

DRAWINGS FOR:

GRAND FIR II APARTMENTS

MARIETTA STREET SE
SALEM, OR 97302

FOR:

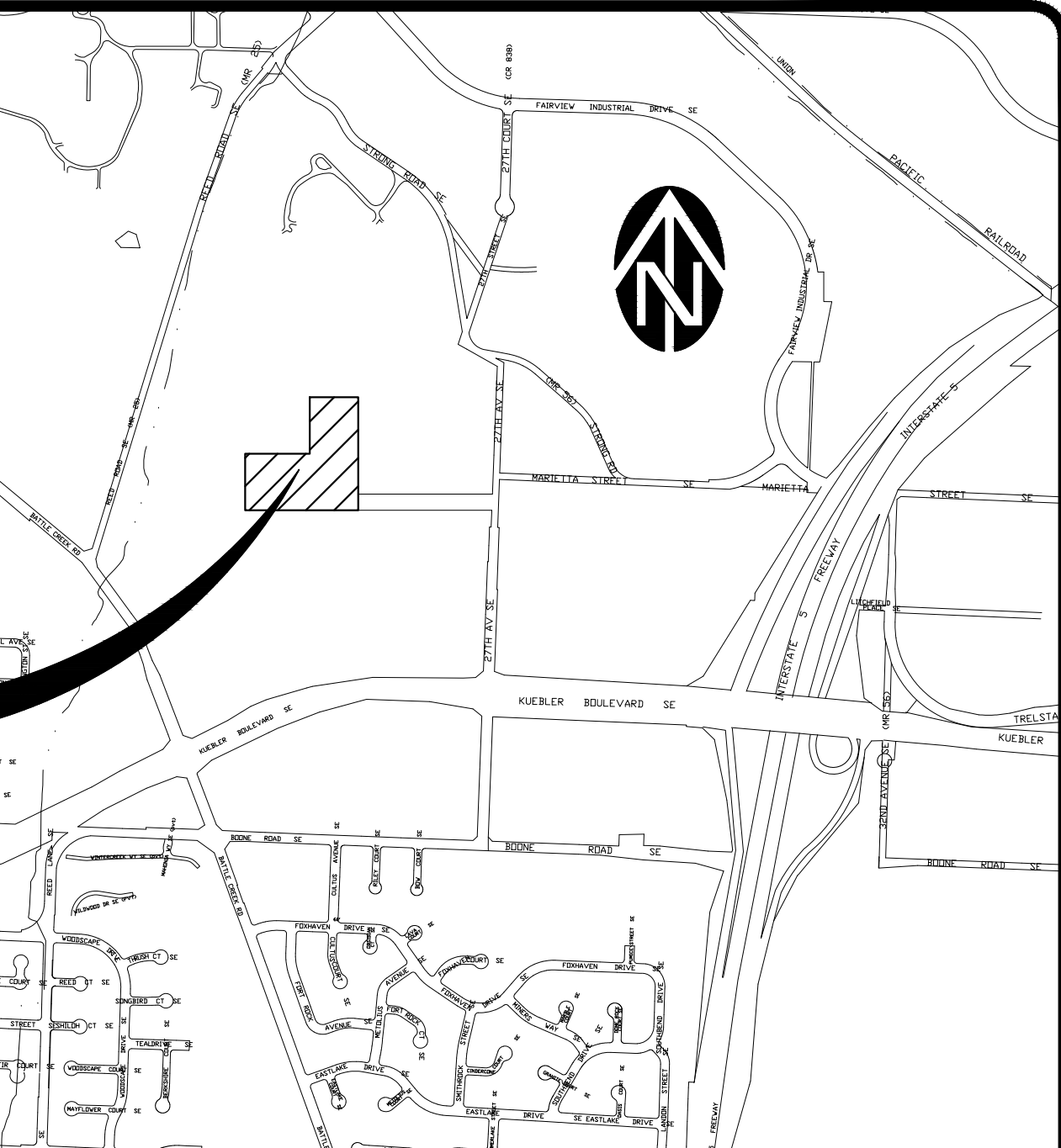
HOME FIRST DEVELOPMENT PARTNERS
4351 SE HAWTHORNE BOULEVARD
PORTLAND, OR 97215

PROJECT MANAGER: MIKE BOYER
503-559-2565
MIKE@HFDPARTNERS.COM



Know what's below.
Call before you dig.

PROJECT
LOCATION



VICINITY MAP

GENERAL LEGEND

ITEM	PROPOSED	EXISTING
SANITARY SEWER	_____	SS _____
STORM DRAIN	_____	SD _____
WATER	_____	W _____
GAS	_____	G _____
TELEPHONE	_____	T _____
POWER	_____	P _____
FENCE	X — X	X — X
BARRICADE	□ — □	□ — □
TELEPHONE MANHOLE		Ⓣ
TELEPHONE PEDESTAL		Ⓣ
SANITARY SEWER MANHOLE	Ⓢ	Ⓢ
STORM DRAIN MANHOLE	Ⓣ	Ⓣ
CATCH BASIN	Ⓢ	Ⓢ
FIRE HYDRANT AND VALVE	Ⓢ	Ⓢ
WATER METER	■	□
WATER VALVE	⊗	⊗
POWER POLE	○	○
POWER POLE W/ANCHOR	○ —	○ —
POLE W/LUMINARE	○ —	○ —
LIGHT POLE	Ⓢ	Ⓢ
SIGN POST	Ⓢ	Ⓢ
MAILBOX	Ⓢ	Ⓢ
HEDGE OR BRUSH	Ⓢ	Ⓢ
TREES	Ⓢ	Ⓢ
STREET OR ALLEY RIGHT OF WAY	_____	R/W _____
PLATTED LOT LINE	_____	_____
OWNERSHIP LINE	_____	_____
EASEMENT OR TEMPORARY RIGHT OF WAY	_____	_____
PROJECT CENTERLINE AND	2 + 3 4 5	

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON
ORIGINAL DRAWING
SCALE ACCURACIES

DATE: APR. 2022

NO. 1

DATE

DESCRIPTION

REVISIONS

BY

PROFESSIONAL
ENGINEER
REGISTERED
STATE OF OREGON
JULY 16, 2016
STEVEN A. GIBLIN

REVIEW

WESTTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS

WE

3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
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HOME FIRST DEVELOPMENT PARTNERS

GRAND FIR APARTMENTS PHASE II

COVER SHEET, VICINITY & LOCATION MAPS

DRAWING

G-1

JOB NUMBER

3352.0000.0

DRAWING INDEX

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G-4	CONSTRUCTION NOTES
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EC-3	EROSION CONTROL PLAN - VERTICAL CONSTRUCTION
EC-4	EROSION CONTROL PLAN - FINAL LANDSCAPE & STABILIZATION
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HOME FIRST DEVELOPMENT PARTNERS

GRAND FIR APARTMENTS PHASE II

DRAWING INDEX

DRAWING
G-2

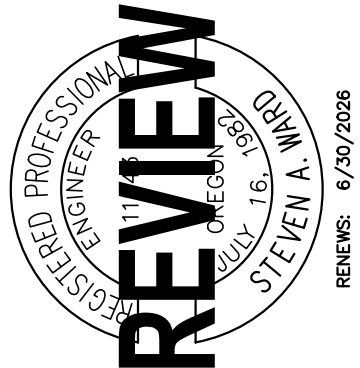
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RENEWALS: 6/30/2026

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING

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DATE: APR 2022

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DESCRIPTION

REVISIONS

1. Contractor shall procure, and conform to all construction permits required by the City of Salem.
2. Owner to pay all project permit costs, including but not limited to utility tapping, TV, and chlorination costs. The Contractor shall coordinate with the Approving Authority to determine appropriate fees and provide the Owner with 48 hours notice prior to the required payment of fees or costs. Contractor to apply for and pay all Private Plumbing and Electrical Permits
3. Oregon law requires the Contractor to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. Obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is 503-232-1987).
4. Contractor to notify City and all utility companies a minimum of 48 business hours (2 business days) prior to start of construction, and comply with all other notification requirements of the Approving Agency with jurisdiction over the work.
5. Contractor shall provide all bonds and insurance required by public and/or private agencies having jurisdiction. Where required by public and/or private agencies having jurisdiction, the Contractor shall submit a suitable maintenance bond prior to final payment.
6. For City Construction Permits, contact Salem Public Works Engineering Construction Management at 503-588-6211. For City Building Permits, contact Salem Permit Application Center at 503-588-6256.
7. Contractor to apply for services at the Permit Application Center (PAC office) for work to be done by City forces on public mains.
8. All materials and workmanship for facilities in street right-of-way or easements shall conform to Approving Agencies' construction specifications wherein each has jurisdiction, including but not limited to the City, County, Oregon Health Division (OHD) and the Oregon Department of Environmental Quality (DEQ).
9. Unless otherwise approved by the Public Works Director, construction of all public facilities shall be done between 7:00 a.m. and 6:00 p.m., Monday through Saturday.
10. The Contractor shall perform all work necessary to complete the project in accordance with the approved construction drawings including such incidentals as may be necessary to meet the Approving Agencies' requirements and provide a completed project.
11. Any inspection by the City or other Approving Agency shall not, in any way, relieve the Contractor from any obligation to perform the work in strict compliance with the contract documents, applicable codes, and Approving Agency requirements.
12. Contractor shall maintain one complete set of approved drawings on the construction site at all times wherein he will record all approved deviations in construction from the approved drawings, as well as the station locations and depths of all existing utilities encountered. These field record drawings shall be kept up to date at all times and shall be available for inspection by the Approving Agency or Owner's Representative upon request. Failure to conform to this requirement may result in delay in payment and/or final acceptance of the project.
13. Upon completion of construction of all new facilities, Contractor shall submit a clean set of field record drawings containing all as-built information to the Engineer. All information shown on the Contractor's field record drawings shall be subject to verification. If significant errors or deviations are noted, an as-built survey prepared and stamped by a registered professional Land Surveyor shall be completed at the Contractor's expense.
14. Contractor shall procure and conform to DEQ stormwater permit No. 1200C for construction activities where 1 acre or more are disturbed.
15. The contractor shall retain and pay for the services of a registered Civil Engineer and/or Land Surveyor licensed in the State of Oregon to establish construction control and perform initial construction surveys to establish the lines and grades of improvements as indicated on the drawings. Staking for buildings, structures, curbs, gravity drainage pipes/structures and other critical improvements shall be completed using equipment accurate to 0.04 feet horizontally and 0.02 feet vertically, or better. Use of GPS equipment for final construction staking of these critical improvements is prohibited. The registered professional surveyor shall provide the design engineer with copies of all grade sheets for construction staking performed for the project.
16. See architectural drawings for site lighting, site dimensioning, and continuation of all utilities.

TRAFFIC CONTROL:

17. Contractor shall erect and maintain barricades, warning signs, traffic cones (and all other traffic control devices required) per City requirements in accordance with the current MUTCD (including Oregon amendments). Access to driveways shall be maintained at all times. All traffic control measures shall be approved and in place prior to any construction activity. Prior to any work in the existing public right-of-way, Contractor shall submit final traffic control plan to the Approving Authority for review and issuance of a Lane Closure or Work in Right-of-Way Permit.
18. Prior to any work in the existing right-of-way, Contractor shall submit final traffic control plan to City of Salem for review and issuance of lane closure permit. Contractor to obtain a lane closure permit before construction starts for any work within the existing public right-of-way, including public street improvements or driveway connections to existing streets.

TESTING AND INSPECTION:

19. For public and private improvements, the Contractor shall be responsible to ensure that all required or necessary inspections are completed by authorized inspectors prior to proceeding with subsequent work which covers or that is dependent on the work to be inspected. Failure to obtain necessary inspection(s), and approval(s) shall result in the Contractor being fully responsible for all problems and/or corrective measures arising from uninspected work.
20. Unless otherwise specified, the attached "Required Testing and Frequency" table outlines the minimum testing schedule for private improvements on the project. This testing schedule is not complete, and does not relieve the Contractor of the responsibility of obtaining all necessary inspections or observations for all work performed, regardless of who is responsible for payment. Cost for retesting shall be borne by the Contractor.

21. The location and descriptions of existing utilities shown on the drawings are compiled from available records and/or field surveys. The Engineer or utility companies do not guarantee the accuracy or the completeness of such records. Contractor shall field verify locations and sizes of all existing utilities prior to construction.

22. Utility locations are based on record information and should be field-verified. Call 1-800-332-2344 at least 48 hours prior to construction for on-site locating of utilities.

23. Contractor shall field verify location and depth of all existing utilities where new facilities cross. All utility crossings marked or shown on the drawings shall be potholed using hand tools or other non-invasive methods prior to excavating or boring. Contractor shall be responsible for exposing potential utility conflicts far enough ahead of construction to make necessary grade or alignment modifications without delaying the work. If grade or alignment modification is necessary, Contractor shall notify the Design Engineer, and the Design Engineer or the Owner's Representative shall obtain approval from the Approving Agency prior to construction.

24. The Contractor shall be responsible for locating and marking all existing survey monuments of record (including but not limited to property and street monuments) prior to construction. If any survey monuments are removed, disturbed or destroyed during construction of the project, the Contractor shall retain and pay for the services of a Registered Professional Surveyor licensed in the State of Oregon to reference and replace all such monuments prior to final payment. The monuments shall be replaced within a maximum of 90 days, and the County Surveyor shall be notified in writing as required by per ORS 209.150.

25. All facilities shall be maintained in-place by the Contractor unless otherwise shown or directed. Contractor shall take all precautions necessary to support, maintain, or otherwise protect existing utilities and other facilities at all times during construction. Contractor to leave existing facilities in an equal or better-than-original condition and to the satisfaction of the Approving Agency and Owner's Representative.

26. Utilities or interfering portions of utilities that are abandoned in place shall be removed by the Contractor to the extent necessary to accomplish the work. The Contractor shall plug the remaining exposed ends of abandoned utilities after appropriate verification procedures have taken place.

27. Contractor shall remove all existing signs, mailboxes, fences, landscaping, etc., as required to avoid damage during construction and replace them to existing or better condition.

28. Unless otherwise approved by the Approving Agency, all field tiles or drain lines intercepted or exposed during construction shall be connected to new storm lines, unless they are removed completely during construction, or are located and plugged at 50 foot maximum intervals uphill of the location intercepted. Any abandoned drain tiles downstream of the intercepting trenches shall be plugged with grout.

29. The Contractor shall be responsible for managing construction activities to ensure that public streets and right-of-ways are kept clean of mud, dust or debris. Dust abatement shall be maintained by adequate watering of the site by the Contractor.

GRADING, PAVING & DRAINAGE:

30. Contractor to review soils report prepared by GeoEngineers and Associates, and conform to all recommendations listed in the report.

31. (Salem Projects) All materials and workmanship for compaction, fills, grading, rocking and paving within the public right-of-way shall conform to City of Salem Standard Construction Specifications.

32. Unless otherwise noted, all grading, rocking and paving to conform to Oregon Standard Specifications for Construction (OSSC/ODOT/APWA), 2018 edition.

33. Clear and grub within work limits all surface vegetation, trees, stumps, brush, roots, etc. Do not damage or remove trees except as approved by the Owner's Representative or as shown on the drawings. Protect all roots two inches in diameter or larger.

34. Strip work limits, removing all organic matter, which cannot be compacted into a stable mass. All trees, brush, and debris associated with clearing, stripping or grading shall be removed and disposed of off-site.

35. For public and private improvements, except as otherwise allowed by the specifications required by Salem Standard Construction Specifications, drawing details or notes, immediately following stripping and grading operations, compact subgrade to 92% of the maximum dry density per AASHTO T-180 test method (Modified Proctor). Subgrade must be inspected and approved by the Owner's authorized representative before placing, engineered fills or fine grading for base rock.

36. Unless otherwise required by Salem Standard Construction Specifications, Engineered fills shall be constructed and compacted in 6" lifts over approved subgrade. All fills shall be engineered and comply with the Oregon Structural Specialty Code, with each lift compacted to 92% of the maximum dry density per AASHTO T-180 test method (Modified Proctor).

37. For private improvements, unless otherwise required by Salem Standard Construction Specifications, Granular base/rock shall conform to the requirements of OSSC (ODOT/APWA) 02630.10 (Dense Graded Base Aggregate), with no more than 10% passing the #40 sieve and no more than 5% passing the #200 sieve.

38. Compact granular base/rock to 92% of the maximum dry density per AASHTO T-180 test method (Modified Proctor). Written base/rock compaction test results from an independent testing laboratory must be received by the Owner's authorized representative before placing AC pavement, and a finished rock grade proof-roll (witnessed by the Owners authorized representative) must be performed.

39. For private improvements, unless otherwise required by Salem Standard Construction Specifications, A.C. pavement shall conform to OSSC (ODOT/APWA) 00745 (Hot Mixed Asphalt Concrete Pavement) for standard duty mix. Unless otherwise specified or shown on the drawings, base lifts shall be 3/4" dense graded mix, while wearing courses shall be 1/2" dense graded mix. Unless otherwise specified or shown on the drawings, A.C. pavement for parking lots and streets shall be Level 2 mix (50 blow Marshall) per OSSC (ODOT/APWA) 00744.13. A.C. Pavement shall be compacted to a minimum of 91% of maximum density as determined by the Rice standard method. Written AC pavement compaction test results from an independent testing laboratory must be received by the Owner's authorized representative before final payment.

- Pavement surface shall be a smooth, well-sealed, tight mat without depressions or bird baths. Bony or open graded pavement surfaces shall be repaired to the satisfaction of the Owner's authorized representative, prior to final acceptance of the work.
41. For private improvements, unless otherwise required by Salem Standard Construction Specifications, HMA/C mixtures shall be placed only when the surface is dry and weather conditions are such that proper handling, finishing and compaction can be accomplished. In no case shall bituminous mixtures be placed when the surface temperature is below the minimum established under 2018 OSSC (ODOT/APWA) 00744.40 (AC – Season and Temperature Limitations) or the project specifications, whichever is more stringent.
 42. Contractor shall protect new pavement against traffic as required, until it has cooled sufficiently to avoid tracking.
 43. For parking lots or private access drives, the final lift of AC pavement shall not be placed until after the building is fully enclosed and weatherproof, unless otherwise approved by the Owner's authorized representative.
 44. Unless otherwise shown on the drawings or details, straight grades shall be run between all finish grade elevations and/or finish contour lines shown (exception: where grades are shown across sidewalks, slopes shall be adjusted to ensure that maximum allowable sidewalk cross slopes are not exceeded).
 45. Finish pavement grades at transition to existing pavement shall match existing pavement grades or be feathered past joints with existing pavement as required to provide a smooth, free draining surface.
 46. All existing or constructed manholes, cleanouts, monument boxes, gas valves, water valves and similar structures shall be adjusted to match finish grade of the pavement, sidewalk, landscaped area or median strip wherein they lie. Verify that all valve boxes and risers are clean and centered over the operating run.
 47. Unless otherwise shown on the drawings, no cut or fill slopes shall be constructed steeper than 3H:1V.
 48. Unless otherwise shown on the landscape plans, all planter areas shall be backfilled with approved topsoil minimum 8" thick. Stripping materials shall not be used for planter backfill.
 49. Contractor shall seed and mulch (uniformly by hand or hydroseed) all exposed slopes and disturbed areas which are not scheduled to be landscaped, including trench restoration areas. If the Contractor fails to apply seed and mulch in a timely manner during periods favorable for germination, or if the seeded areas fail to germinate, the Owner's Representative may (at his discretion) require the Contractor to install sod to cover such disturbed areas.
 50. Grading shown on the drawings is critical to functioning of detention system and shall be strictly followed.
 51. Contractor shall coordinate and ensure that detention pond volumes are inspected and approved by public agencies having jurisdiction before paving and landscaping.
- CURBS & SIDEWALKS:**
52. Unless otherwise shown or indicated on the drawings, 6-inches nominal curb exposure used for design of all parking lot and street grades.
 53. Where new curbing connects to existing curbing or is installed along existing streets or pavement, the gutter grade shall match the existing street grades so as to allow drainage from the street to the gutter and through any transitions. The Contractor shall notify the Owner's Representative in writing of any grade discrepancies or problems prior to curb placement.
 54. Road widening design is based on available survey taken at random intervals. Street pavement widening cross slope shall be a minimum of 2% and a maximum of 5% except at intersections, where the street cross slopes shall not exceed 2% maximum (intersection defined from end of curb radius both directions). Prior to placing curbs, Contractor shall field verify pavement widening cross slope and contact Engineer if the design pavement widening cross slope is not within the limits stated above.
 55. Contractor shall construct all handicap access ramps (accessible per ICC A117-1) in accordance with current ADA requirements.
 56. Sidewalks shall be a minimum of 4-inches thick and standard residential driveways shall be a minimum of 6-inches thick. Commercial use driveways and alley approaches shall be minimum 8-inches thick. All curbs, sidewalks and driveways shall be constructed using 3300-psi concrete, and shall be cured with Type 1 or Type 1D clear curing compound. All sidewalks shall be ADA compliant.
 57. Curb & sidewalk concrete shall be placed only during periods when it will not be damaged by rain (protect unhardened concrete from precipitation). Concrete shall not be placed on frozen base rock. Do not begin concrete placement until temperature in the shade is a minimum of 35°F and rising, and stop placement if air temperature falls below 35°F. Protect concrete from freezing for a minimum of 5 days after placement per OSSC (ODOT/APWA) 00440.40.d & 00756.40 or the project specifications, whichever is more stringent.
 58. Contraction joints shall be installed directly over any pipes that cross under the sidewalk, to control cracking. In general, cracks in new curbs or sidewalks (at locations other than contraction joints) are not acceptable, and cracked panels shall be removed & replaced unless otherwise approved by the Approving Agency and the design engineer.
 59. All sidewalks shall be ADA (accessible per ICC A117-1) compliant. Direction of sidewalk cross slope shall conform with the slope direction shown on the grading plan. Sidewalk cross slopes shall not exceed 1:67 (1.5%) nor be less than 1%. Longitudinal slope shall not exceed 1:20 (5%).
 60. Where trench excavation requires removal of PCC curbs and/or sidewalks, the curbs and/or sidewalks shall be sawcut and removed at a tooled joint unless otherwise authorized in writing by the Approving Agency. The sawcut lines shown on the drawings are schematic and not intended to show the exact alignment of such cuts.
 61. Unless otherwise shown on the drawings, areas along curbs and sidewalks shall be backfilled with approved topsoil, as well as being seeded and mulched (or hydroseeded).

63. All tapping of existing public sanitary sewer, storm drain mains, and manholes must be done by City forces.

63. All tapping to be done by City of Salem forces. To schedule water/sewer/storm taps call (503) 588-6333. Taps are generally available within two business days.

64. The Contractor shall have appropriate equipment on site to produce a firm, smooth, undisturbed subgrade at the trench bottom, true to grade. The bottom of the trench excavation shall be smooth, free of loose materials or tooth grooves for the entire width of the trench prior to placing the granular bedding material.

65. All pipes shall be bedded with minimum 6-inches of 3/4"-0 crushed rock bedding and backfilled with compacted 3/4"-0 crushed rock in the pipe zone (crushed rock shall extend a minimum of 12-inches over the top of the pipe in all cases). Unless CDF or other backfill is shown or noted on the drawings, crushed rock trench backfill shall be used under all improved areas, including pavement, sidewalks, foundation slabs, buildings, etc.

66. Granular trench bedding and backfill shall conform to the requirements of OSSC (ODOT/APWA) 02630.10 (Dense Graded Base Aggregate), 3/4"-0. Unless otherwise shown on the drawings, compact granular backfill to 92% of the maximum dry density per AASHTO T-180 test method (Modified Proctor).

67. Contractor shall arrange to abandon existing sewer and water services not scheduled to remain in service in accordance with approving agency requirements.

68. All piped utilities abandoned in place shall have all openings closed with concrete plugs with a minimum length equal to 2 times the diameter of the abandoned pipe.

69. The end of all utility service lines shall be marked with a 2-x-4 painted white and wired to pipe stub. The pipe depth shall be written on the post in 2" block letters and red lined on the drawings for preparation of As-Built Drawings.

70. All non-metallic water, sanitary and storm sewer piping shall have an electrically conductive insulated 12 gauge solid core copper tracer wire the full length of the installed pipe using blue wire for water and green wire for storm and sanitary piping. Tracer wire shall be extended up into all valve boxes, catch basins, manholes and lateral cleanout boxes. Tracer wire penetrations into manholes shall be within 18 inches of the rim elevation and adjacent to manhole steps. The tracer wire shall be tied to the top manhole step or otherwise supported to allow retrieval from the outside of the manhole. All tracer wire splices shall be made with waterproof splices or waterproof/corrosion resistant wire nuts.

71. No trenches in sidewalks, roads, or driveways shall be left in an open condition overnight. All such trenches shall be closed before the end of each workday and normal traffic and pedestrian flows restored.

72. Before mandrel testing, TV inspection or final acceptance of gravity pipelines, all trench compaction shall be completed and all sewers and storm drains flushed & cleaned to remove all mud, debris & foreign material from the pipelines, manholes and/or catch basins.

73. Where future extensions are shown upstream of new manholes (sewer or storm), catch basins or junction boxes, pipe stubs (with gasketed caps) shall be installed at design grades to a point 2' minimum outside of the structure.

WATER SYSTEM:

74. City forces to operate all valves, including fire hydrants, on existing public mains.

75. All Public water mains shall be class 52 ductile iron.

76. All Private water mains shall be Class 52 ductile iron or C-900 PVC (DR 18).

77. All fittings 4-inches through 24-inches in diameter shall be ductile iron fittings in conformance with AWWA C-153 or AWWA C-110. The minimum working pressure for all MJ cast iron or ductile iron fittings 4-inches through 24-inch in diameter shall be 350 psi for MJ fittings and 250 psi for flanged fittings.

78. All water mains to be installed with a minimum 36 inch cover to finish grade unless otherwise noted or directed. Water service lines shall be installed with a minimum 30-inch cover. Deeper depths may be required as shown on the drawings or to avoid obstructions.

79. Unless otherwise shown or approved by the Engineer, all valves shall be flange connected to adjacent tees or crosses.

80. Thrust restraint shall be provided on all bends, tees and other direction changes per Approving Agency requirements and as specified or shown on the drawings.

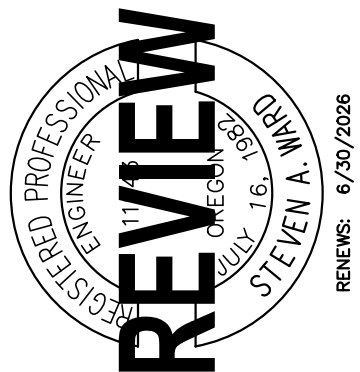
81. Water service pipe 2-inch and smaller on the public side of the meter shall be Type K soft copper tubing conforming to ASTM B-88. Water service pipe 3-inch and larger shall conform to the construction drawings and approving agency standards.

82. Domestic and fire backflow prevention devices and vaults shall conform to requirements of public and/or private agencies having jurisdiction. The Contractor shall be responsible for having backflow devices tested and certified prior to final acceptance of the work.

83. Contractor shall provide all necessary equipment and materials (including plugs, blowoffs, valves, service taps, etc.) required to flush, test and disinfect waterlines per the Approving Agency requirements.

84. The work shall be performed in a manner designated to maintain water service to buildings supplied from the existing waterlines. In no case shall service to any main line or building be interrupted for more than four (4) hours in any one-day. Contractor shall notify the Approving Agency and all affected residents and businesses a minimum of 24 business hours (1 business day) before any interruption of service.

VERIFY SCALE		DATE: APR 2022	
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CKD.	SAW		BY



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HOME FIRST DEVELOPMENT PARTNERS

GRAND FIR APARTMENTS PHASE II

CONSTRUCTION NOTES

DRAWING

G-3

JOB NUMBER

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85. Where new waterlines cross below or within 18–inches vertical separation above a sewer main or sewer service lateral, center one full length of waterline pipe at point of crossing the sewer line or sewer lateral. In addition (unless otherwise approved in writing by the Approving Agency, existing sewer mains and/or service laterals within this zone shall be replaced with a full length of Class 50 Ductile Iron or C–900 PVC pipe (DR 18) centered at the crossing in accordance with OAR 333–061 and Approving Agency requirements. Connect to existing sewer lines with approved rubber couplings. Example: For an 8–inch waterline with 36–inches cover, 4–inch service lateral inverts within 5.67–feet (68–inches) of finish grade must be DI or C–900 PVC at the crossing.

