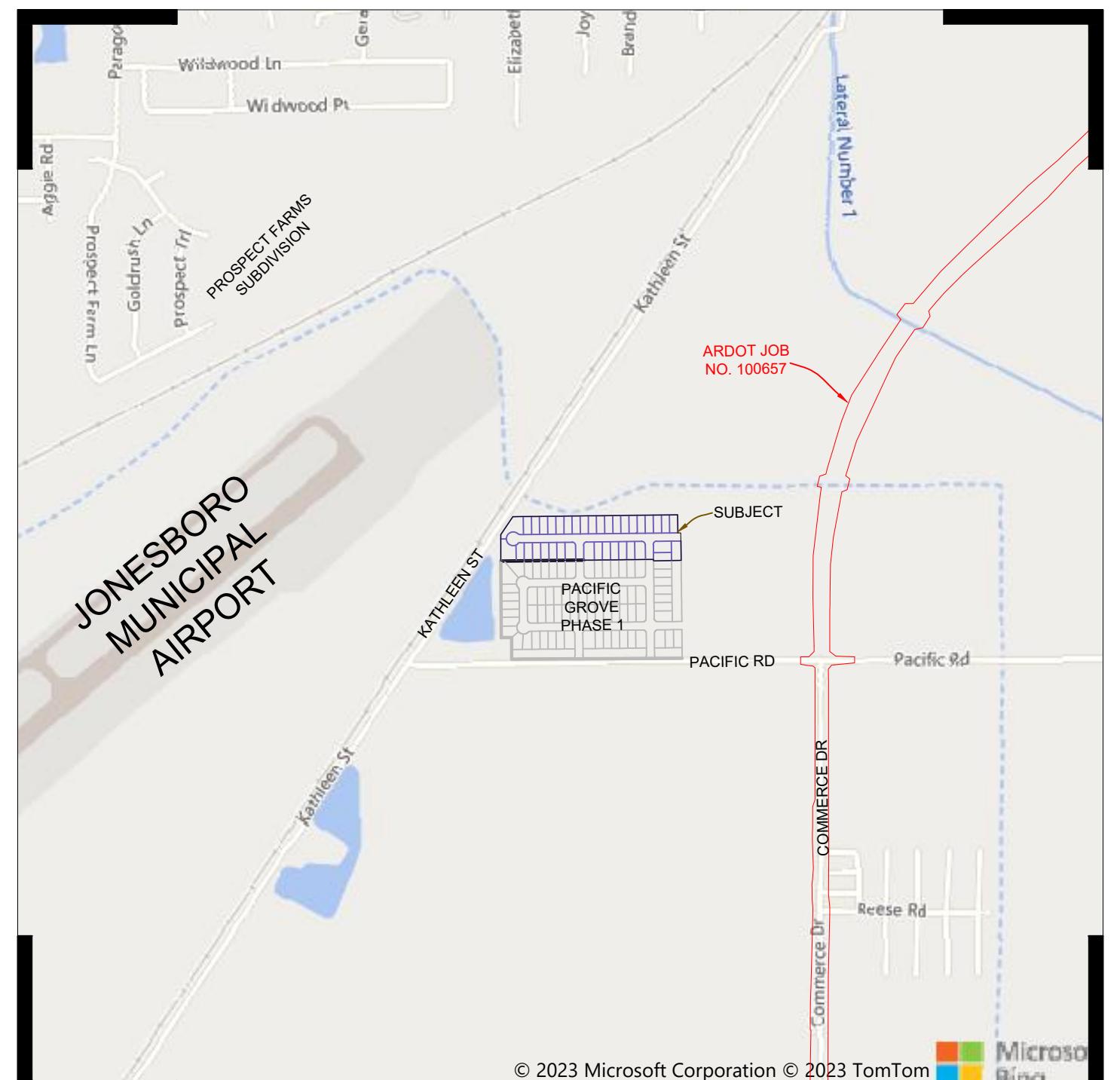


PACIFIC GROVE PHASE 2

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)

INDEX OF SHEETS

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

PACIFIC GROVE - PHASE 2
COVER PAGE

PACIFIC GROVE - PHASE 2

COVER PAGE

MARK MORRIS P.E.
6011 SOUTHWEST DRIVE
JONESBORO, AR 72404
PH: 1-870-919-7700
MARK@MARKMORRISHOMES.COM



REVISIONS

DATE BY DESCRIPTION

DRAWING INFO.

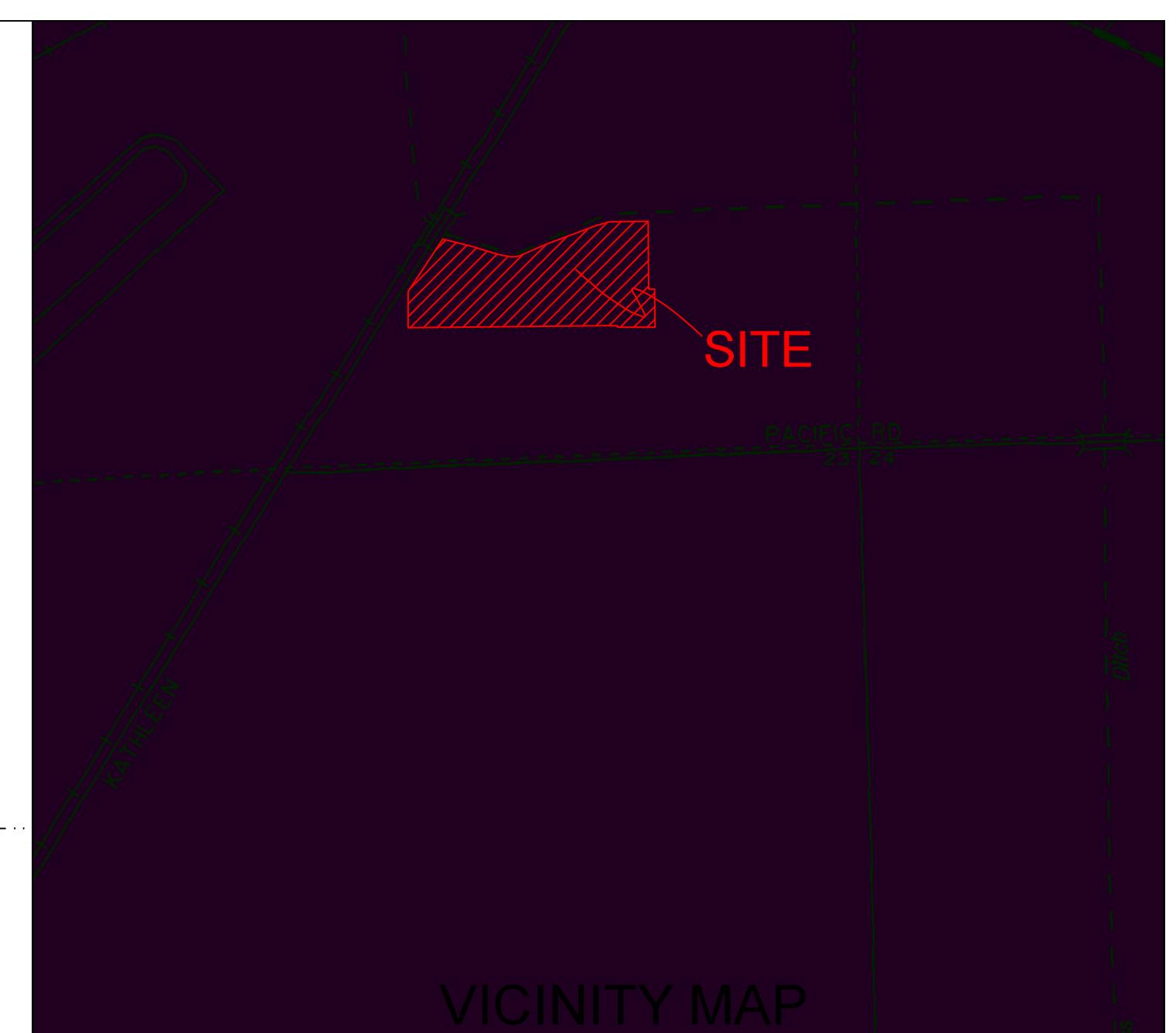
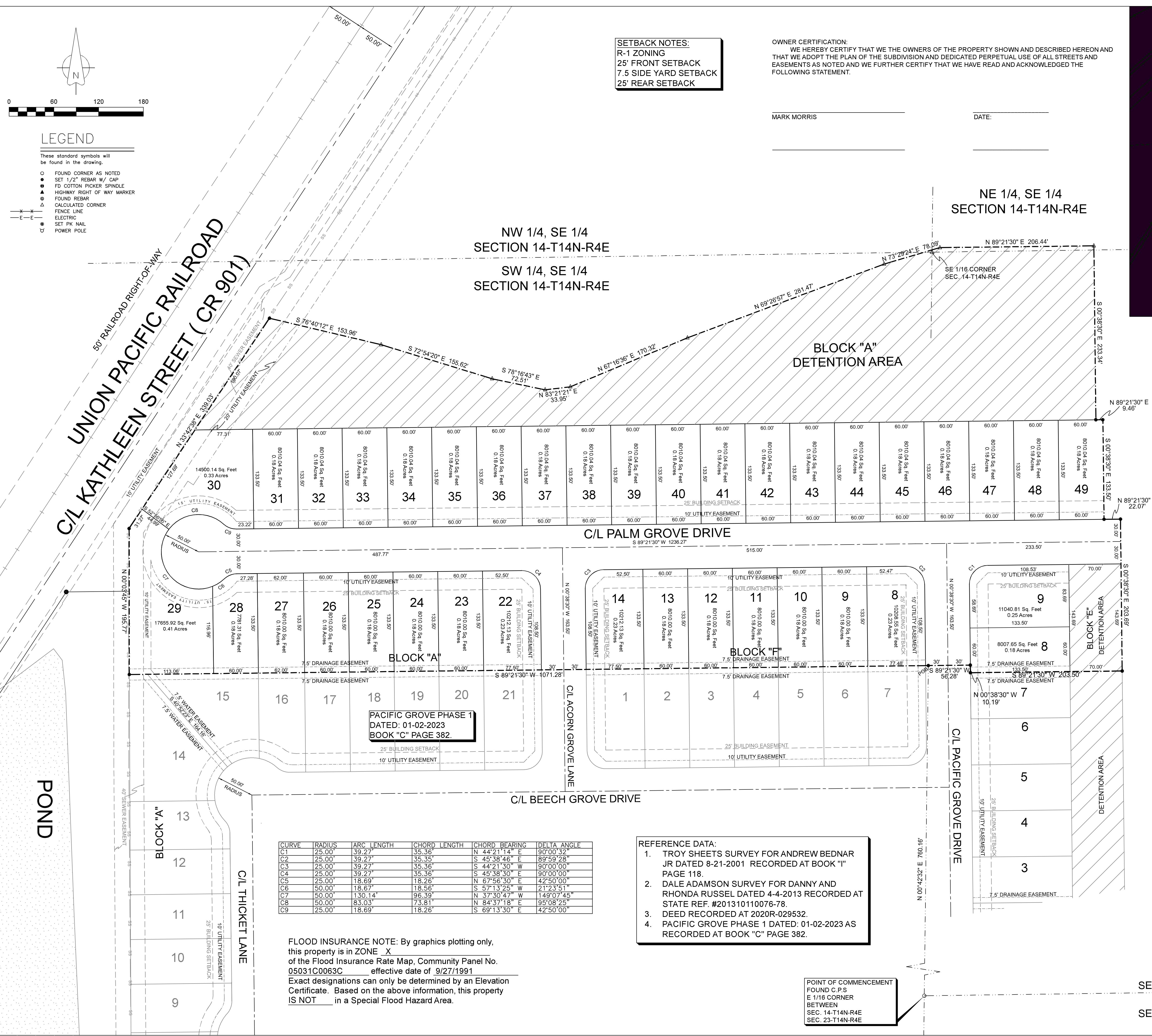
DRAWN BY: JMH

DATE: 7/24/2023

SCALE: 1"=77'

SHEET NUMBER:

C-1



**H&SHIME PROFESSIONAL
SURVEYING SERVICES**

1817 WOODSPRINGS RD. - STE. "F"
JONESBORO, ARKANSAS 72401

PHONE: 870-972-1288
E-MAIL: hshime_butch@yahoo.com

PACIFIC GROVE SUBDIVISION PHASE II
A PART OF THE SOUTH HALF OF SECTION 14, TOWNSHIP 14
NORTH, RANGE 4 EAST, JONESBORO, ARKANSAS
PRELIMINARY PLAT

DATE: 7-19-2023
REV:

H AND S

PROFESSIONAL LAND SURVEYORS
SHAWN L. HIME

PLS # 1783

ELIC GROVE SUBDIVISION PHASE
OF THE SOUTH HALF OF SECTION 14, TOWNSHIP
RANGE 4 EAST, JONESBORO, ARKANSAS
NARY PLAT

PART NORTH RELIM

一 二 三

DATE: 7-19-2023

DRAWN BY: S. HIME

STATE OF AUTHORITY

A circular logo with a decorative border. The text "HIME" is at the top, "PROFESSIONAL" is in the middle, "SURVEYING" is in the center, "SERVICES" is below that, and "No. 1432" is at the bottom.

SHAWN L. HIME
REGISTER

The Arkansas state seal is circular with a decorative border. The words "PROFESSIONAL STATE OF ARKANSAS NO. 1783" are arranged in a circle around the center. The center contains the word "SIGNATURE" above a blank area for a signature, and below it, the name "SHAWN L. HIME".

PL 2 # 1700



Know what's below.
Call before you dig.

OV-1

PACIFIC GROVE - PHASE 2

KEY MAP

MARK MORRIS P.E.

6011 SOUTHWEST DRIVE
JONESBORO, AR 72404
PH: 1-870-919-7700
MARK@MARKMORRISHOMES.COM

MARK MORRIS



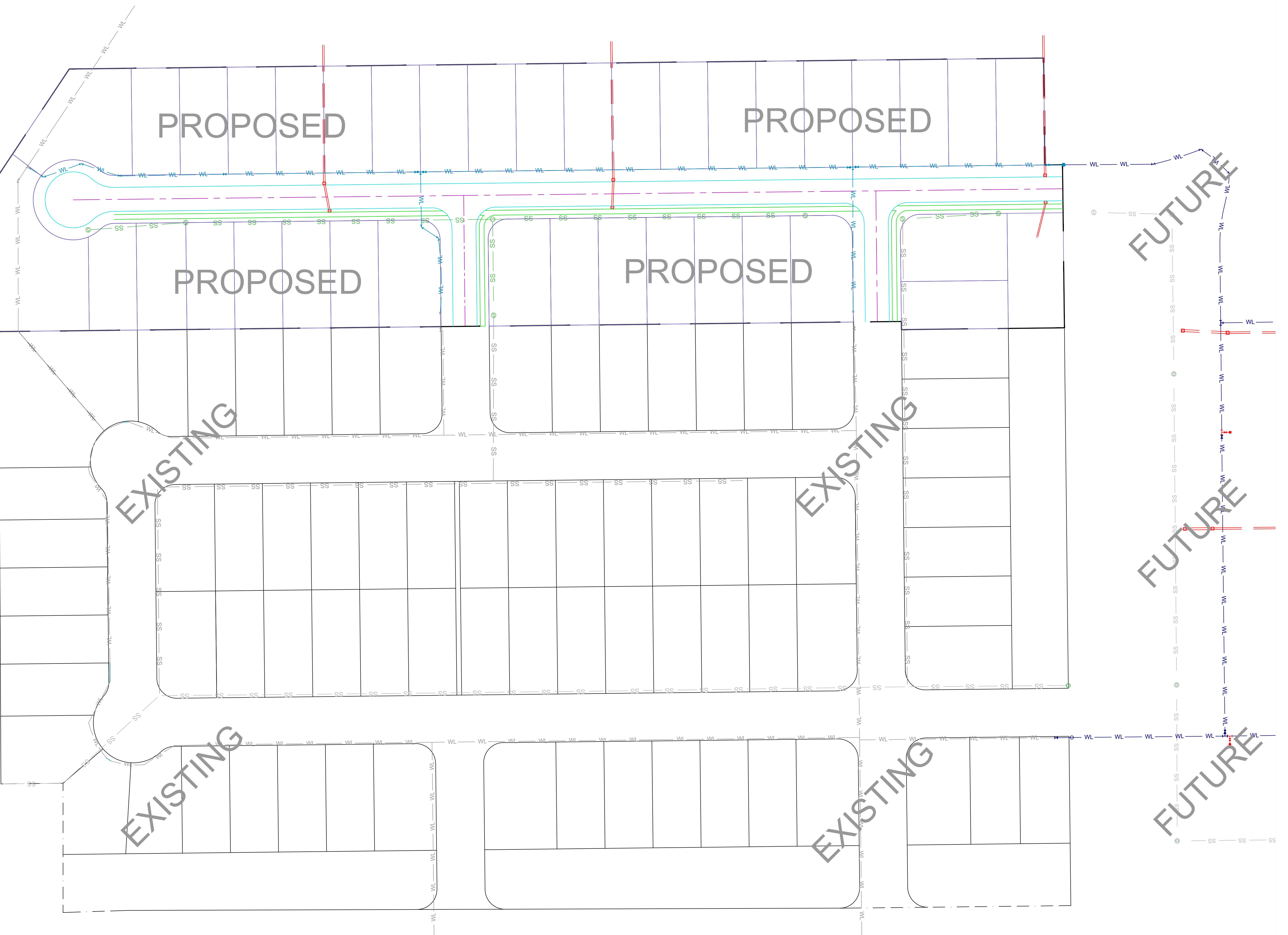
REVISIONS

DATE BY DESCRIPTION

PACIFIC GROVE - PHASE 2

MARK MORRIS

OVERALL UTILITY MAP



Know what's below.
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REVISIONS

DATE BY DESCRIPTION

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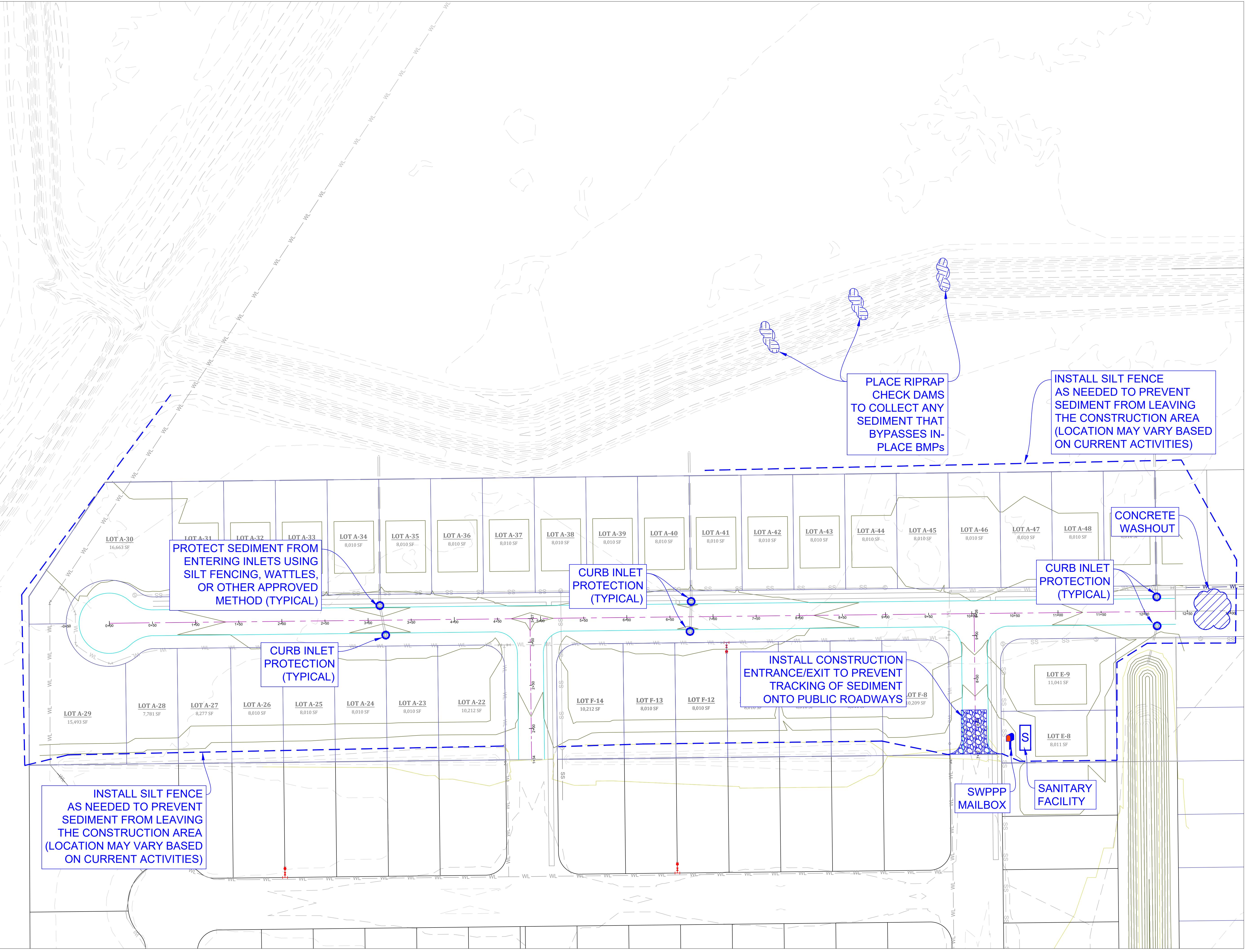
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DATE: 7/24/2023
SCALE: 1"=60'

SHEET NUMBER:

OV-2

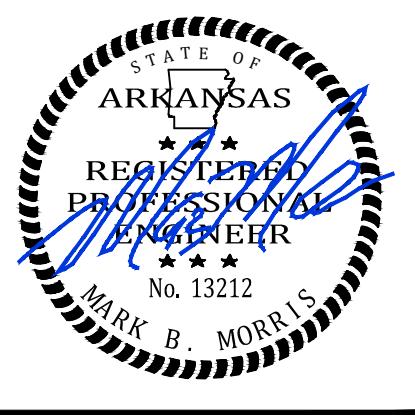
MARK

PACIFIC GROVE - PHASE 2 EROSION CONTROL PLAN



Know what's below.
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E-1



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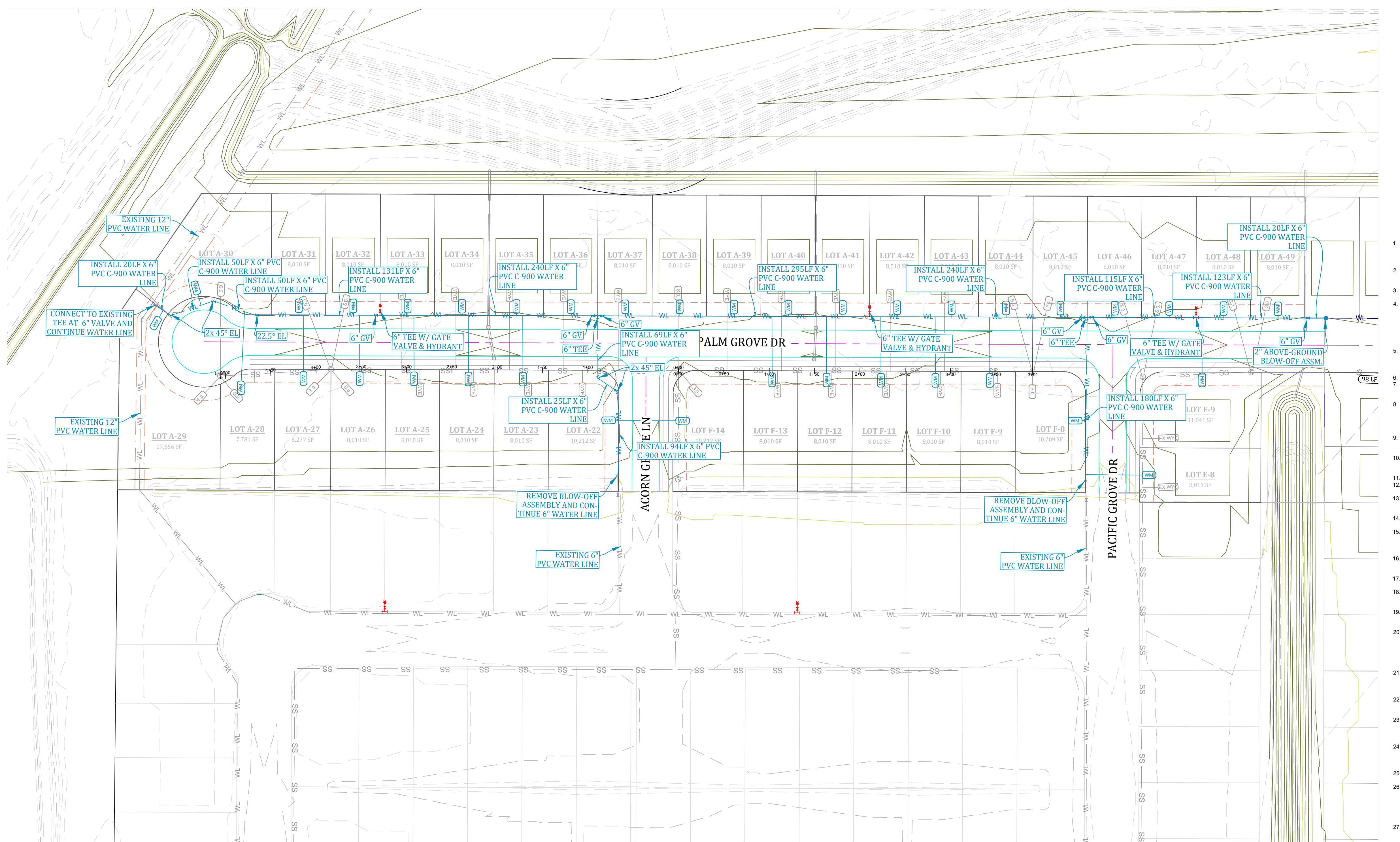
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| DRAWN BY: | JMH |
| DATE: | 8/23/2023 |
| SCALE: | 1" = 50' |

SHEET NUMBER:

PACIFIC GROVE - PHASE 2 **GENERAL WATER PLAN**

WORKS



| LEGEND | |
|--------|--------------------|
| | CURB |
| | SIDEWALK |
| | SL-1 |
| | WATER LINE |
| | WATER METER |
| | Fire Hydrant |
| | Blow-off Assembly |
| | Gate Valve |
| | Storm Drain Inlet |
| | Storm Drain Pipe |
| | Sanitary Sewer |
| | Sewer Manhole |
| | Sewer Wye |
| | Ex. Sewer Wye |
| | Ex. Sewer Stub-out |
| | Ex. Sewer Wye |
| | Ex. Sewer Stub-out |

TOTAL WATERLINE QUANTITIES:
1652 LF - 6" C-900 PVC WATERLINE
23 - 3/4" SHORT SERVICES
14 - 3/4" LONG SERVICES

PRESURES:
STATIC PRESSURE = 64 PSI
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") & 3/8" RAD ELBOWS FOR RISERS & 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 APPROVAL).
- CONTRACTOR SHALL PROVIDE 3/4" METER STOP, TAP, SERVICE LINE & METER BOX AS REQUIRED BY CWL & INSTALL AS REQUIRED BY CWL.
- CONTRACTOR SHALL PROVIDE ENGINEER W/ "AS-BUILT" DIMENSIONS FOR WYE'S, VALVES, TEES, BENDS, FIRE HYDRANTS & WATER METERS.
- CONTRACTOR SHALL PROVIDE LABOR & 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 & PROVIDE COMPACTION TESTS AT 2' INTERVALS. CONTRACTOR SHALL PROVIDE LABOR & 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 1/8" SOLID TRACER WIRE SHALL BE INSTALLED WITH WATER LINE MAIN WHERE THERE SHALL BE A PERMANENT WATER LINE MARKER INSTALLED AT THE BEGINNING, THE END, AND 75' 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.
- 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).
- 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 GRADING.
- 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 IS BELOW STORM DRAIN, THEN THE CONTRACTOR SHALL PROVIDE WATER LINE INSTALLATION ON STORM DRAIN.
- CONTRACTOR SHALL PROVIDE OWNER WITH ONE YEAR WARRANTY FOR MATERIALS AND WORKMANSHIP.
- CONTRACTOR SHALL PROVIDE ENGINEER WITH LINEN RELEASES FOR MATERIALS AND LABOR, BACTERIAL SAMPLE RESULTS, AND MODEL & YEAR OF WATER LINE LINES WITHIN 30 DAYS OF COMPLETION OF WORK.
- CONTRACTOR SHALL DRESS UP PROJECT AFTER INSTALLATION TO THE CONDITION IT IS 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 CWL SPECIFICATIONS AND REVIEW THEM. CWL SPECIFICATIONS ARE SUBJECT TO CWL APPROVAL. CONTRACTOR SHALL USE THE CWL APPROVED CWL SPECIFICATIONS. CWL 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 POLYWRAP OVER DUCTILE IRON FITTINGS PRIOR TO PLACING CONCRETE BLOCKING TO PREVENT CONCRETE FROM ENCASING BOLTS & NUTS.
- ALL WATER LINES ARE DIAHGRAMMED IN ACCORDANCE WITH AWWA C-900 PRESSURE CLASS 150 OR 18. ALL 2" AND 3" DIAMETER WATER LINES SHALL BE SET IN CLASS 21 CLASS 200 (ASTM A-210). ALL SEWER LINES SHALL BE ASTM 2241 DR-26.
- WATER LINE AND SANITARY SEWER SHALL MAINTAIN 18" MINIMUM VERTICAL SEPARATION. WATER LINE AND STORM DRAIN SHALL MAINTAIN 30" 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 CWL, AND ALL NECESSARY FEES ARE PAID IN FULL. CONSTRUCTION CONTRACTOR SHALL THEN BEGIN ON-SITE. RECOMMENDED PRACTICES FOR THE CONSTRUCTION OF THE SEWER LINES 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.
- DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE 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 COMPETENT PERSON AT THE SITE AS DEFINED BY OSHA.
- THE 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. 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.
- 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 AND RE-CERTIFIED.
- INSTALLATION OF DOMESTIC WATER METER TAPS ARE REQUIRED TO BE MADE DURING THE INSTALLATION OF THE NEW WATER LINES.
- 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 IN A DRAINED POSITION. THE DRAINAGE PIPE AND THE WATER MAIN IS LAID PROPERLY AS AN ALTERNATIVE IN THE CASE OF CORRODED METAL PIPE. A SECTION MAY BE CUT FROM THE DRAINAGE PIPE, AND RESTORATION ACCOMPLISHED WITH NEW PIPE AND COUPLING BANDS.
- CWL 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 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 NOT TEST THE NEW SECTION.
- 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 AWWA C-600-93 FOR DUCTILE IRON AND AWWA C-605-94 FOR PVC.
- 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. THE WATER CAN BE FLUSHED FROM THE SYSTEM AND THE WATER MAIN TESTED FOR BACTERIAL QUALITY 72 HOURS 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 AT LEAST 2 FEET PER SECOND THE WATER LINE IS 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 CONSTRUCTION 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 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.
- 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.

| REVISIONS | | |
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| DRAWING INFO. | | |
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| DRAWN BY: | JMH | |
| DATE: | 7/24/2023 | |
| SCALE: | 1"=60' | |

SHEET NUMBER:

WT-1

811

Know what's below.
Call before you dig.

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 LINES 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 BEATHEN 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 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 CWL 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.

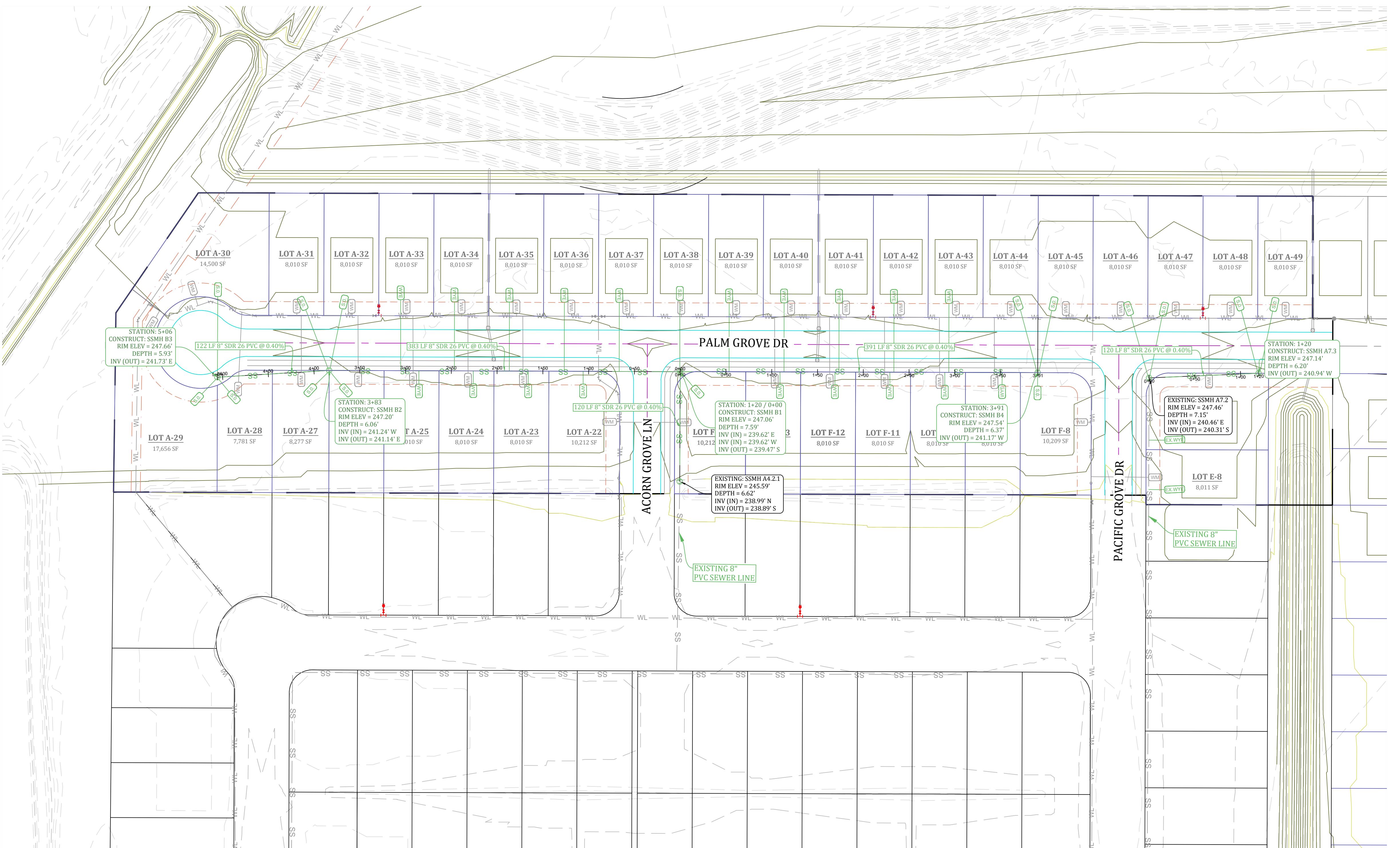
NO TRANSFORMER, JUNCTION BOX, OR PULL BOX TO BE PLACED OVER WATER FITTINGS WITHOUT CITY WATER AND LIGHT APPROVAL.

STATE OF
ARKANSAS
RECEIVED
PERMIT
MARK B. MORRIS
No. 13212

MARK MORRIS

PACIFIC GROVE - PHASE 2

GENERAL SEWER PLAN



| LEGEND | |
|----------------------------------|---|
| CURB | SD STORM DRAIN INLET |
| SIDEWALK | SDR STORM DRAIN PIPE |
| SL-1 CORRIDOR CROSS SECTION LINE | SS SANITARY SEWER |
| WL WATER LINE | SEWER MANHOLE |
| WM WATER METER | WYE SEWER WYE |
| | S.O. SEWER STUB-OUT |
| | FIRE HYDRANT |
| | BLOW-OFF ASSEMBLY EX. WYE EX. SEWER WYE |
| | GATE VALVE EX. S.O. EX. SEWER STUB-OUT |

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

RESPECTIVE SYMBOLS REPRESENTED IN PLAN VIEW ARE NOT TO SCALE

TOTAL SEWERLINE QUANTITIES:

1136 LF - 8" SDR 26 PVC

11 - SHORT LATERALS 6 - SHORT STUB-OUTS

10 - LONG LATERALS 10 - LONG STUB-OUTS

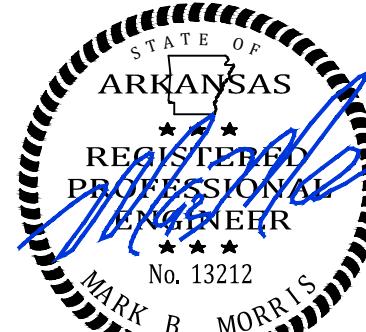
SANITARY SEWER NOTES:

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.
2. CONTRACTOR SHALL PROVIDE ENGINEER W/ "AS-BUILT" DIMENSIONS FOR WYE'S, VALVES, TEES, BENDS, FIRE HYDRANT ETC.
3. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR ALL SEWER, WATER, & ELECTRICAL LINE LATERALS & PROVIE LABOR & MATERIAL TO BACKFILL ALL SEWER, WATER & ELECTRICAL STREET CUTS WITH SANDY MATERIAL (P.L. <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 FLAT (P.L. <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 ELEVATIONS, AND FIRE HYDRANT ELEVATIONS. THE 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.
6. CONTRACTOR SHALL PROVIDE OWNER WITH ONE YEAR WARRANTY FOR MATERIALS AND WORKMANSHIP.
7. 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 WAS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL DRESS UP PROJECT TO 2' ALREADY FOR SETBACK INLAYS OF THE STREET.
9. ALL SURFACE 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 DROPS ASSEMBLIES.
11. ALL SEWER LINES SHALL BE ASTM 2241 SDR-26.
12. WATER LINE AND SANITARY SEWER LINE SHALL MAINTAIN 18" MINIMUM SEPARATION. WATER LINE AND STORM DRAIN SHALL NOT BE LOCATED IN THE SAME TRENCH. CONTRACTOR SHALL NOT LOCATE SANITARY SEWER LINE OVER 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.
13. 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 TO CONFIRM CONSTRUCTION TO VERIFY ALL CONSTRUCTION IS ACCEPTABLE TO CWL PRIOR TO THE INSTALLATION OF ELECTRICAL WIRE.
14. 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 OSHA.
15. 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.
16. IF SEWER AND WATER LINES HAVE NOT BEEN ACCEPTED BY CWL WITHIN 360 DAYS AFTER MANIFOLD TESTS, LOW PRESSURE TESTS, HYDROSTATIC TESTS AND BACTERIAL TESTS, ALL TESTS WILL BE REQUIRED TO BE REPEATED AND RE-CERTIFIED.
17. CWL ENGINEERING DEPT. MUST APPROVE ANY WATER OR SEWER LINES THAT WILL BE INSTALLED CLOSER THAN 5' PARALLEL WITH EDGE OF PAVED STREET SURFACE.
18. REPAIRS SHALL BE MADE IN ACCORDANCE WITH AWWA.
19. 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.



REVISIONS

| DATE | BY | DESCRIPTION |
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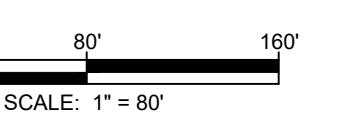
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| DATE: | 1/2/2023 |
| SCALE: | 1"=80' |

SHEET NUMBER:

SW-1

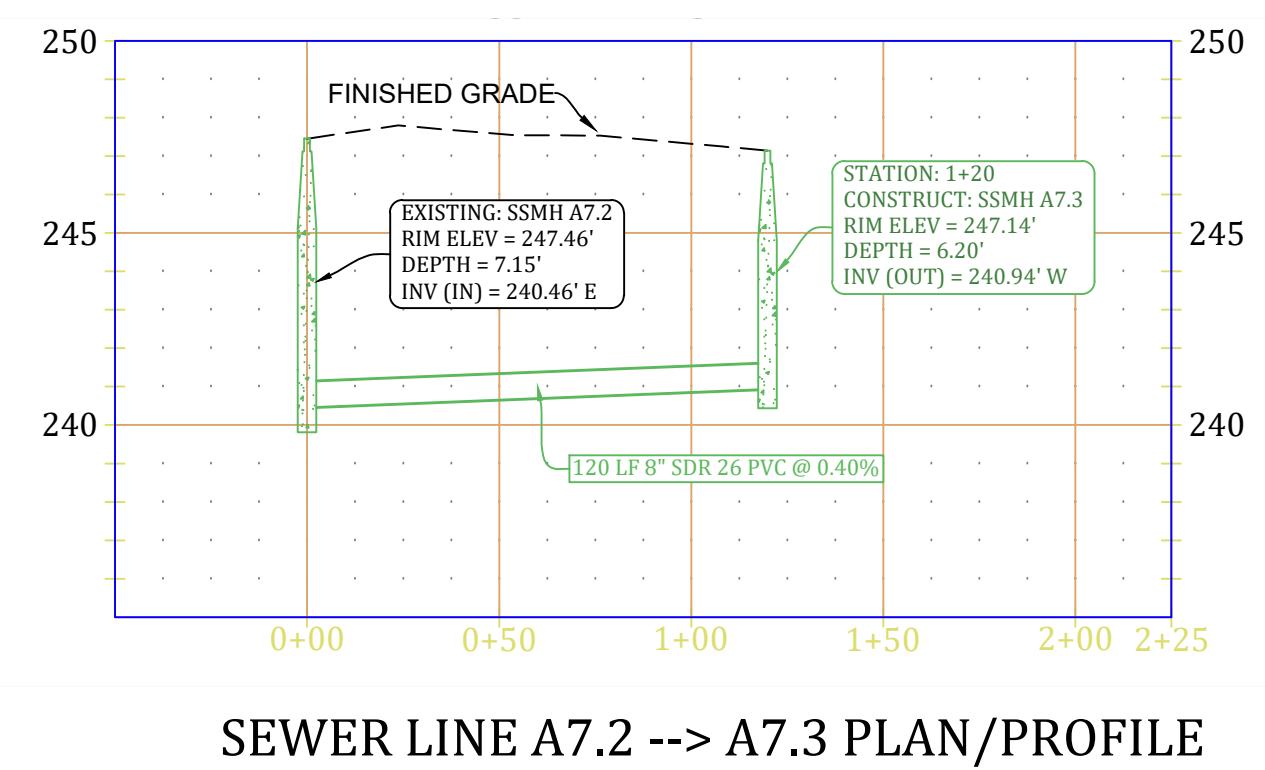
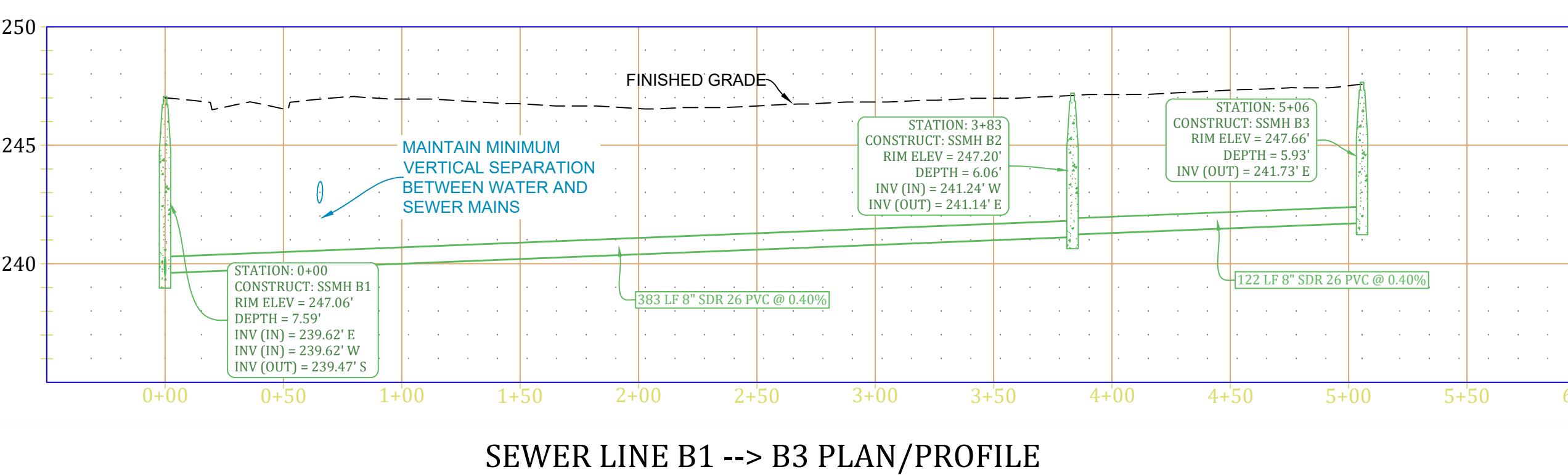
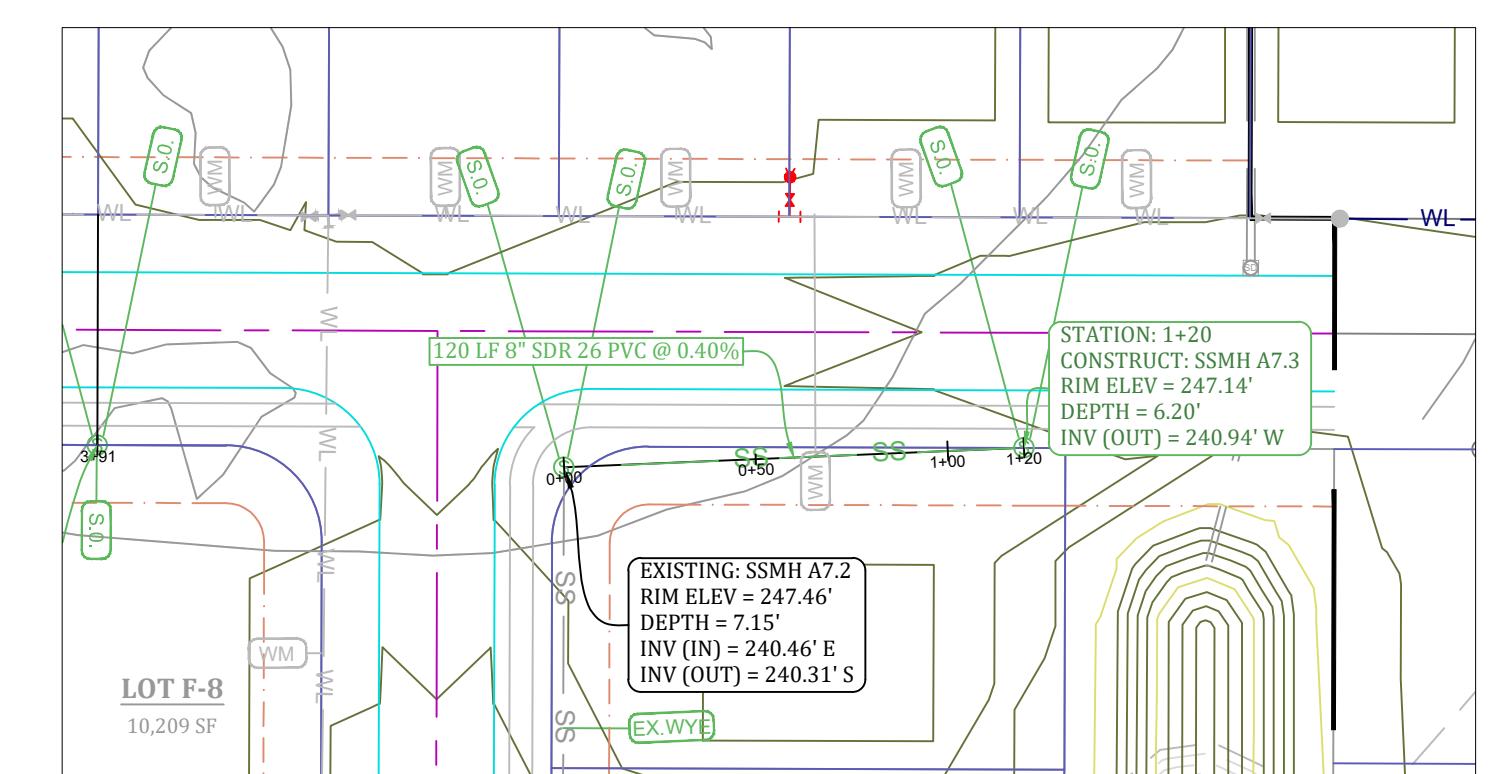
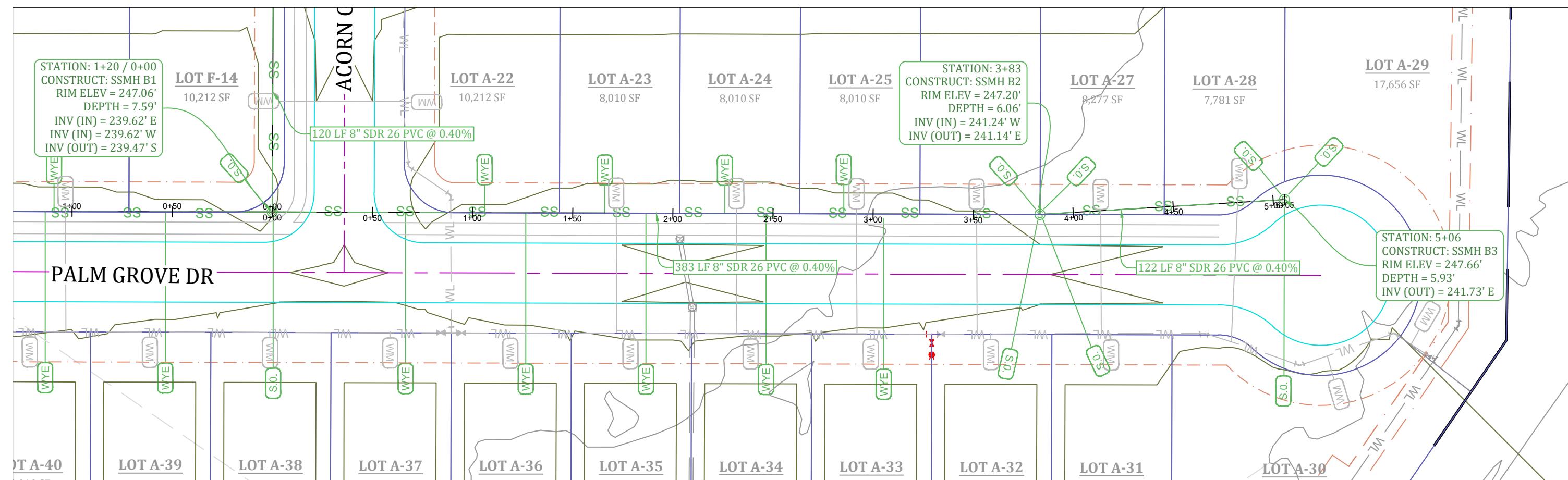
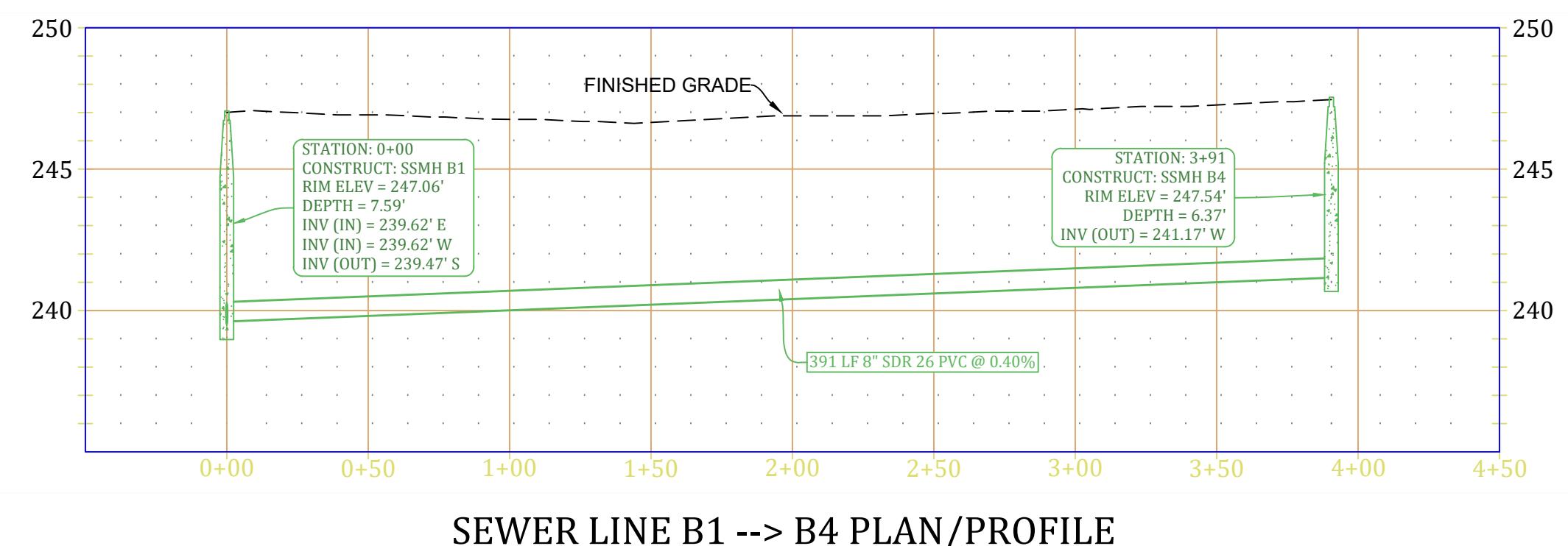
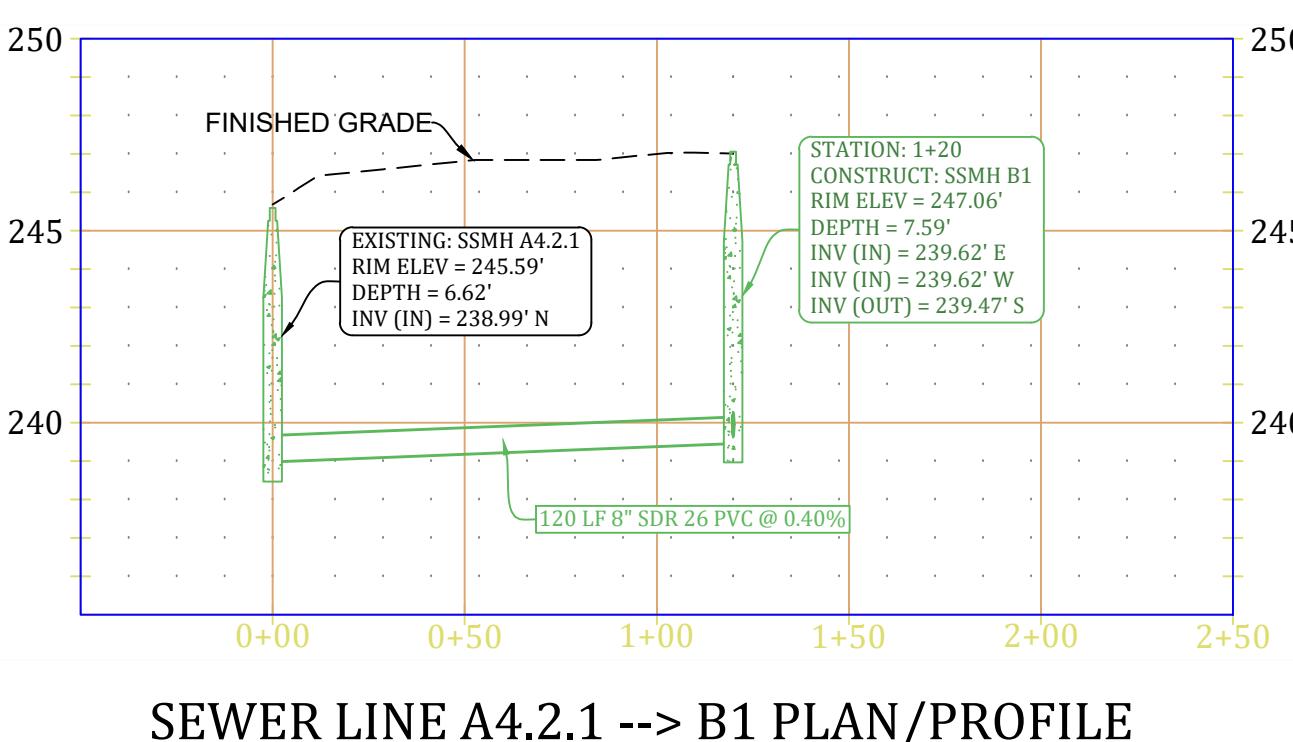
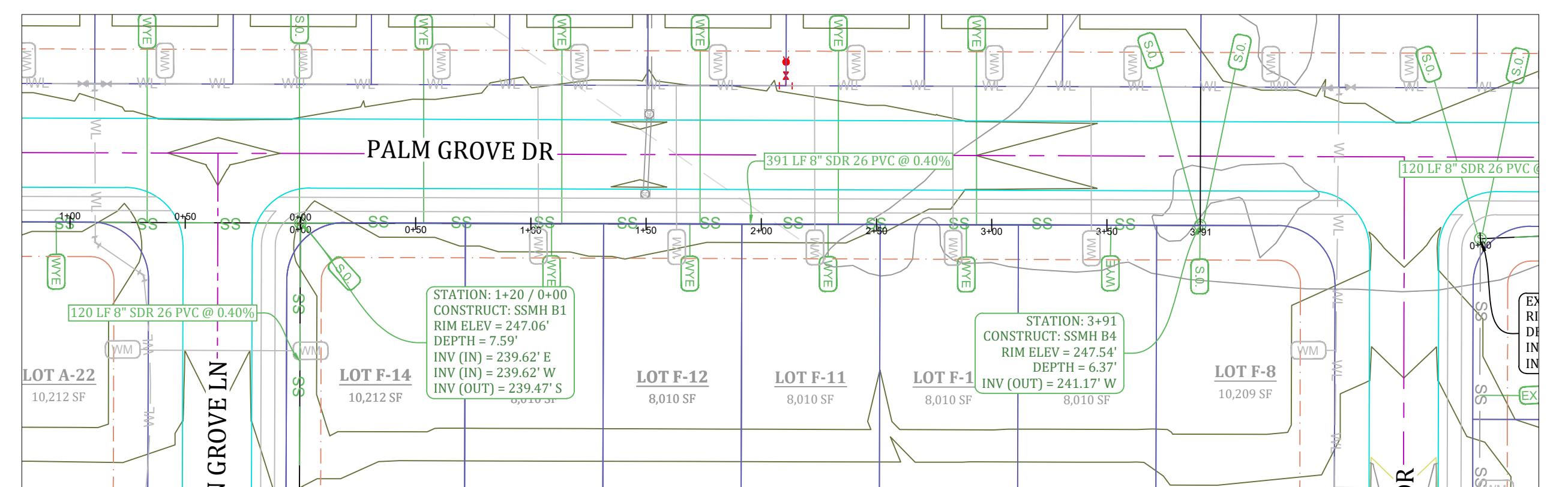
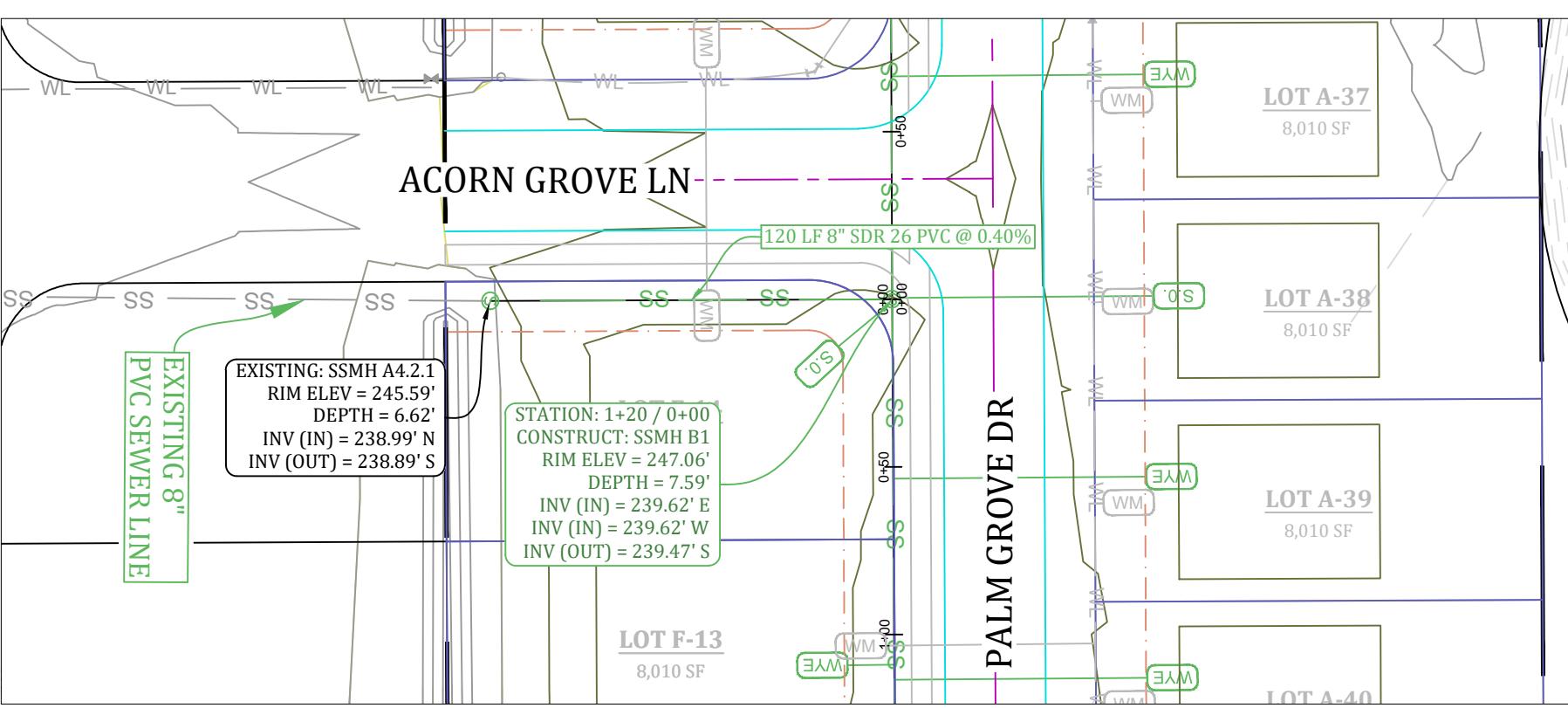


Know what's below.
Call before you dig.



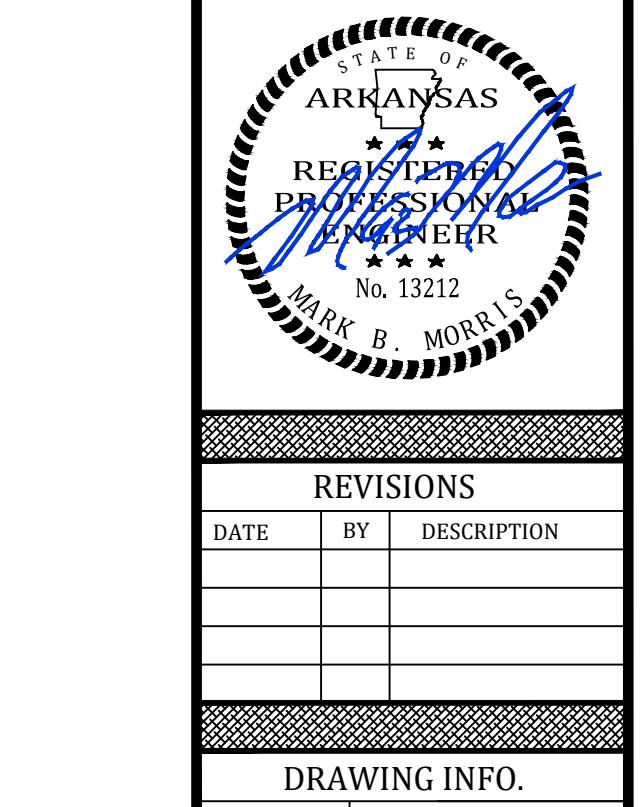
WORK

PACIFIC GROVE - PHASE 2 SEWER PLAN & PROFILE



0 50' 100'
SCALE: 1 = 50'
VERTICAL SCALE 1:5

SHEET NUMBER:
SW-2



| REVISIONS | | |
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| DATE | BY | DESCRIPTION |
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| DRAWING INFO. | | |
|---------------|----------|--|
| DRAWN BY: | jmh | |
| DATE: | 1/2/2023 | |
| SCALE: | 1=50' | |