86. All waterlines, services and appurtenances shall be pressure tested for leakage. All testing shall conform to requirements as outlined in the specifications, Approving Agency standards and/or testing forms. The hydrostatic test shall be performed with all service line corporation stops open and meter stops closed, and with all hydrant line valves open. Prior to the start of each pressure test, the position of all mainline valves, hydrant line valves and service line corporation stops in the test segment shall be verified.

87. After the pressure test and prior to disinfecting, the water lines shall be thoroughly flushed through hydrants, blow offs or by other approved means.

88. Disinfection & Bacteriological Testing. All water mains and service lines shall be chlorine disinfected per Approving Agency requirements, AWWA C–651 or OAR 333–061 (25 mg/L minimum chlorine solution, 24 hours contact time), whichever is more stringent. Unless otherwise approved by the Approving Agency, a Representative from the Approving Agency shall witness the application of the chlorine solution and the chlorine testing at the end of the 24 hour contact period. After the 24 hour chlorine contact period, the free chlorine concentration shall be checked, and if it is found to be 10 mg/L or more, the chlorine solution shall be drained (otherwise the line shall be rechlorinated), the waterline flushed with potable water, and a minimum of two consecutive samples taken at least 24 hours apart shall be collected from the waterline for microbiological analysis (ie. one sample immediately after flushing, and another sample 24 hours later). Contractor to pay for laboratory analysis of water samples taken under the supervision of the Approving Agency. If the results of both analyses indicate that the water is free of coliform organisms, the waterline may be placed in service. Should the initial treatment prove ineffective, the chlorination shall be repeated until confirmed tests show acceptable results.

89. Disinfection of Connections. For connections which cannot be disinfected with the waterline mainlines as noted above, all fittings, valves and appurtenances, including tool surfaces which will come in contact with potable water, shall be thoroughly cleaned by washing with potable water and then swabbed or sprayed with a one percent (1%) hypochlorite solution (10,000 mg/L) in accordance with the requirements of AWWA C–651 and OAR 333–061.

SEWER & STORM MANHOLES:

90. All precast manholes shall be provided with integral rubber boots. Where manholes without integral rubber boots are approved by the Owner's Representative and Approving Agency, a pipe joint shall be provided on all mainlines within 1.5 feet of the outside face of the manhole. Where required by Public Works, watertight lockdown lids required on all manholes outside of public right–of–way.

91. Openings for connections to existing manholes shall be made by core–drilling the existing manhole structure, and installing a rubber boot. Connections shall be watertight and shall provide a smooth flow into and through the manhole with no ponding. Small chipping hammers or similar light tools which will not damage or crack the manhole base may be used to shape channels, but may be used to enlarge existing openings only if authorized in writing by the Owner's Representative. Use of pneumatic jackhammers shall be prohibited.

92. Manhole channels depths (sewer & storm) shall be to the heights shown on the drawings, but in no case shall the channel depth be less than 2/3 of the pipe diameter. Channels, as well as shelves between the channels and the manhole walls, shall be sloped to drain per plan details.

93. Manholes constructed over existing sanitary sewers shall conform to the requirements of OSSC (ODOT/APWA) 490.41, Manholes over Existing Sewers. The existing pipe shall not be broken out until after the completion of the manhole test.

SANITARY SEWER SYSTEM:

94. Unless otherwise specified, sanitary sewer pipe shall be solid wall PVC in conformance with ASTM D3034, SDR 35 (≤15”) or ATSM F–679, PS 46 (≥18”). Minimum stiffness shall be 46 psi per ASTM D–2412 and joint type shall be elastomeric gasket conforming to ASTM D–3212. All other appurtenances and installation to conform to the Approving Agency's specifications. All materials and workmanship for all private sanitary sewers, including sewers located within any building envelope, shall be installed in conformance with Uniform Plumbing Code requirements.

95. Unless otherwise specifically noted on the drawings, manufactured fittings (tee or wye per Approving Agency) shall be used for all lateral connections to new sewer mainlines.

96. Contractor shall provide all necessary materials, equipment and facilities to test sanitary sewer pipe and appurtenances for leakage in accordance with testing schedule herein or the Approving Agency's construction standards, whichever are more stringent. Sanitary sewer pipe and appurtenances shall be tested for leakage. Leakage tests shall include an air test of all sewer mains and laterals and vacuum testing of the manholes. Manhole testing shall be performed after completion of AC pavement and final surface restoration.

97. After manhole channeling and prior to mandrel testing and/or TV inspection, flush and clean all sewers, and remove all foreign material from the mainlines and manholes. Failure to clean all dirt, rock and debris from pipelines prior to TV inspection will result in the need to re–clean and re–TV the sewer lines.

98. Contractor shall conduct deflection test of flexible sanitary sewer pipes by pulling an approved mandrel through the completed pipeline following trench compaction. The diameter of the mandrel shall be 95% of the initial pipe diameter. Test shall be conducted not less than 30 days after the trench backfilling and compaction has been completed, unless otherwise approved by the Approving Agency.

99. Upon completion of all sanitary sewer construction, testing and repair, the Contractor shall conduct a color TV acceptance inspection of all mainlines in accordance with OSSC (ODOT/APWA) 445.74 to determine compliance with grade requirements of OSSC (ODOT/APWA) 445.40.b. The TV inspection shall be conducted by an approved technical service which is equipped to make audio–visual recordings of the TV inspections on DVD or flash drive. Unless otherwise required by the Approving Agency, a standard 1–inch diameter ball shall be suspended in front of the camera during the inspection to determine the depth of any standing water. Sufficient water to reveal low areas or reverse grades shall be discharged into the pipe immediately prior to initiation of the TV inspection. The DVD and written report shall be delivered to the Approving Agency.

STORM DRAIN SYSTEM:

100. Storm sewer pipe materials shall conform to the construction drawings and Approving Agency's requirements. Unless otherwise noted or shown on the drawings, storm sewer pipe materials with watertight joints shall conform to the attached "Storm Pipe Table". Contractor shall use uniform pipe material on each pipe run between structures unless otherwise directed or approved. Jointed HDPE pipe shall not be used for slopes exceeding ten percent (10%). All materials and workmanship for all private storm drains, including storm drains located within any building envelope, shall be installed in conformance with Uniform Plumbing Code requirements.

101. Contractor shall designate the pipe material actually installed on the field record drawings and provide this information for inclusion on the as–built drawings.

102. Catch basins and junction boxes shall be set square with buildings or with the edge of the parking lot or street wherein they lie. Storm drain inlet structures and paving shall be adjusted so water flows into the structure without ponding water.

103. Unless otherwise approved by the Engineer, all storm drain connections shall be by manufactured tees or saddles.

104. Unless otherwise shown on the drawings, all storm pipe inlets & outfalls shall be beveled flush to match the slope wherein they lie.

105. Sweep (deflect) storm sewer pipe into catch basins and manholes as required. Maximum joint deflection shall not exceed 5 degrees or manufacturers recommendations, whichever is less.

106. Unless otherwise shown or directed, install storm sewer pipe in accordance with manufacturer installation guidelines.

107. After manhole channeling and prior to mandrel testing or final acceptance, flush and clean all sewers, and remove all foreign material from the mainlines, manholes and catch basins.

108. Mandrel Testing. Contractor shall conduct deflection test of flexible storm sewer pipes by pulling an approved mandrel through the completed pipeline following trench compaction. The diameter of the mandrel shall be 95% of the initial pipe diameter. Test shall be conducted not more than 30 days after the trench backfilling and compaction has been completed.

109. TV Inspection. Upon completion of all storm sewer construction, testing and repair, the Contractor shall conduct a color TV acceptance inspection of all mainlines in accordance with OSSC (ODOT/APWA) 445.74 to determine compliance with grade requirements of OSSC (ODOT/APWA) 445.40.b. The TV inspection shall be conducted by an approved technical service which is equipped to make audio–visual recordings of the TV inspections on DVD (VHS video tape acceptable only upon prior written approval by Public Works). Unless otherwise required by the agency with jurisdiction, a standard 1–inch diameter ball shall be suspended in front of the camera during the inspection to determine the depth of any standing water. Sufficient water to reveal low areas or reverse grades shall be discharged into the pipe immediately prior to initiation of the TV inspection. The DVD and written report shall be delivered to the Approving Agency.

110. Prior to acceptance, the Owner's Representative may lamp storm lines upstream & downstream of structures to verify that the pipes are clean and there is no grout or concrete in the mainlines, and that there are no observable bellies in the line. When necessary, sufficient water to reveal low areas shall be discharged into the pipe by the Contractor prior to any such inspection by the Owner's Representative or the Approving Agency.

STREET LIGHTS:

111. Street lights shall be installed after all other earthwork and public utility installations are completed and after rough grading of the property is accomplished to prevent damage to the poles.

112. Streetlight poles shall be set to a depth as specified by the manufacturer, but not less than 5 feet.

113. Street light poles shall be installed within one degree (1°) of plumb.

114. Contractor shall coordinate with utility companies and pay all costs for procurement, installation, wiring, hook up and activation of streetlights.

FRANCHISE & PRIVATE UTILITIES:

115. Unless otherwise shown on the drawings or approved by jurisdiction having authority, all new franchise and private utilities (power, cable TV, telephone, gas, data, communication, control, alarms, etc.) shall be installed underground. Installation of such utilities or associated conduits in a common trench with public water, sanitary sewer, or storm sewer is prohibited.

116. Contractor shall coordinate with gas, power, telephone, and cable TV Company for location of conduits in common trenches, as well as location or relocation of vaults, pedestals, etc. The Contractor shall be responsible for providing franchise utility companies adequate written notice of availability of the open trench (typically 10 days minimum), and reasonable access to the open trench. Unless otherwise approved in writing by the Approving Agency, all above–grade facilities shall be located in PUEs (where PUEs exist or will be granted by the development), and otherwise shall be placed in a location outside the proposed sidewalk location.

117. Unless otherwise approved by the Approving Agency, installation of private utilities (including either franchise utilities or private water, sewer or storm services) in a common trench with or within 3 feet horizontally of and paralleling public water, sanitary sewer or storm drains is prohibited.

118. Power, telephone and TV trenching and conduits shall be installed per utility company requirements with pull wire. Contractor shall verify with utility company for size, location and type of conduit before construction, and shall ensure that trenches are adequately prepared for installation per utility company requirements. All changes in direction of utility conduit runs shall have long radius steel bends.

119. Contractor shall notify and coordinate with franchise utilities for removal or relocation of power poles, vaults, pedestals, manholes, etc. to avoid conflict with Public utility structures, fire hydrants, meters, sewer or storm laterals, etc.

STORM PIPE TABLE	
Cover Depth	6” – 18” Diameter
Less than 2’ Cover	Class 50 ductile iron pipe with bell and spigot joints and rubber gasket.
2’ to 2–1/2’ Cover	Pipe specified for lesser cover depths –or– Class 3, ASTM C–14 non–reinforced concrete pipe with bell and spigot joints & rubber gaskets, ASTM 150 Type II cement. –or– PVC pipe conforming to AWWA C900 DR 18 (6”–12”) or AWWA C–905 (14”–18”) with bell and spigot joints and rubber gasket
2–1/2’ to 15’ Cover	Pipe specified for lesser cover depths –or– PVC pipe conforming to ASTM D–3034 PVC SDR 35 (6”–15”) or ASTM F–679 PVC solid wall SDR 35 (18”) with bell and spigot joints and rubber gasket. –or– HDPE (high density polyethylene) pipe conforming to AASHTO M–252, (8”–10”) or AASHTO M–294 (12”–18”). For slopes less than 6% the pipe shall be ADS N–12 IB ST, Hancor Sure–Lok F477, or approved equal. For slopes greater than 6% the pipe shall be ADS N–12 IB WT, Hancor Blue Seal, or approved equal with watertight pressure testable fittings, –except– jointed HDPE (high density polyethylene) pipe referenced above not permitted for depth to invert greater than 12 feet.
More than 15’ Cover	See construction drawings.
Cover Depth	21” – 30” Diameter
Less than 2’ Cover	Class 50 ductile iron pipe with bell and spigot joints and rubber gasket.
2’ to 2–1/2’ Cover	Pipe specified for lesser cover depths –or– Class IV ASTM C–76 reinforced concrete pipe with bell and spigot joints and rubber gasket, ASTM 150, Type II cement.
2–1/2’ to 15’ Cover (**HDPE allowed up to 60” diameter subject to max. depth limits listed)	Pipe specified for lesser cover depths –or– ASTM F–679 PVC solid wall SDR 35 pipe with bell and spigot joints and rubber gasket –or– HDPE (high density polyethylene) pipe conforming to AASHTO M–294. For slopes less than 6% the pipe shall be ADS N–12 IB ST, Hancor Sure–Lok F477, or approved equal. For slopes greater than 6% the pipe shall be ADS N–12 IB WT, Hancor Blue Seal, or approved equal with watertight pressure testable fittings, –except– (**)jointed HDPE (high density polyethylene) pipe referenced above not permitted for depth to invert greater than 12 feet.
More than 15’ Cover	See construction drawings.
Greater than 30” diameter and other pipe materials: Case by case basis.	

REQUIRED TESTING AND FREQUENCY TABLE			Party Responsible for payment	
			Contractor	Others (see note 1)
Streets, Fire Lanes, Common Driveways, Parking Lots, Pads, Fills, etc.				
Subgrade	1 Test/4000 S.F./Lift (4 min), locations acceptable to approving agency (typically alternate sides of road or access aisles)	✓	See note 2 & note 3	
Engineered Fills	1 Test/4000 S.F./Lift (4 min), locations acceptable to approving agency	✓	See note 2 & note 5	
Baserock	1 Test/4000 S.F./Lift (4 min), locations acceptable to approving agency (typically alternate sides of road or access aisles)	✓	See note 2 & note 3	
Asphalt	1 Test/6000 S.F./Lift (4 min), locations acceptable to AA (typ. alternate as above)	✓	See note 2	
Piped Utilities, All				
Trench Backfill	1 Test/200 Foot Trench/Lift (4 min)	✓	See note 2	
Trench AC Restoration	1 Test/300 Foot Trench (4 min)	✓	See note 2	
Water				
Pressure Test	(to be witnessed by Owner's Representative or approving agency)	✓	See note 4	
Bacterial Water Test	Per Oregon Health Division	✓	See note 2	
Chlorine Residual Test	Per City Requirements	✓		
Sanitary Sewer				
Air Test	Per City or APWA Requirements, whichever is more stringent	✓	See note 4	
Mandrel	95% of actual inside diameter	✓	See note 4	
TV Inspection	All. Lines must be cleaned prior to TV work	✓		
Manhole	(1) Vacuum test per manhole, witnessed by Owner's Representative or approving agency	✓	See note 2	
Pressure Test (force main)	Hydrostatic pressure test, witnessed by Owner's Representative or approving agency	✓	See note 4	
Storm				
Mandrel	95% of actual inside diameter	✓	See note 4	
TV Inspection	All. Lines must be cleaned prior to TV work	✓		
Concrete, Block, etc.				
Slump, Air & Cylinders for structural & reinforced concrete, equipment slabs, curbs, sidewalks & PCC pavements. Unless otherwise specified, one set of cylinders per 100 cubic yards (or portion thereof) of each class of concrete placed per day. Slump & air tests required on some load as cylinders.		✓	See note 2	
Building permit inspection & Special Inspection for structural concrete, reinforced masonry, epoxy anchors, etc. as required by applicable State Building Codes.		✓	See note 6	
Retaining Walls				
Building permit inspection and Special inspection, as well as compaction testing on backfill, all in conformance with applicable State Building Code requirements		✓	See note 5 & note 6	
Note 1: "Others" refers to Owner's authorized Representative or Approving Agency as applicable. Contractor responsible for scheduling testing. All testing must be completed prior to performing subsequent work.				
Note 2: Testing must be performed by an approved independent testing laboratory.				
Note 3: In addition to in–place density testing, the subgrade and base rock shall be proof–rolled with a loaded 10 yard dump truck provided by the Contractor. Baserock proofroll shall take place immediately prior to (within 24 hours of) paving, and shall be witnessed by the Owner's authorized Representative or approving agency. Location and pattern of testing and proofroll to be as approved or directed by said Owner's authorized Representative or approving agency.				
Note 4: To be witnessed by the Owner's Representative or approving agency. The Contractor shall perform pretests prior to scheduling witnessed waterline or sanitary sewer pressure tests, or pipeline mandrel test.				
Note 5: The approved independent laboratory retained by the Contractor shall provide a certification (stamped by an engineer licensed in the State of Oregon) that the subgrade was prepared and all engineered fills were placed in accordance with the provisions of the construction drawings and the contract documents.				
Note 6: Regardless of who is responsible for payment, the Contractor is responsible for scheduling and coordinating any and all required inspections and Special Inspections as required by applicable building codes or jurisdictions having authority.				

VERIFY SCALE
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IF NOT ONE INCH ON PRINT, SCALE ACCORDINGLY

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DSN. SAW
DRN. AR
CKD. SAW

NO. 1
DATE: APR. 2022

DESCRIPTION
REVISIONS



WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS

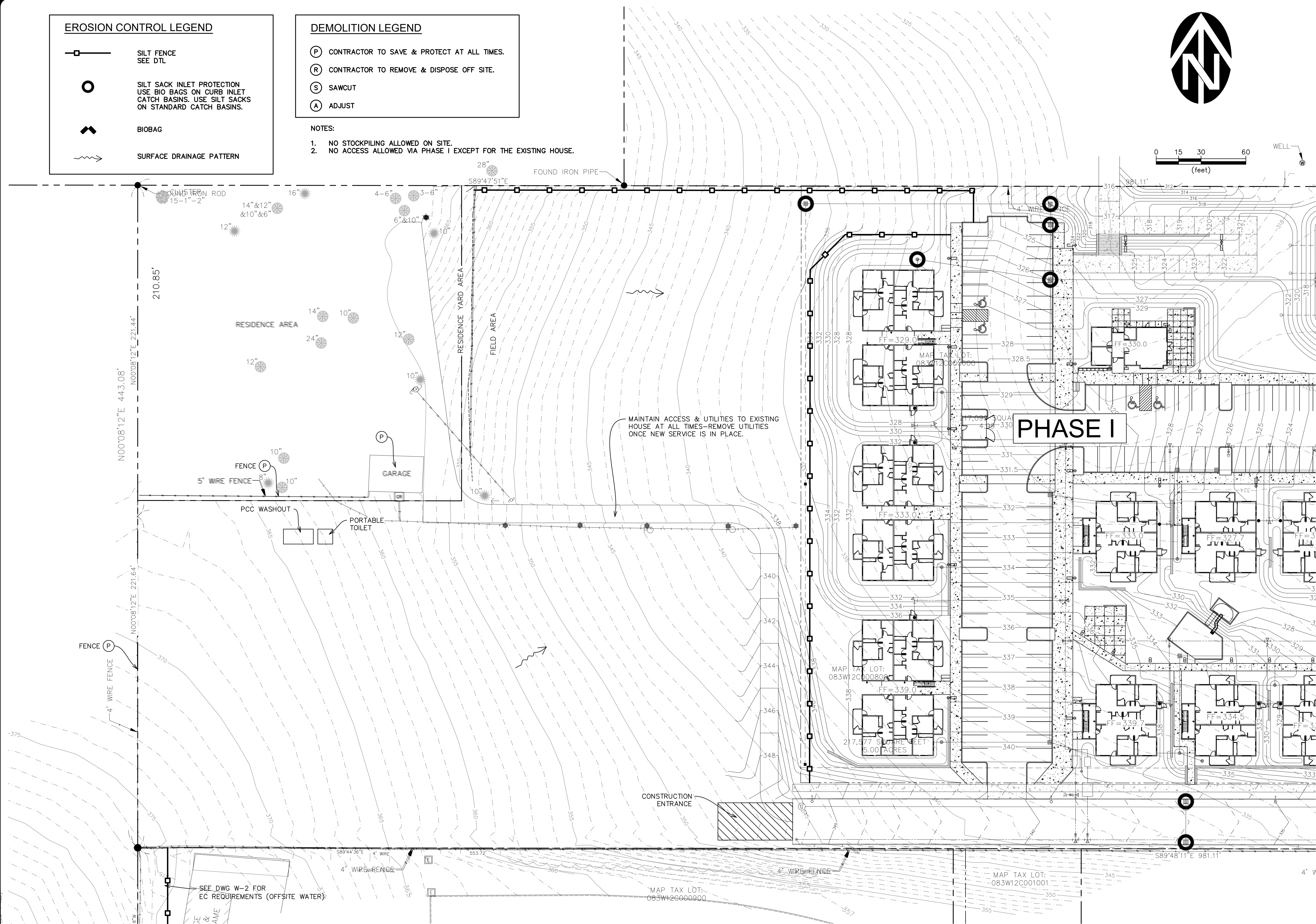
WE

3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585–2474 Fax: (503) 585–3986
E–mail: westech@westech-eng.com

RENEW: 6/30/2026

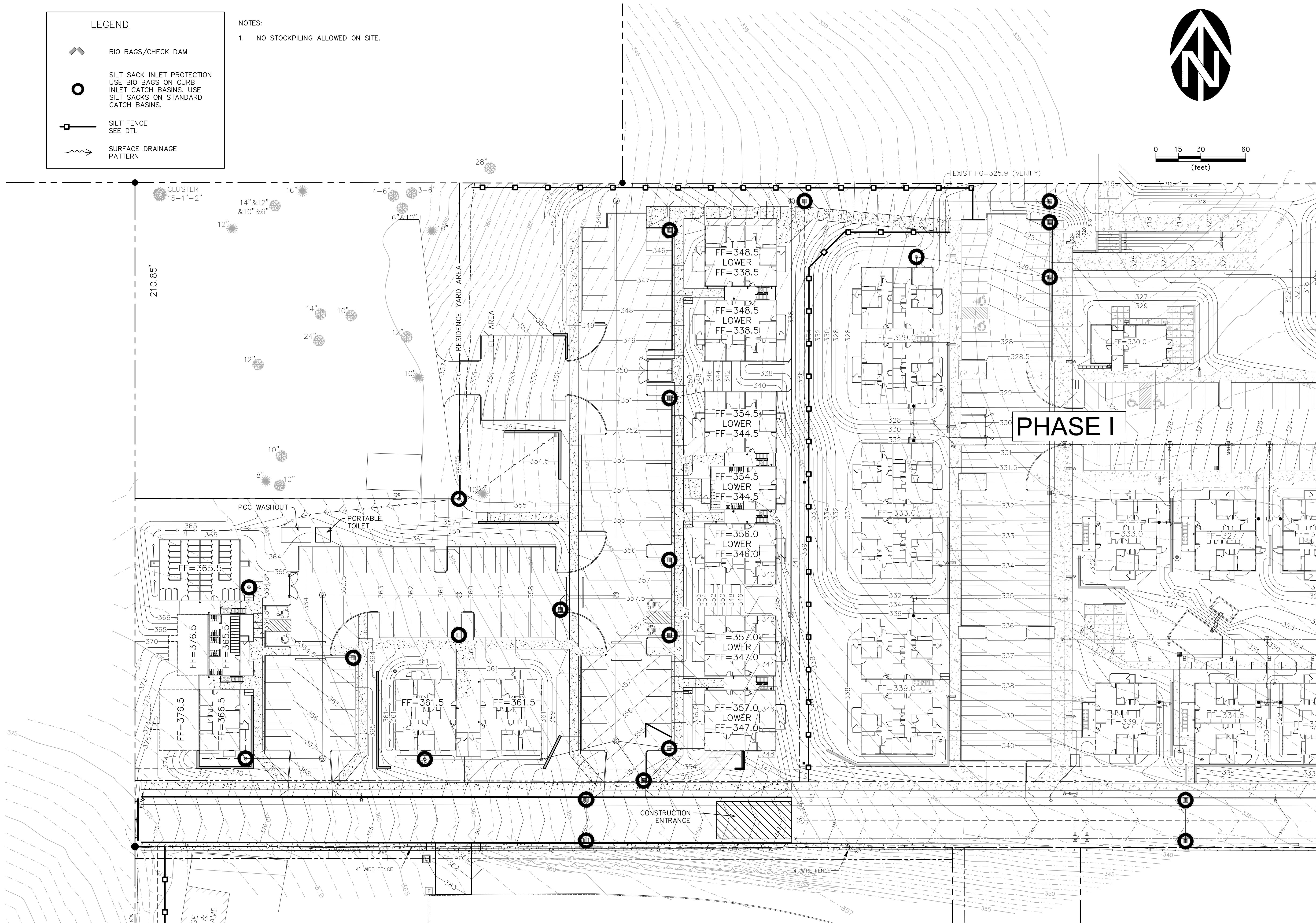
HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II
CONSTRUCTION NOTES

DRAWING
G–4
JOB NUMBER
3352.0000.0



HOME FIRST DEVELOPMENT PARTNERS		DRAWING		BY	
GRAND FIR APARTMENTS PHASE II		EC-1		DATE: APR 2022	
EXISTING CONDITIONS, EROSION CONTROL, & DEMOLITION PLAN		JOB NUMBER		REVISIONS	
3352.0000.0					

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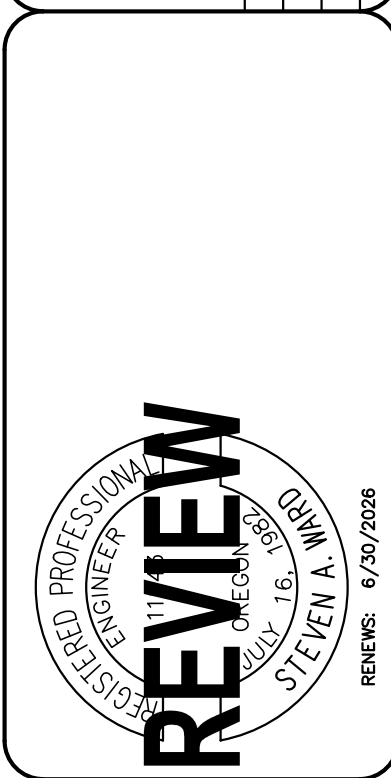
LEGEND

- BIO BAGS/CHECK DAM
- SILT SACK INLET PROTECTION
USE BIO BAGS ON CURB
INLET CATCH BASINS. USE
SILT SACKS ON STANDARD
CATCH BASINS.
- SILT FENCE
SEE DTL
- SURFACE DRAINAGE
PATTERN

NOTES:

- NO STOCKPILING ALLOWED ON SITE.

VERIFY SCALE	DATE	NO.	DATE	DESCRIPTION	BY
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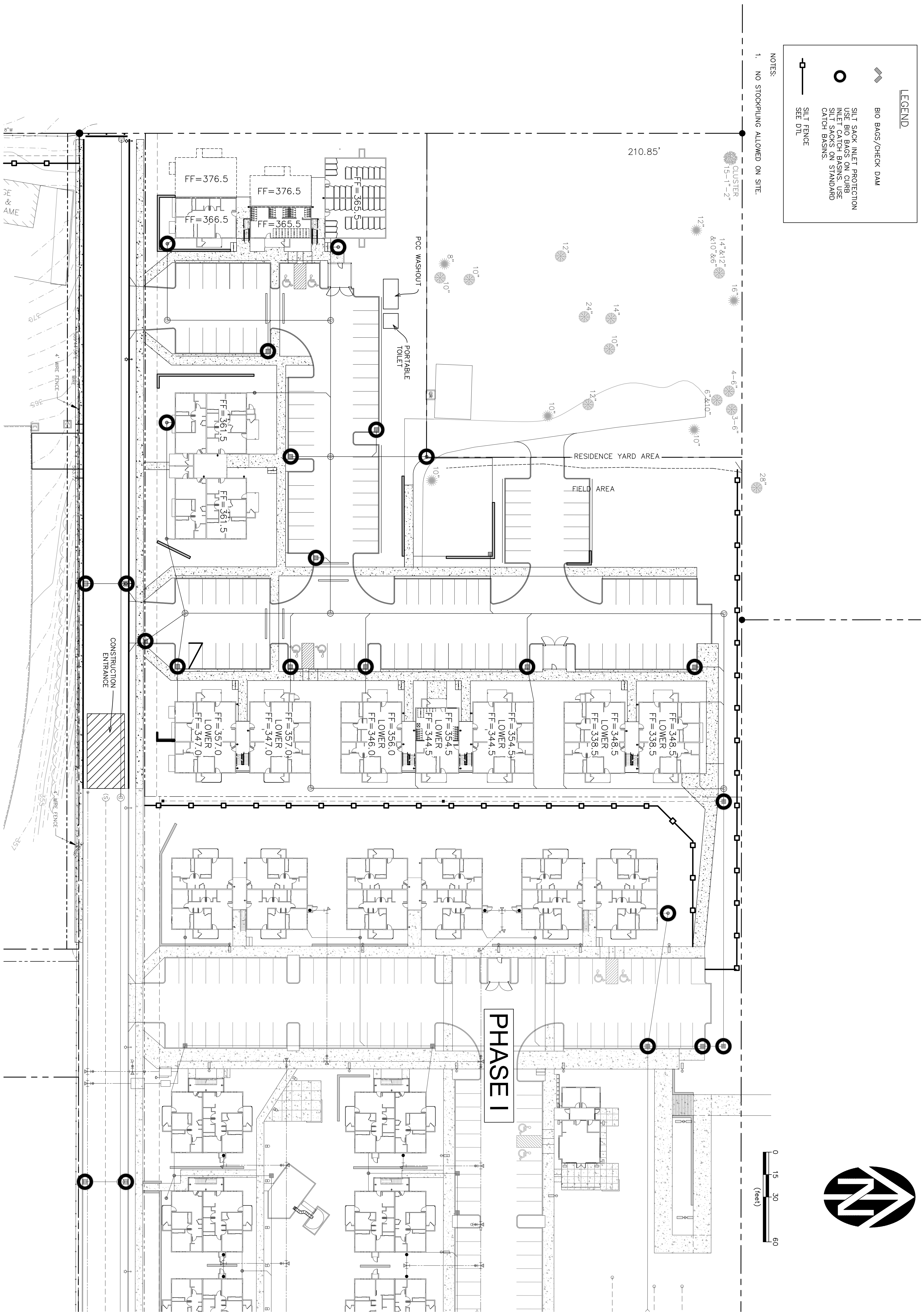
WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS

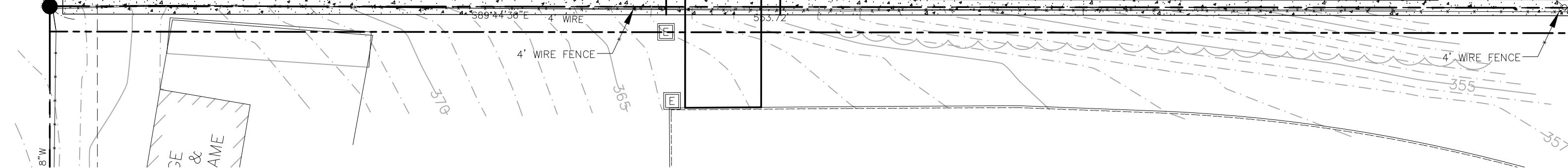
WE

3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

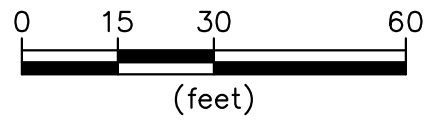
HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II
EROSION CONTROL PLAN -
STREETS & UTILITIES

DRAWING
EC-2
JOB NUMBER
3352.0000.0

[illegible]



	LANDSCAPING
	WQ/DETENTION
	AC/PCC PAVEMENT
	SIDEWALK



PHASE I

HOME FIRST DEVELOPMENT PARTNERS

GRAND FIR APARTMENTS PHASE II
EROSION CONTROL PLAN –
FINAL LANDSCAPE
& STABILIZATION

DRAWING
EC-4

JOB NUMBER
3352.0000.0

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS

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REVIEW

REGISTERED PROFESSIONAL ENGINEER
 NO. 11743
 OREGON
 JULY 16, 1982
 STEVEN A. WARD

RENEWALS: 6/30/2026

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING

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DATE: APR 2022	

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DATE: APR 2022

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DATE: APR 2022

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R:\Dwg\Home First Development Partners\27th Street Apartments Phase II\Civil\Plots\EC-5 EC Notes & Details.dwg, (EC-5 tab)

- Rev. 12/15/20
By: Blair Edwards

CONTROL MEASURE	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5
Silt Fencing	X	X	X	X	
Construction Entrance	X	X			
Sediment Traps			X	X	
Storm Inlet Protection			X	X	
Concrete Washout			X	X	
Rock Outlet Protection			X	X	X
Permanent Seeding and Planting					X
Phase 1: Prior to Ground Disturbance Phase 2: After Completion of Rough Grading Phase 3: After Installation of Storm Facilities Phase 4: After Paving & Construction Phase 5: After Project Completion and Cleanup					

SOIL TYPE(S): PER MARION CO. SOIL SURVEY THE SITE SOILS INCLUDE, "NEKIA SILTY CLAY LOAM 2 TO 7 PERCENT SLOPES, NEKIA SILTY CLAY LOAM 12 TO 20 PERCENT SLOPES, & SILVERTON SILTY CLAY LOAM, 2 TO 12 PERCENT SLOPES."

EROSION HAZARD: PER MARION CO. SOIL SURVEY EROSION HAZARD IS "SLIGHT".

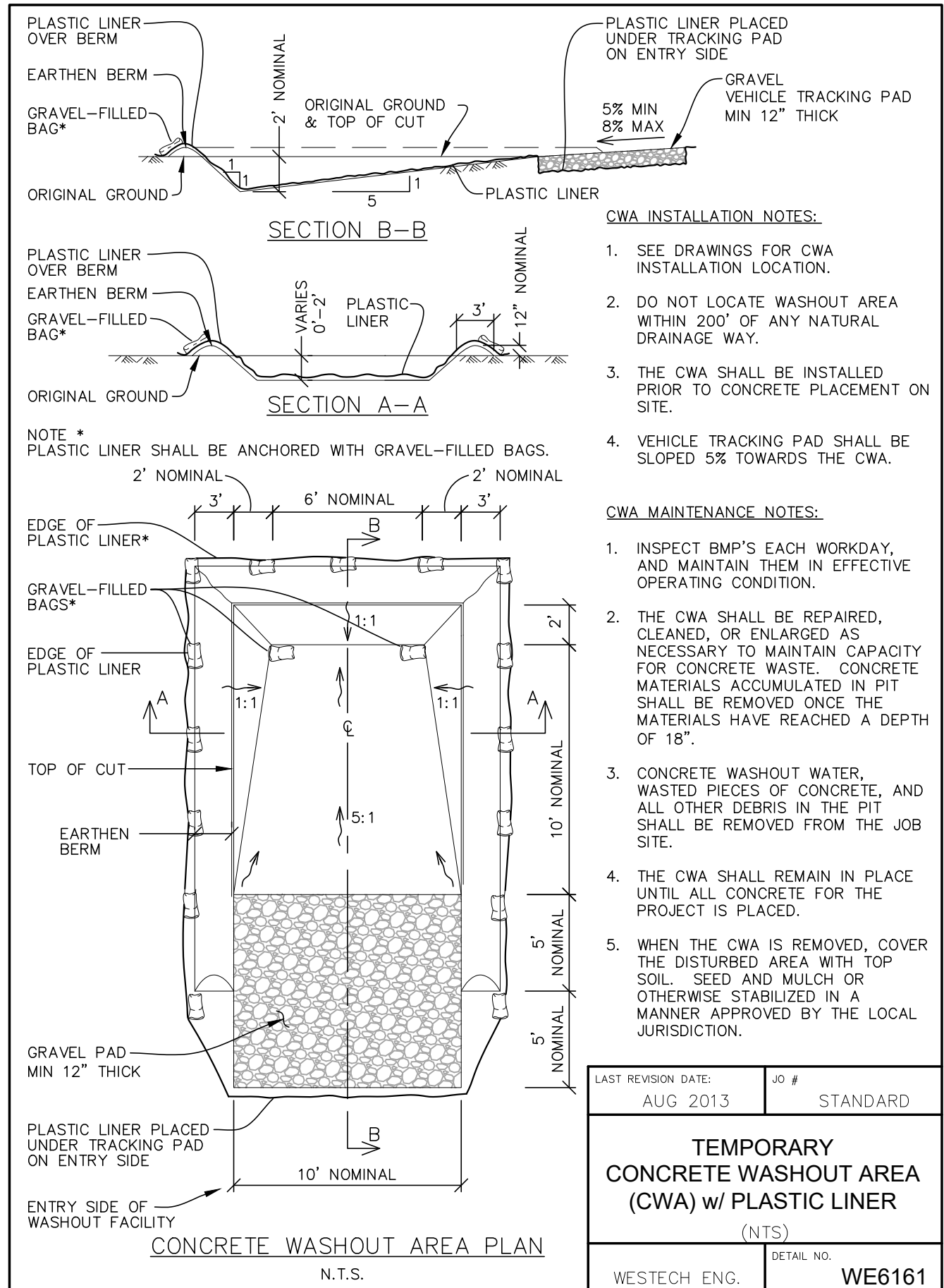
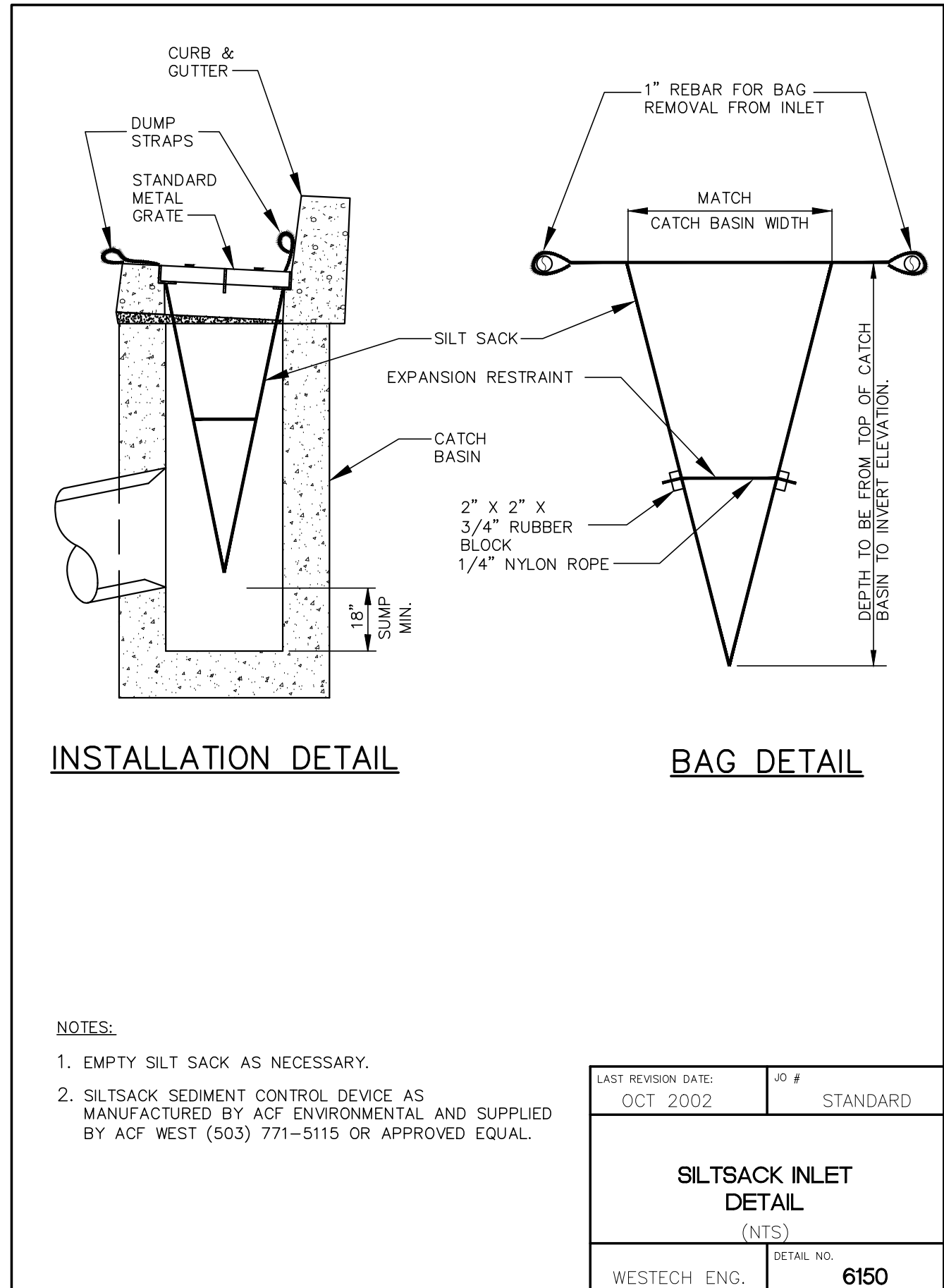
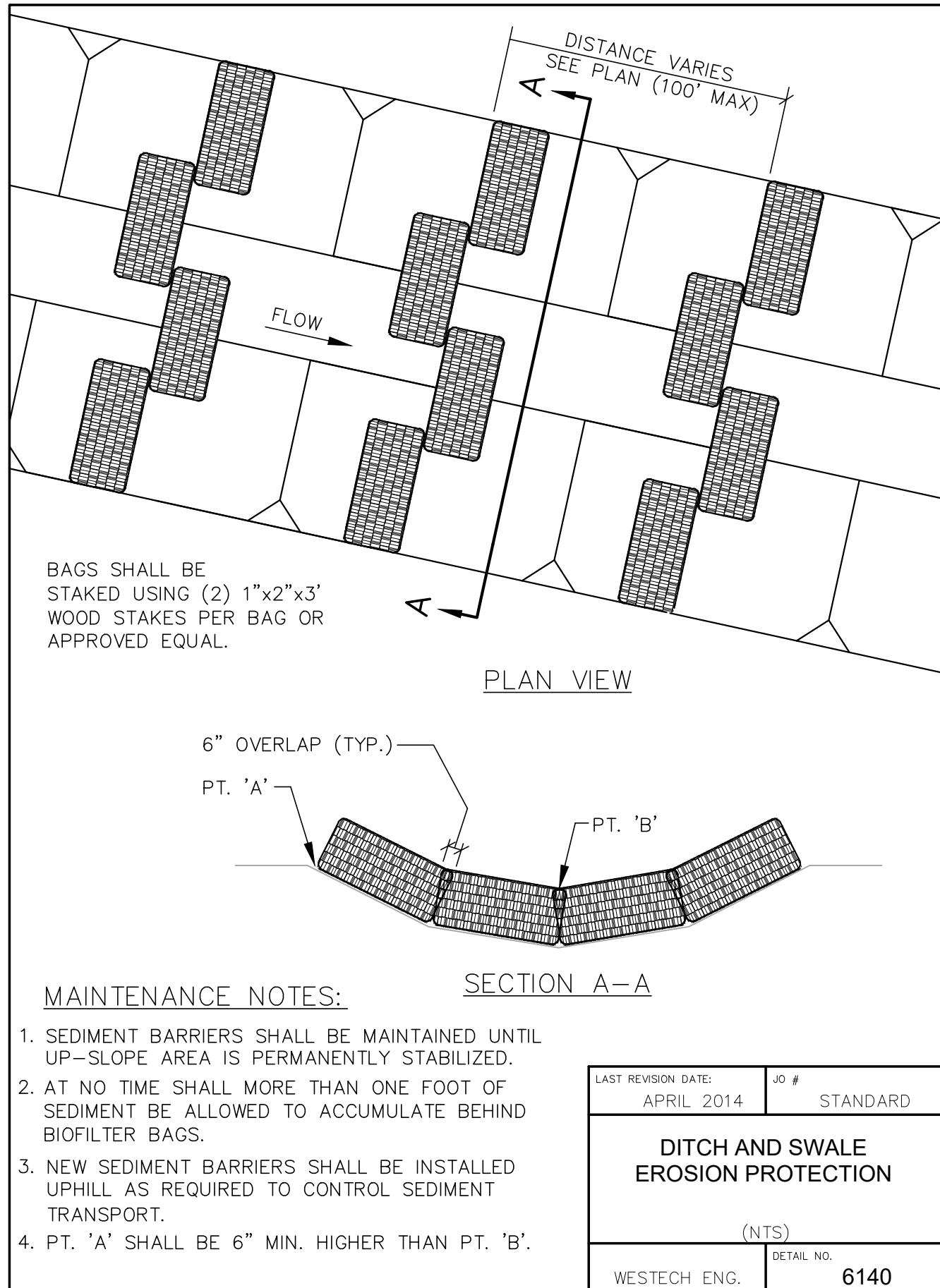
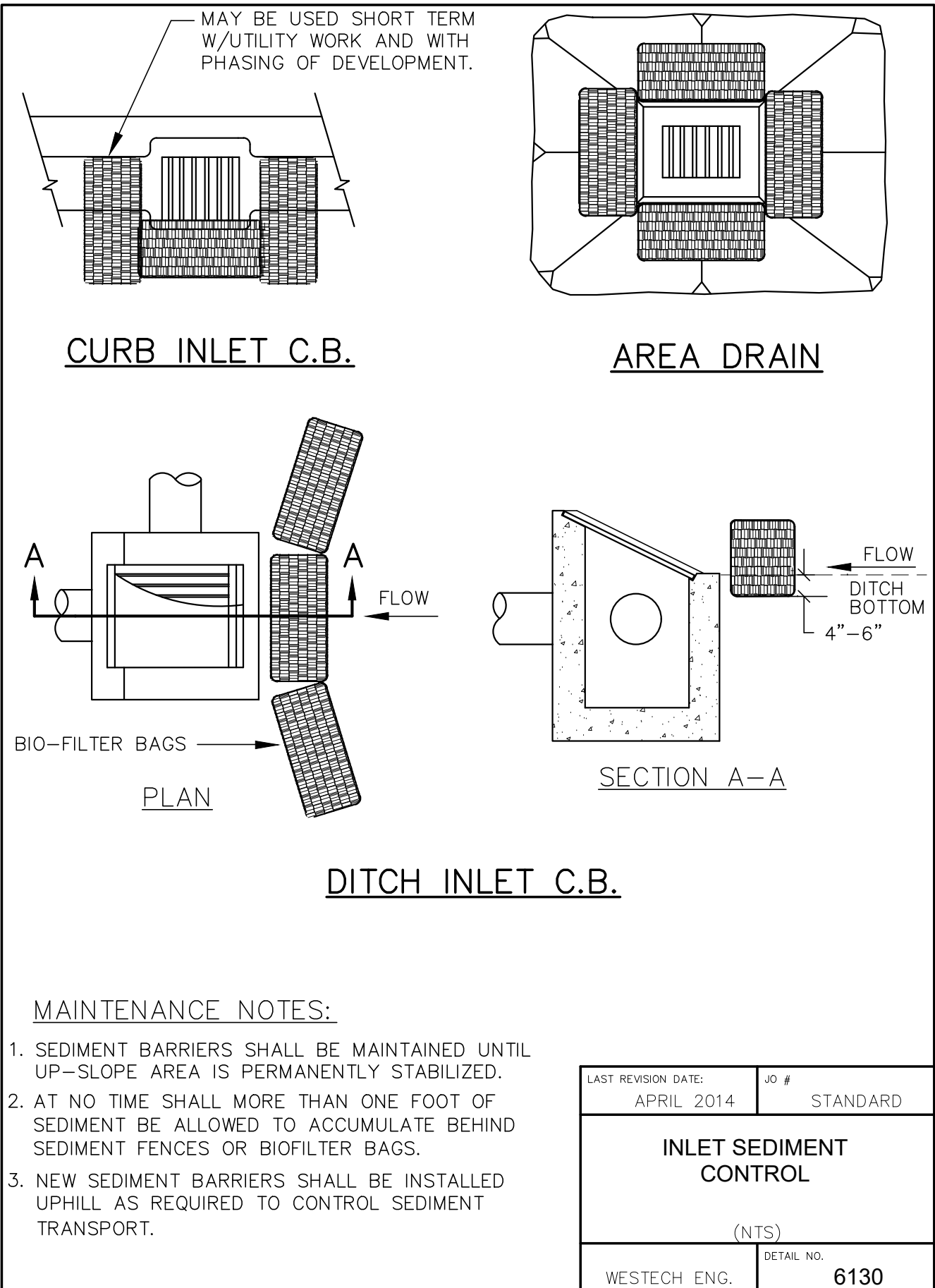
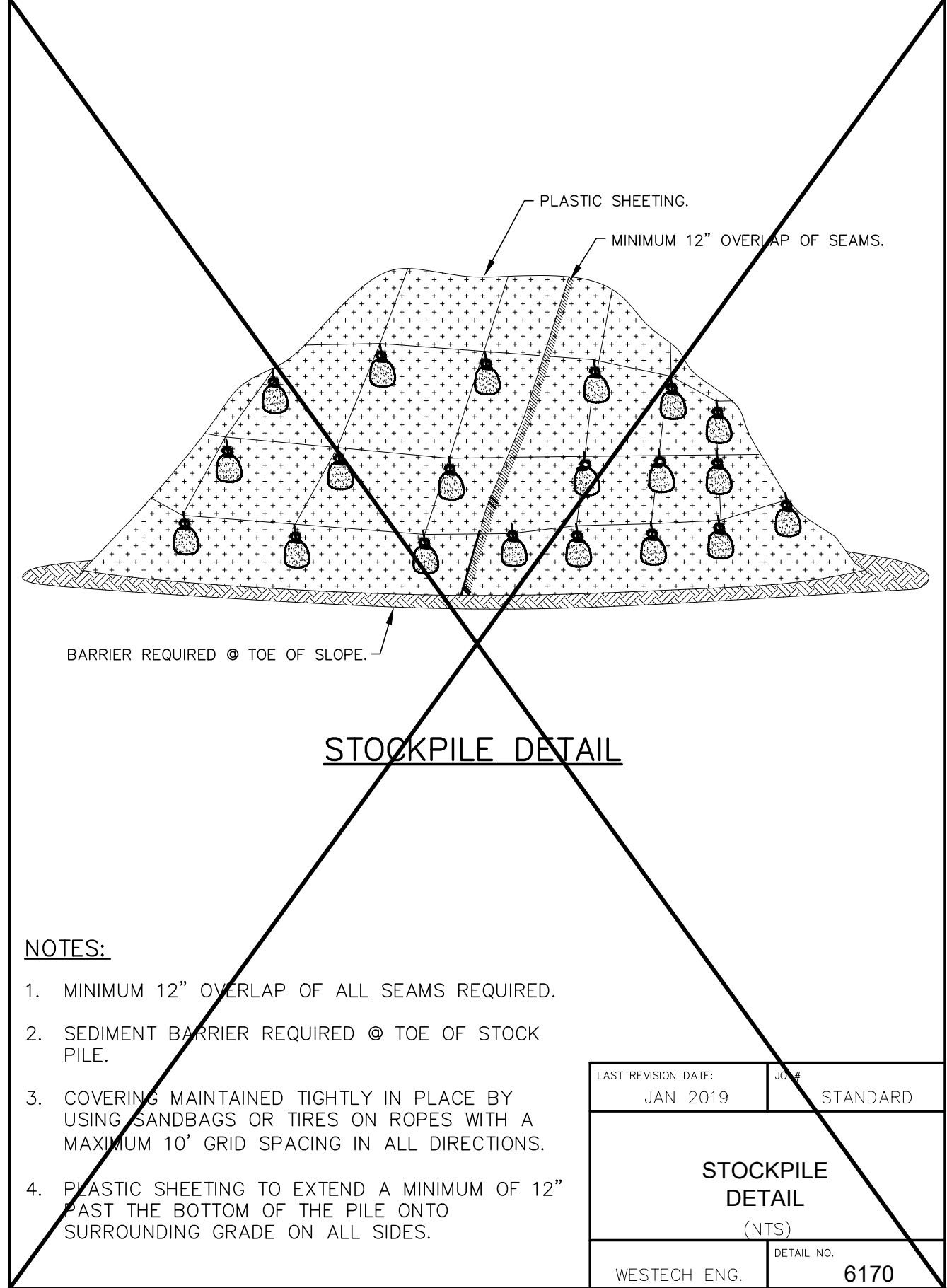
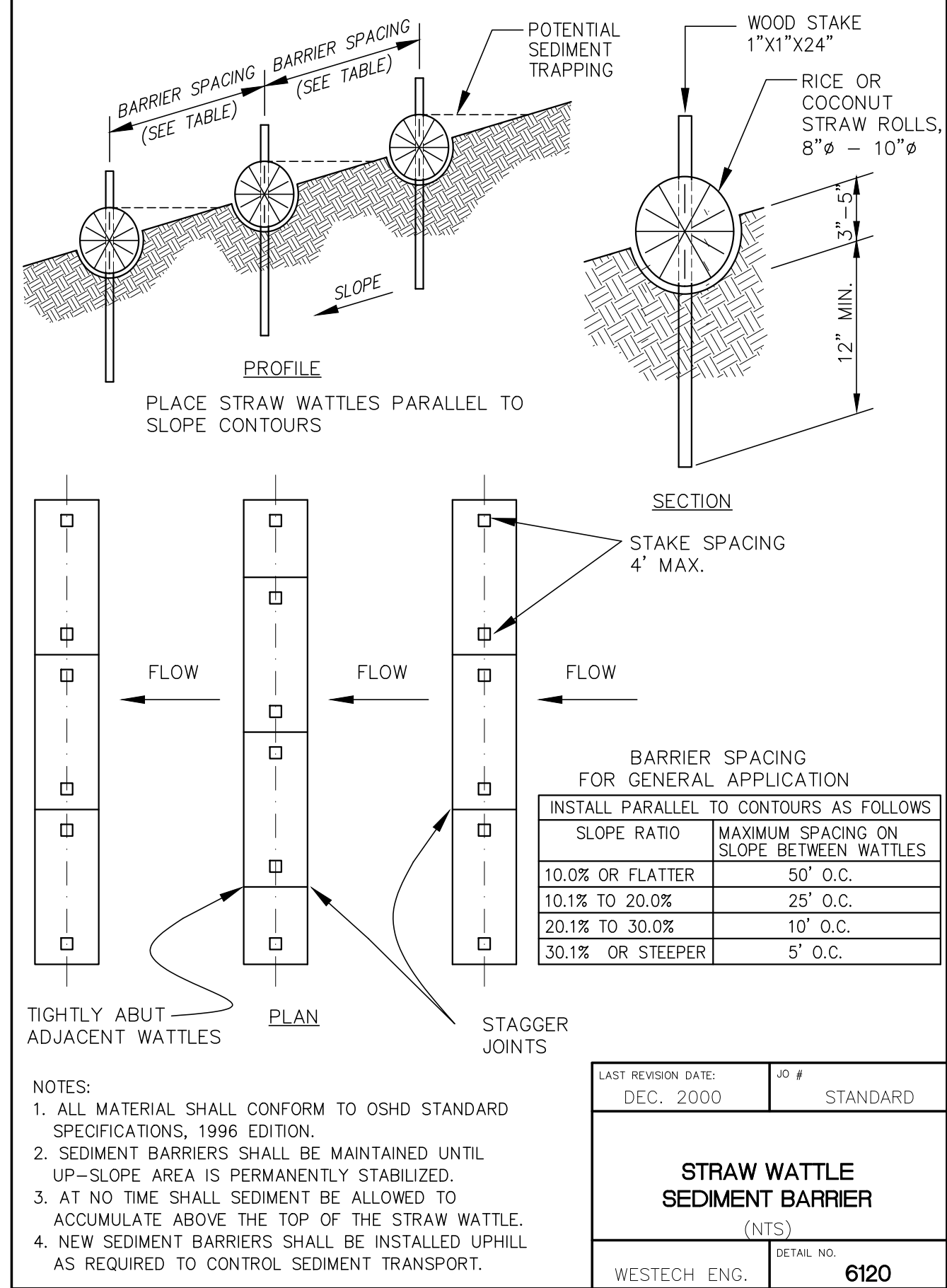
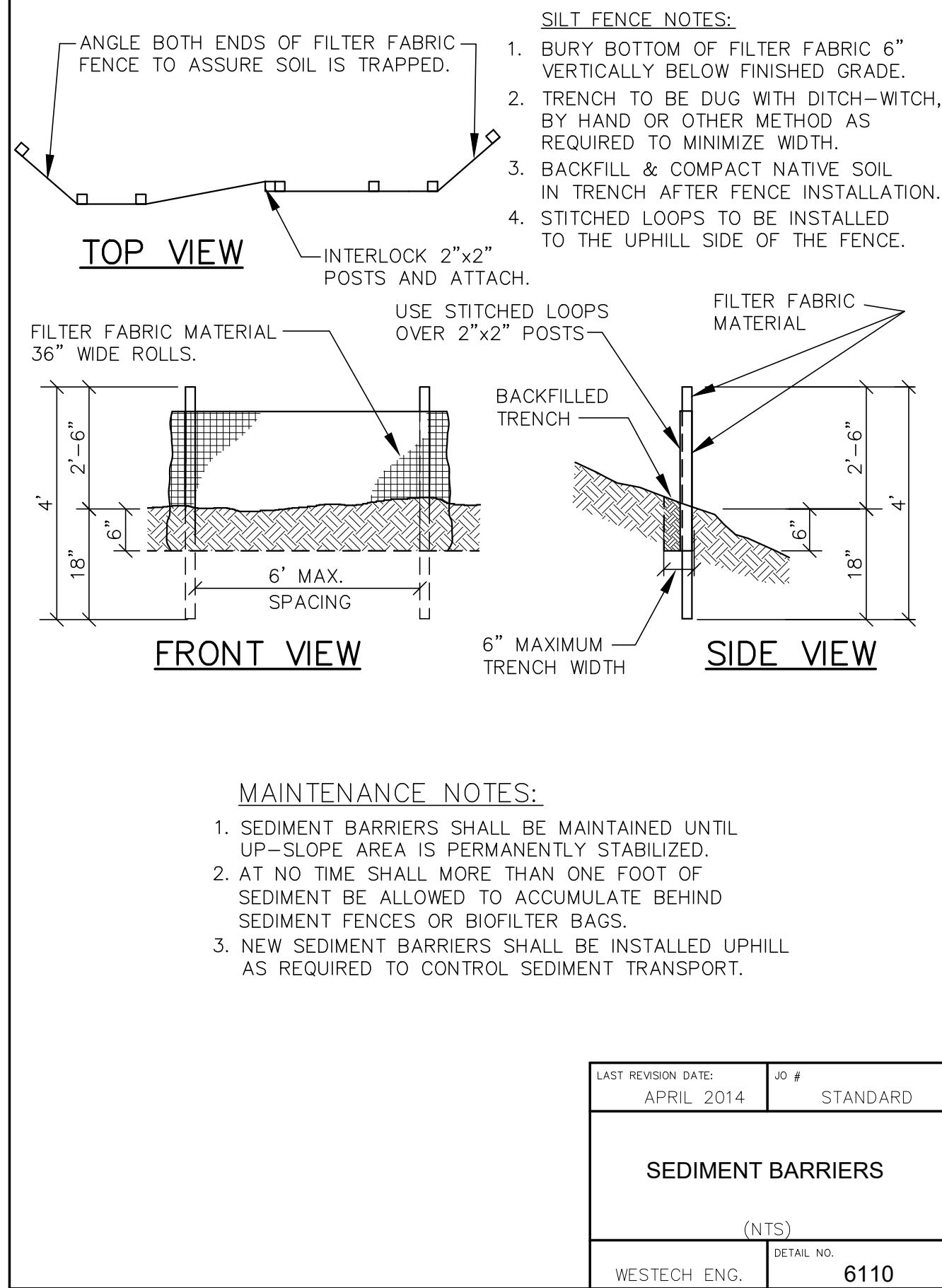
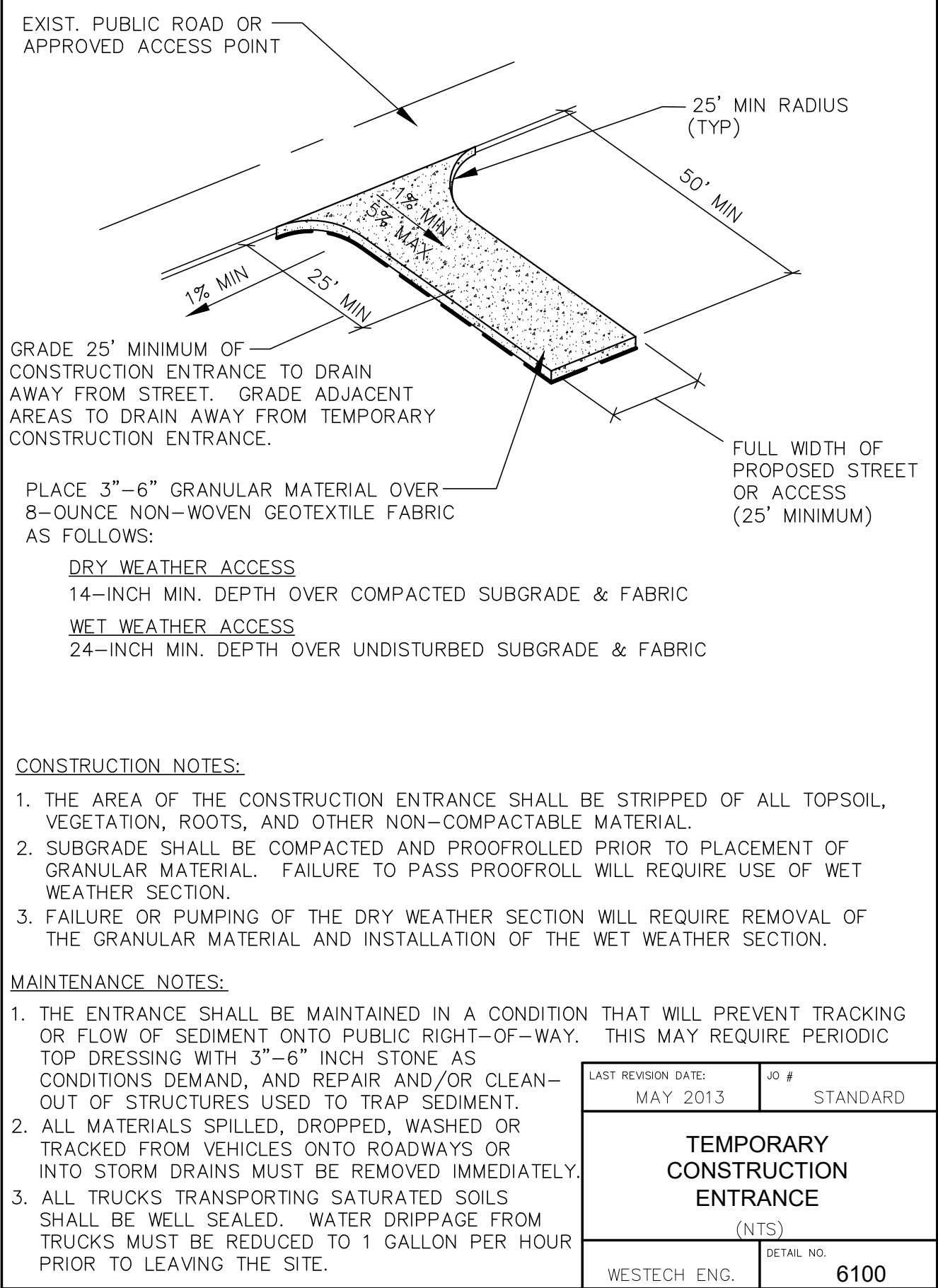
SITE AREA: 3.01 Ac