MARK

PACIFIC GROVE - PHASE 2 GRADING & DRAINAGE PLAN



MARK MORRIS

PACIFIC GROVE - PHASE 2 STREET PLAN & PROFILE



REVISIONS

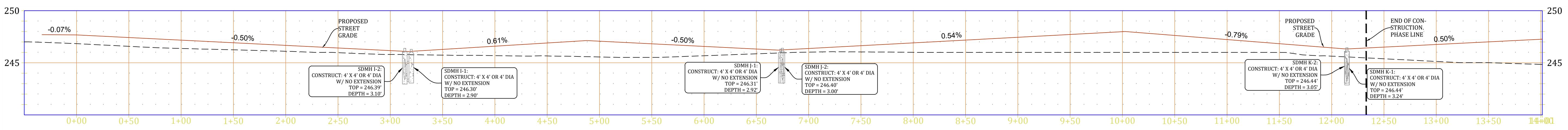
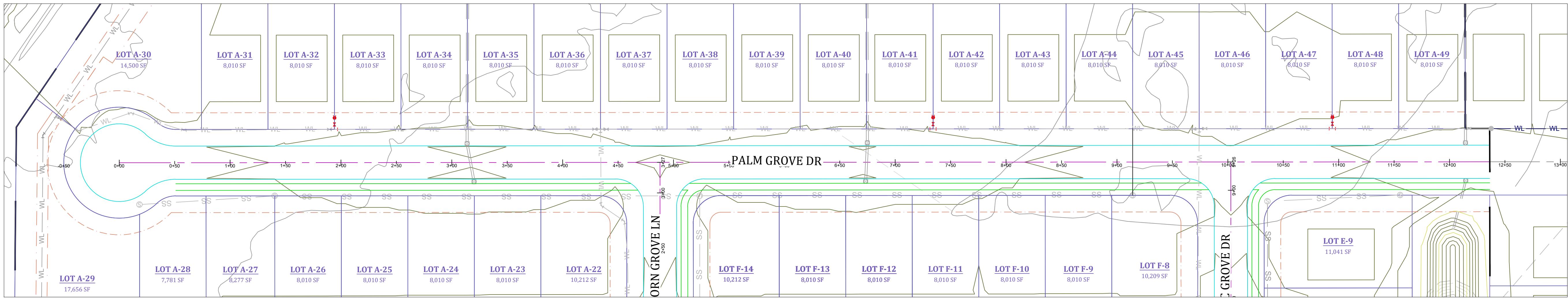
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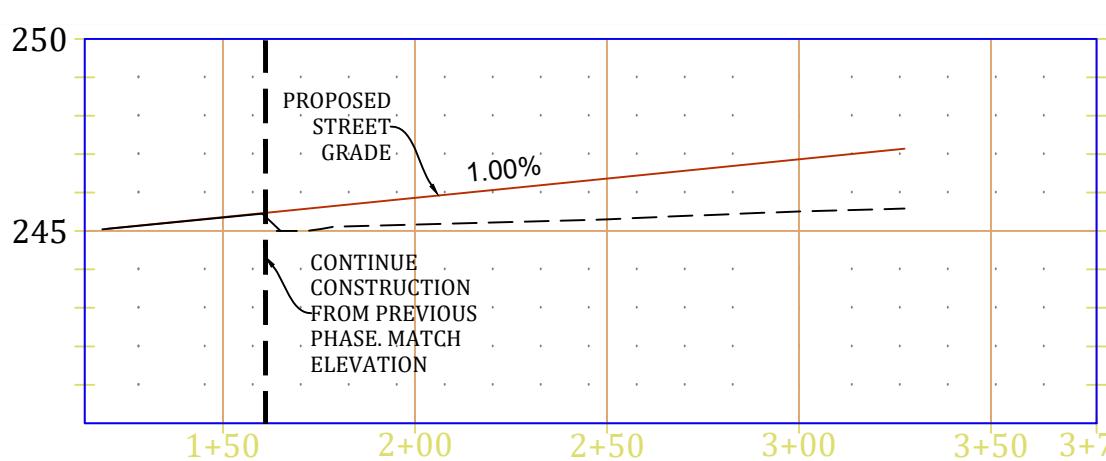
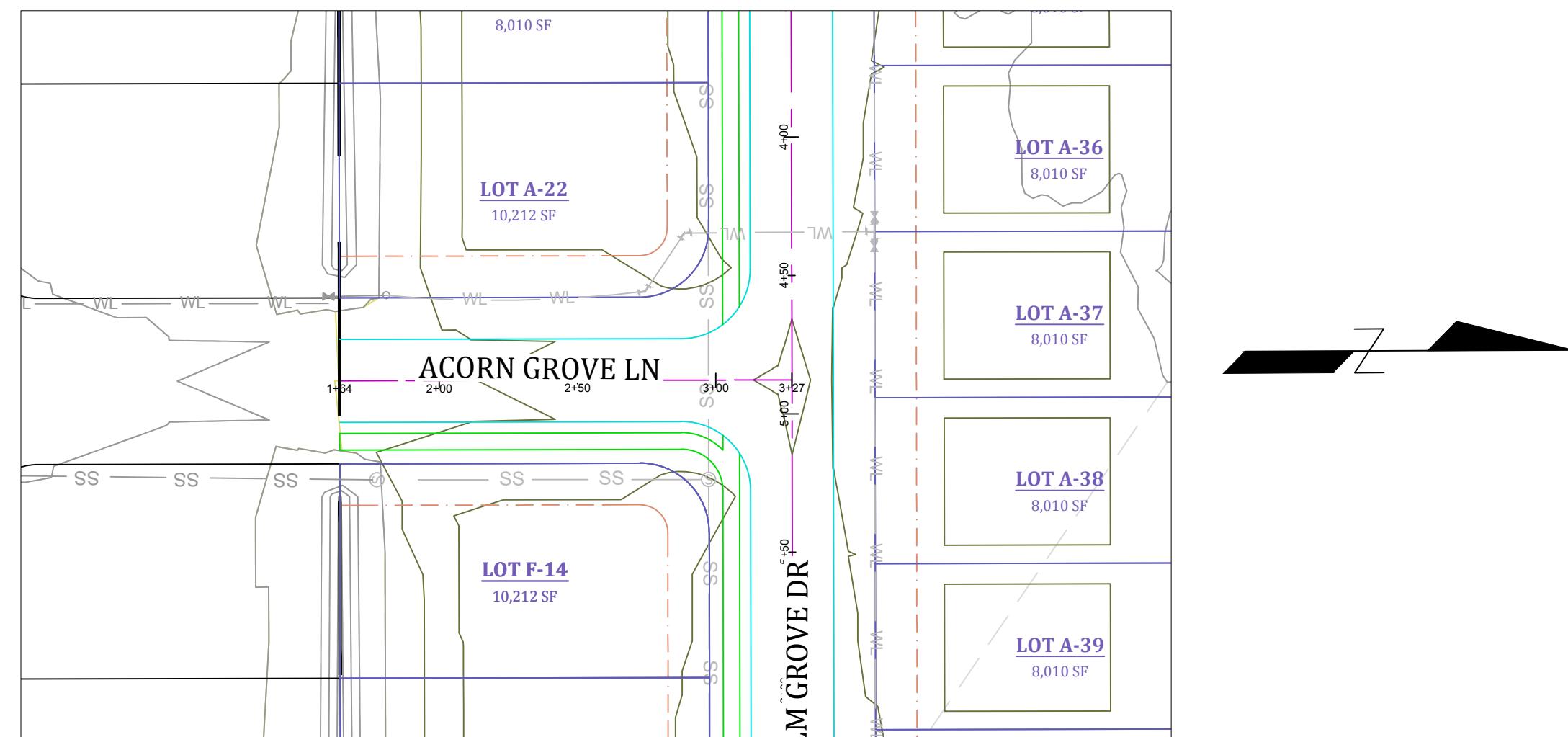
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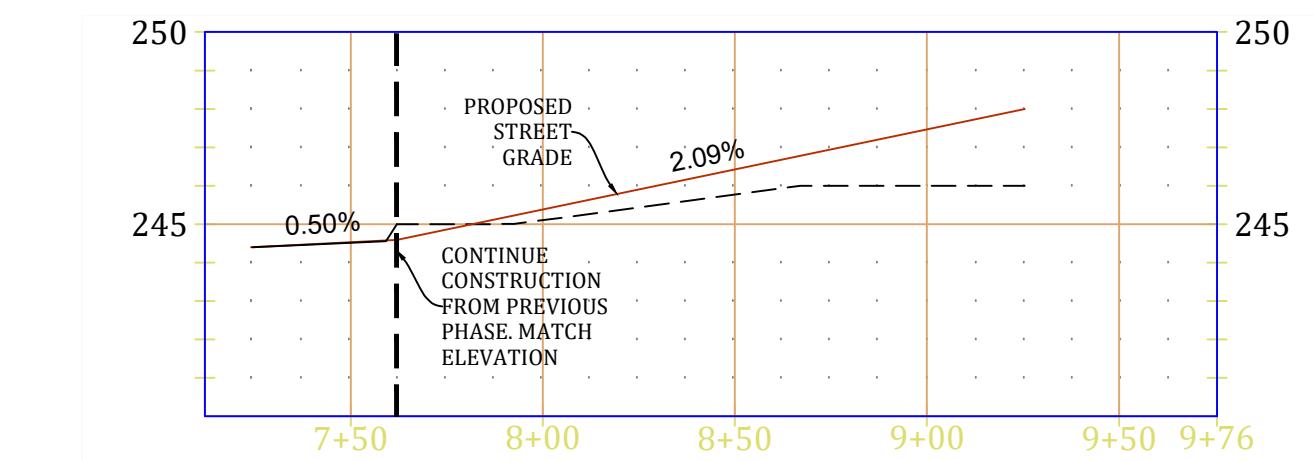
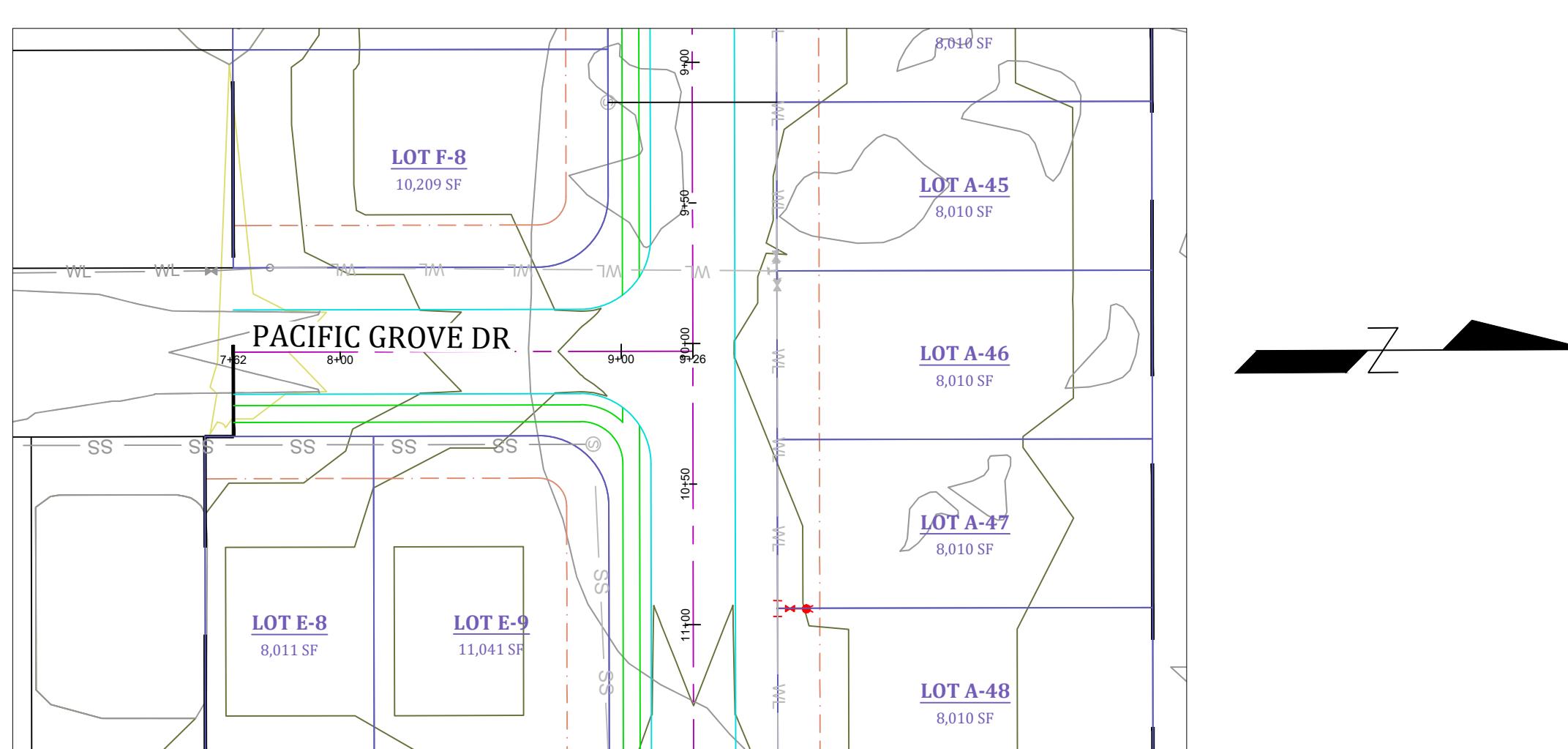
ST-1



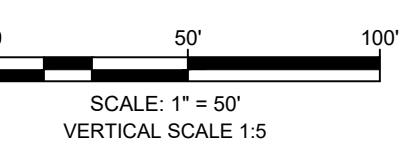
PALM GROVE DRIVE - PLAN AND PROFILE



ACORN GROVE LANE - PLAN AND PROFILE



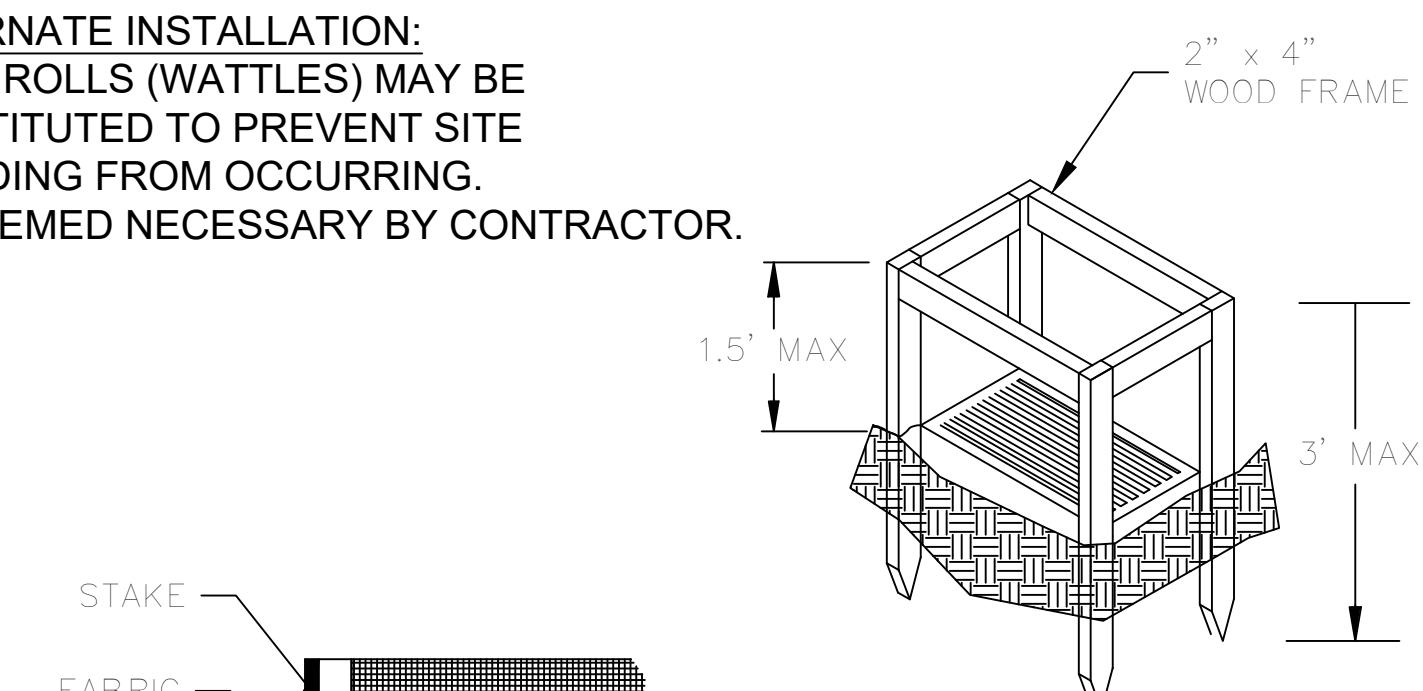
PACIFIC GROVE DRIVE - PLAN AND PROFILE



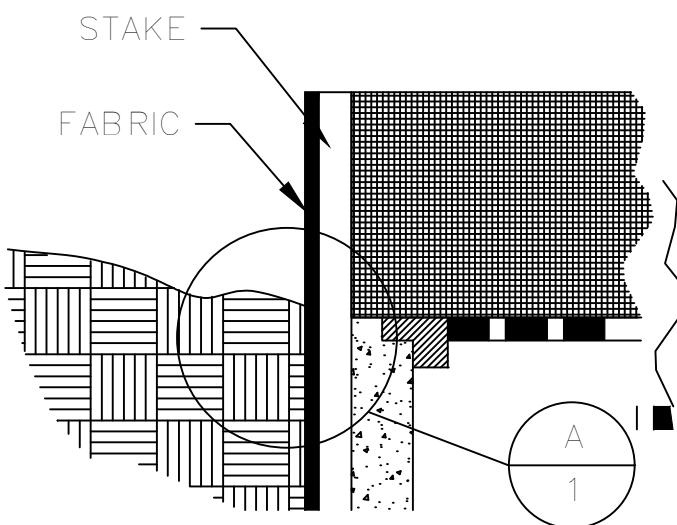
MARK

PACIFIC GROVE - PHASE 2 EROSION CONTROL DETAILS

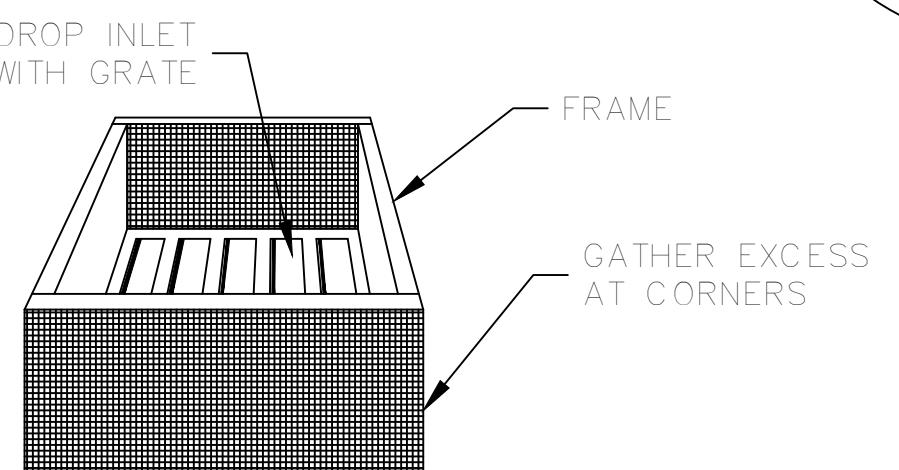
ALTERNATE INSTALLATION:
FIBER ROLLS (WATTLES) MAY BE
SUBSTITUTED TO PREVENT SITE
FLOODING FROM OCCURRING.
AS DEEMED NECESSARY BY CONTRACTOR.



PERSPECTIVE VIEW



ELEVATION OF STAKE AND
FABRIC ORIENTATION

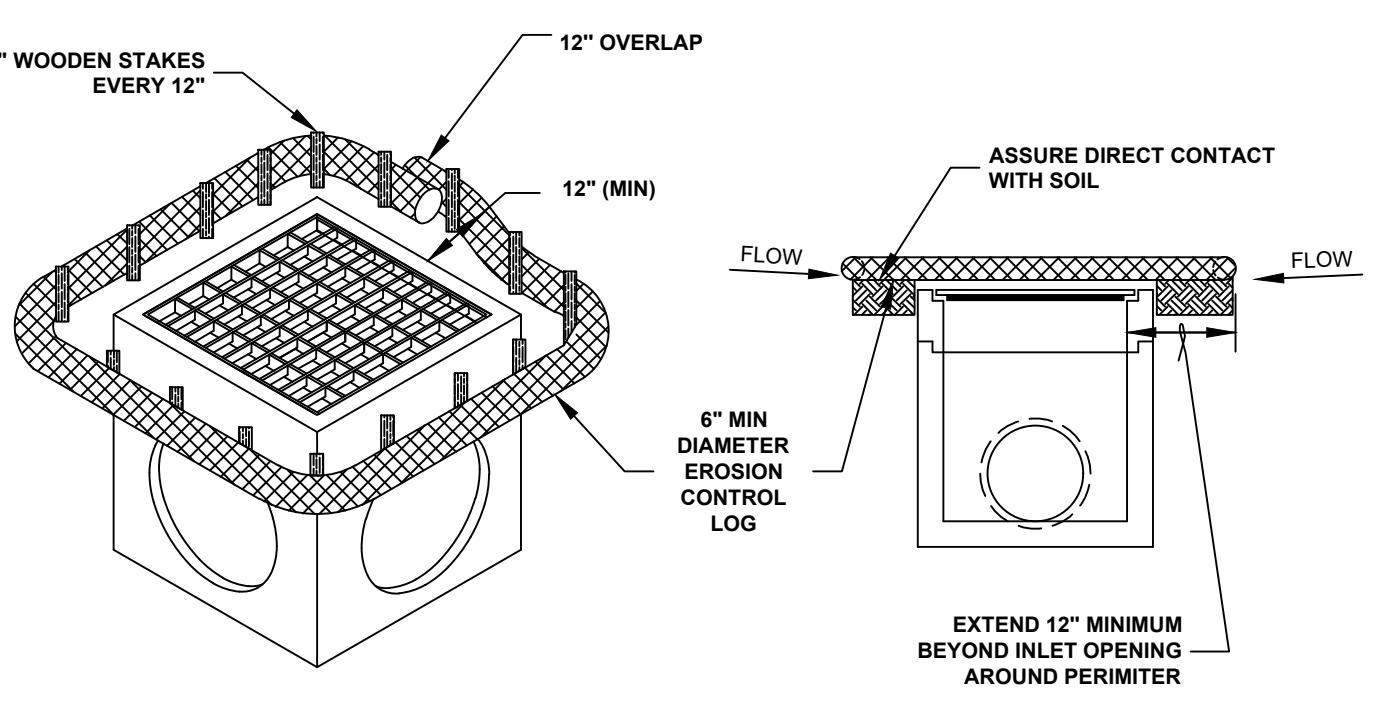


DETAIL A

PERSPECTIVE VIEW

FILTER FABRIC INLET PROTECTION

NOT TO SCALE



ISOMETRIC

CROSS SECTION

NOTES:

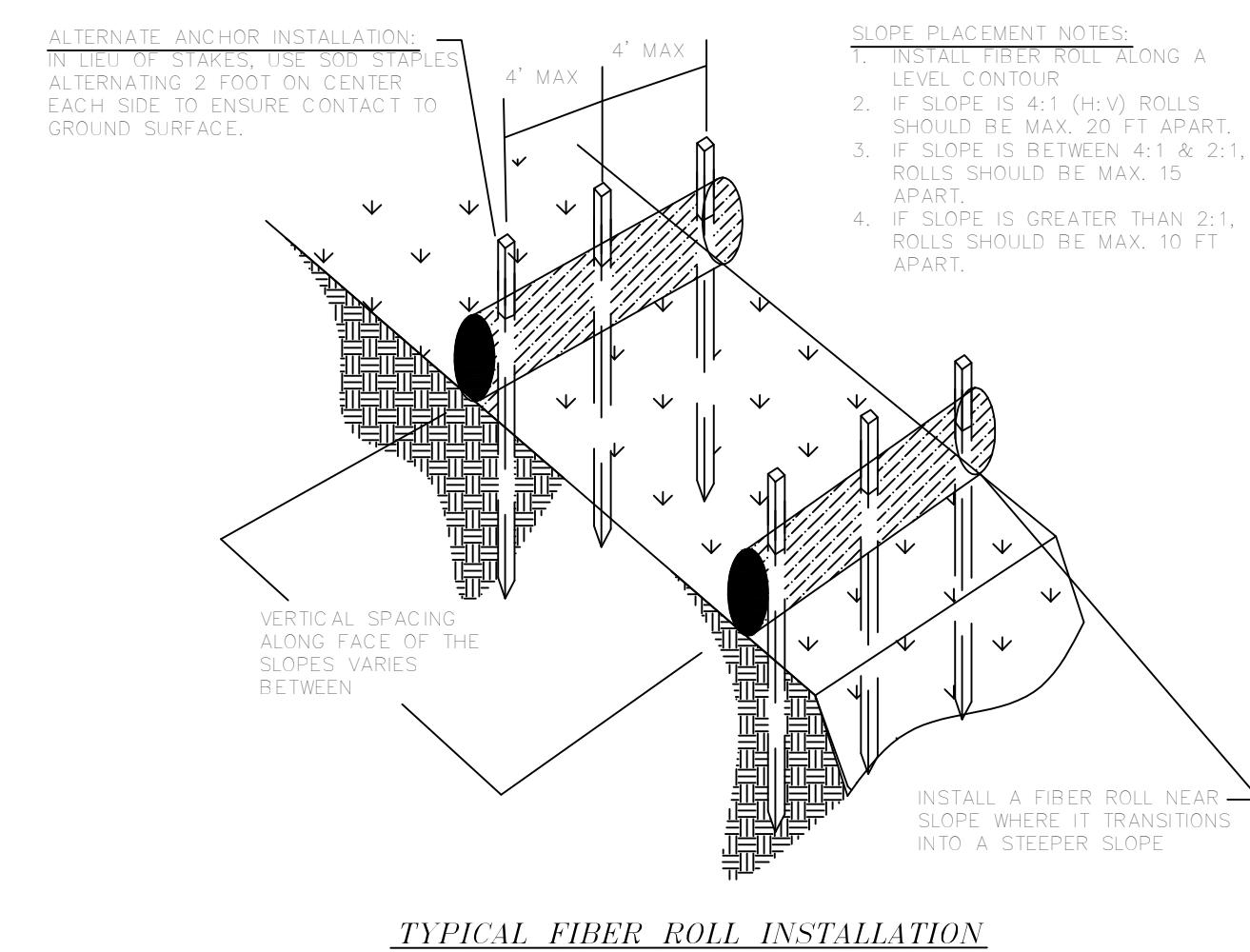
1. EROSION CONTROL LOG CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE; AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSIOR FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100% RECYCLED FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY.
2. DAILY INSPECTION 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.