LOCAL RAIN GAGE: SALEM AIRPORT MCNARY FIELD OR, US
LAT/LONG 44.905,-123.0011

INSPECTION FREQUENCY FOR BMP	
Site Condition	Minimum Frequency
1. Active period	On initial date that land disturbance activities commence. Within 24 hours of any storm event, including runoff from snow melt, that results in discharge from the site. At least once every 14 days, regardless of whether stormwater runoff is occurring.
2. Inactive periods greater than fourteen (14) consecutive calendar days	The Inspector may reduce the frequency of inspections in any area of the site where the stabilization steps in Section 2.2.20 have been completed to twice per month for the first month, no less than 14 calendar days apart, then once per month.
3. Periods during which the site is inaccessible due to inclement weather	If safe, accessible and practical, inspections must occur daily at a relevant discharge point or downstream location of the receiving waterbody.
4. Periods during which construction activities are suspended and runoff is unlikely due to frozen conditions.	Visual monitoring inspections may be temporarily suspended. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.
5. Periods during which construction activities are conducted and runoff is unlikely during frozen conditions.	Visual monitoring inspections may be reduced to once a month. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.

1. PRIOR TO CONTRACT AWARD, INSPECTOR TO BE DANIEL THOMPSON AT WESTECH ENGINEERING, INC. (503-585-2474), ID# ECO-3-5342007, EXPIRES MAY 24, 2023.
2. AFTER CONTRACT AWARD AND PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ACQUIRE THE SERVICES OF A CERTIFIED EROSION CONTROL INSPECTOR MEETING DEQ REQUIREMENTS UNDER THE 1200-C PERMIT AND NOTIFY DEQ OF THE CERTIFIED EROSION CONTROL INSPECTOR.

HOME FIRST DEVELOPMENT PARTNERS		DRAWING		3352.0000.0	
GRAND FIR APARTMENTS PHASE II		EC-5		JOB NUMBER	
EROSION CONTROL NOTES & DETAILS					
 WESTECH ENGINEERING, INC. CONSULTING ENGINEERS AND PLANNERS 3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302 Phone: (503) 585-2474 Fax: (503) 585-3986 E-mail: westech@westech-eng.com		 REVIEW REVIEWED: 6/20/2026		VERIFY SCALE BAR 1 IS ONE INCH ON ORIGINAL DRAWING 0 1" LAST DATE WHEN THIS SHEET WAS RECALCULATED RECALCULATED SCALES ACCORDINGLY DSN. SAW DRN. AR CKD. SAW NO. 1 DATE DESCRIPTION REVISIONS BY	



VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON SCALES ACCORDINGLY	DSN. SAW DRN. AR CKD. SAW	NO. 1	DATE	DESCRIPTION	REVISIONS	BY
DATE: APR. 2022						

PROFESSIONAL ENGINEER
REGISTERED
WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS
3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

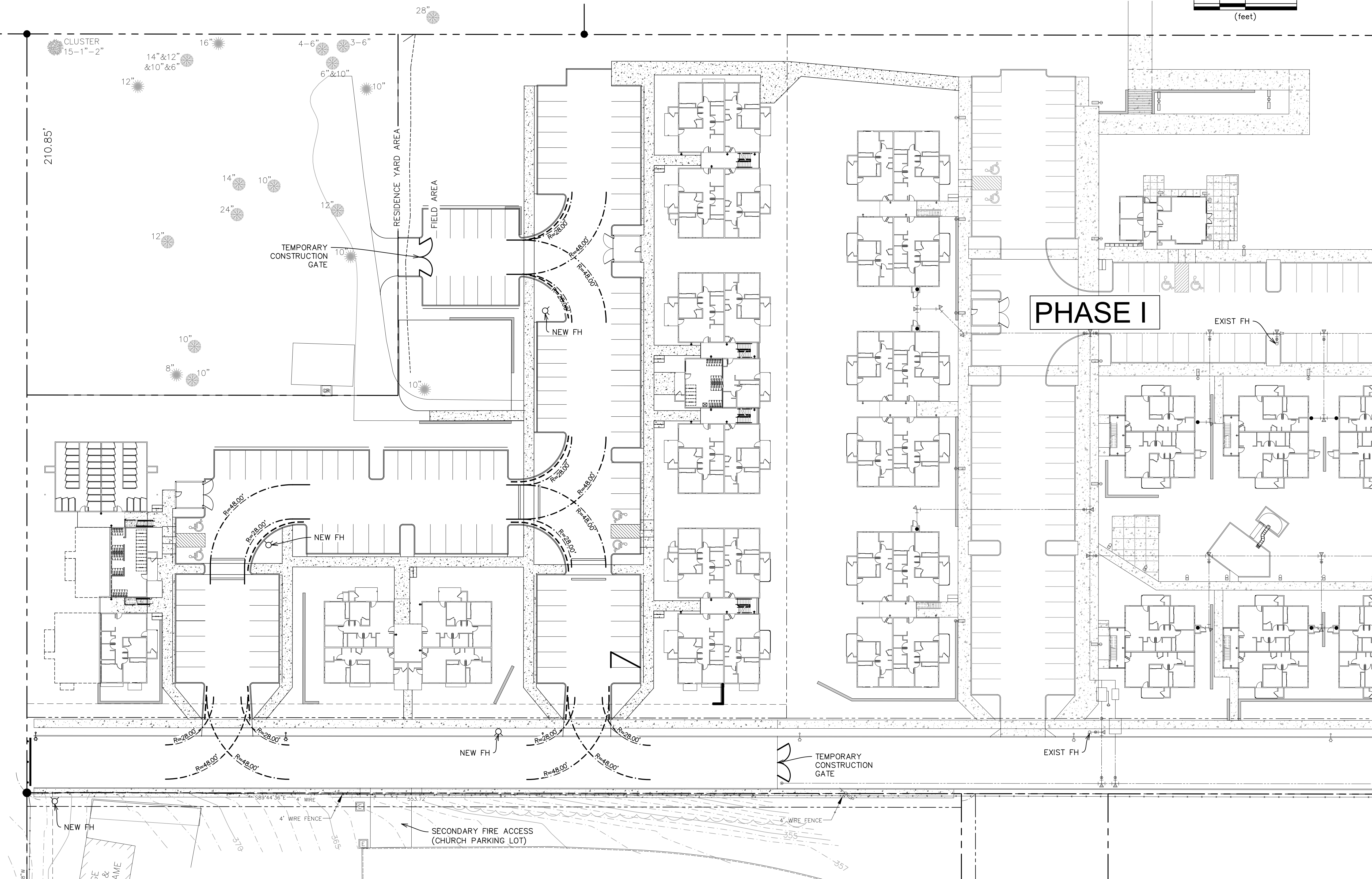
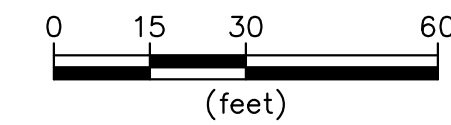
HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II
EROSION CONTROL
NOTES & DETAILS

DRAWING
EC-7
JOB NUMBER
3352.0000.0

BY

1. EXISTING HOUSE LIGHT VEHICLE ACCESS VIA PCC WALKWAY (NORTH SIDE OF PHASE I) UNTIL PHASE II IS COMPLETED.
2. EXISTING HOUSE EMERGENCY ACCESS VIA PHASE II PARKING LOT .CONTRACTOR TO MAINTAIN CLEAR EMERGENCY VEHICLE ACCESS AT ALL TIMES.

 ACCESSIBLE ROUTE



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R:\Owg\Home First Development Partners\27th Street Apartments Phase II\Civil\Plots\C-4 Fire Access.dwg, (C-4 tab)

HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II
BUILDING ADDRESS,
FIRE & ADA
ACCESSIBLE ROUTES

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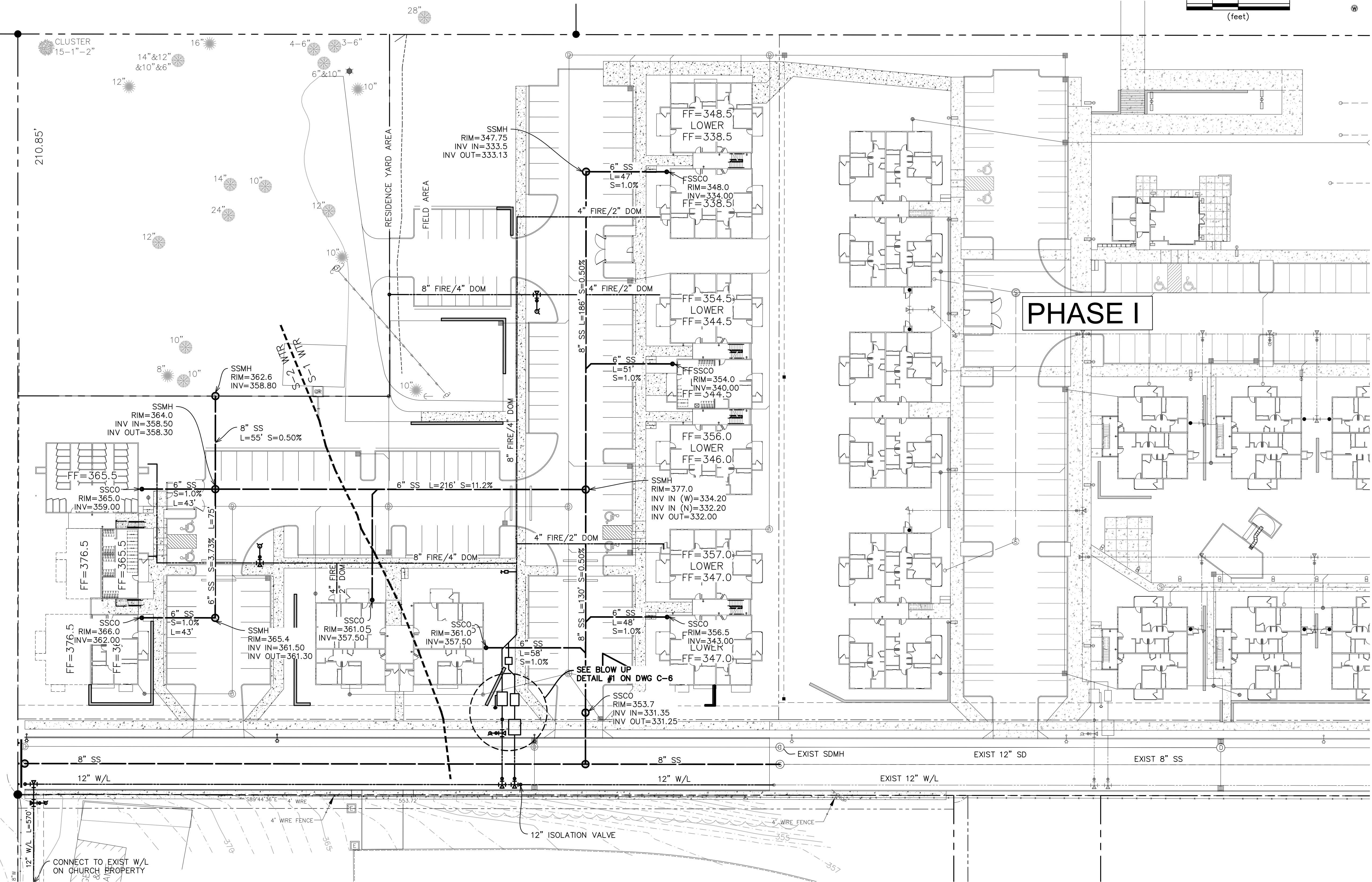
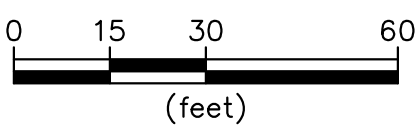
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CONSULTING ENGINEERS AND PLANNERS

18841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-2474 Fax: (503) 585-3966
E-mail: westech@westech-eng.com



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HOME FIRST DEVELOPMENT PARTNERS

GRAND FIR APARTMENTS PHASE II

GRAND FIR APARTMENTS PHASE II

OVERALL UTILITY PLAN

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REVIEW

REVISIONS: 6/30/2026

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DATE: APR 2022	



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REGISTERED PROFESSIONAL ENGINEER
STATE OF OREGON
JULY 16, 1988
STEVEN A. WARD

RENEWED: 6/30/2026

REVIEW

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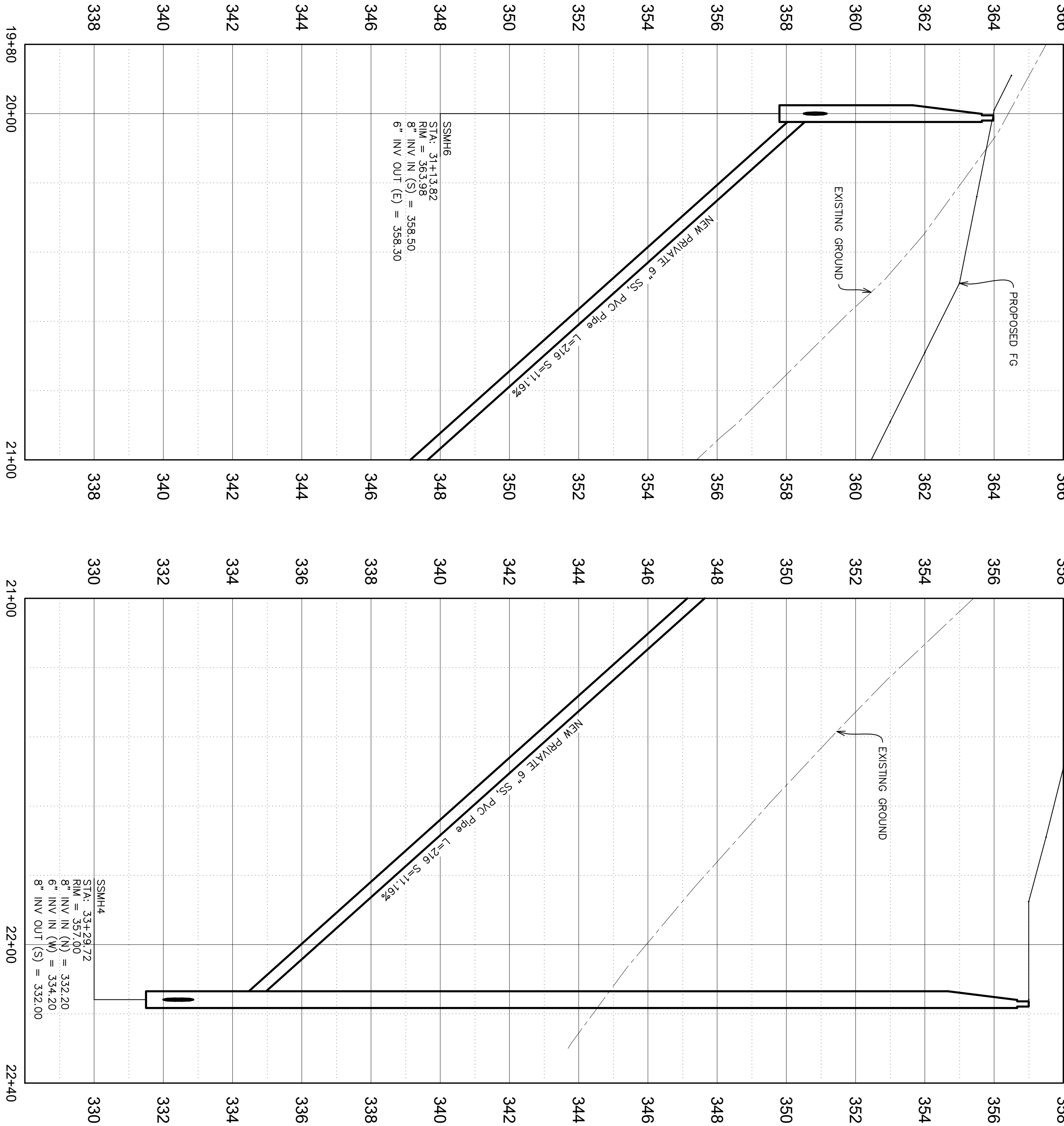
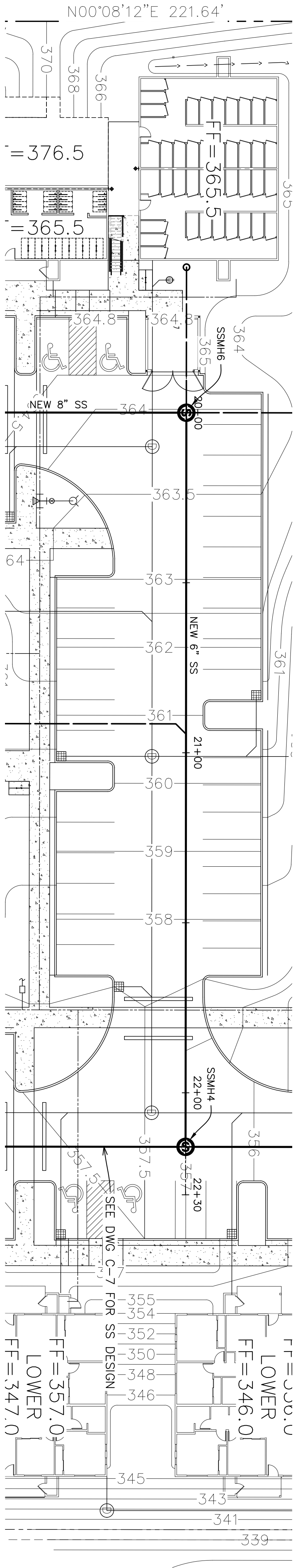
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HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II

WATER BLOWUP DETAILS



MARIETTA SEWER PROFILE

1" = 20' H, 1" = 2' V

HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II
PRIVATE
SANITARY SEWER
PLAN-PROFILE
STA 19+80 TO STA 22+40

WE
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REGISTERED PROFESSIONAL ENGINEER
JULY 16, 1988
STEVEN A. WARD
RENEWS: 6/30/2026

REVIEW

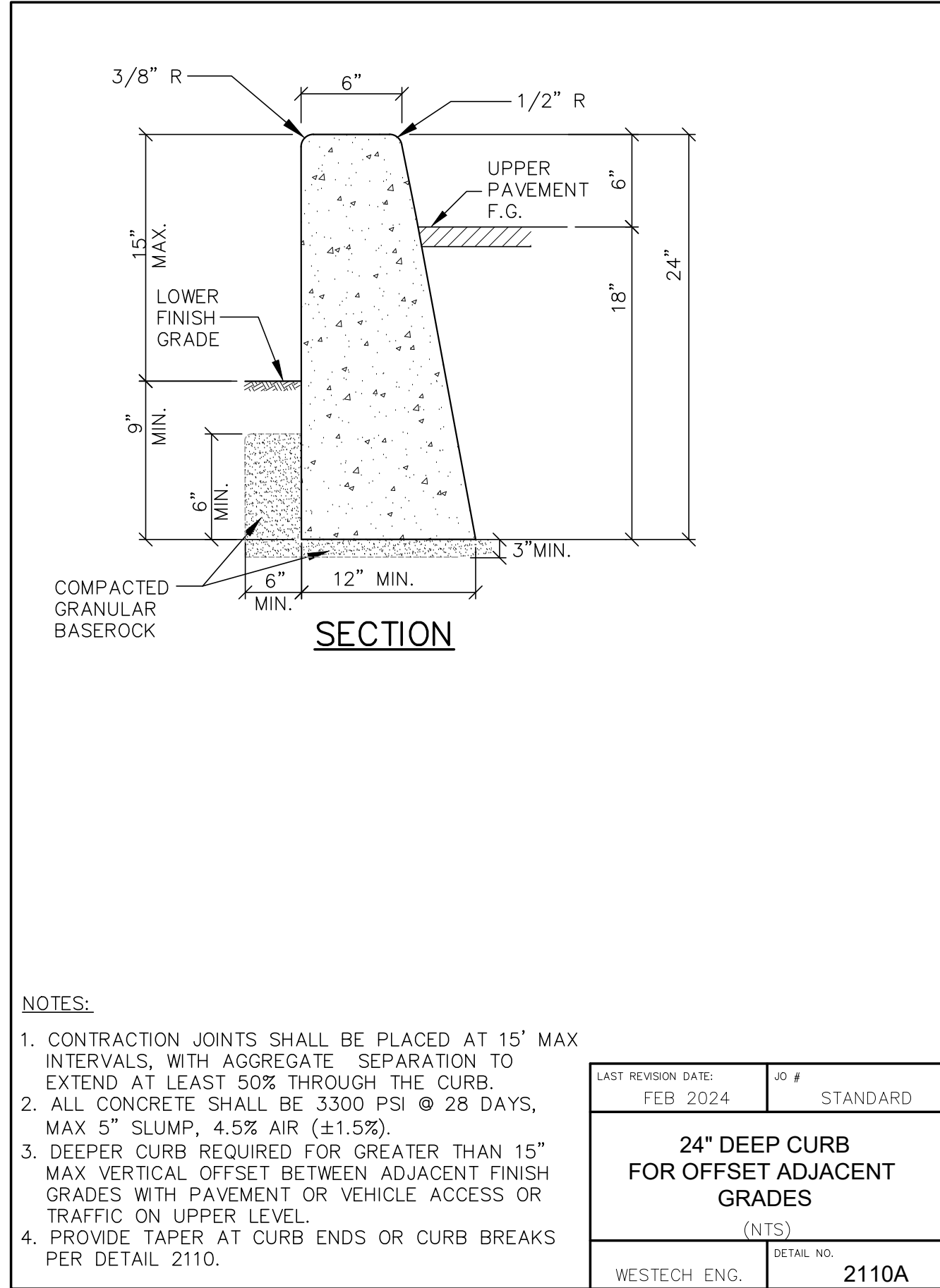
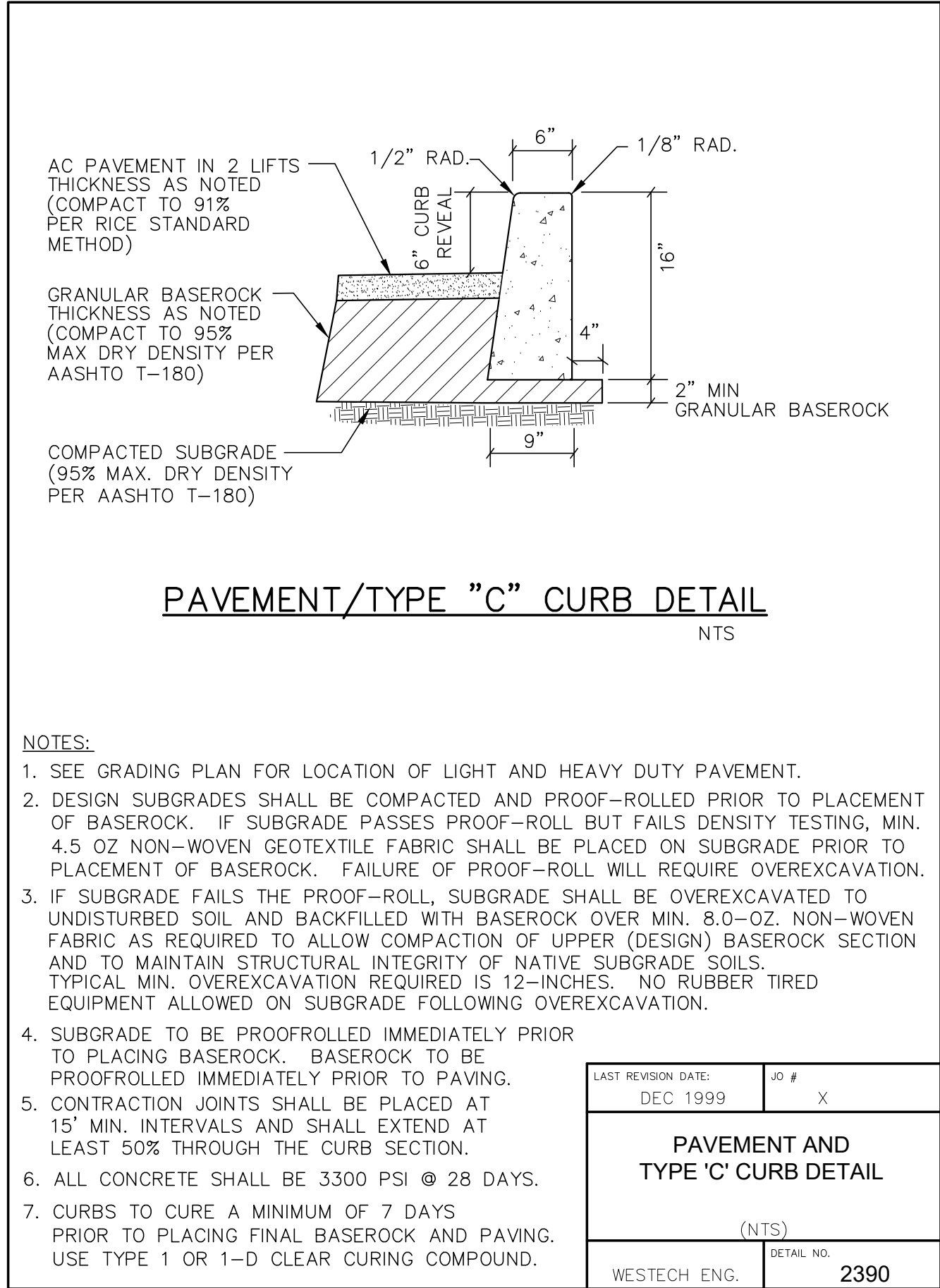
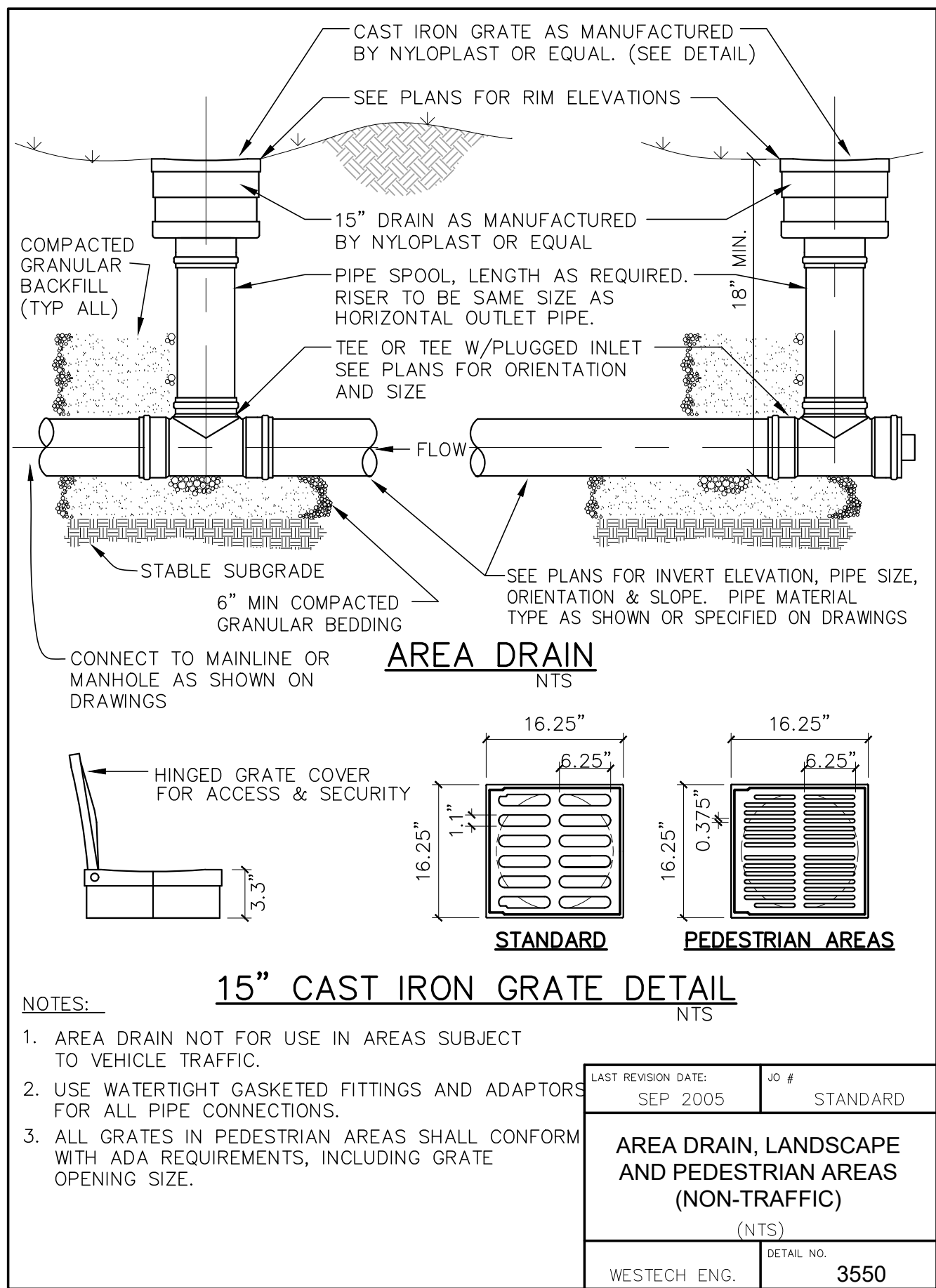
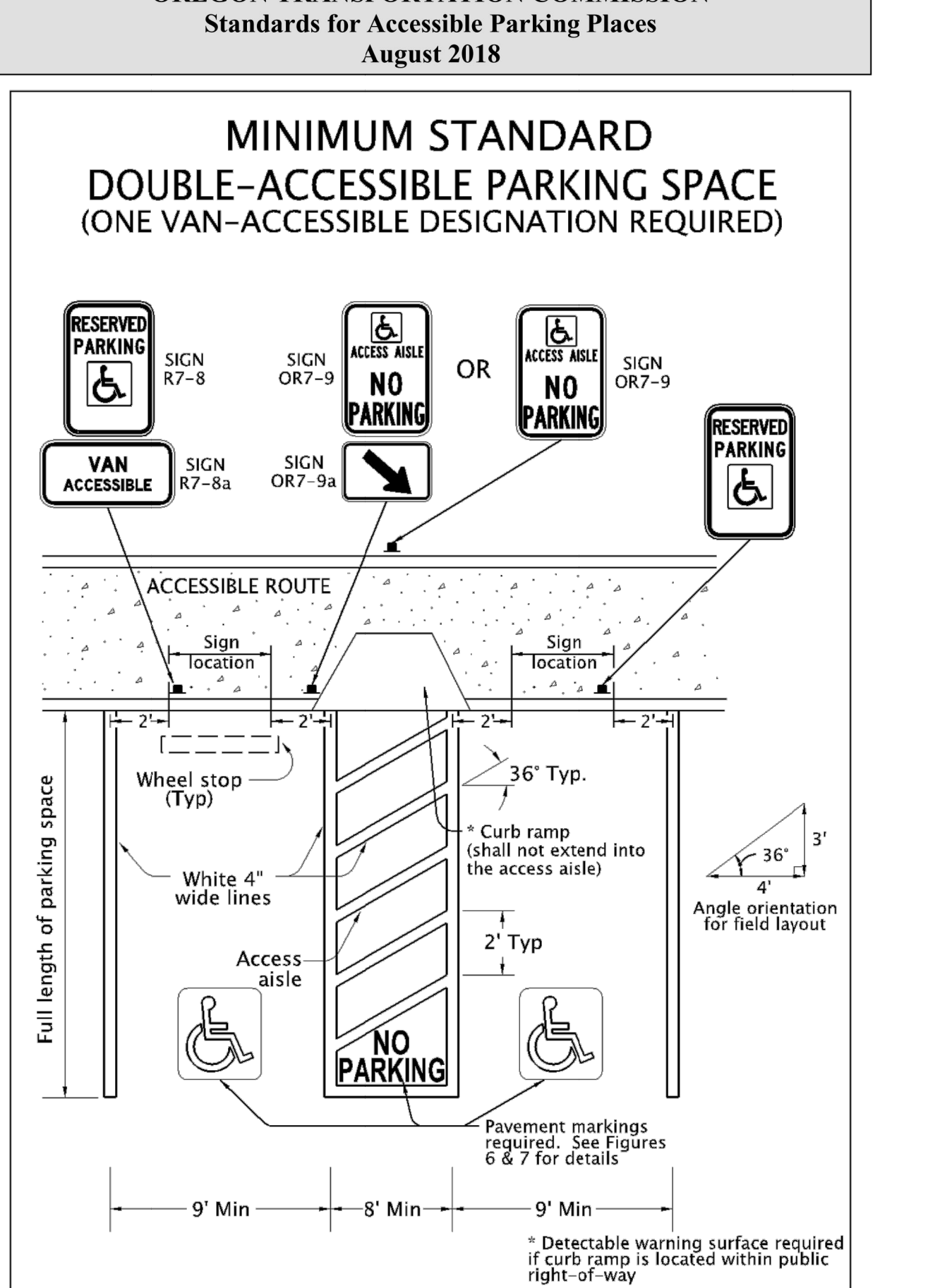
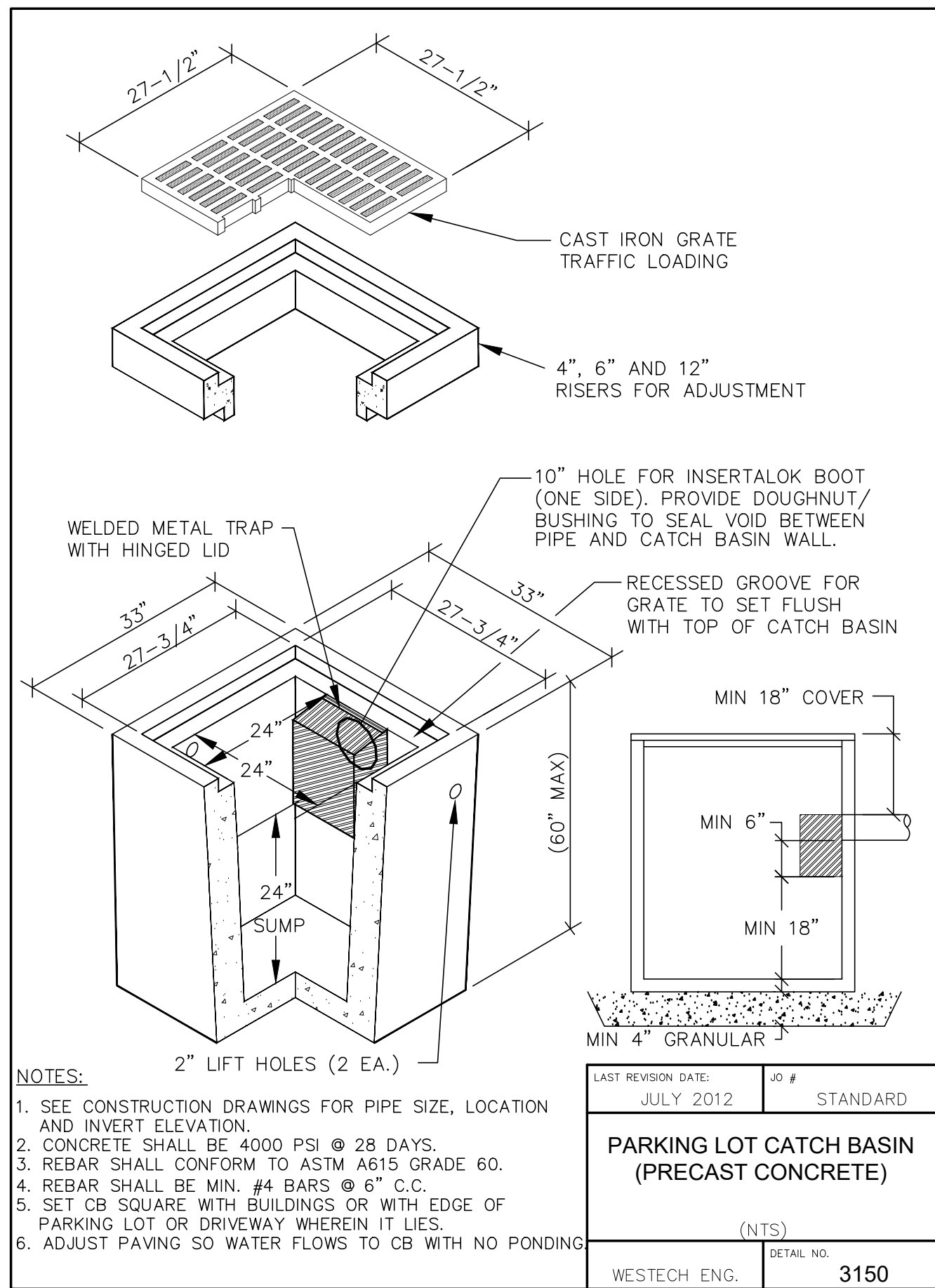
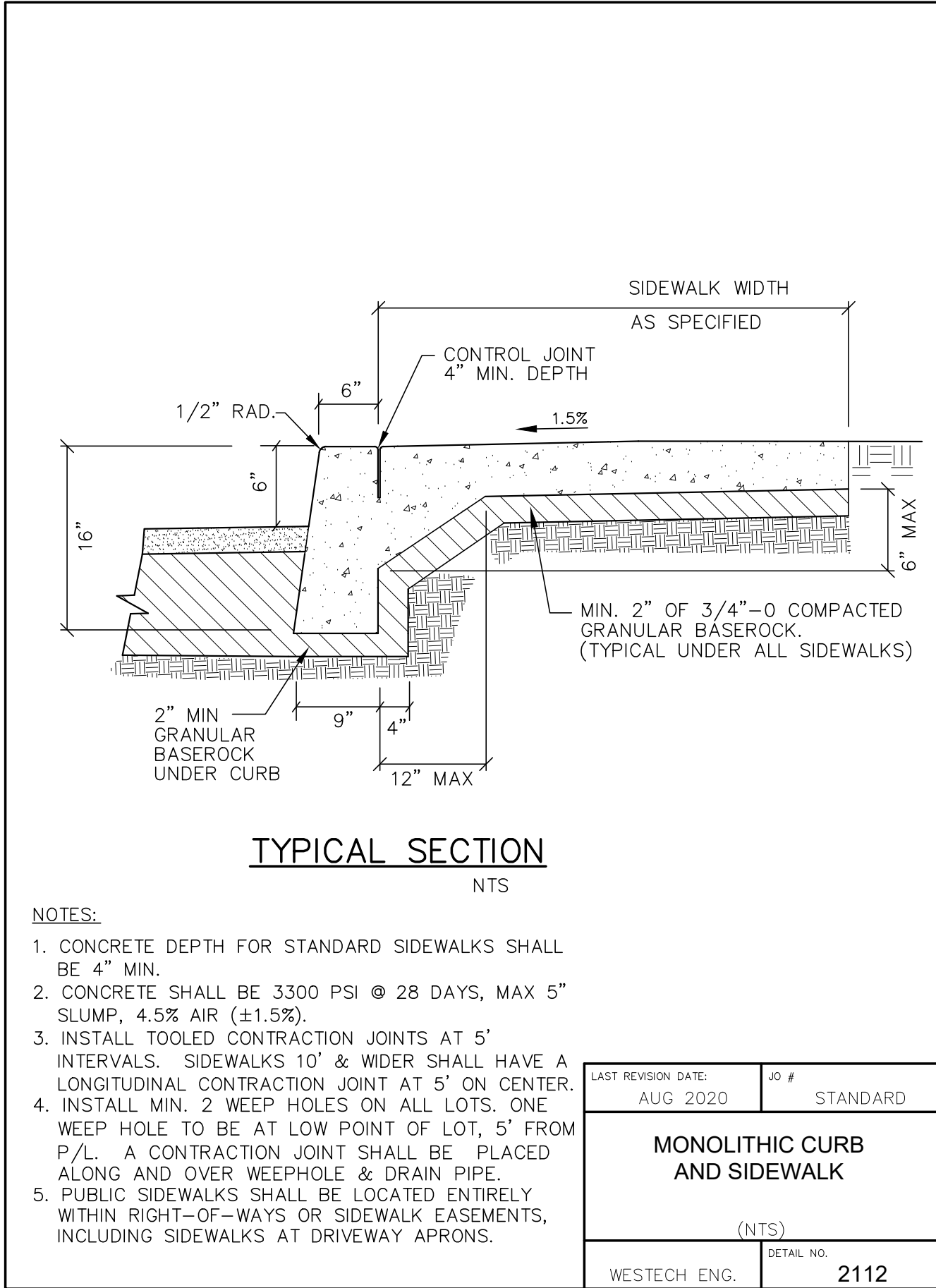
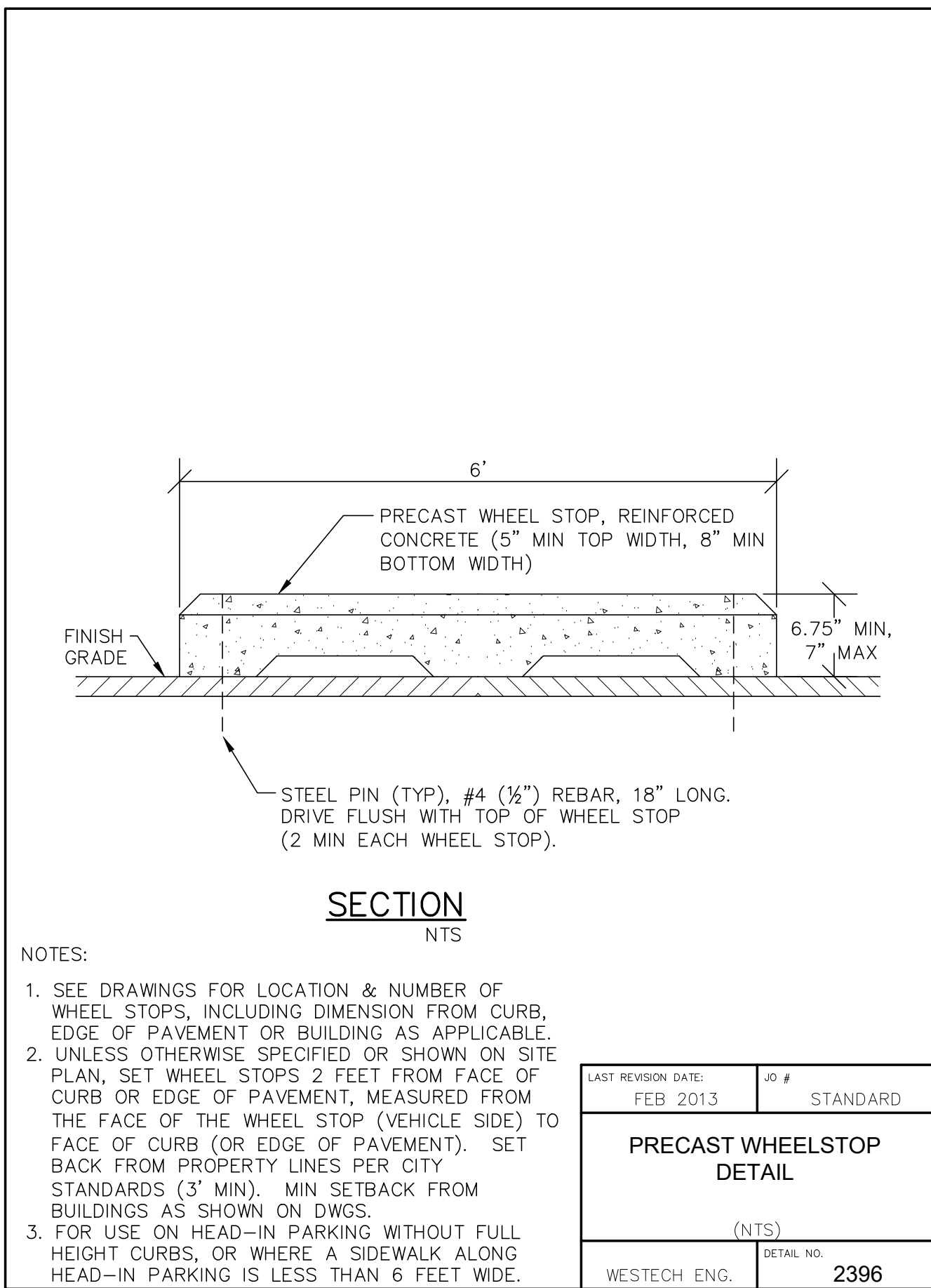
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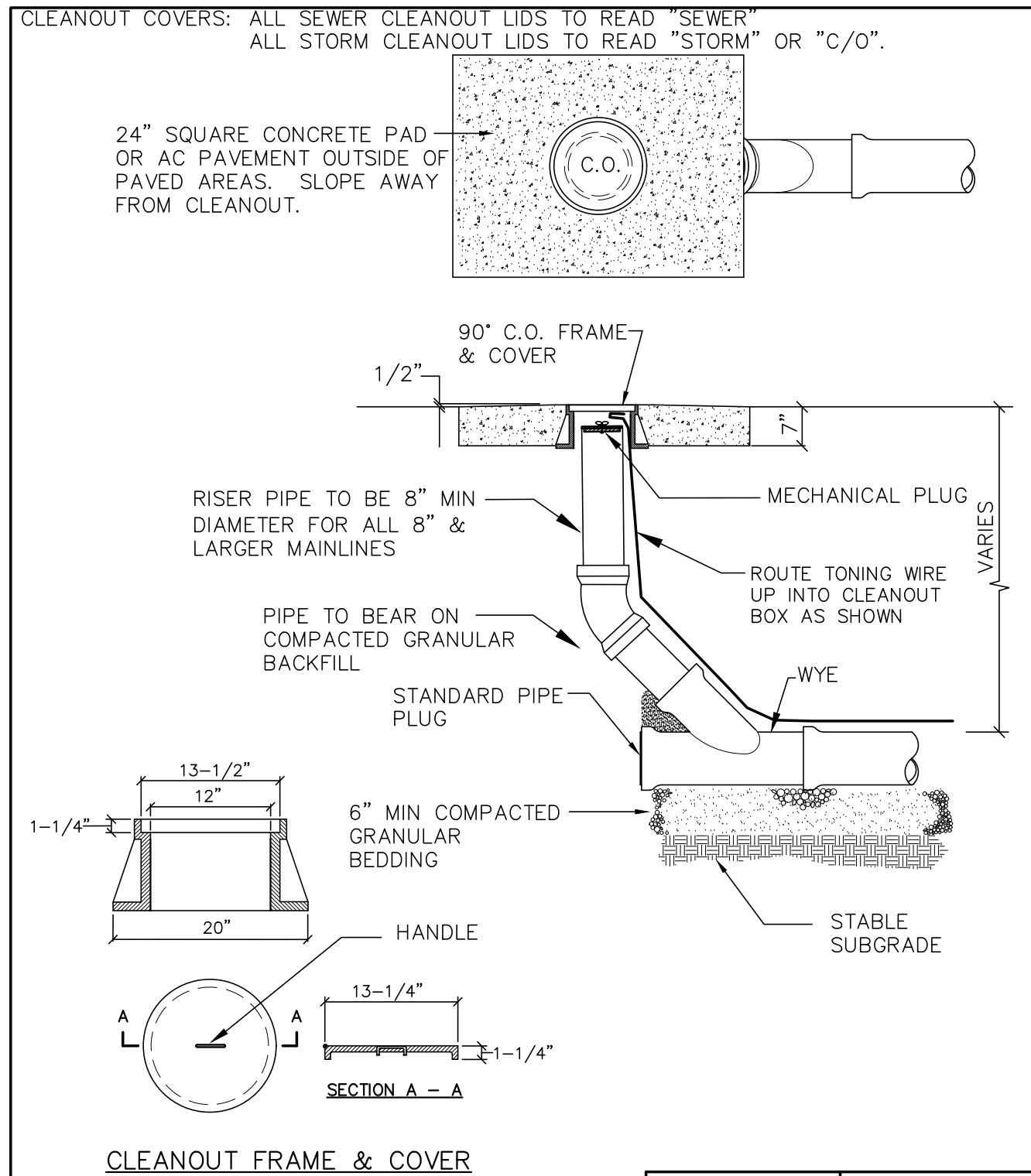
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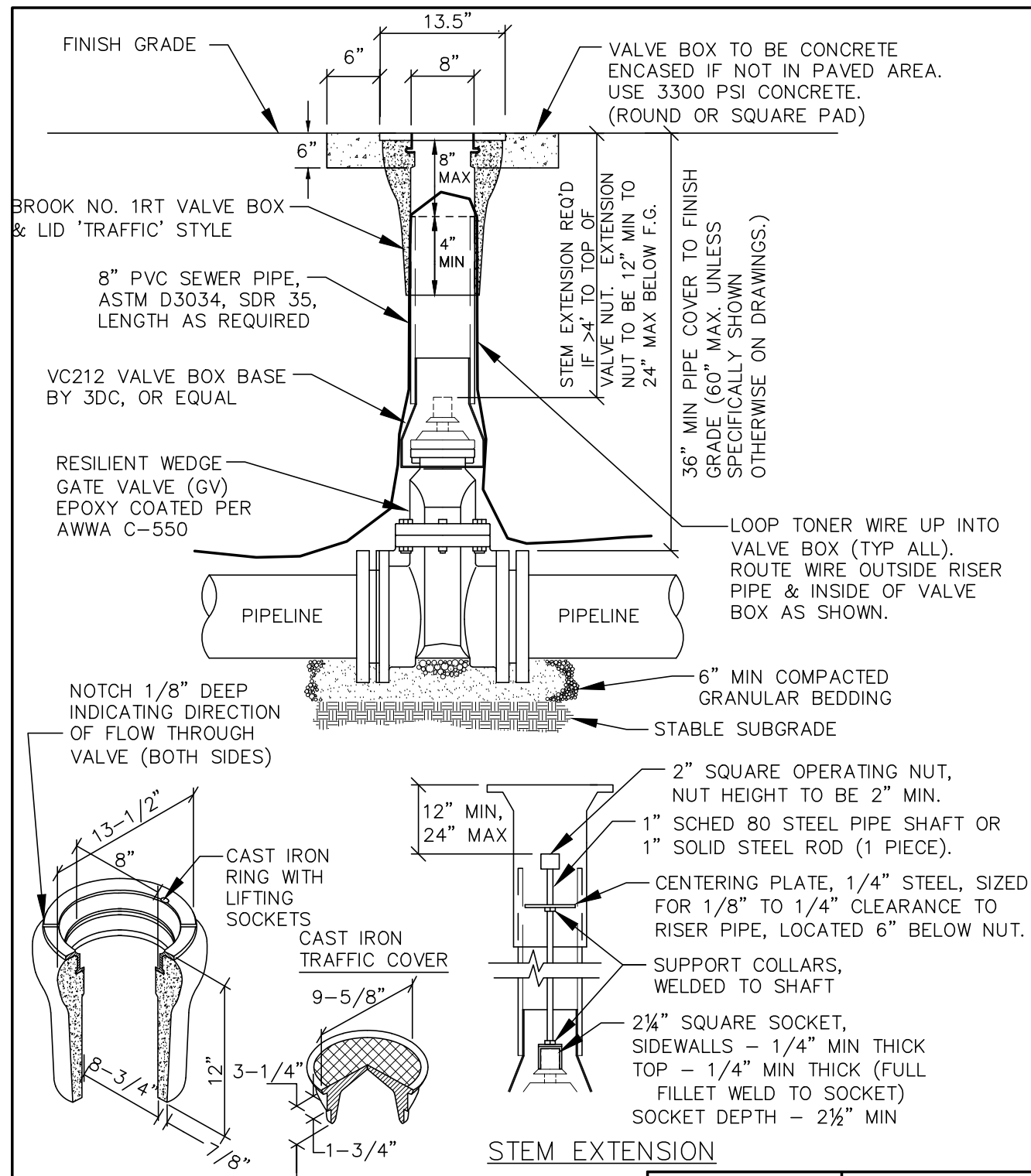
ALL PRIVATE HYDRANTS MUST BE EQUIPPED WITH
A STORZ ADAPTER ON THE STREAMER PORT AND
MEET CITY OF SALEM HYDRANT STANDARDS.