FIBER ROLL (WATTLE) INLET PROTECTION

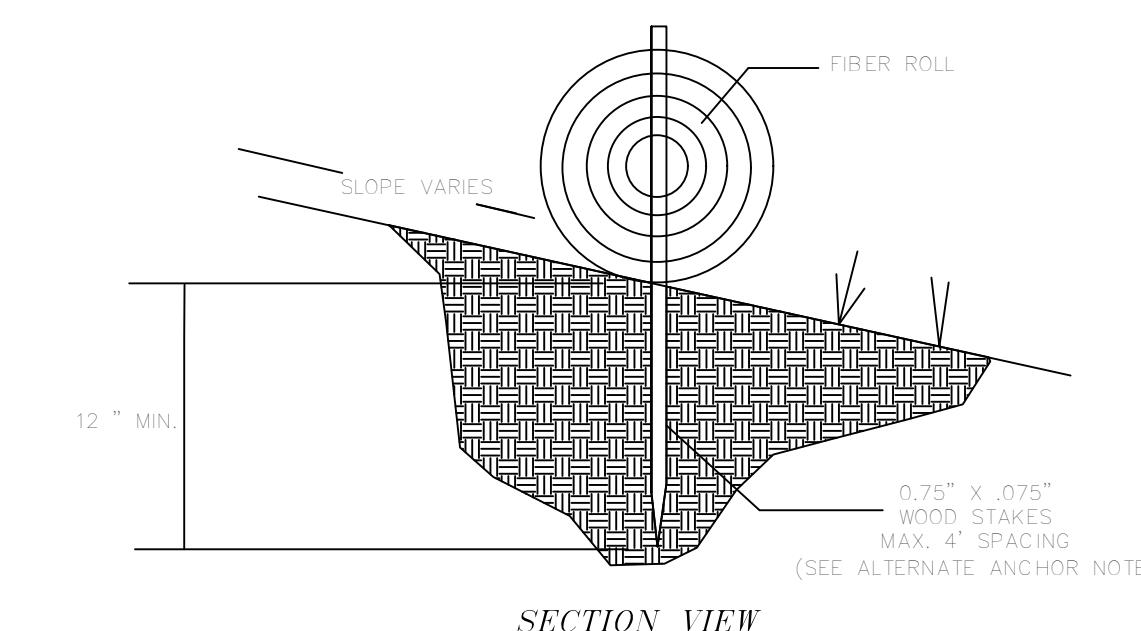
NOT TO SCALE

FIBER ROLL (WATTLE) CURB INLET PROTECTION

NOT TO SCALE

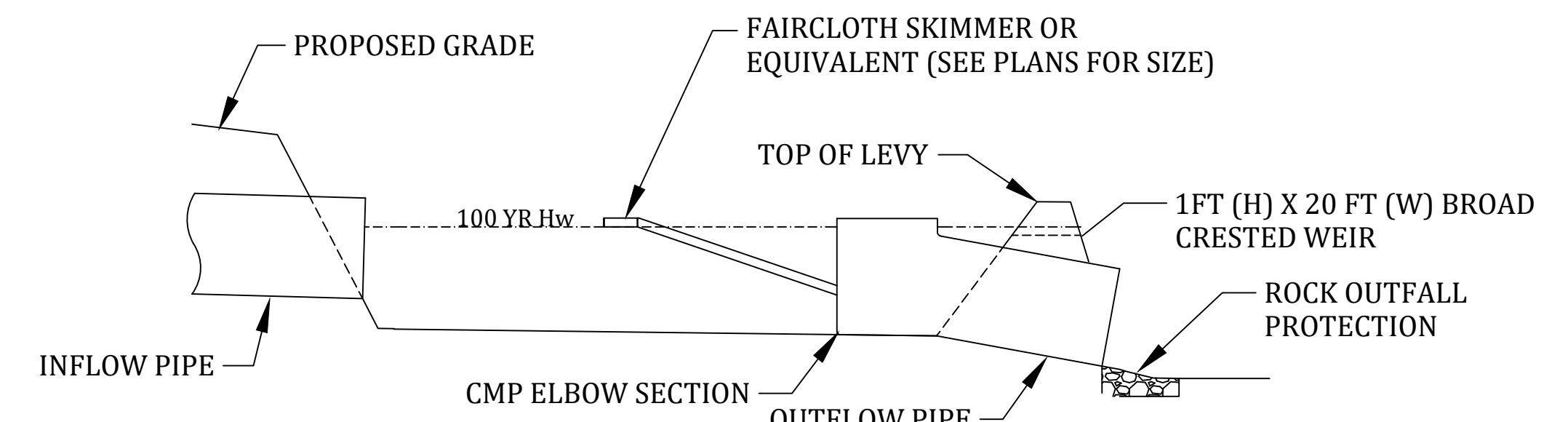


TYPICAL FIBER ROLL INSTALLATION



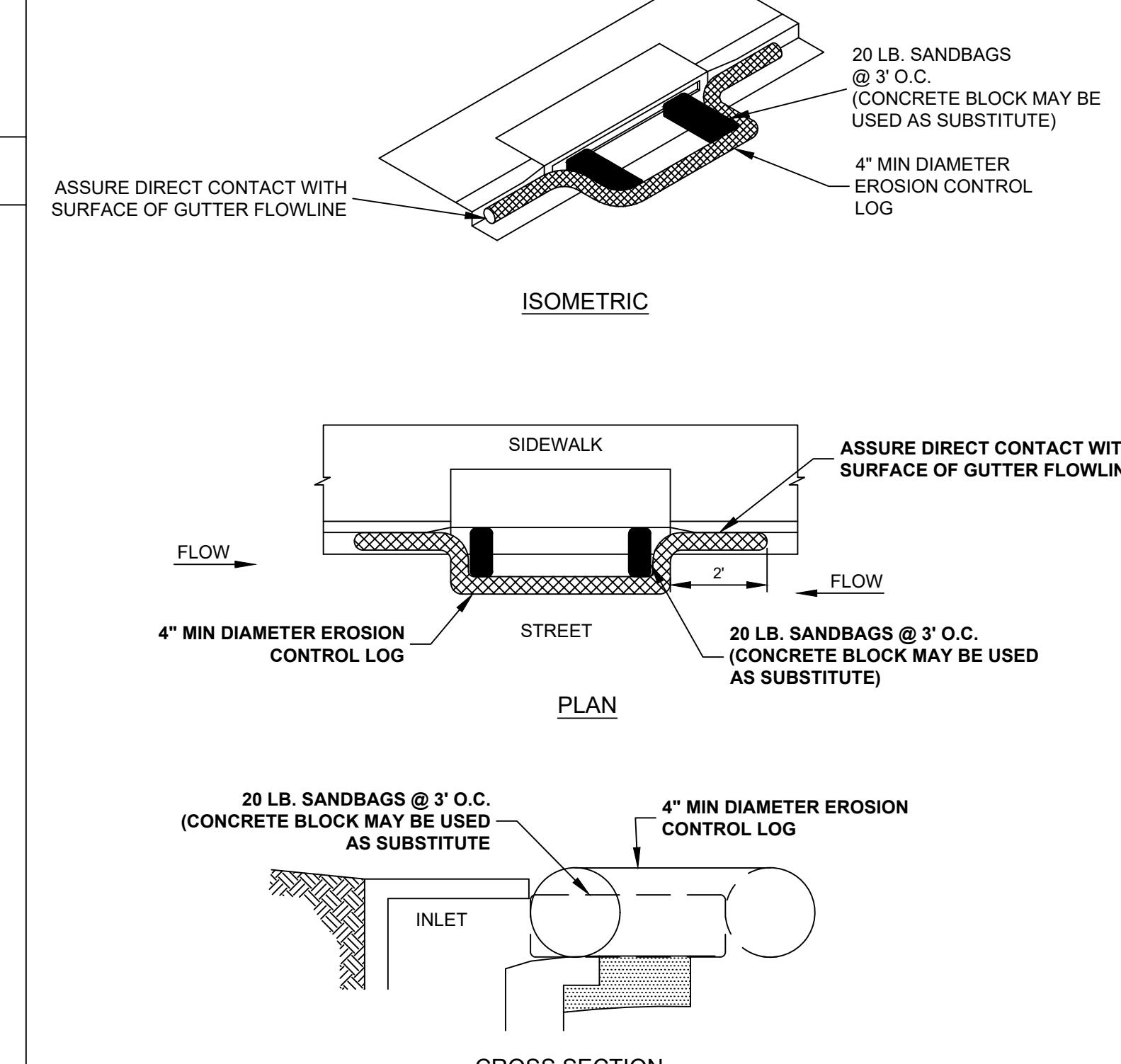
FIBER ROLLS AND WATTLES

NOT TO SCALE

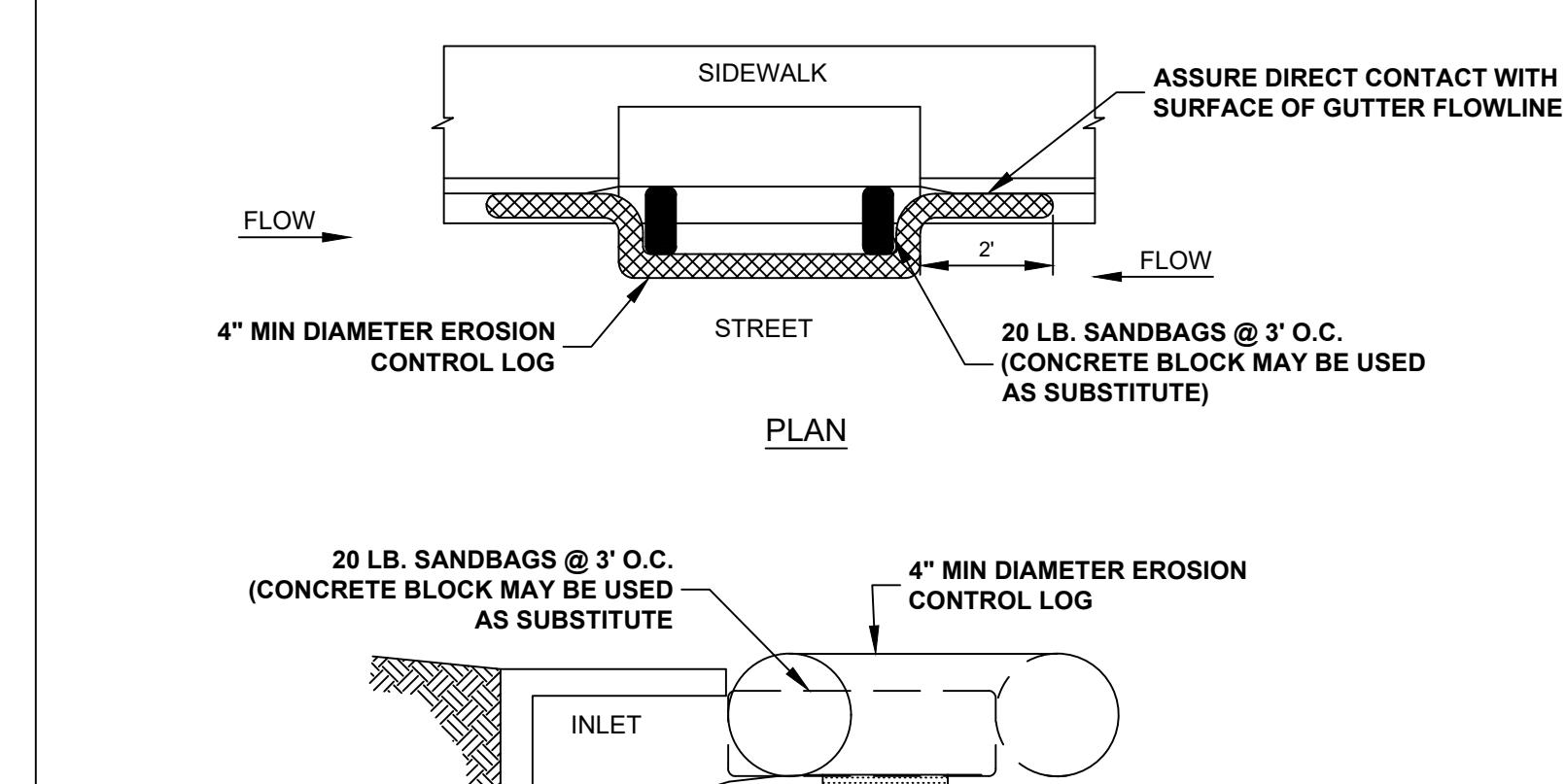


SEDIMENT BASIN w/ FAIRCLOTH SKIMMER

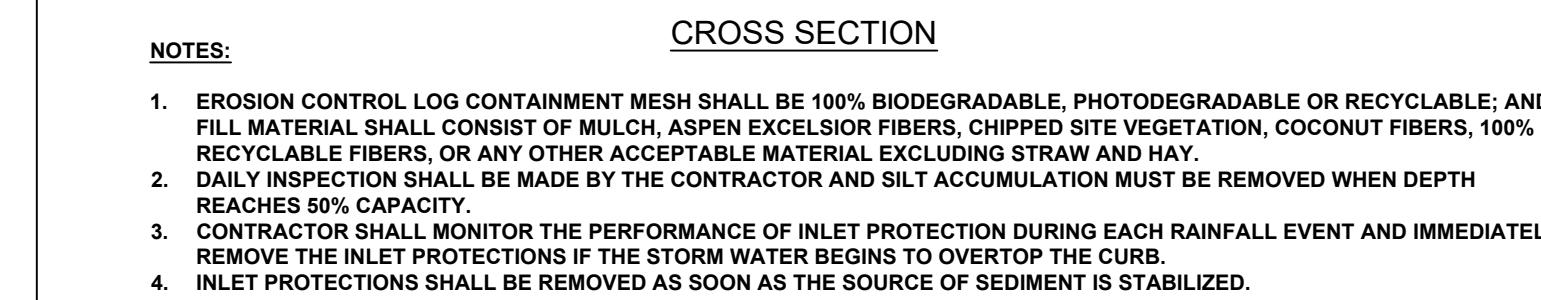
NOT TO SCALE



ISOMETRIC



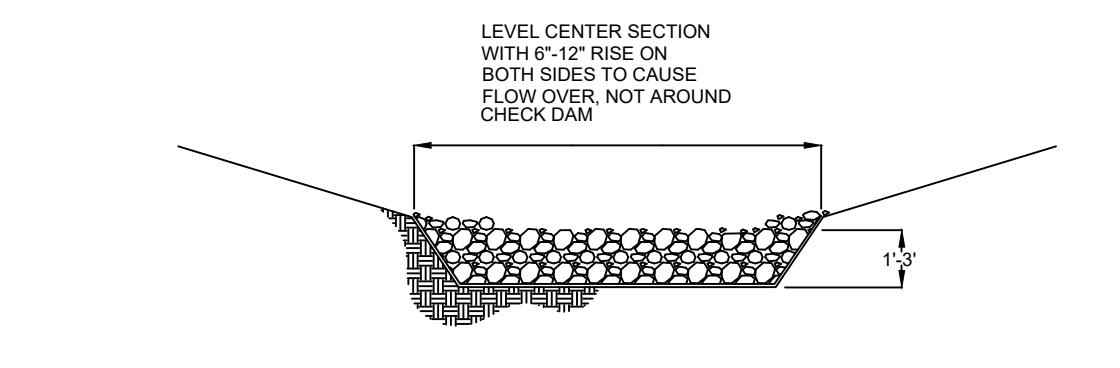
PLAN



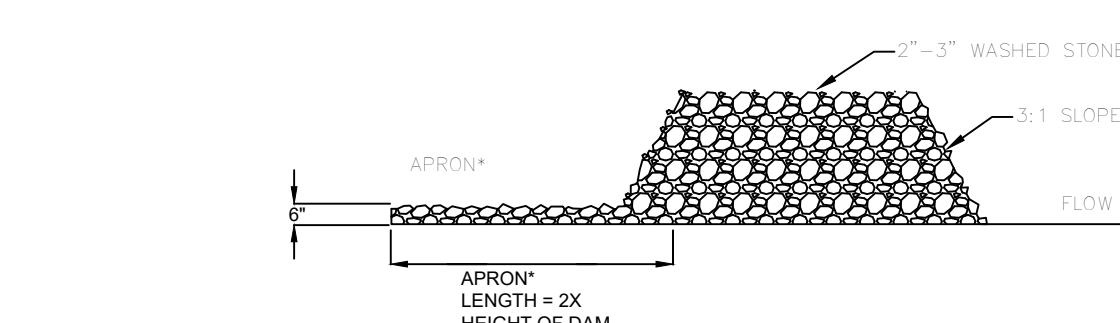
CROSS SECTION

NOTES:

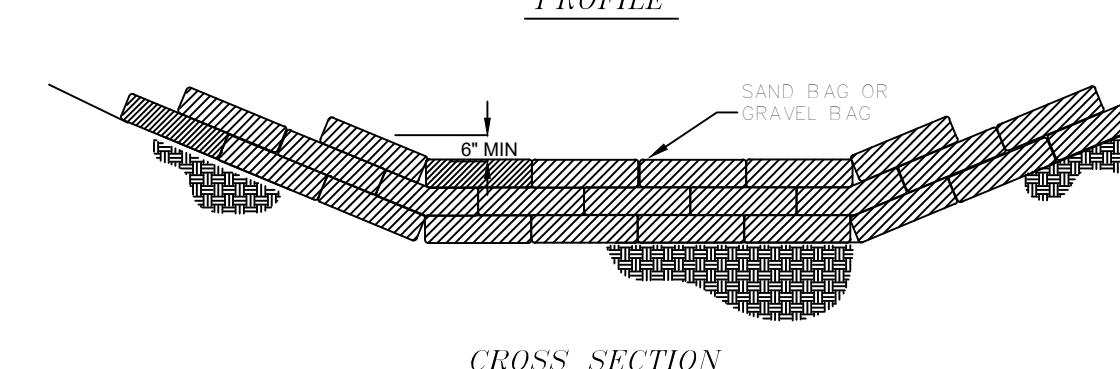
1. EROSION CONTROL LOG CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE; AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSIOR FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100% RECYCLED FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY.
2. DAILY INSPECTION 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.



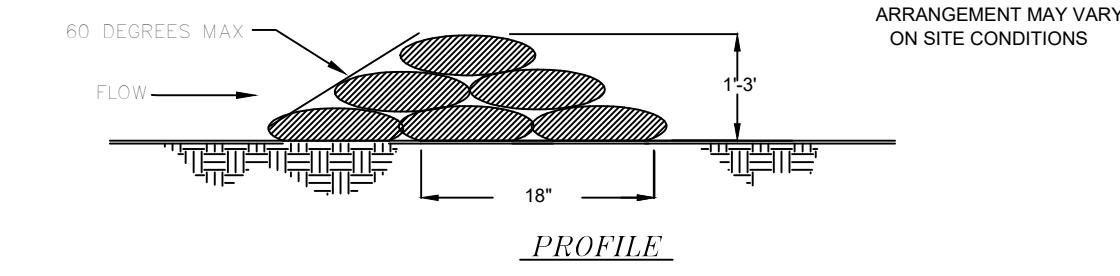
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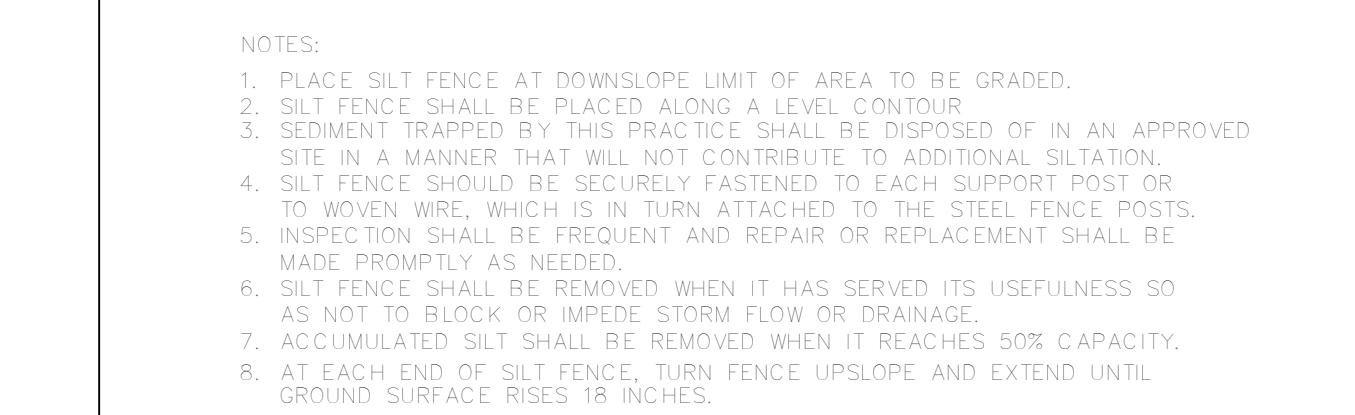
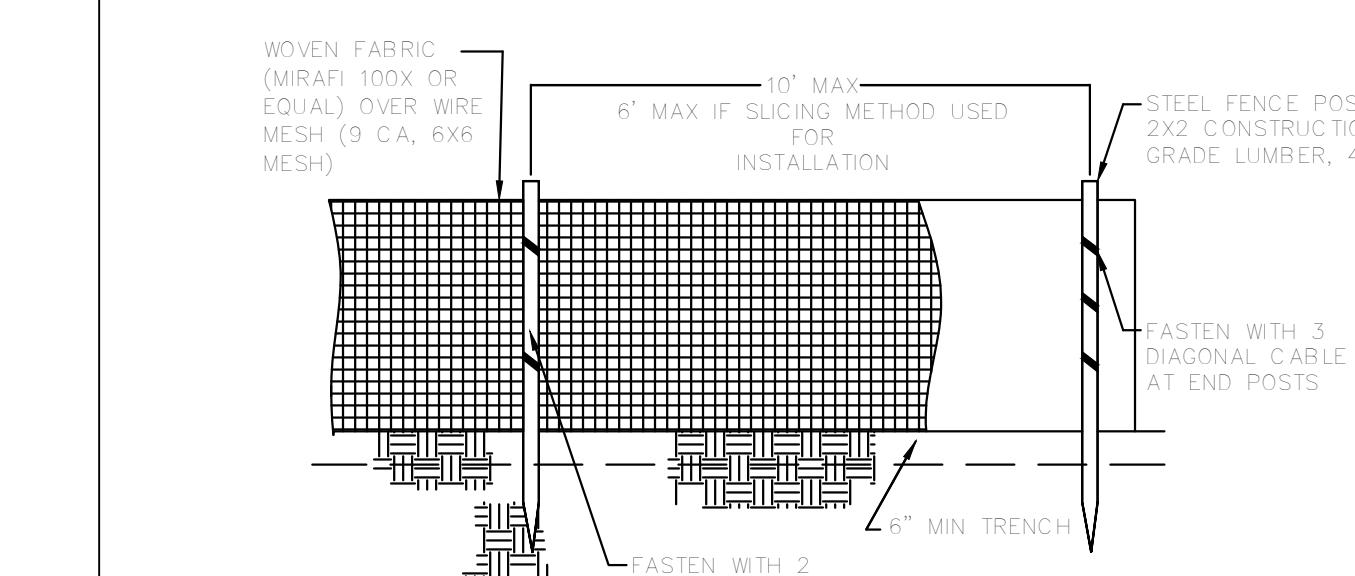
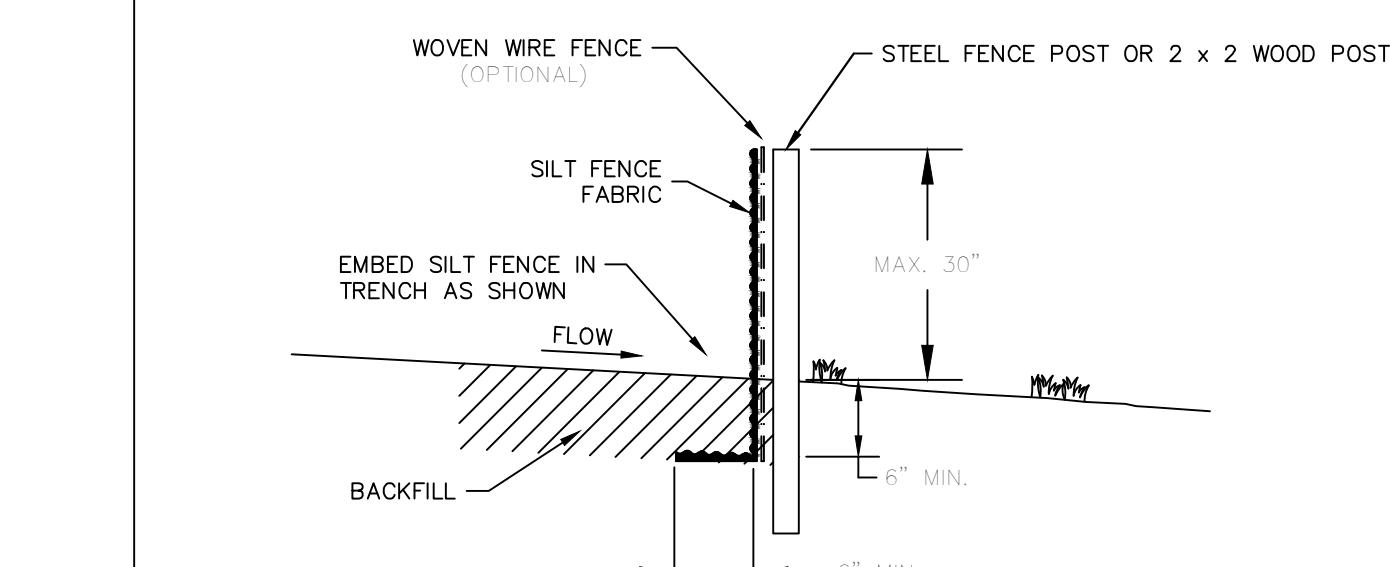
PROFILE



CROSS SECTION



PROFILE



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 IN TURN ATTACHED TO THE STEEL FENCE POSTS.
5. SPECIFICALLY, ENSURE 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.

REVISIONS
DATE: BY: DESCRIPTION

10/10/2018 BY: MARK B. MORRIS

No. 13212

DRAWING INFO.
DRAWN BY:
DATE:
SCALE: 1"=7"

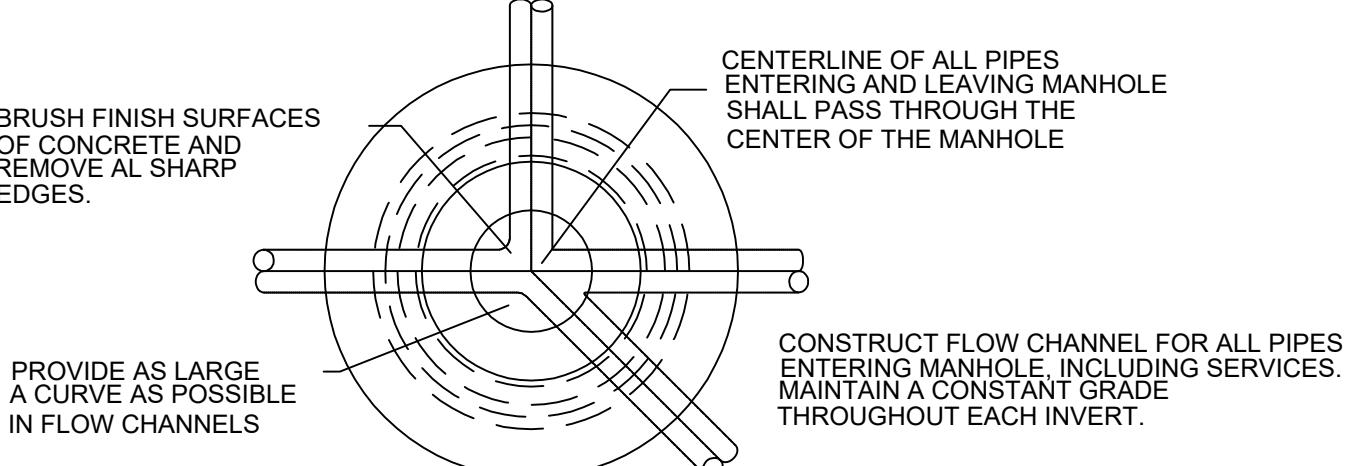
SHEET NUMBER:

DT-1

NOTES TYPICAL TO ALL MANHOLES

1. MANHOLE BASES TO BE 4000 PSI, 28 DAY STRENGTH, LIMESTONE MIX CONCRETE ON UNDISTURBED SUB-GRADE OR ON COMPAKTED 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

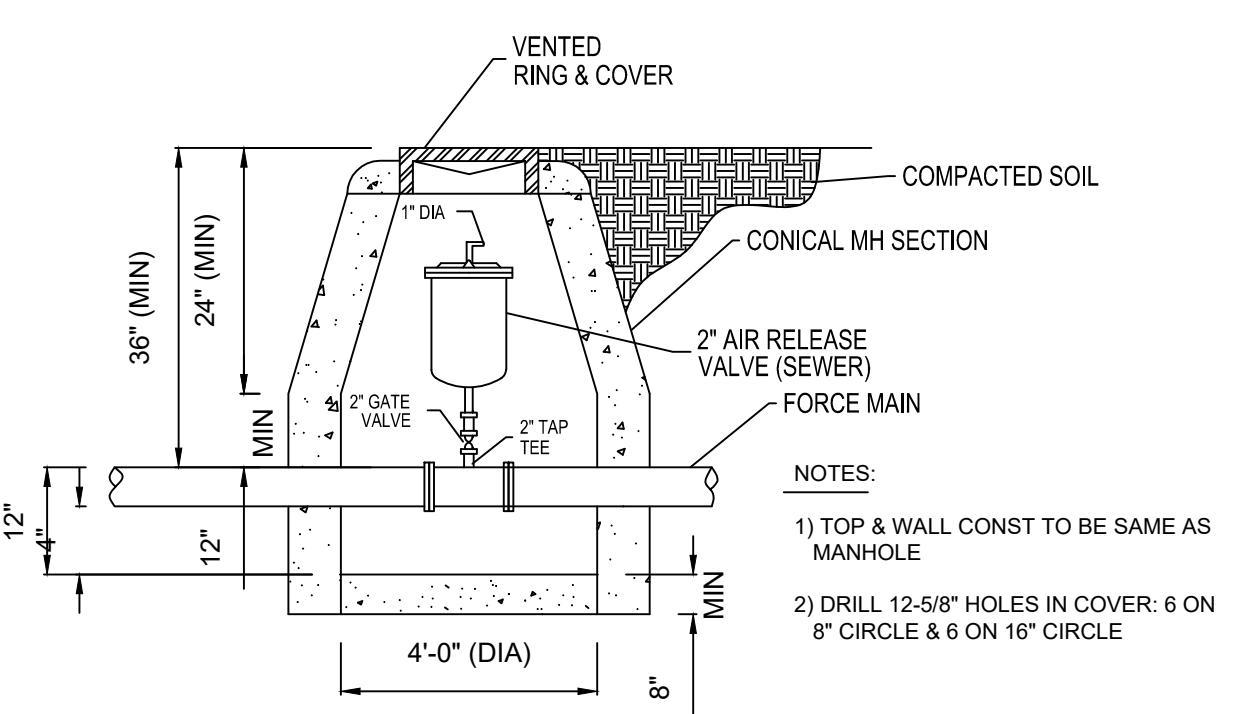


PLAN

N.T.S.

MANHOLE DETAILS

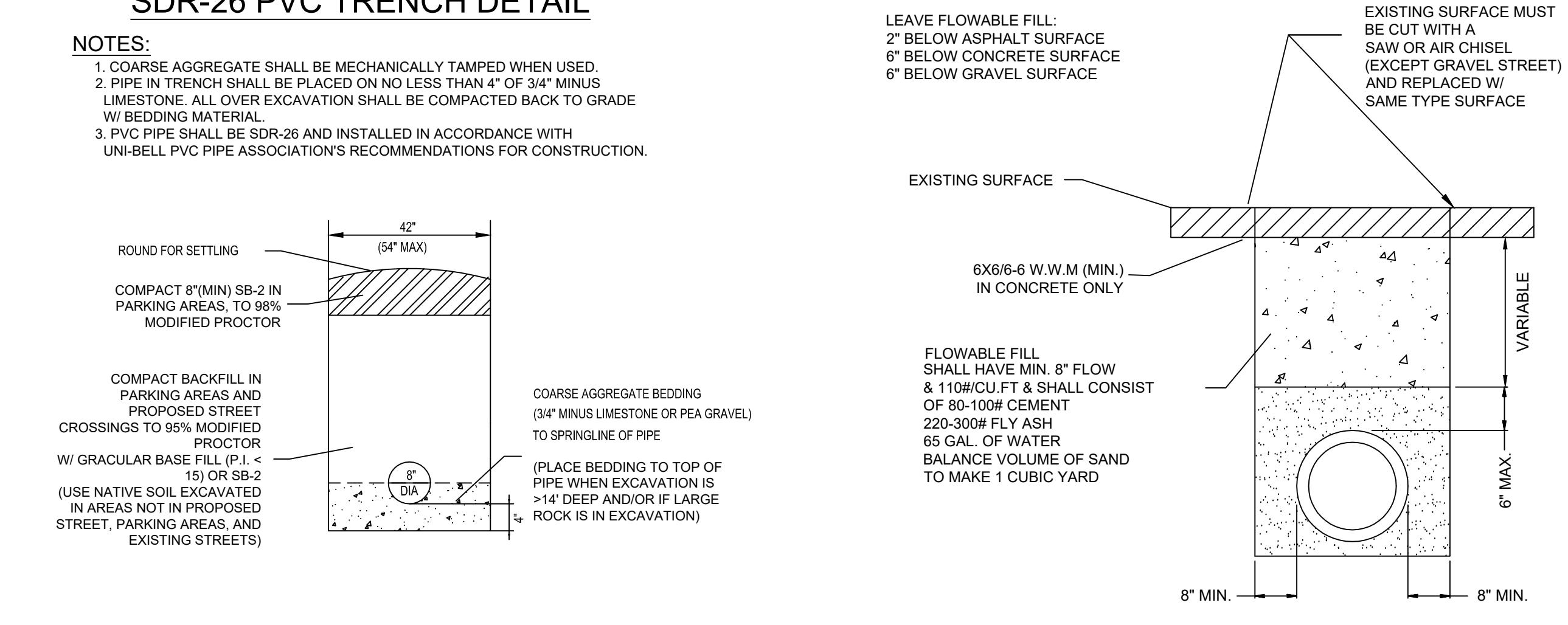
AIR/VACUUM RELEASE VALVE DETAIL



NON-EXISTING STREET LOCATIONS
SDR-26 PVC TRENCH DETAIL

NOTES:

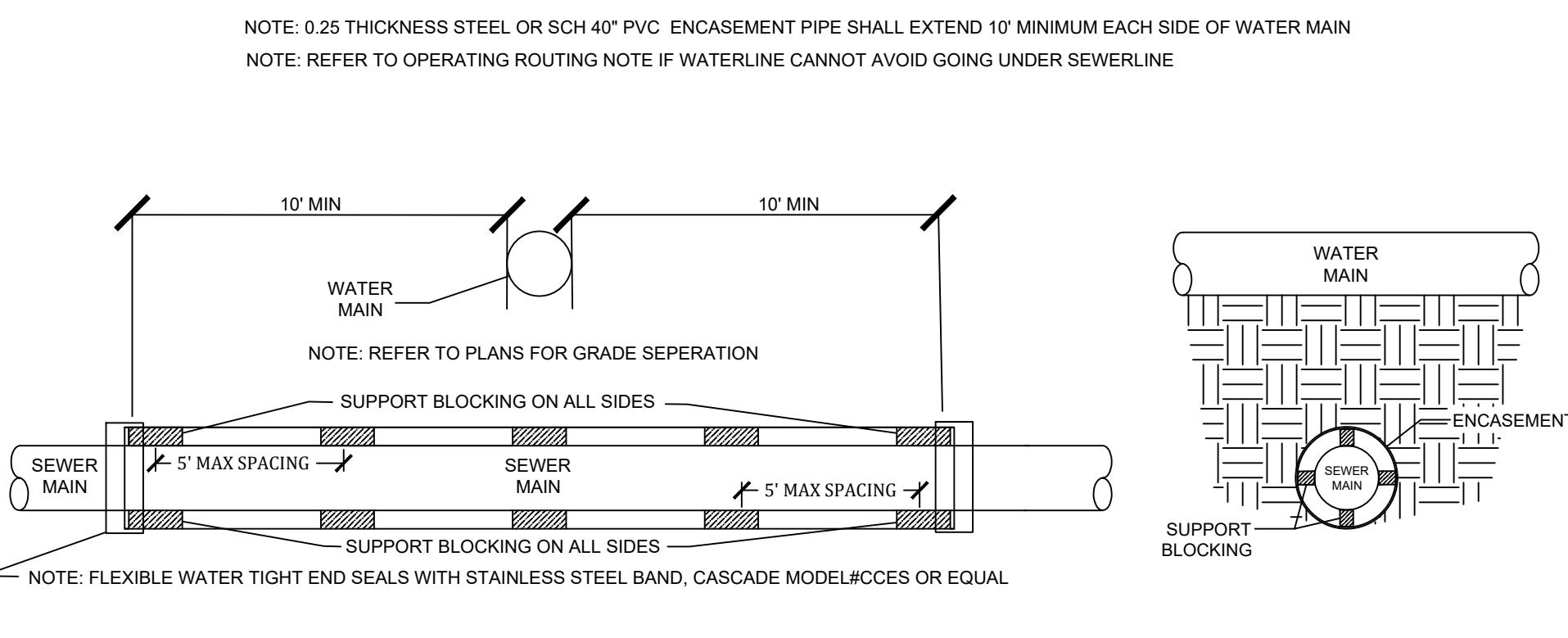
1. COARSE AGGREGATE SHALL BE MECHANICALLY TAMPED WHEN USED.
2. PIPE IN TRENCH SHALL BE PLACED ON NO LESS THAN 4" OF 3/4" MINUS LIMESTONE. ALL OVER EXCAVATION SHALL BE COMPAKTED BACK TO GRADE W/ BEDDING MATERIAL.
3. PVC PIPE SHALL BE SDR-26 AND INSTALLED IN ACCORDANCE WITH UNI-BELL PVC PIPE ASSOCIATION'S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



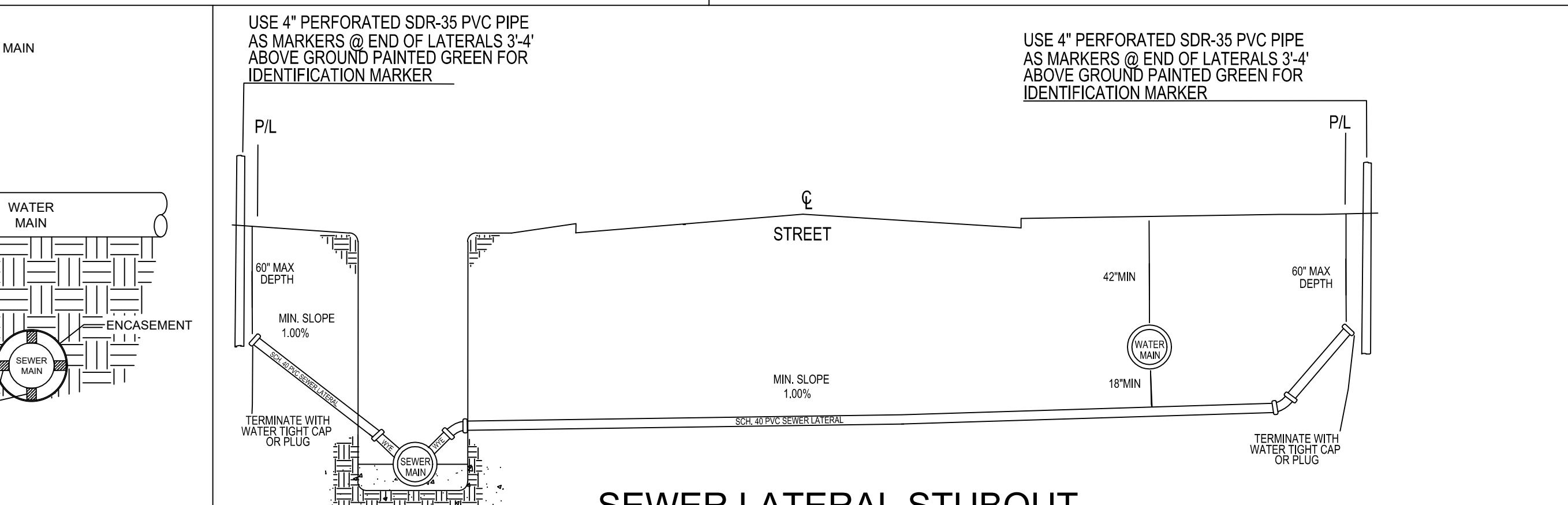
EXISTING STREET LOCATIONS

PVC TRENCH DETAIL

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



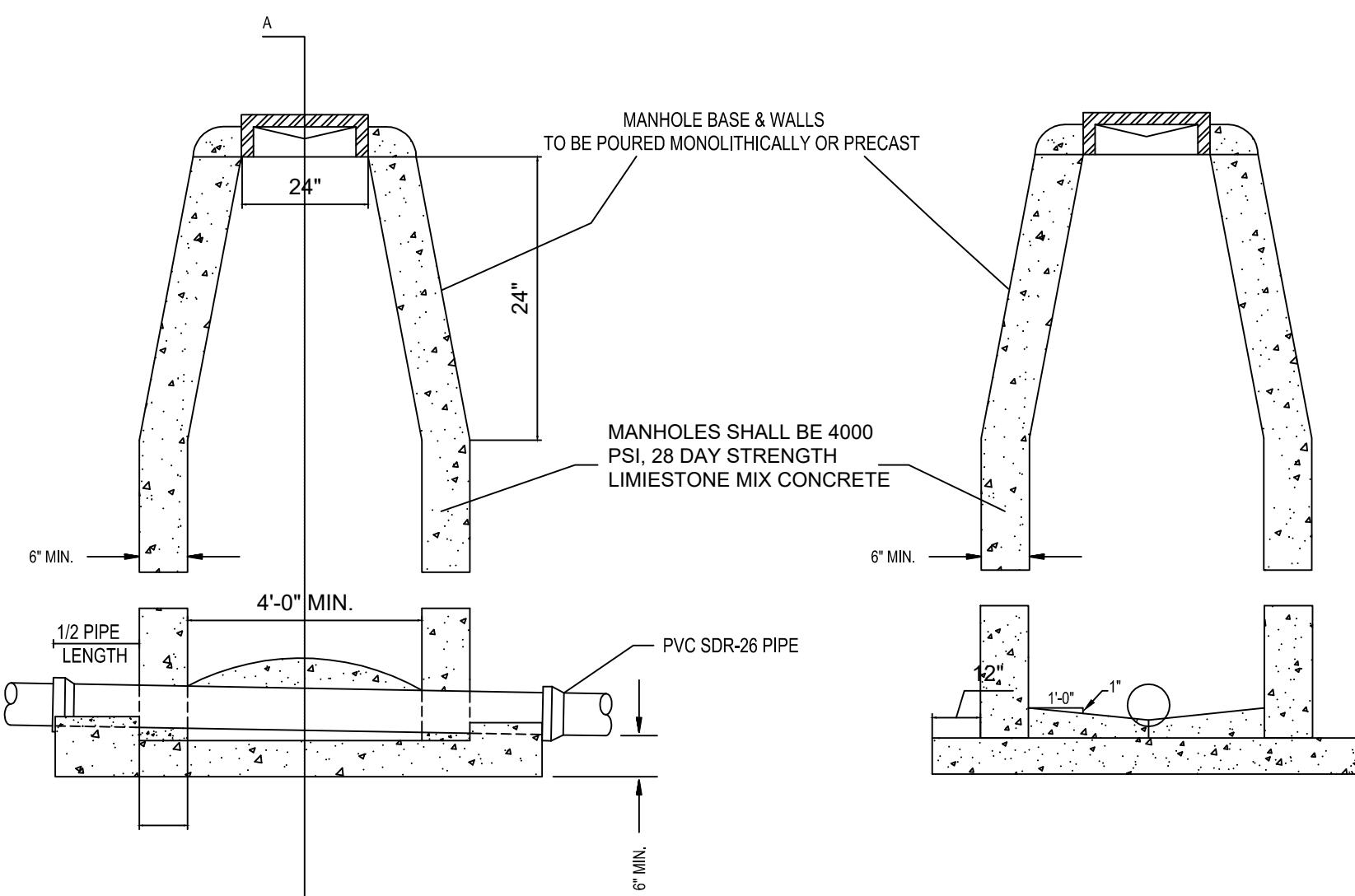
USE 4" PERFORATED SDR-35 PVC PIPE AS MARKERS @ END OF LATERALS 3'-4" ABOVE GROUND PAINTED GREEN FOR IDENTIFICATION MARKER