NOTES:

1. USE INLAND FOUNDRY MODEL 240 FRAME & COVER IN ALL AREAS.
2. COVER AND FRAME SHALL BE GRAY CAST IRON ASTM A-48, CLASS 30.
3. COVER AND FRAME TO BE MACHINED TO A TRUE BEARING ALL AROUND.

LAST REVISION DATE: JULY 2015	COPYRIGHT 1996 WESTECH ENGINEERING, INC.
MAINLINE CLEANOUT	
(NTS)	
WESTECH ENG.	DETAIL NO. 4110

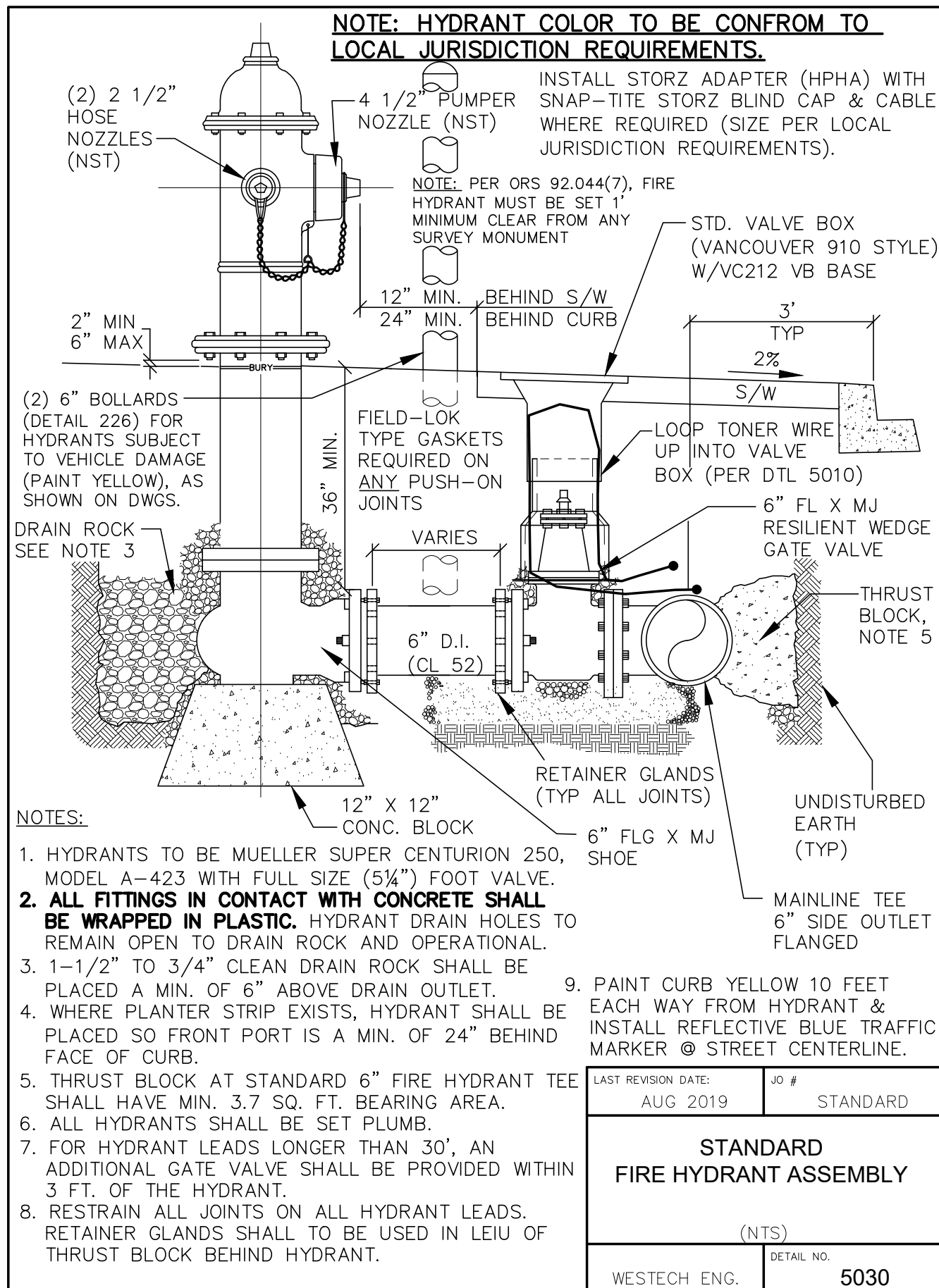


BROOKS NO. 1RT VALVE BOX

NOTES:

1. GV SHALL CONFORM TO AWWA C-509.
2. VALVE BOXES SHALL BE PLUMB AND CENTERED DIRECTLY OVER THE VALVE NUT.
3. VALVE BOX TOP SHALL BE ADJUSTED TO FINISHED GRADE.
4. PVC SHALL BE ONE CONTINUOUS PIECE, NO BELLS OR COUPLERS.

LAST REVISION DATE: JULY 2017	JO # STANDARD
GATE VALVE AND VALVE BOX DETAIL (NTS)	
WESTECH ENG.	DETAIL NO. 5011



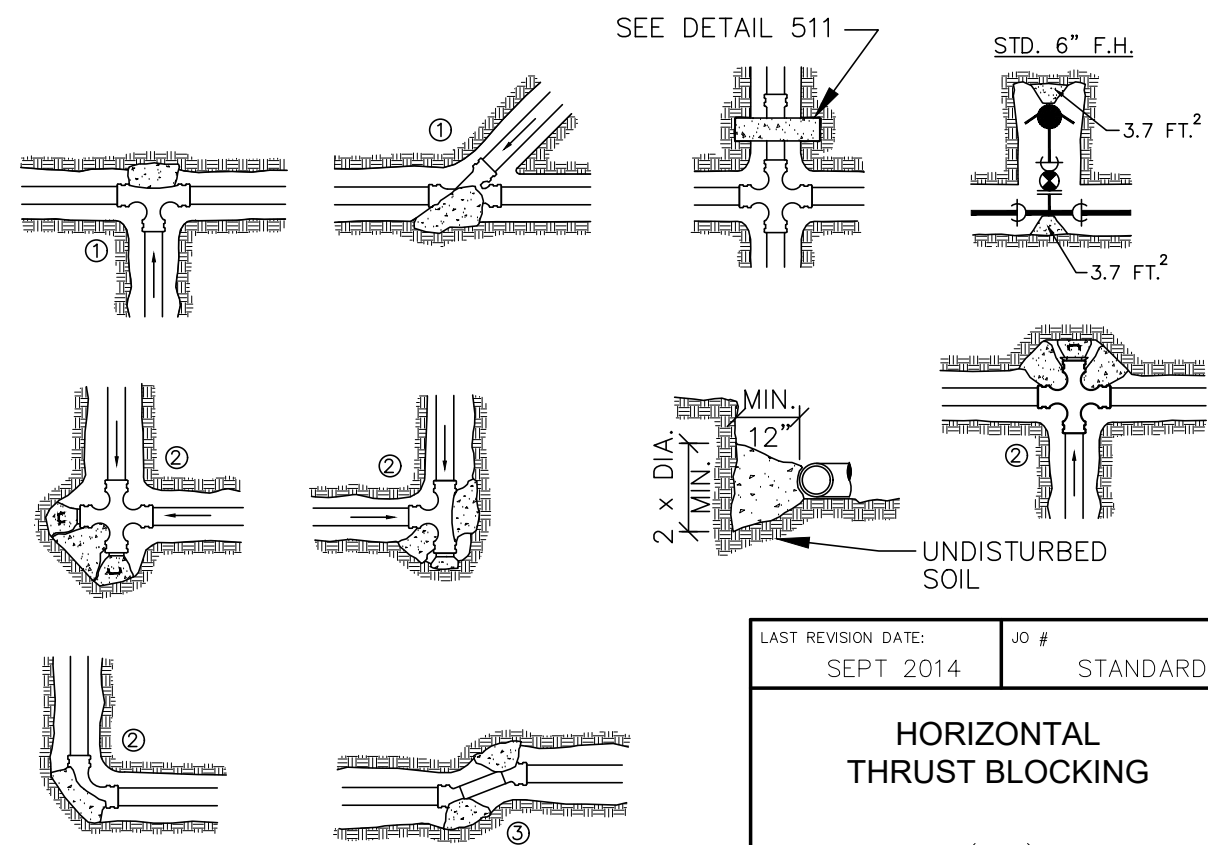
NOTES:

1. HYDRANTS TO BE MUELLER SUPER CENTURION 250, MODEL A-423 WITH FULL SIZE (5/4") FOOT VALVE.
 2. **ALL FITTINGS IN CONTACT WITH CONCRETE SHALL BE WRAPPED IN PLASTIC.** HYDRANT DRAIN HOLES TO REMAIN OPEN TO DRAIN ROCK AND OPERATIONAL.
 3. 1-1/2" TO 3/4" CLEAN DRAIN ROCK SHALL BE PLACED A MIN. OF 6" ABOVE DRAIN OUTLET.
 4. WHERE PLANTER STRIP EXISTS, HYDRANT SHALL BE PLACED SO FRONT PORT IS A MIN. OF 24" BEHIND FACE OF CURB.
 5. THRUST BLOCK AT STANDARD 6" FIRE HYDRANT TEE SHALL HAVE MIN. 3.7 SQ. FT. BEARING AREA.
 6. ALL HYDRANTS SHALL BE SET PLUMB.
 7. FOR HYDRANT LEADS LONGER THAN 30', AN ADDITIONAL GATE VALVE SHALL BE PROVIDED WITHIN 3 FT. OF THE HYDRANT.
 8. RESTRAIN ALL JOINTS ON ALL HYDRANT LEADS. RETAINER GLANDS SHALL TO BE USED IN LEIU OF THRUST BLOCK BEHIND HYDRANT.

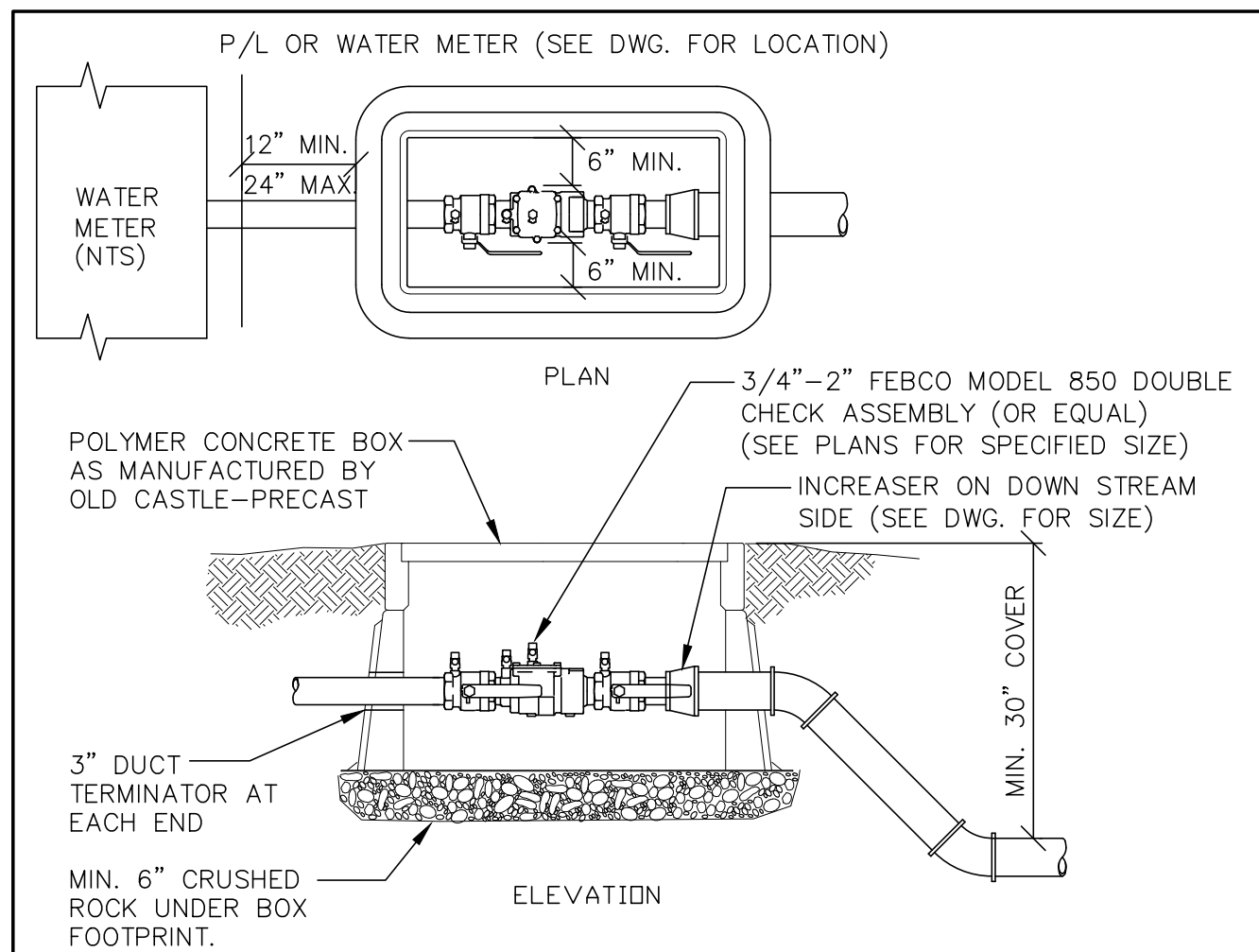
LAST REVISION DATE: AUG 2019	JO # STANDARD
STANDARD FIRE HYDRANT ASSEMBLY (NTS)	
WESTECH ENG.	DETAIL NO. 5030

FITTING SIZE (inches)	TEE, WYE & HYDRANTS	90° BEND PLUGGED CROSS TEE PLUGGED—RUNS	45° BEND	22 1/2° BEND	11 1/4° BEND
2	*	*	*	*	*
4	1.7	2.4	1.3	*	*
6	3.7	5.3	2.9	1.5	*
8	6.7	9.5	5.1	2.7	1.3
10	10.5	14.8	8	4.1	2
12	15.3	21.3	11.6	5.9	2.9
16	26.8	37.9	20.5	10.4	5.2
18	33.9	47.9	25.9	12.8	6.7
LARGER	*	*	*	*	*
BEARING AREA OF THRUST BLOCKS			(sq. ft.)		

1. ALL VALUES ARE BASED ON THE FOLLOWING ASSUMPTIONS:
 AVG. PRESSURE = 100 PSI x 2 (safety factor); 1500 PSF SOIL BEARING CAPACITY;
 NORMAL DISTRIBUTION SYSTEM DESIGN VELOCITY NOT TO EXCEED 5 FPS.
2. **ALL FITTINGS SHALL BE WRAPPED IN PLASTIC PRIOR TO PLACEMENT OF CONCRETE.**
3. REBAR LIFTING LOOPS OF THE THURST BLOCKING SHALL BE AGAINST UNDISTURBED SOIL.
4. TRUCK-MIXED CONCRETE MIX SHALL HAVE A MIN. 28 DAY STRENGTH OF 3300 PSI (5" MAX SLUMP). USE OF HAND-MIXED CONCRETE MIX-RETE TYPE CONCRETE REQUIRES WRITTEN CITY APPROVAL PRIOR TO USE, AND SHALL BE 4000 PSI MIX, MIXED WITH MIN AMOUNT OF WATER NECESSARY FOR WORKABILITY (5" MAX SLUMP). USE OF DRY SAND-CRETE MIX (BAGS OR LOOSE MIX) IS PROHIBITED FOR PERMANENT THURST RESTRAINT.
5. ALL PIPE ZONES SHALL BE FILLED WITH GRANULAR BACKFILL AND COMPACTED.
6. THURST BLOCKS FOR PLUGGED CROSS AND PLUGGED TEE SHALL HAVE #4 REBAR LIFTING LOOPS INSTALLED AS SHOWN.
7. VERTICAL THURST DETAILS—SEE DWG. 512.
8. STRADDLE BLOCK DETAILS—SEE DWG. 511.
 - * BLOCK TO UNDISTURBED TRENCH WALLS
 - * THURST BLOCKS FOR PIPES LARGER THAN 18" WILL BE INDIVIDUALLY DESIGNED BY THE ENGINEER.



LAST REVISION DATE: SEPT 2014	JO # STANDARD
HORIZONTAL THRUST BLOCKING (NTS)	
WESTECH ENG.	DETAIL NO. 5100

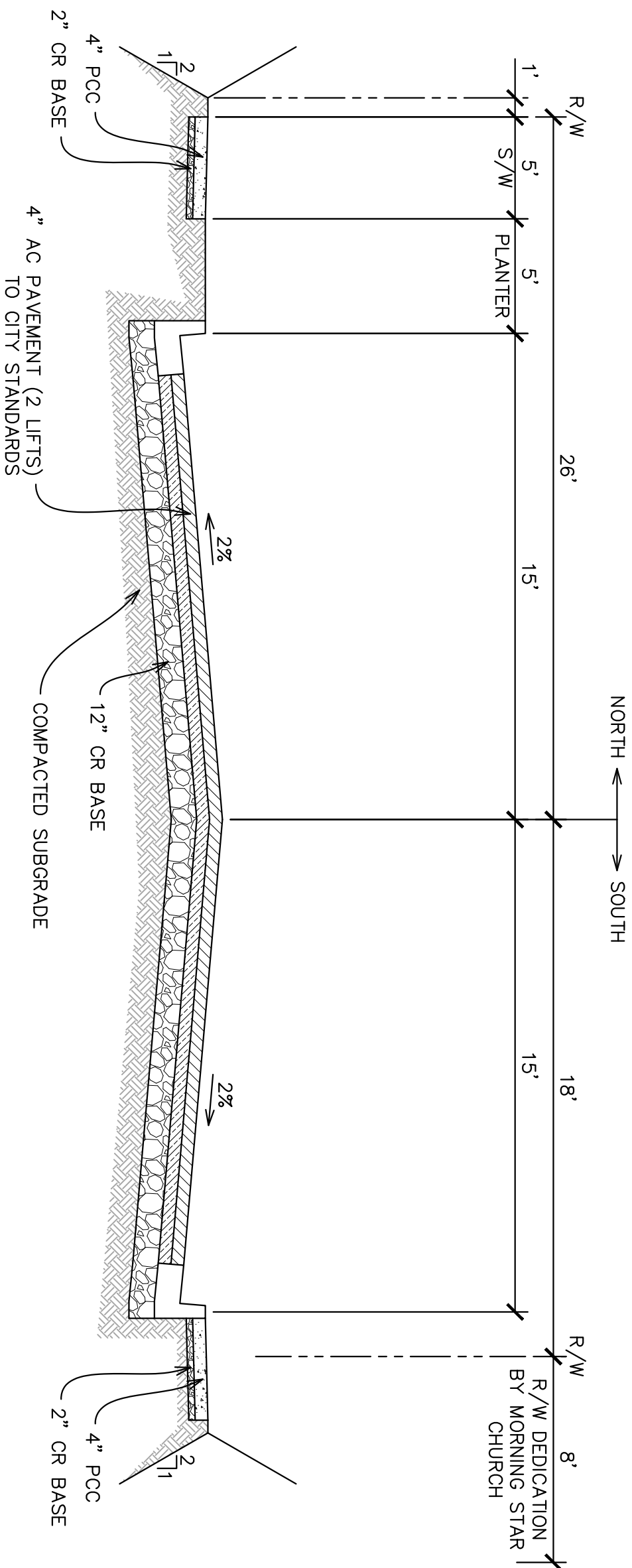


NOTES:

- | | | |
|----|---|--------|
| 1. | DCA-- DOUBLE CHECK ASSEMBLY | DIA. |
| 2. | DCA SHALL CONFORM TO REQUIREMENTS OF PUBLIC/PRIVATE AGENCIES HAVING JURISDICTION. | 3/4" |
| 3. | DCA & VAULT INSTALLATION SHALL MEET STATE OF OREGON, DEPARTMENT OF HUMAN RESOURCES, AND HEALTH DIVISION REQUIREMENTS. | 1 1/2" |
| 4. | CONTRACTOR SHALL HAVE DCA TESTED AND CERTIFIED PRIOR TO ACCEPTANCE BY OWNER. | 2" |
| 5. | VERIFY ADEQUATE CLEARANCES FOR TESTING AND REPAIR. | |
| 6. | BRASS PLUGS SHALL BE INSTALLED IN TEST COCKS. | |
| 7. | LOCK DOWN COVER WITH HEX HEAD BOLTS. COVER SHALL READ "WATER" | |
| 8. | DCA SHALL NOT BE INSTALLED IN AREAS SUBJECT TO VEHICLE TRAFFIC AND PEDESTRIAN SIDEWALK AREAS. | |

DCA DIA.	BOX MODEL NO.	BOX NOMINAL DIMENSIONS AT TOP
3/4"	S1324B26AA	13" X 24" (26"D)
1"	S1324B26AA	13" X 24" (26"D)
1 1/2"	S1730B26AA	17" X 30" (26"D)
2"	S1730B26AA	17" X 30" (26"D)