SEWER LATERAL STUBOUT
PERMITS REQUIRED BEFORE INSTALLATION

USE SAME CONFIGURATION FOR MANHOLE STUBOUTS

MANHOLE
CONSTRUCTION DETAIL

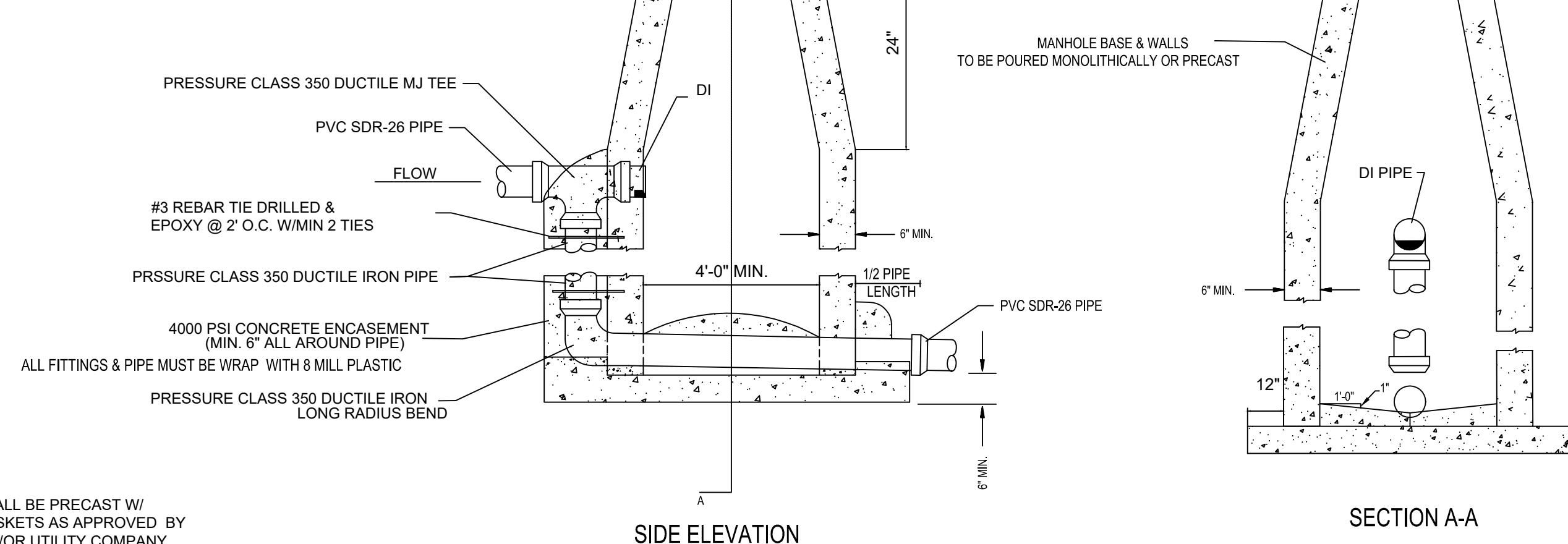


SIDE ELEVATION

SECTION A-A

STANDARD MANHOLE

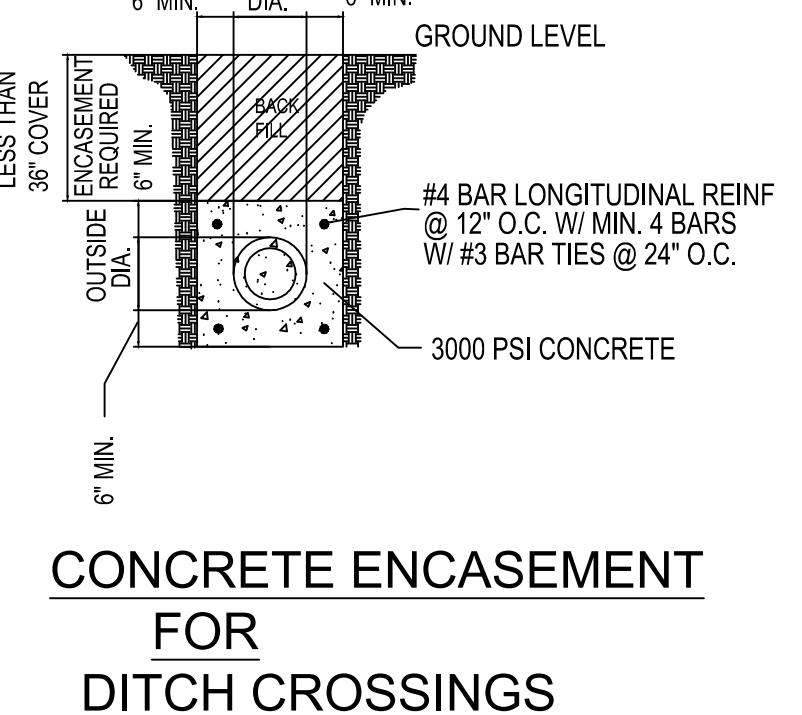
NOTE:
MANHOLES SHALL BE PRECAST W/ NEOPRENE GASKETS AS APPROVED BY
ENGINEER AND/OR UTILITY COMPANY



SIDE ELEVATION

SECTION A-A

DROP MANHOLE



CONCRETE ENCASEMENT
FOR
DITCH CROSSINGS

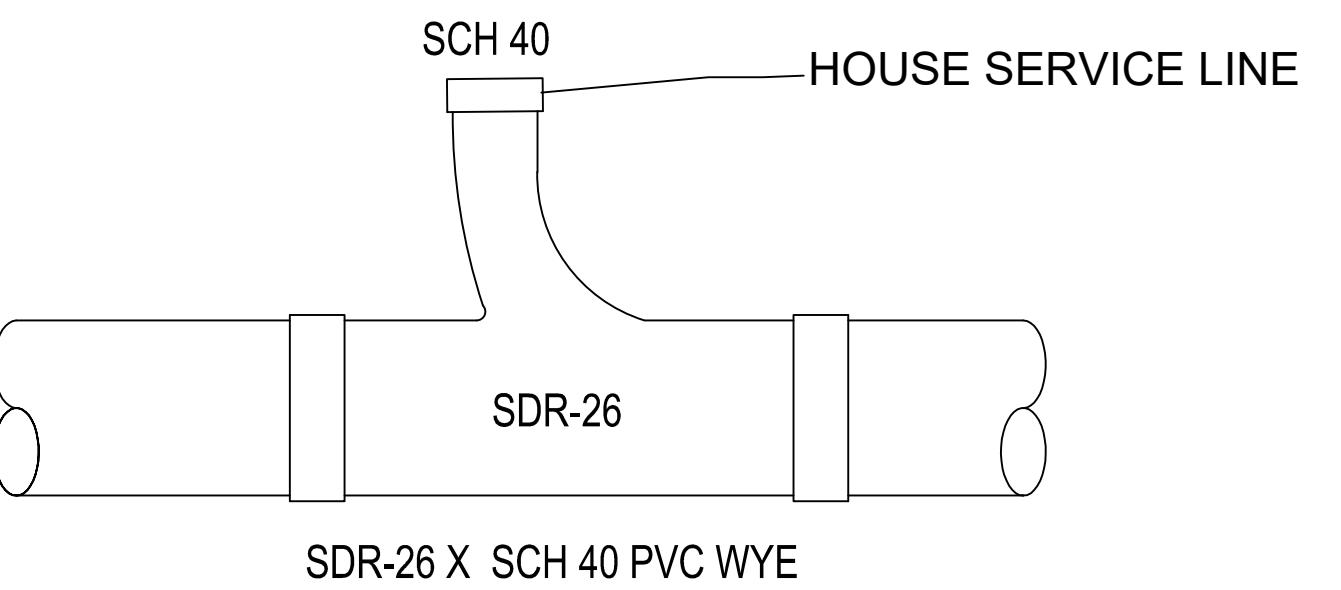
NOTE: ENCASEMENT PIPE MUST PRESSURE CLASS 350 DUCTILE IRON AND WRAP DUCTILE IRON PIPE WITH 8 MILL PLASTIC

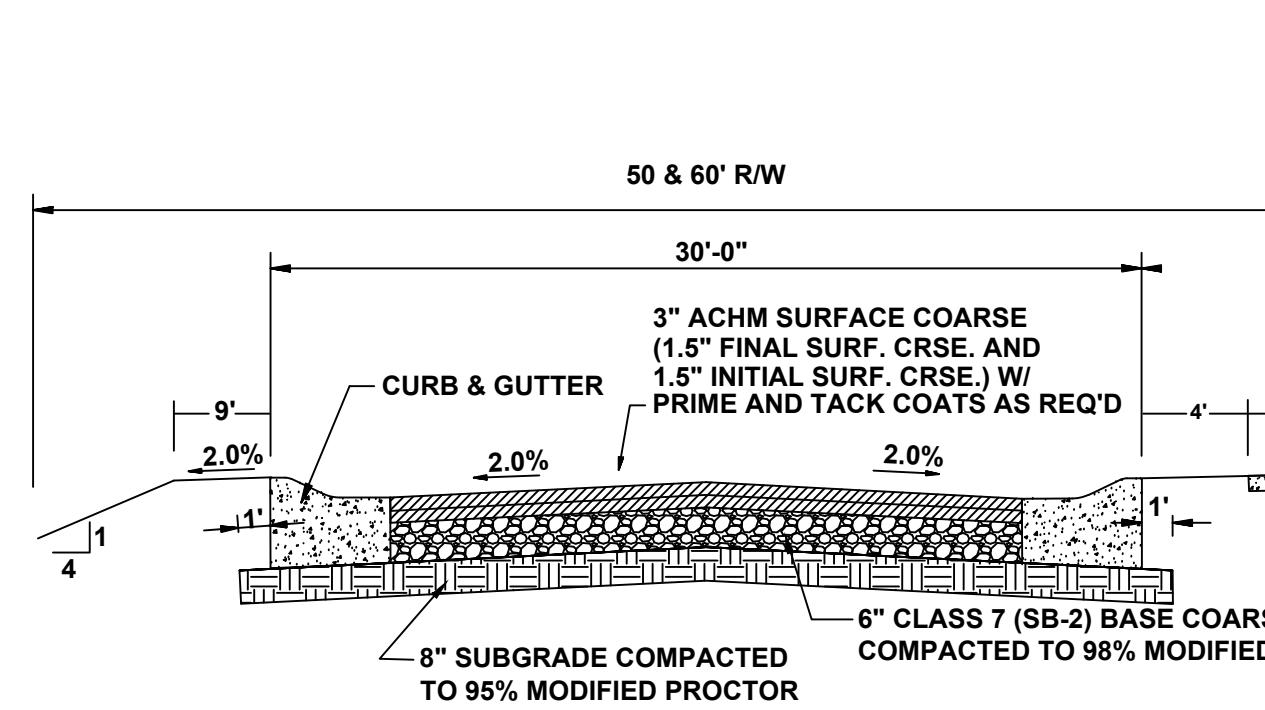
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SINGLE WYE

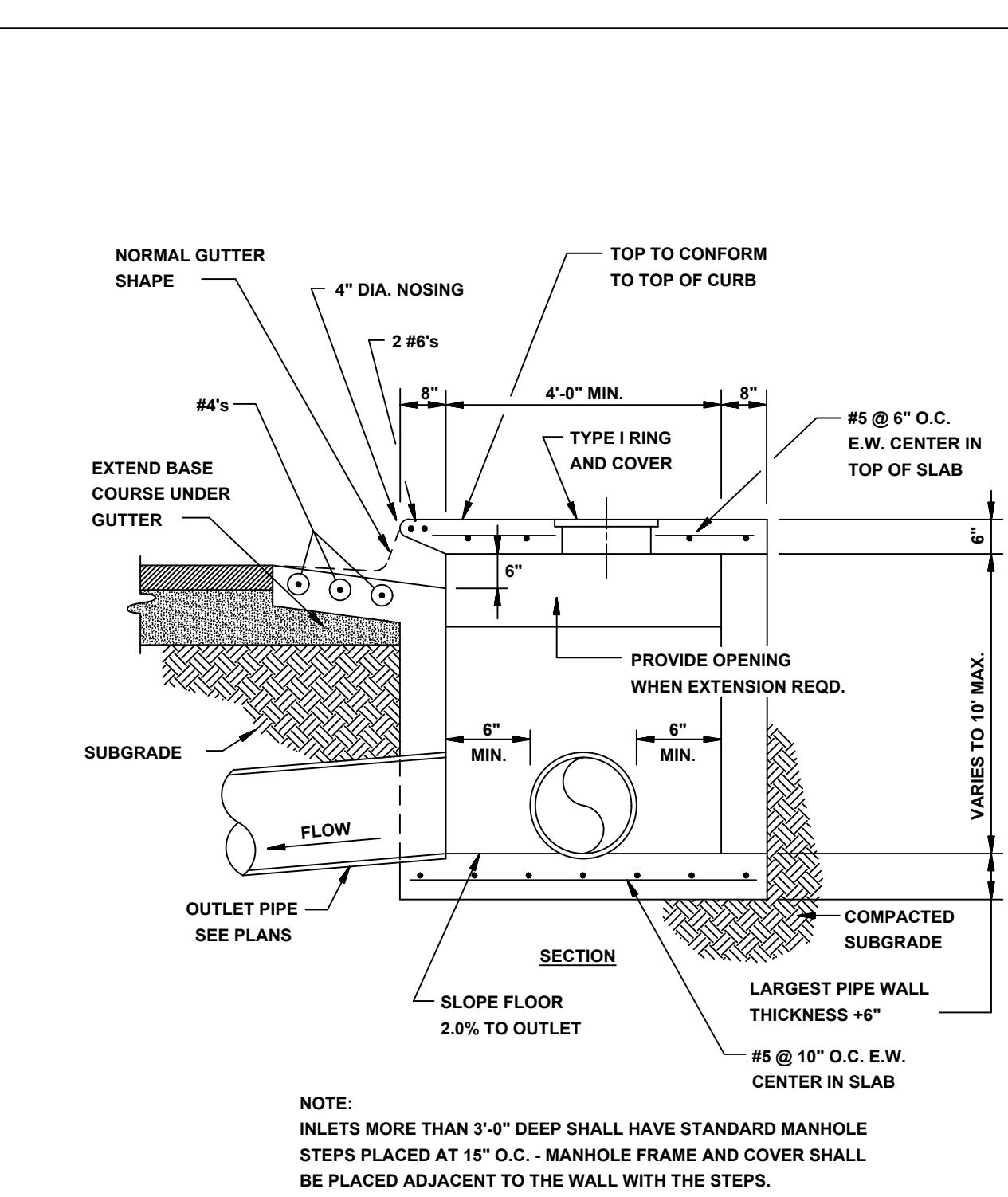
ALL SERVICE LINES UNDER PAVEMENT SHALL BE PVC SCH 40 PIPE W/ PVC SCH 40 COUPLINGS