LAST REVISION DATE: DEC 2004	JO # STANDARD
2" AND SMALLER DOUBLE CHECK ASSEMBLY (NTS)	
WESTECH ENG.	DETAIL NO. 5310



MARIETTA STREET TYPICAL SECTION

NTS

STREET IMPROVEMENTS FROM STA 30+03 TO STA 34+37
CHURCH COUBRLINE SIDEWALK (SOUTH SIDE) FROM STA 30+03 TO STA 35+40



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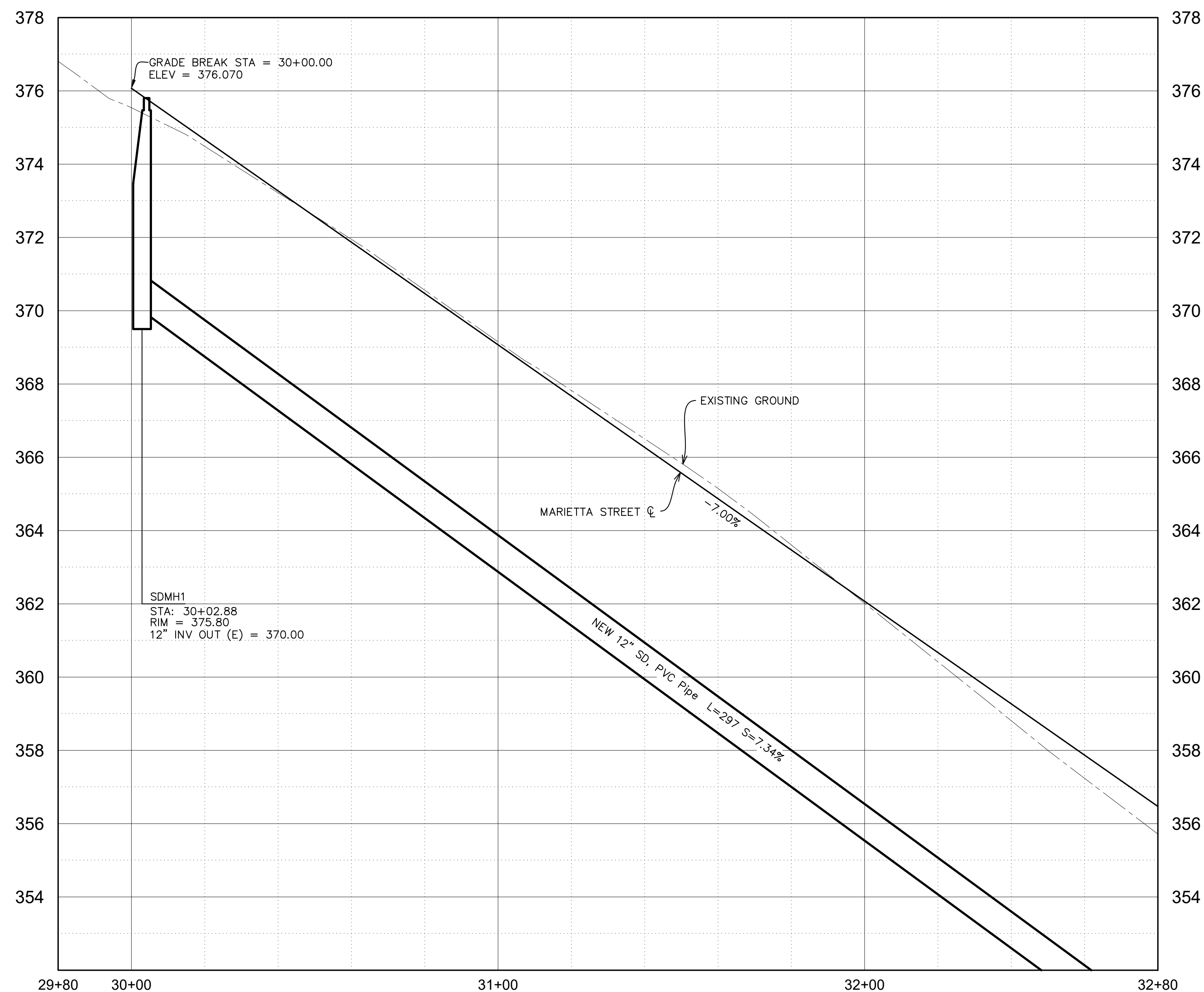
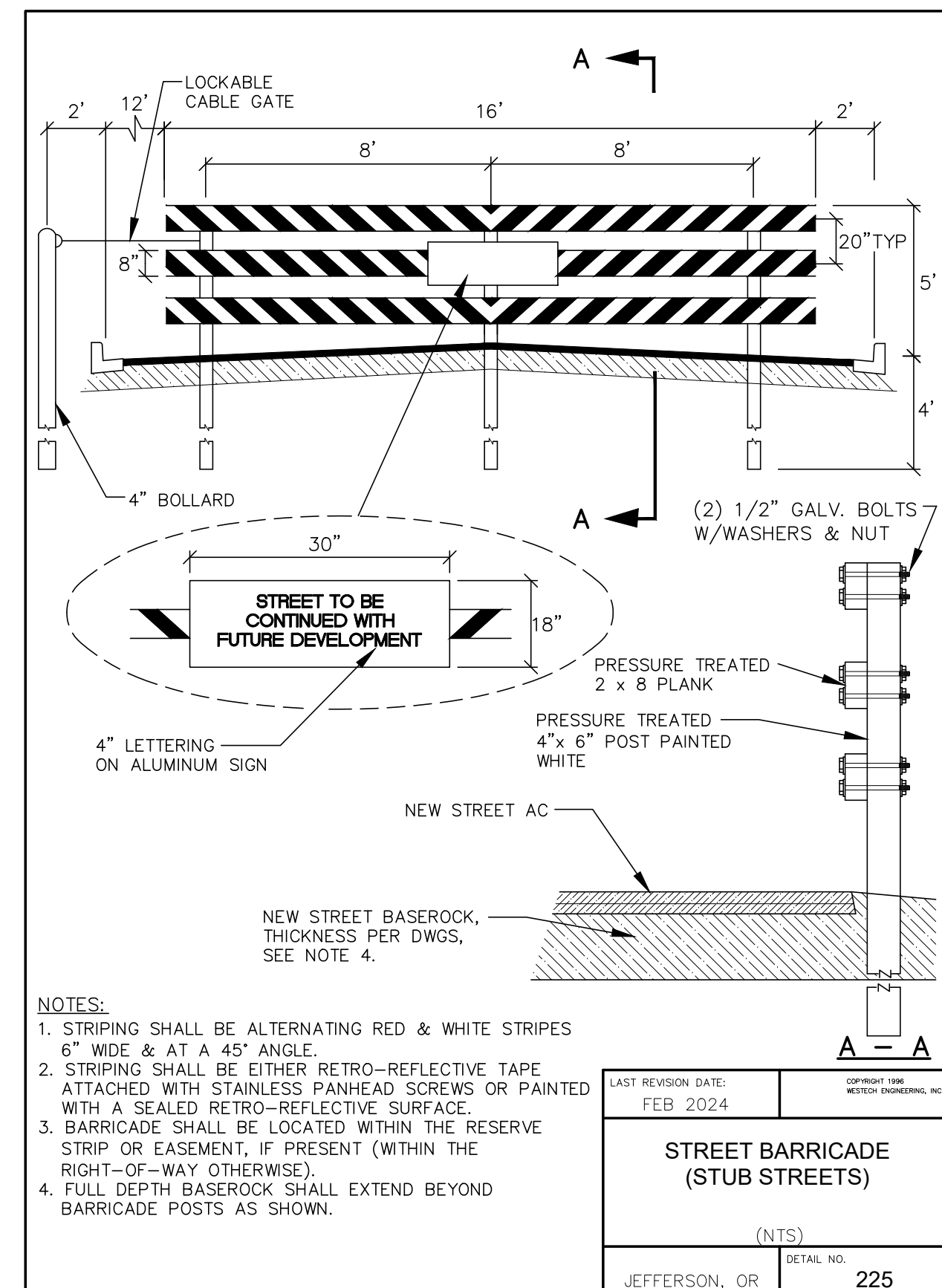
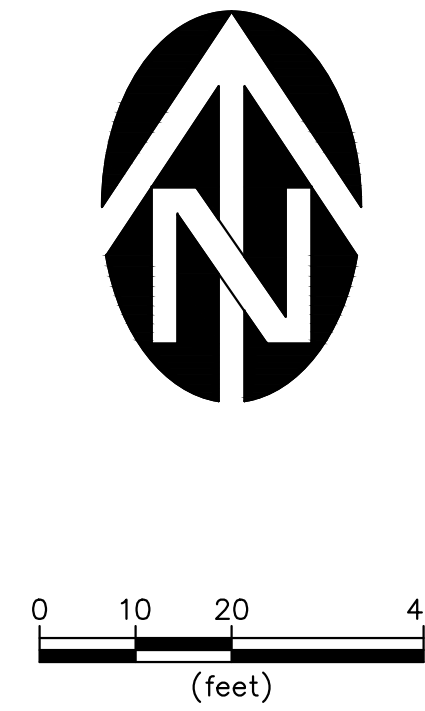
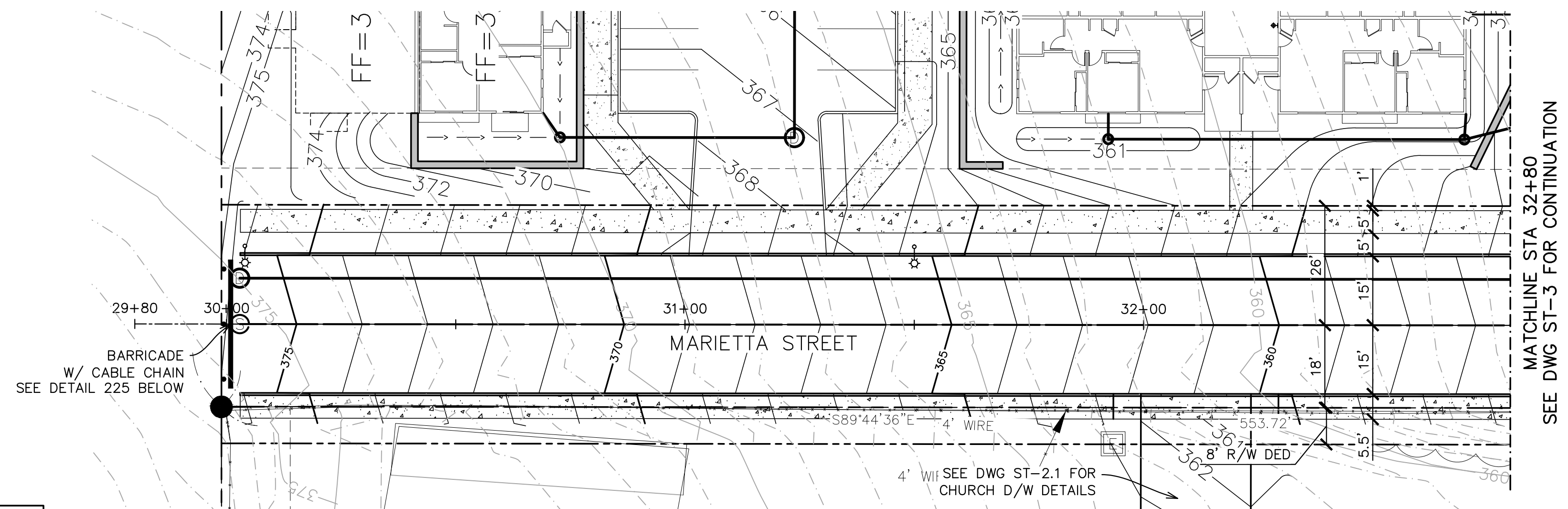
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HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II
TYPICAL SECTIONS



MARIETTA STREET PROFILE

NOTE:

WATER QUANTITY FOR THIS
PHASE COMPLETED W/ PHASE I

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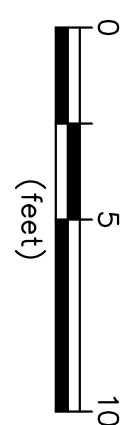
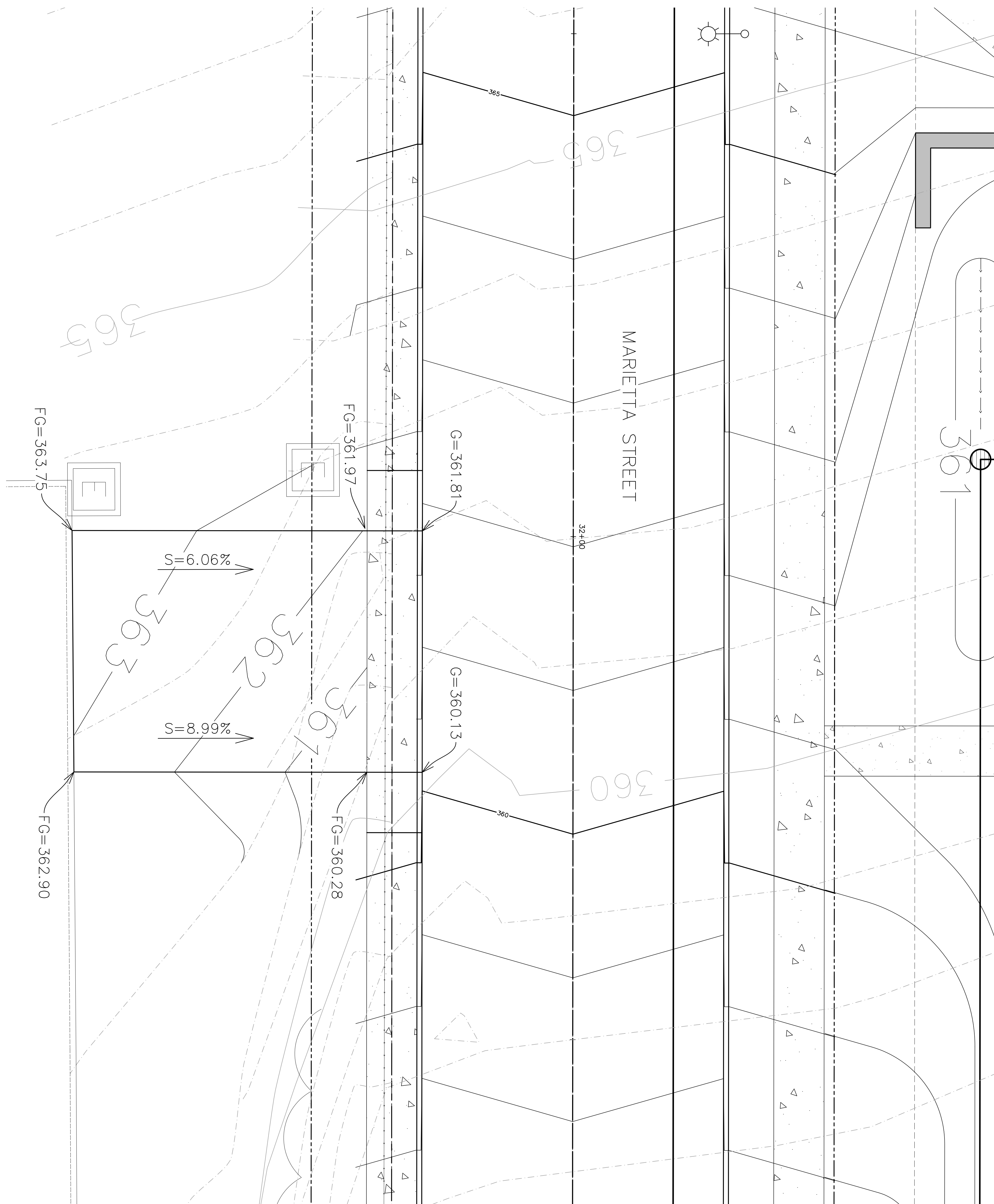
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HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II
MARIETTA STREET IMPS
PLAN-PROFILE
STA 29+80 TO STA 32+80

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JOB NUMBER
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HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II

CHURCH DRIVEWAY DETAIL
SECONDARY FIRE ACCESS

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REVIEW

REGISTERED PROFESSIONAL
ENGINEER
11116
OREGON
JULY 16, 1982
STEVEN A. WARD

REVIEWS: 6/30/2026

VERIFY SCALE

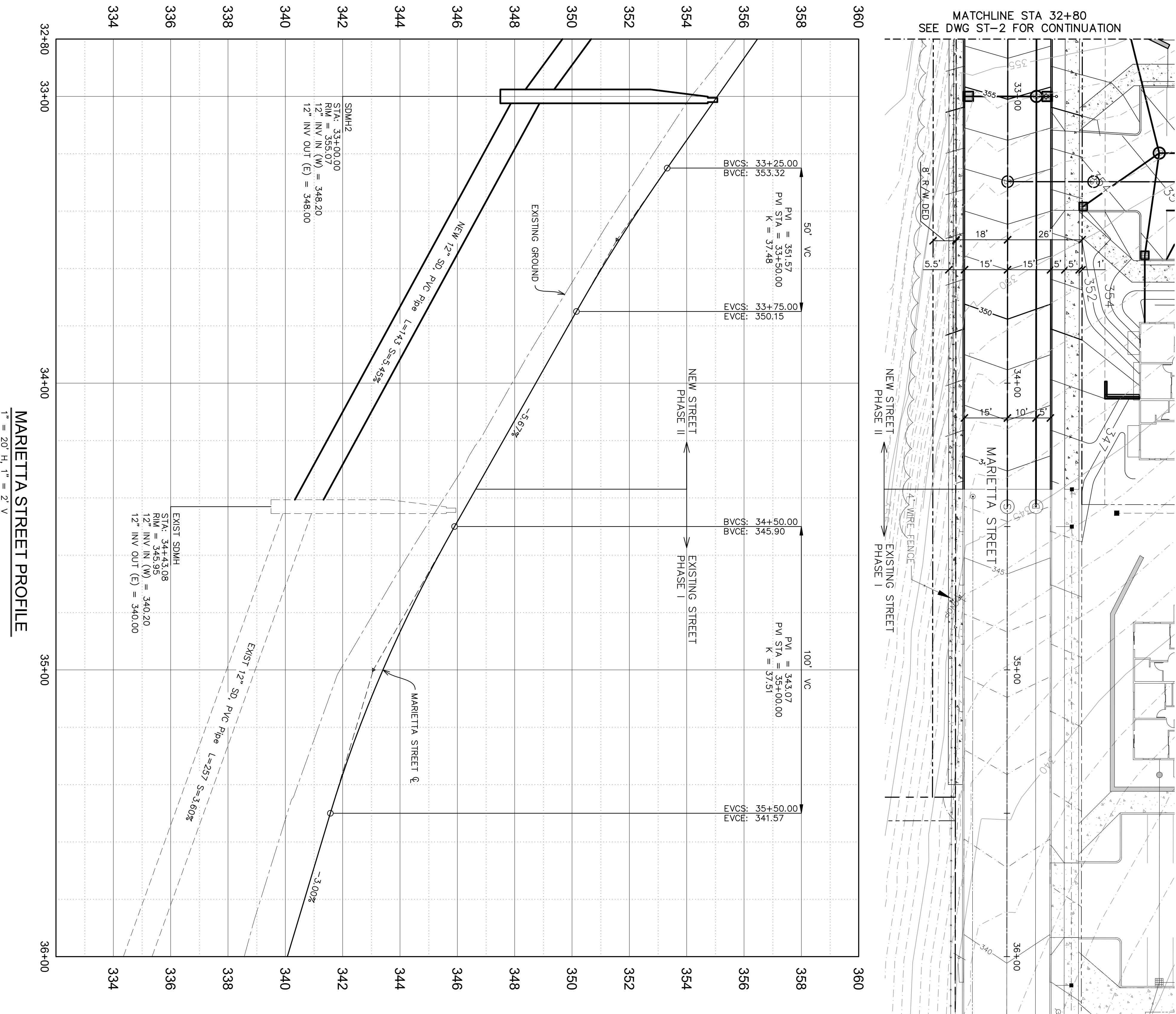
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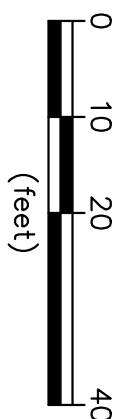
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NOTE:
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PHASE COMPLETED W/ PHASE 1