TEE WYE ONLY

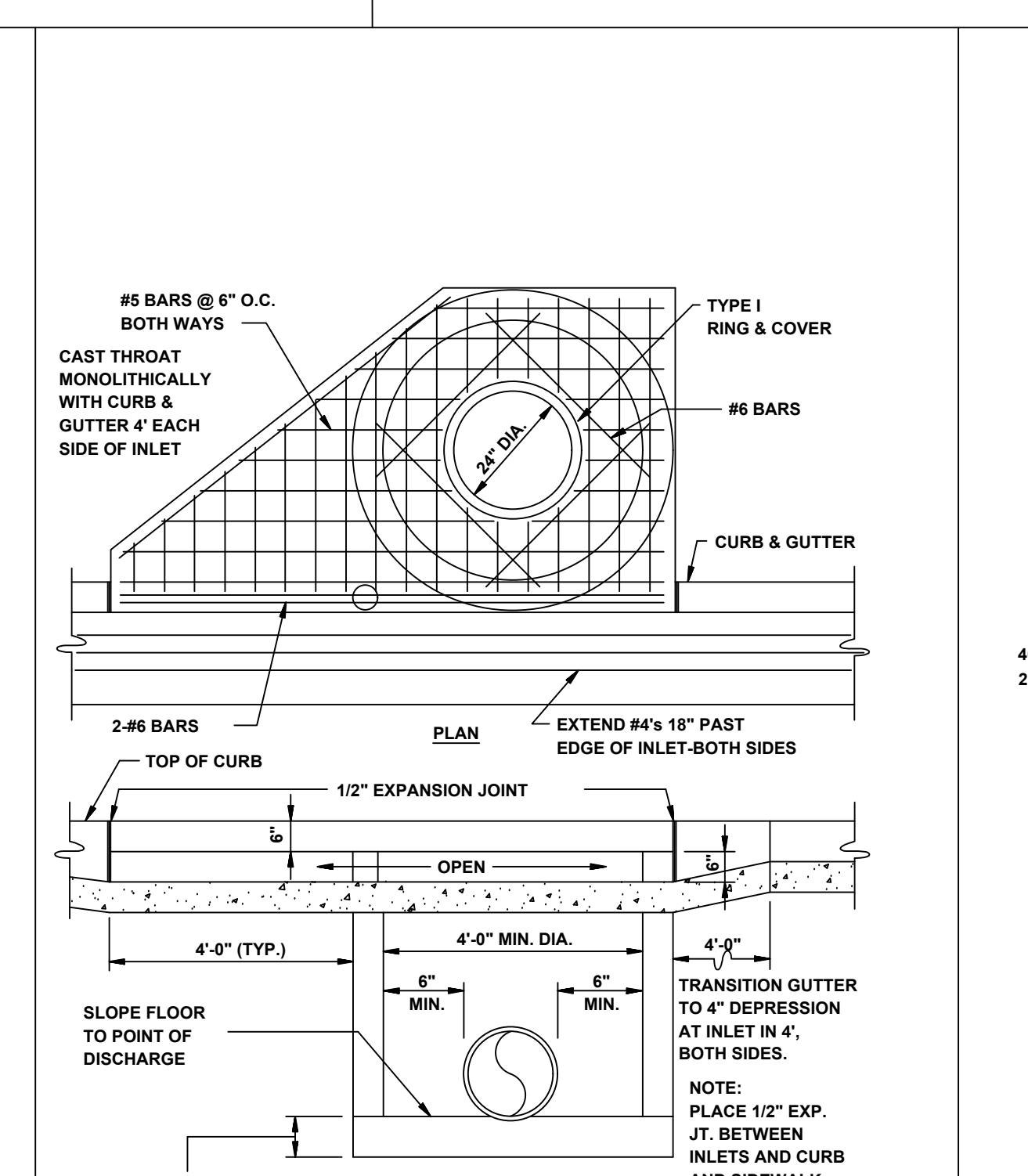




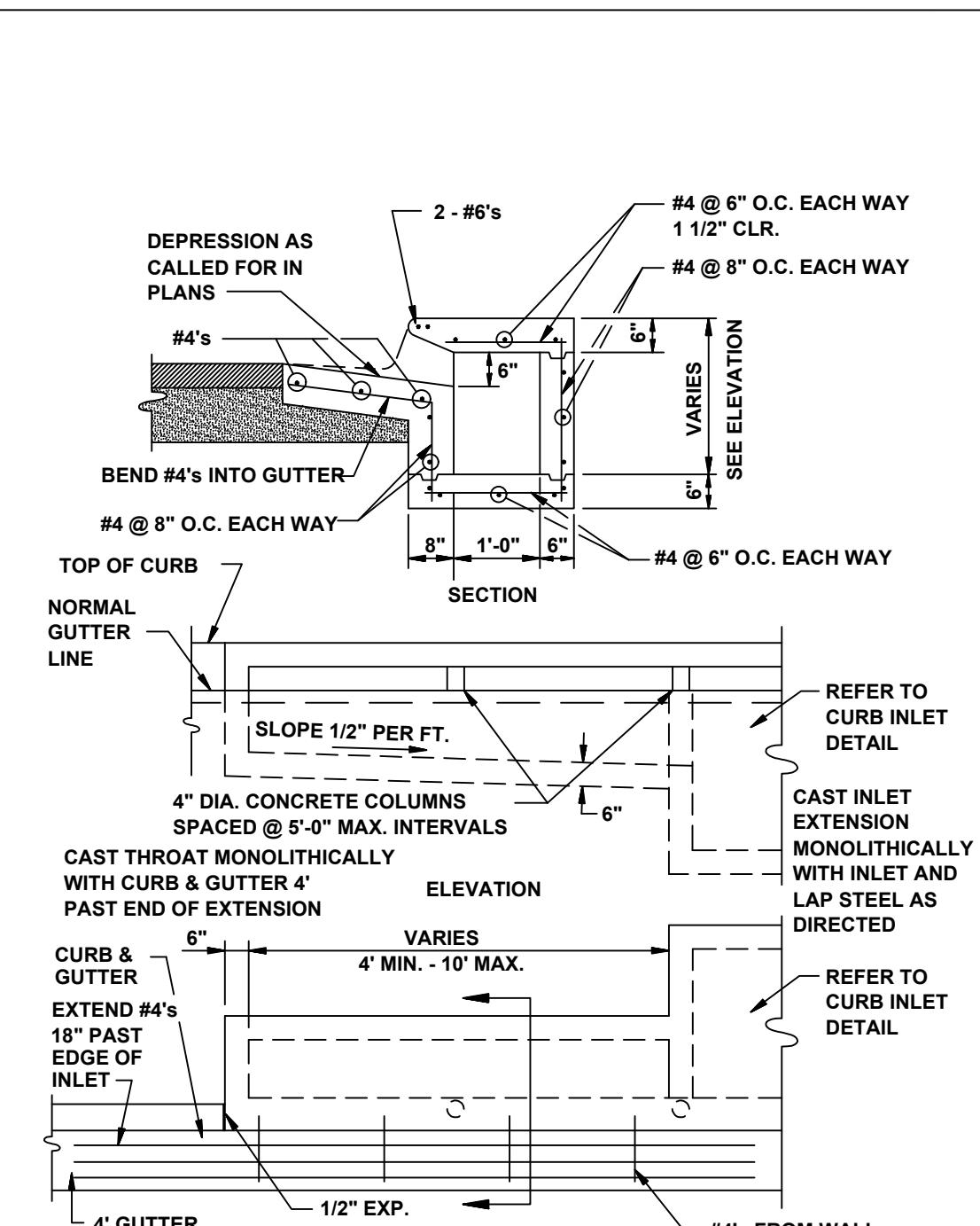
TYPICAL SECTION - INTERIOR STREETS



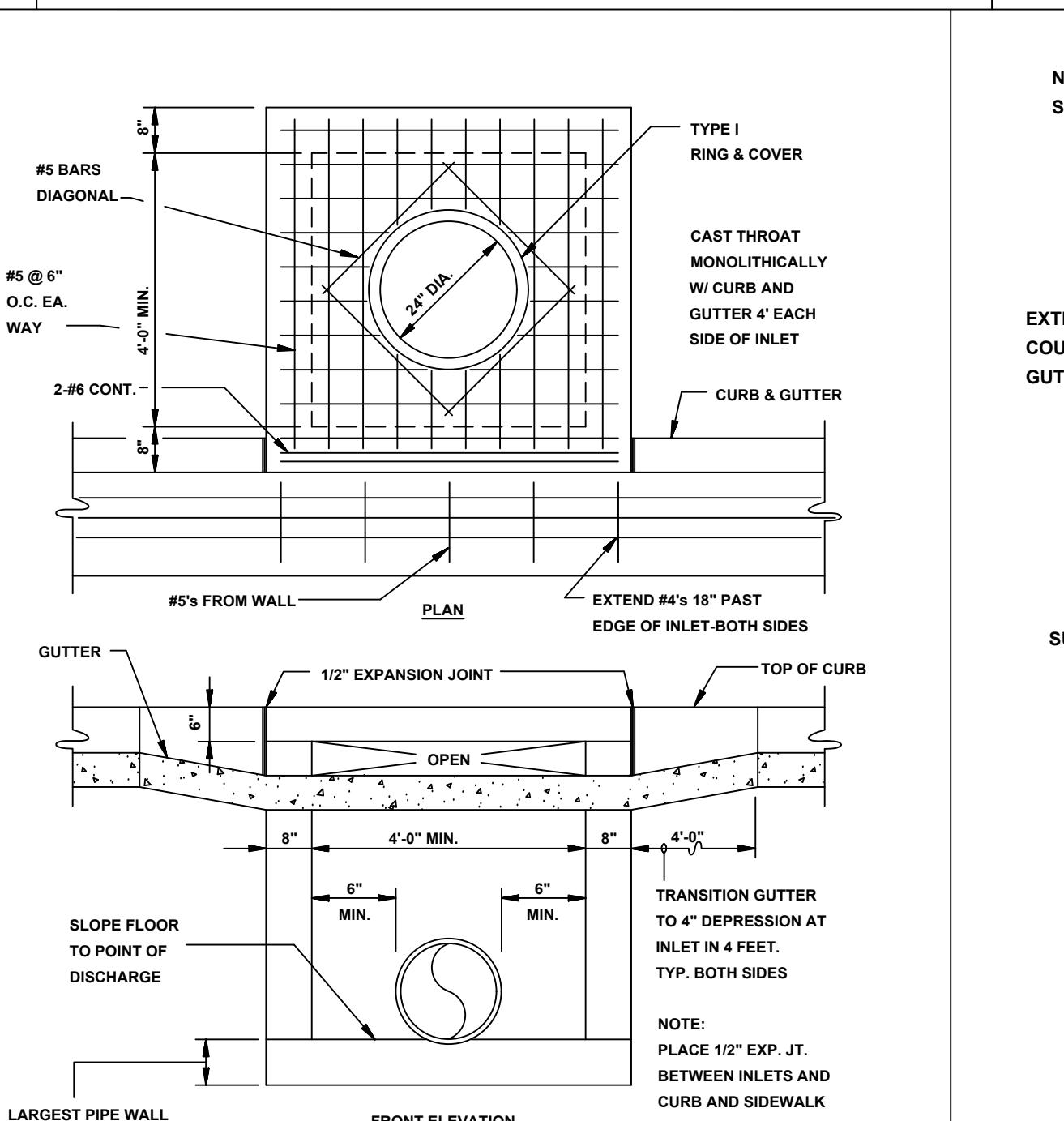
SECTION - CIRCULAR CURB INLET



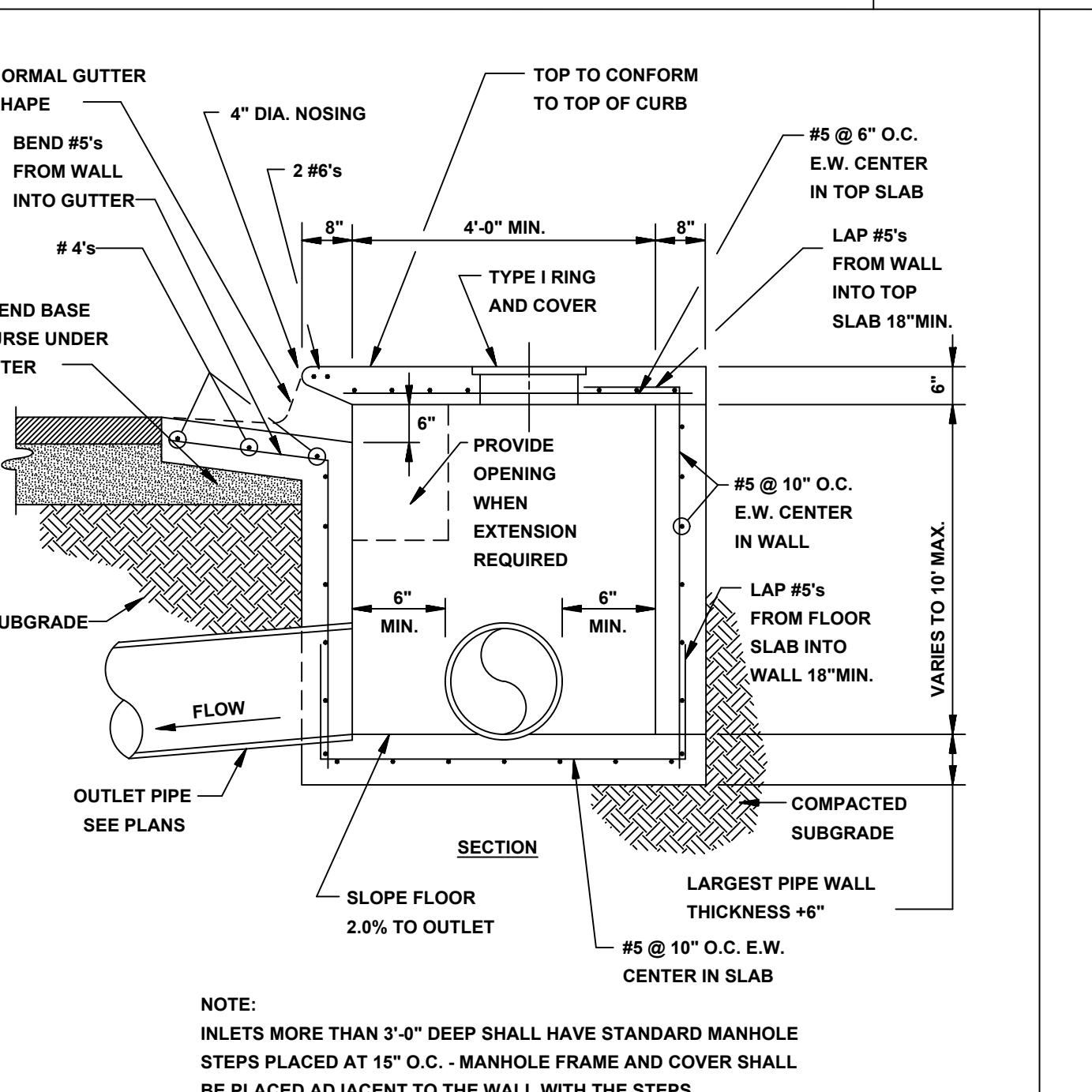
**CIRCULAR CURB INLET
W/ INLET EXTENSION**



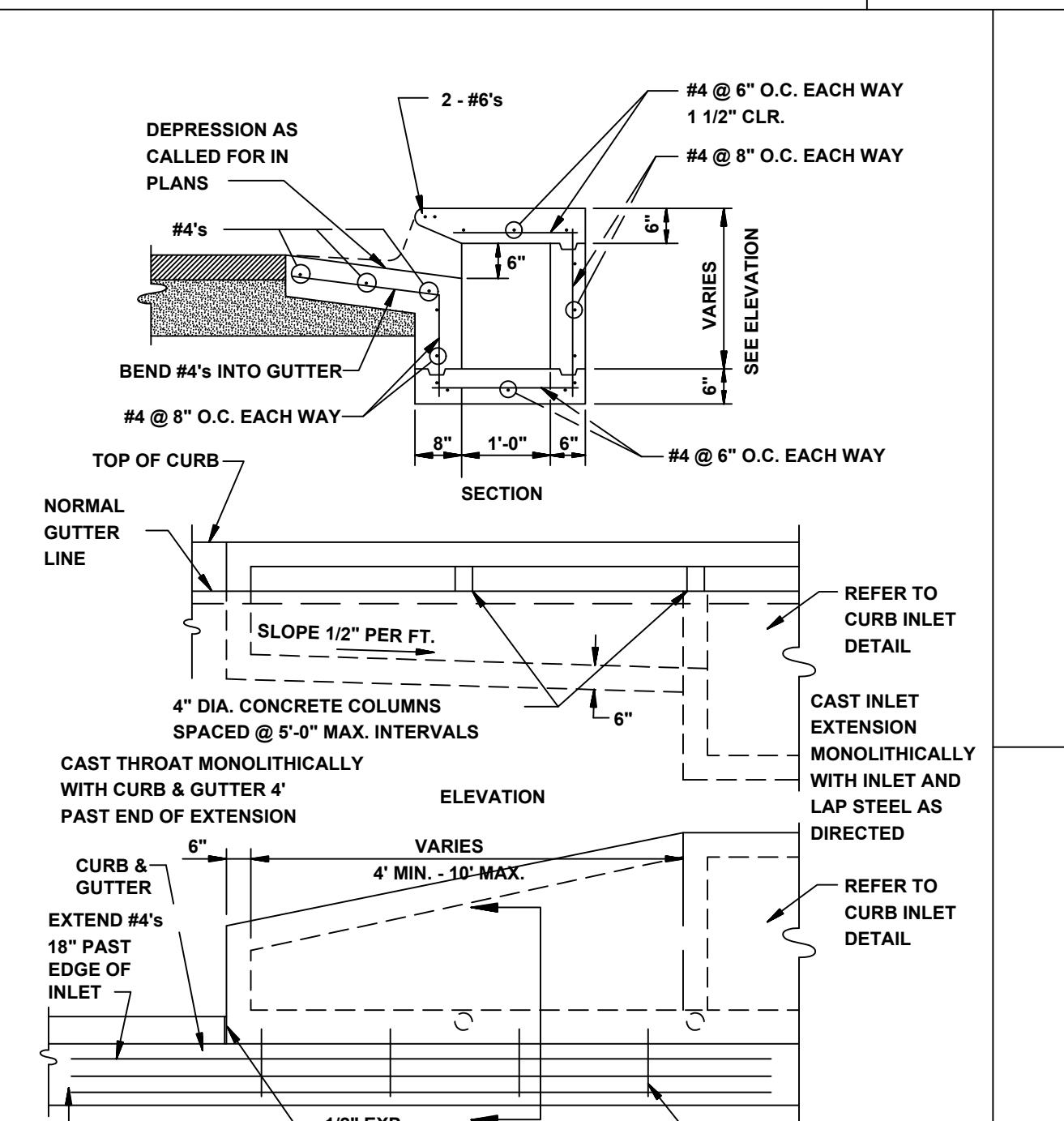
RECTANGULAR CURB INLET EXTENSION



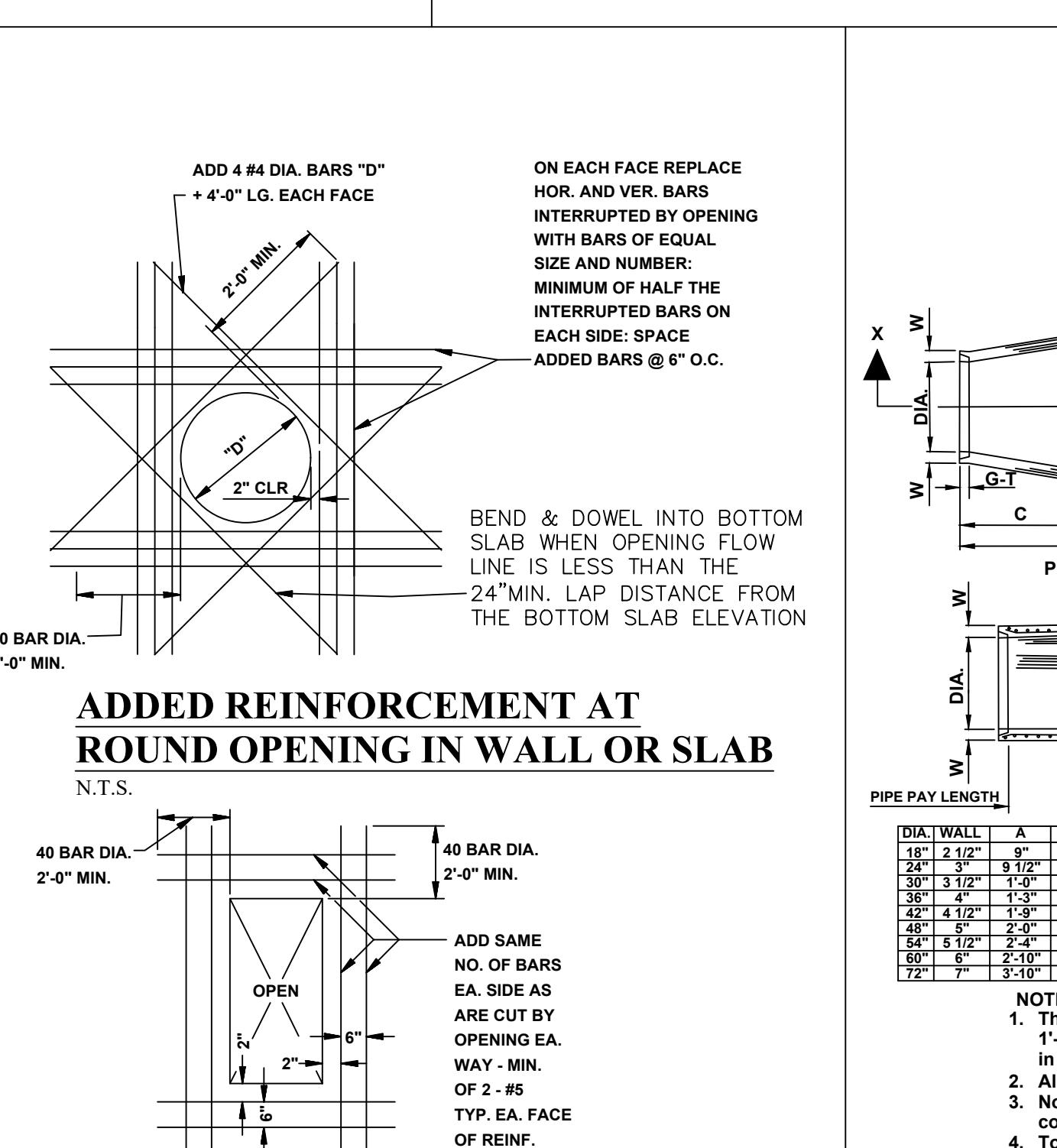
RECTANGULAR CURB INLET



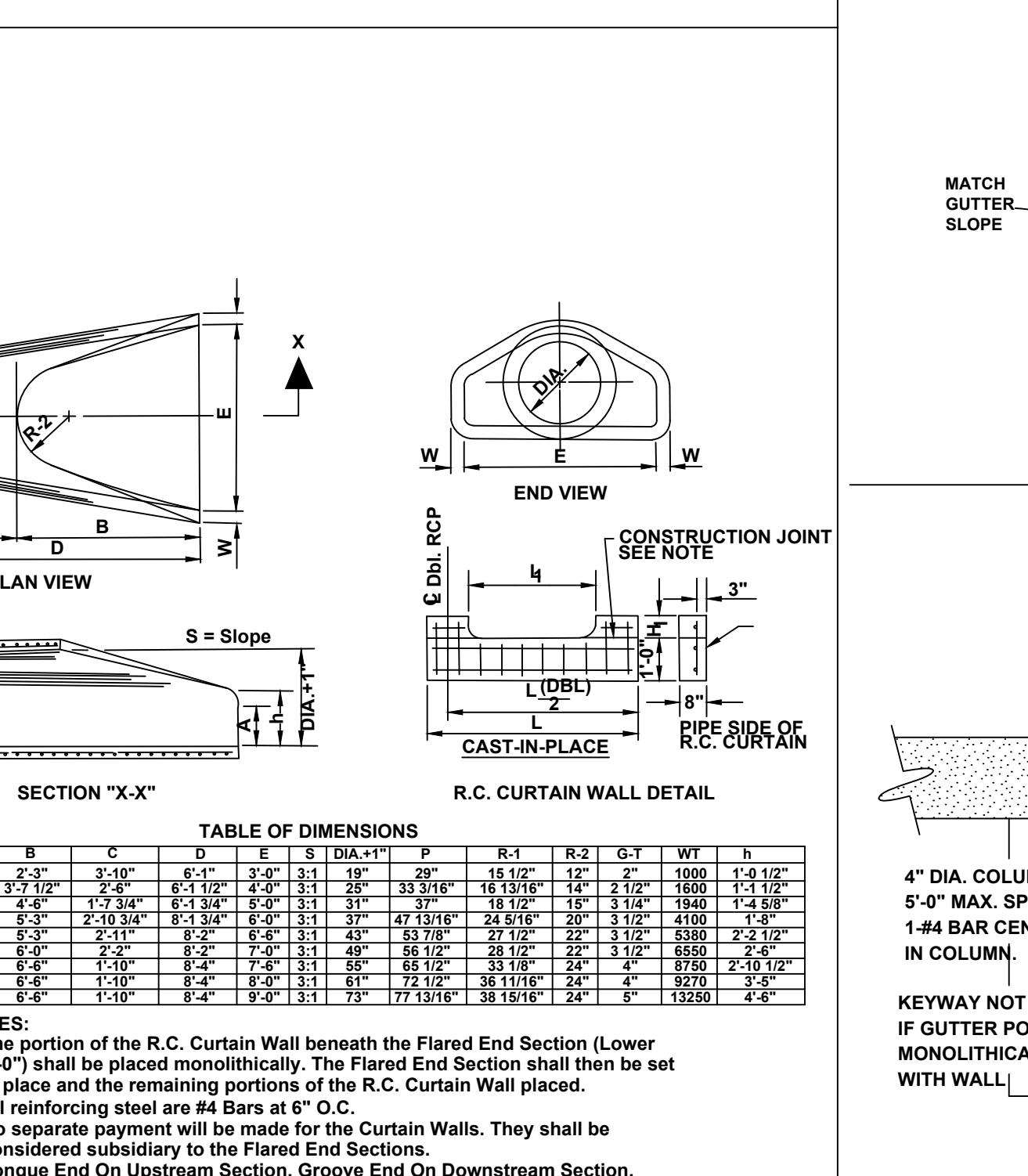
SECTION - TYPICAL CURB INLET - TYPE 'A'



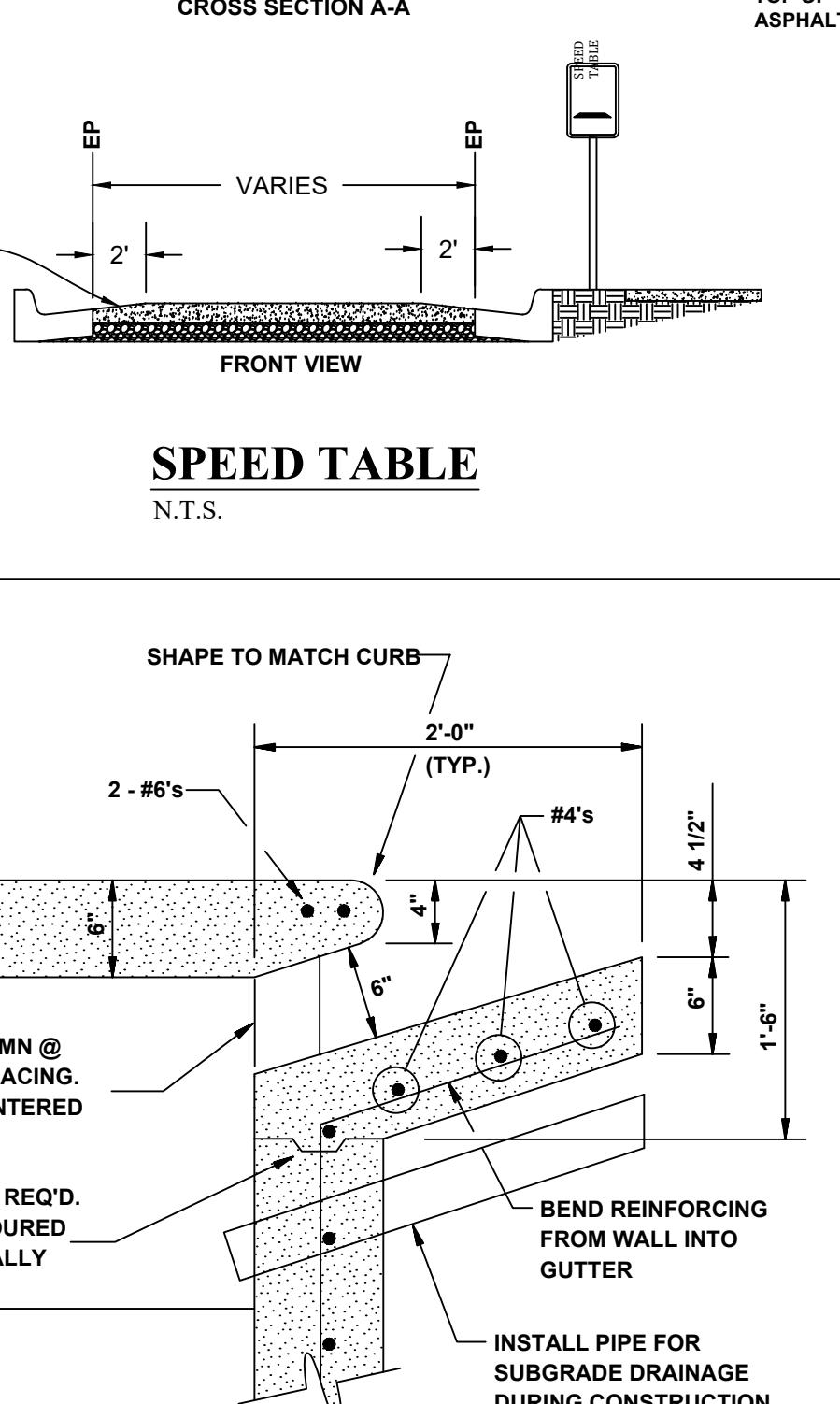
ALTERNATE CURB INLET EXTENSION



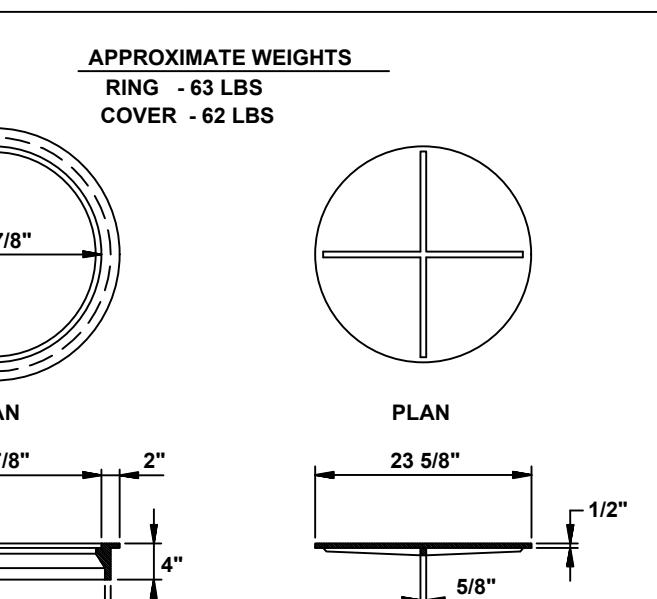
**ADDED REINFORCEMENT AT
ROUND OPENING IN WALL OR SLAB**



**FLARED END SECTION DETAIL FOR
REINFORCED CONCRETE PIPE CULVERT**



CURB OPENING



TYPE I RING & COVER

NOTE: TYPE I FRAME AND COVER PERMITTED ONLY ON STRUCTURES NOT SUBJECT TO VEHICULAR TRAFFIC.