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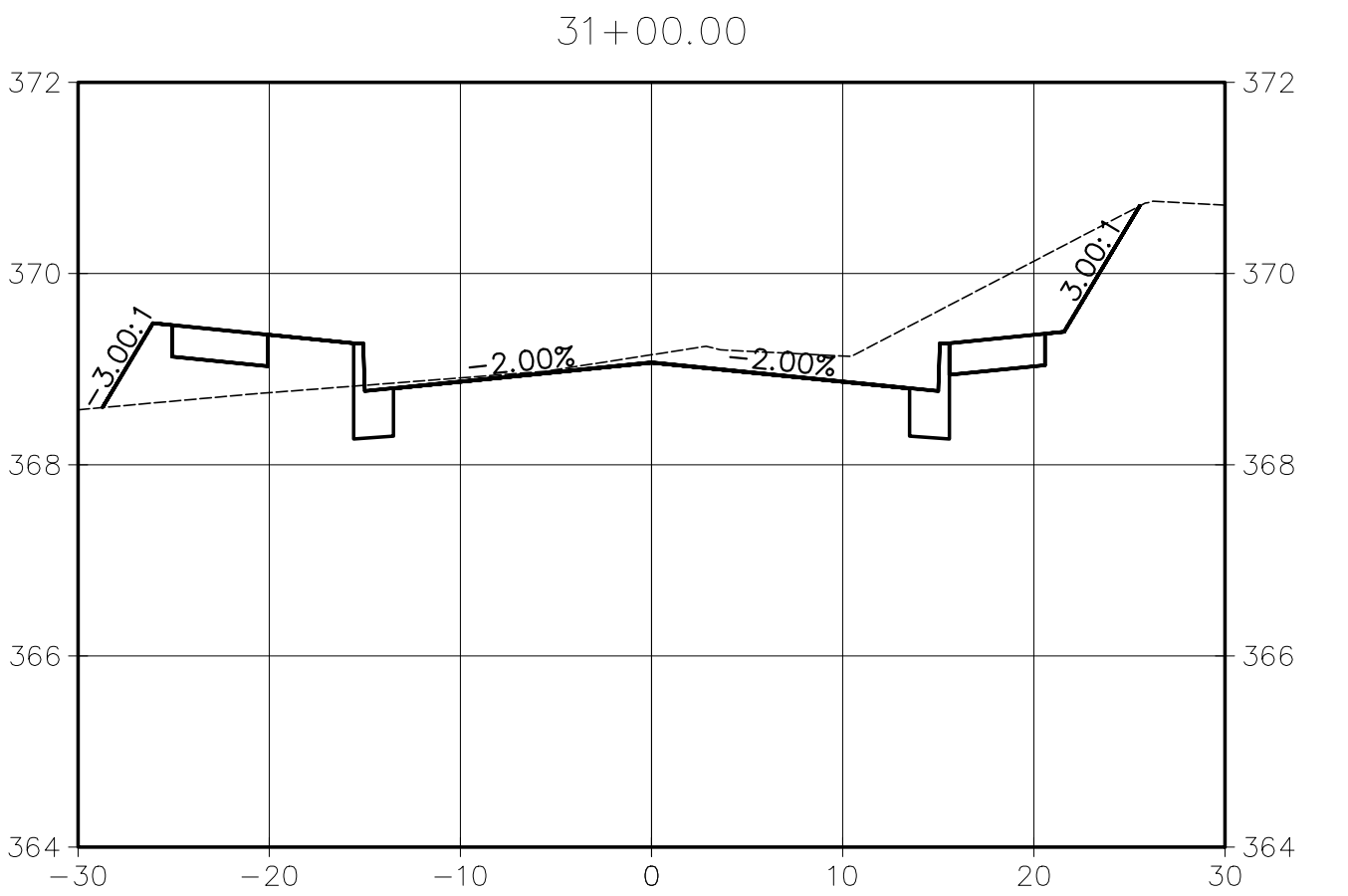
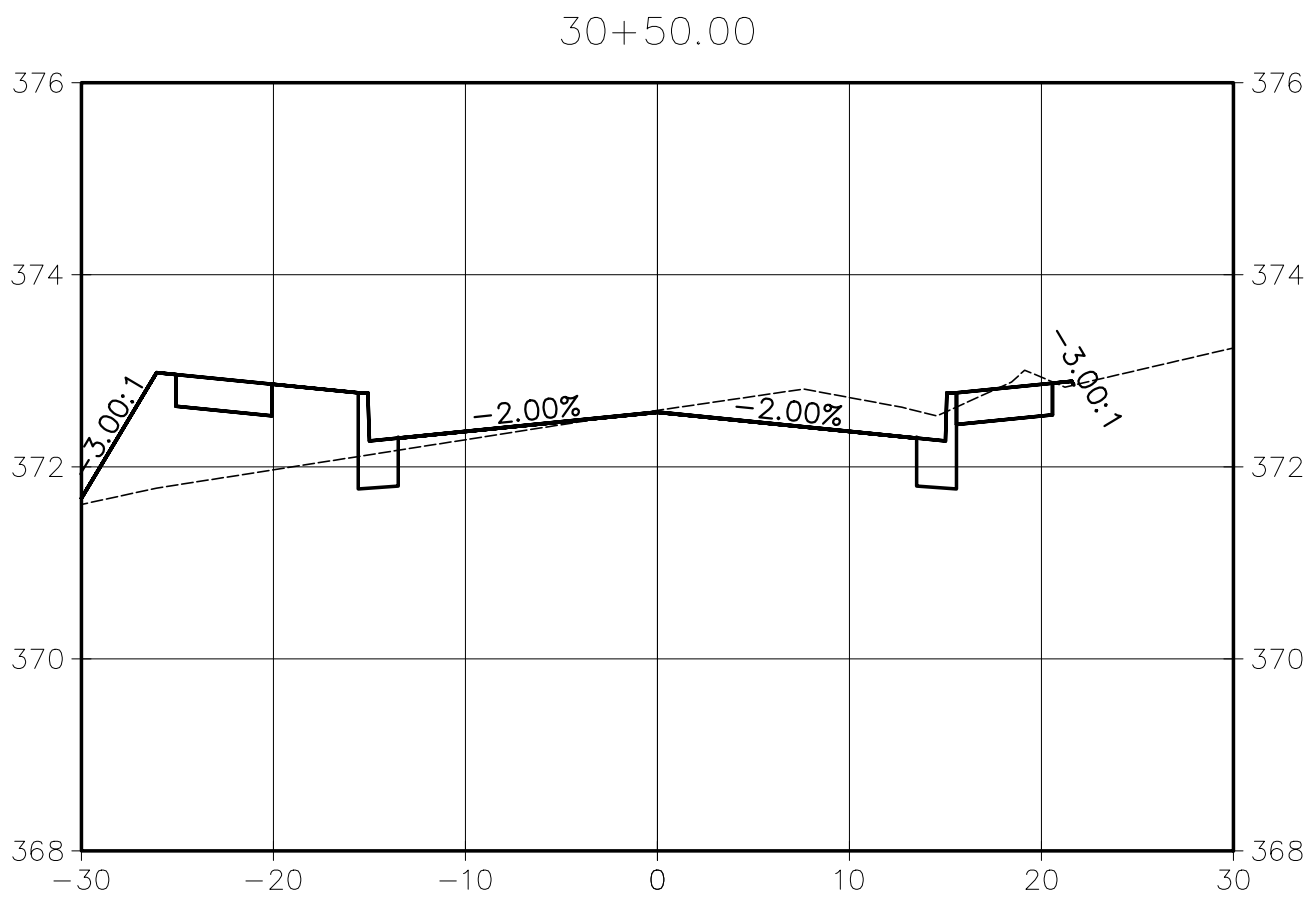
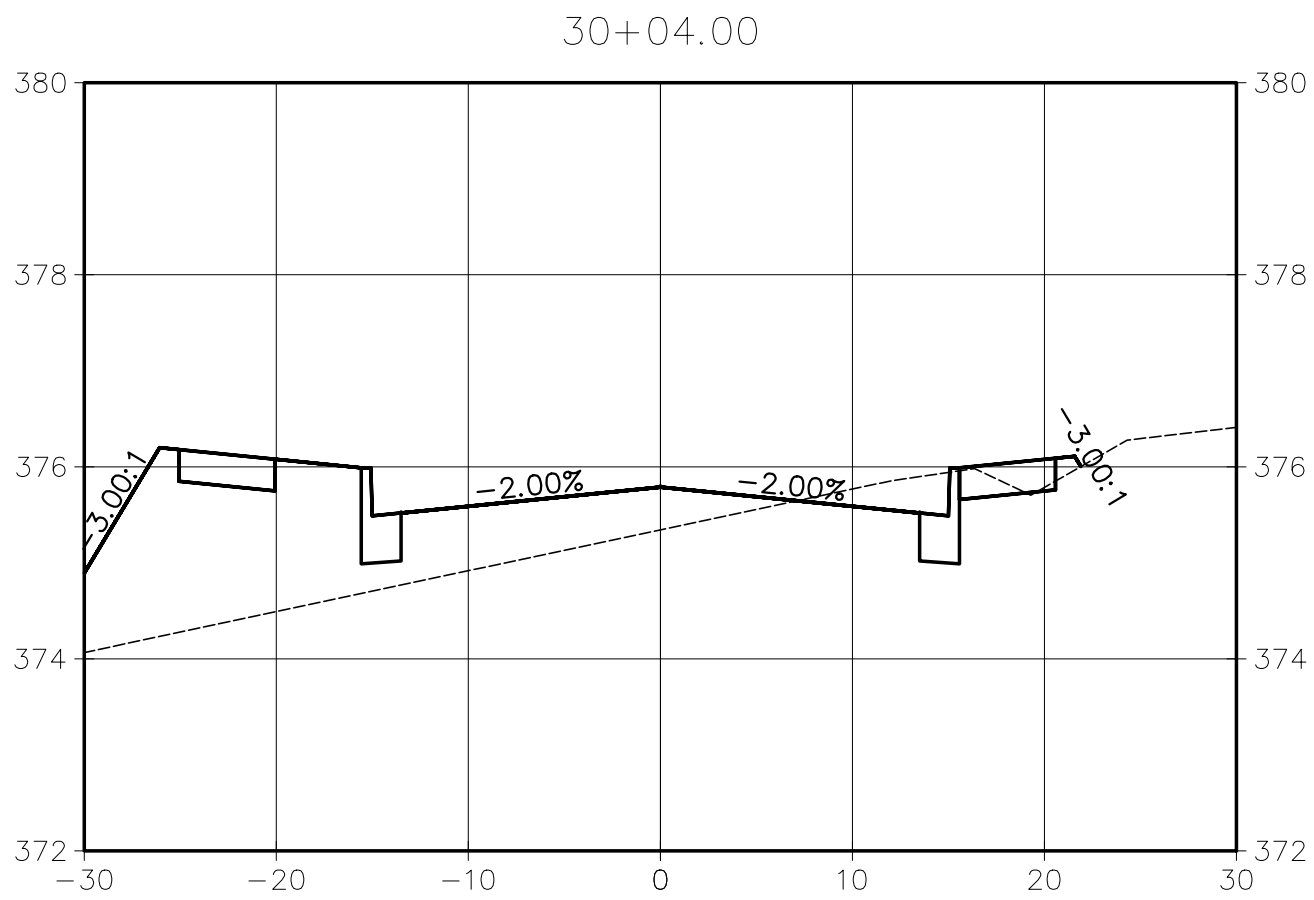
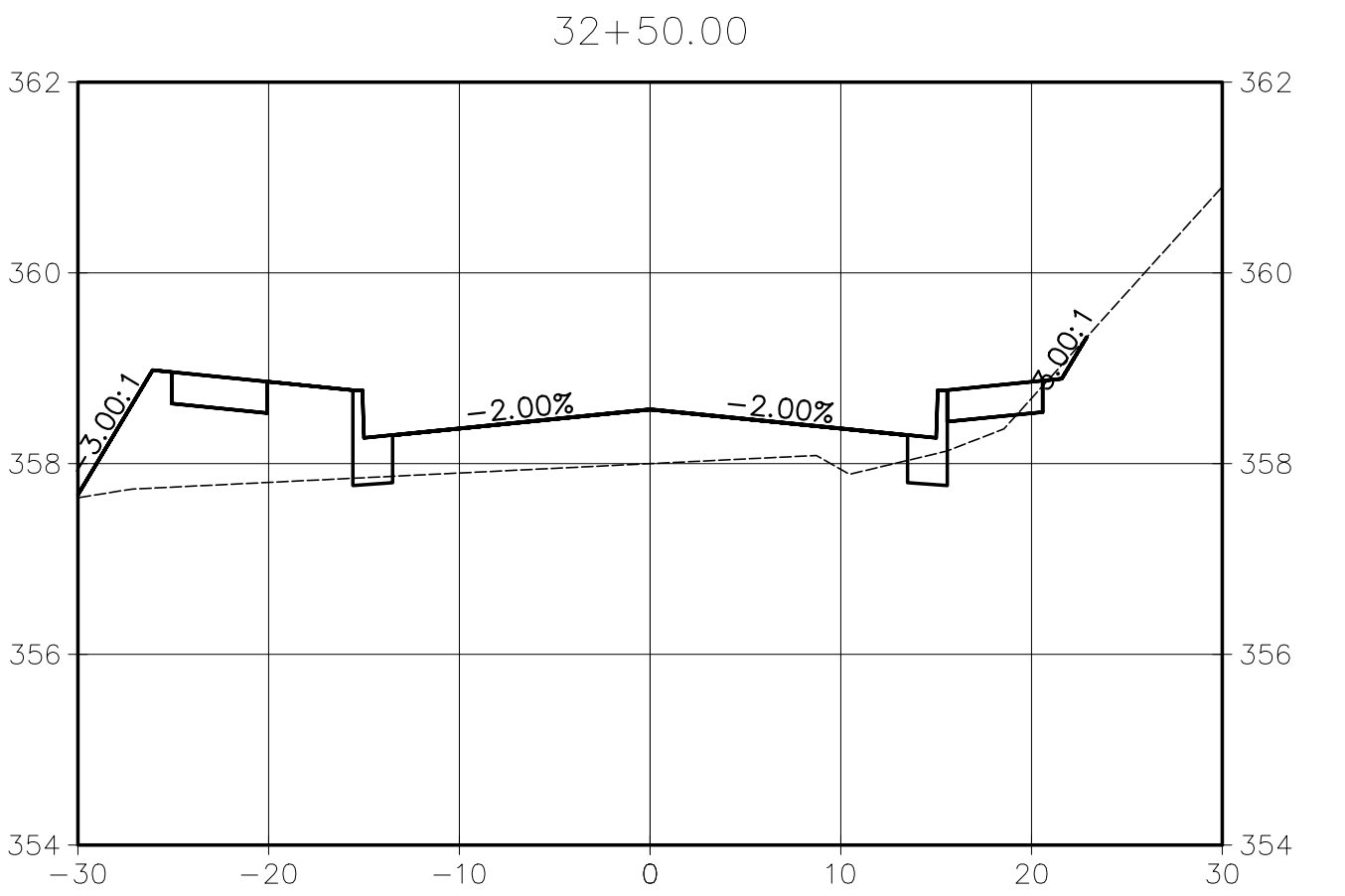
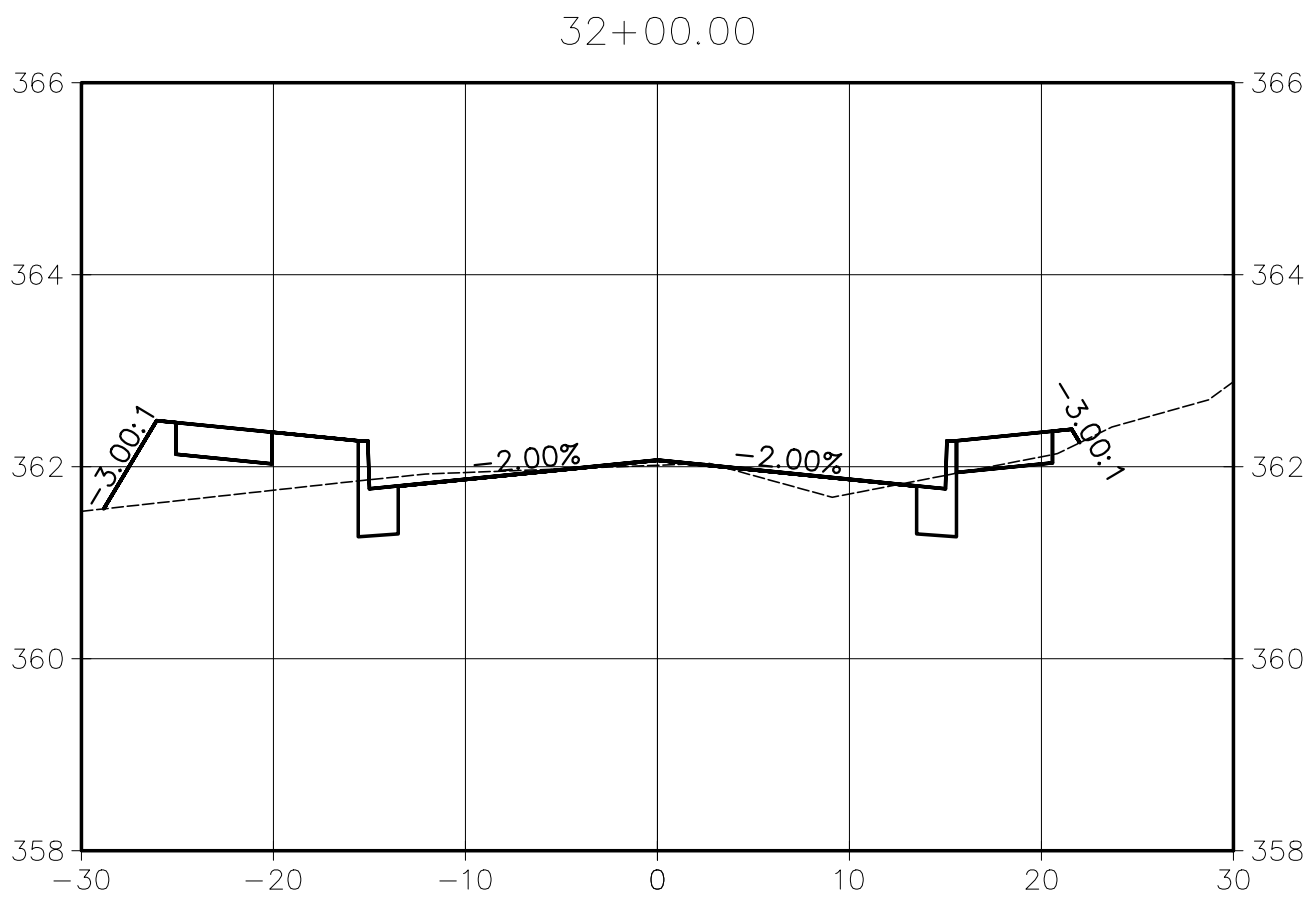
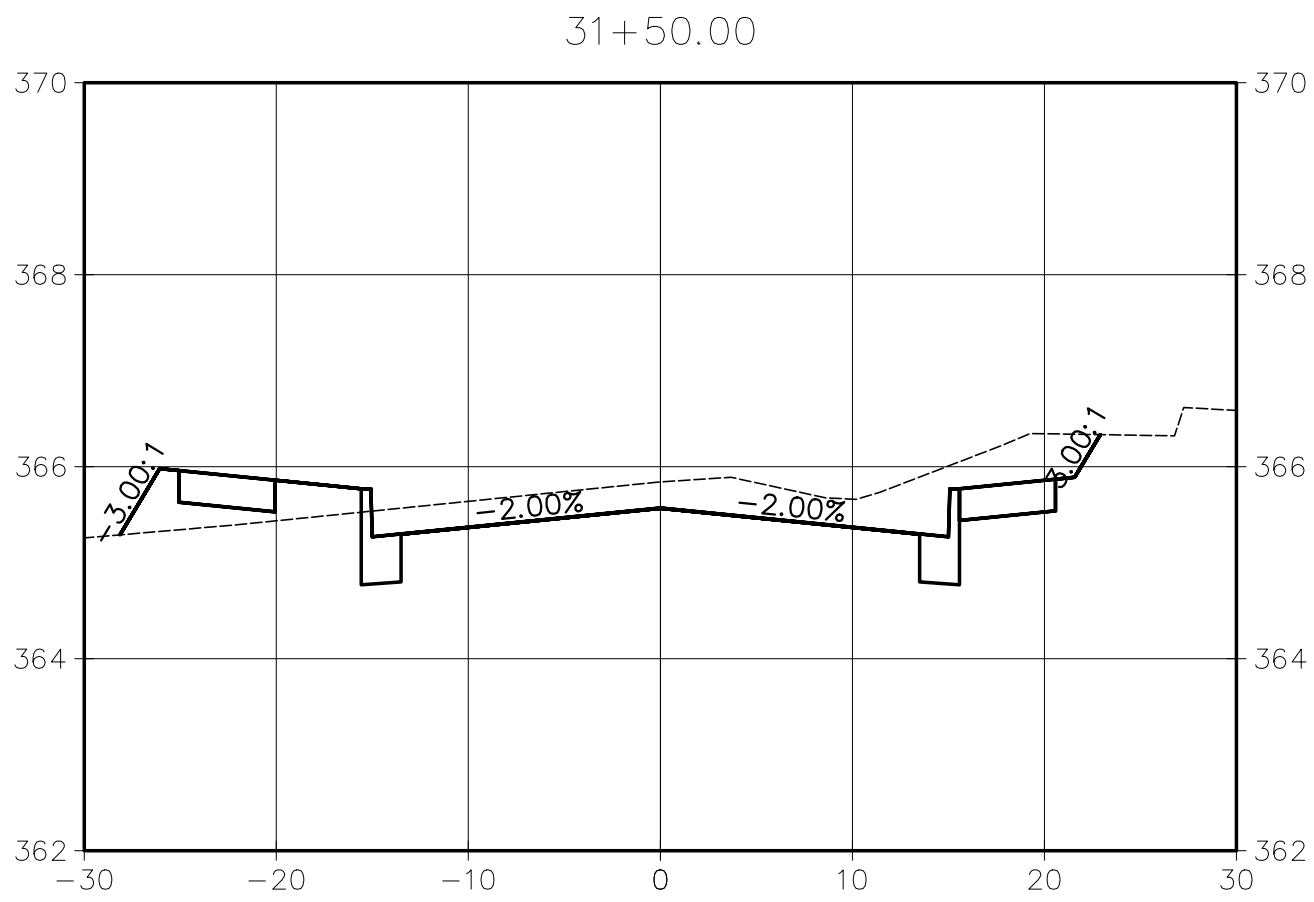
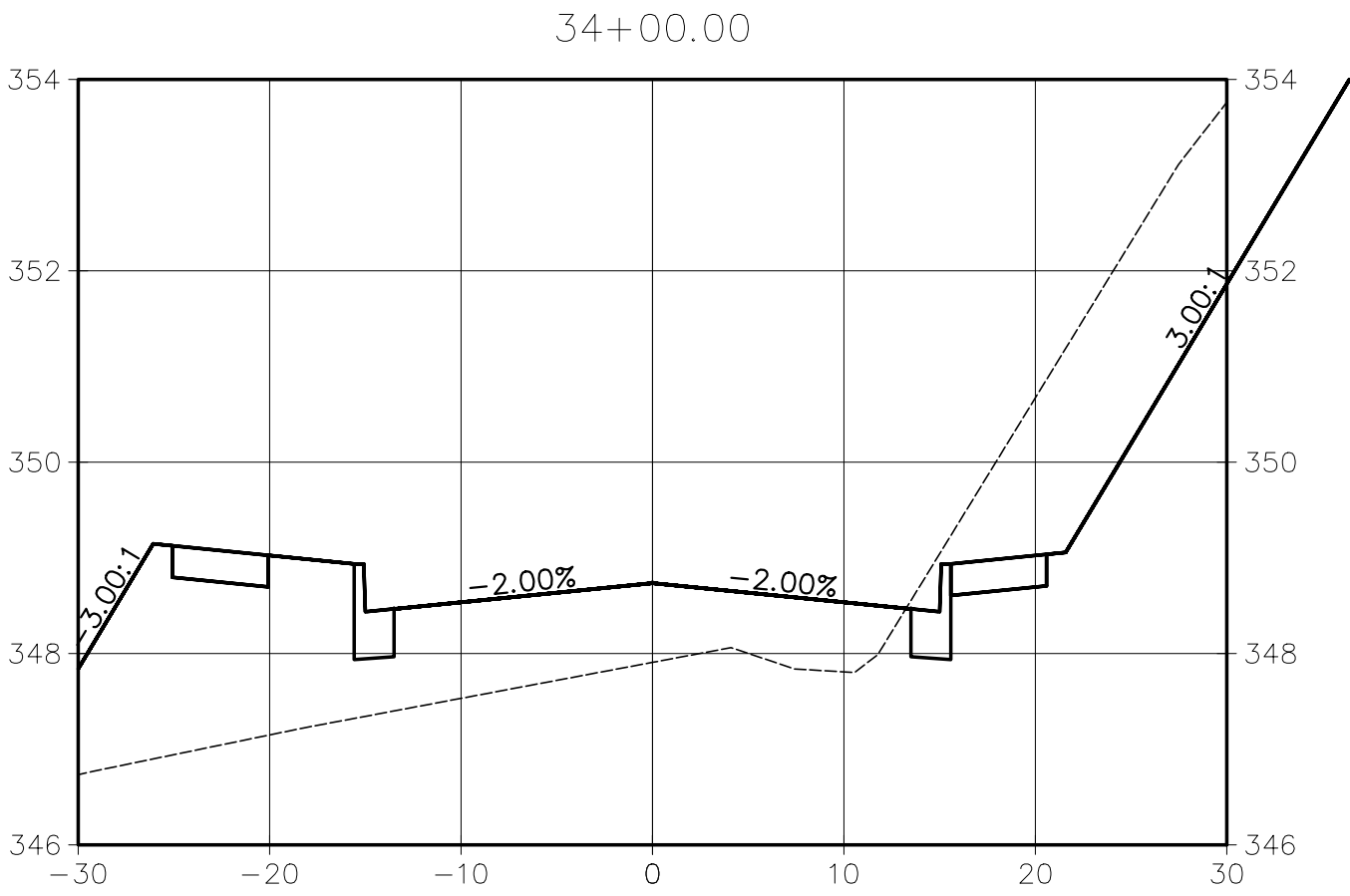
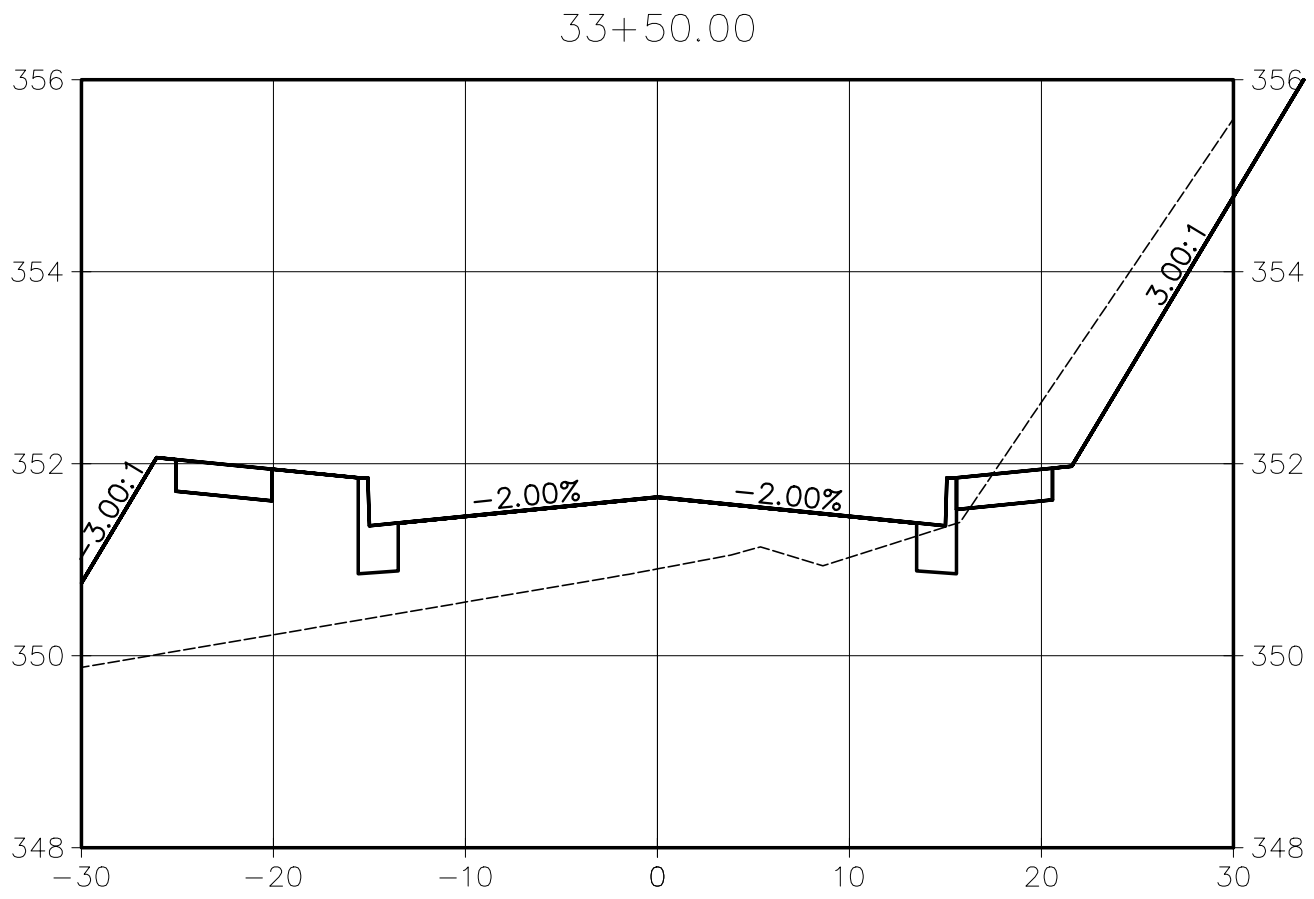
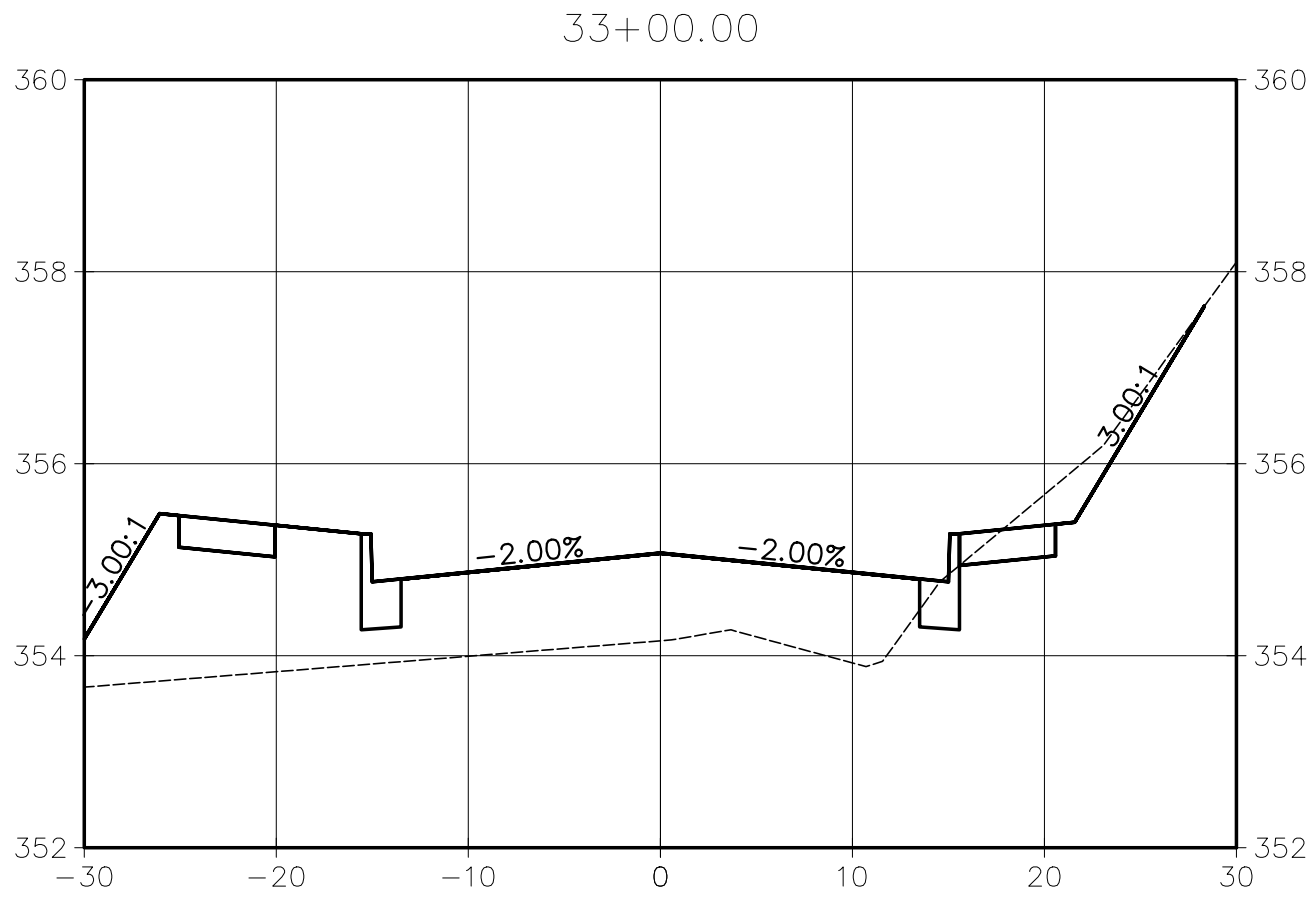
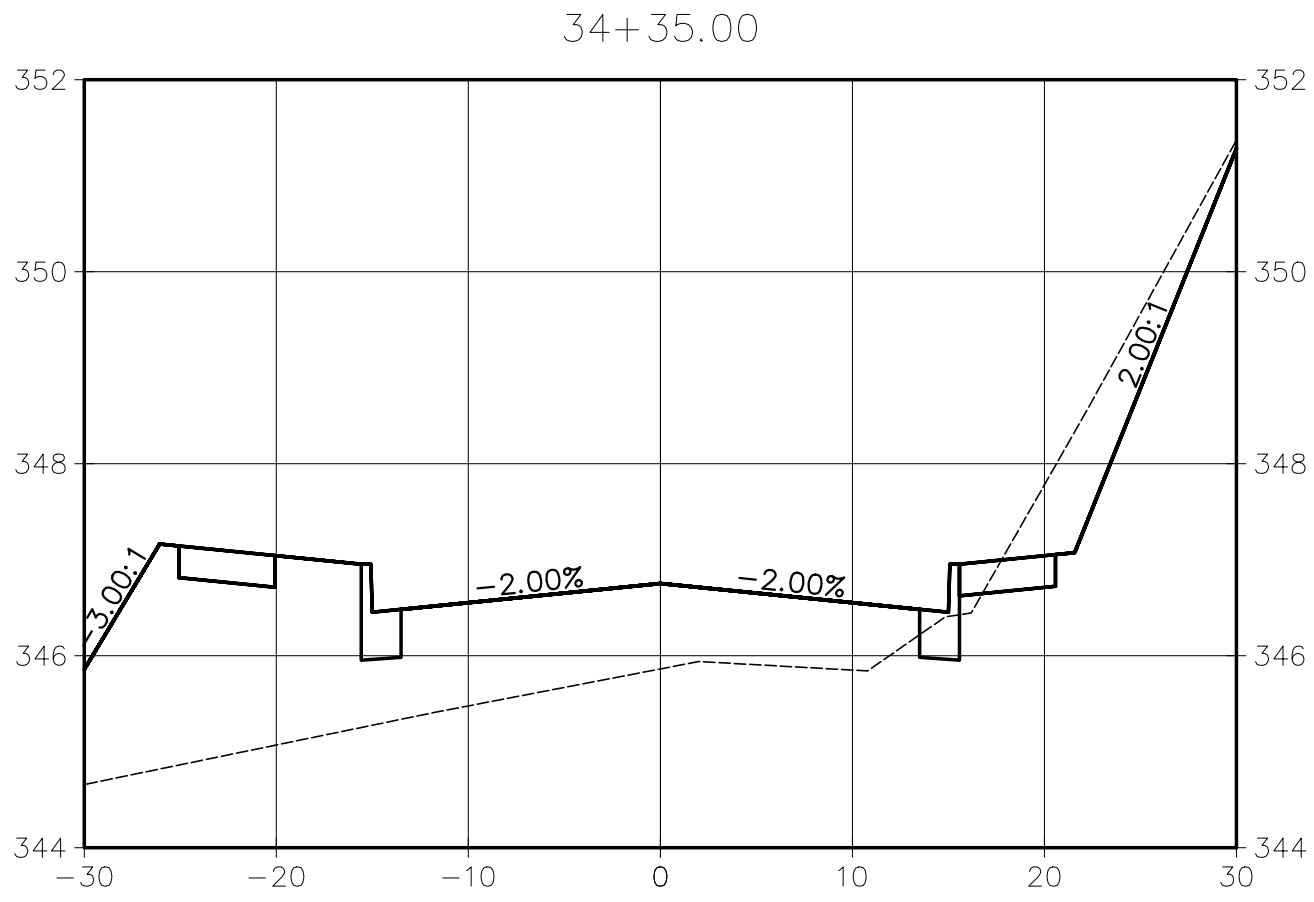
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HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II
MARIETTA STREET IMPS
PLAN—PROFILE
STA 32+80 TO STA 36+00

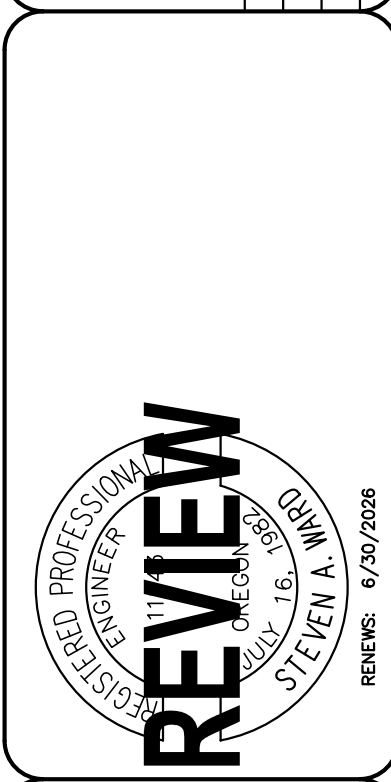
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MARIETTA STREET CROSS SECTIONS
1" = 10' H, 1" = 2' V

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HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II
MARIETTA STREET
CROSS SECTIONS

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PGE – OPTION C STREET LIGHTS (CITY OWNED/OPERATED)

CONDUITS: CONDUITS PER PLAN REQUIREMENTS. CONDUIT MAY BE PLACED IN COMMON TRENCH (PUE).

JUNCTION BOX: FOR UNDERGROUND CONDUCTORS AND CONNECTIONS:

JUNCTION BOX DESCRIPTION: JUNCTION BOX, CONCRETE POLYMER OR FIBERGLASS REINFORCED POLYMER, NO FLOOR, WITH SKID RESISTANT COVER ATTACHED BY TWO CAPTIVE PENTA-HEAD BOLTS, GRAY COLOR, AASTHTO H-10 LOADING RATING.LID LABELED "STREETLIGHTS". MANUFACTURERS NAME PERMANENTLY IDENTIFIED ON UNDERSIDE OF LID AND INSIDE WALL OF BOX. J.B'S SHALL BE PLACED WITH-IN THE SIDEWALK.

CIRCUIT RUNS WILL USE 2" NON-METALLIC CONDUIT WITH MINIMUM #/8 AWG XHHW WIRE, 2 CONDUCTORS AND 1 GROUND, 240 VOLT CIRCUIT. LOCATE WIRE WILL BE A #16 AWG ORANGE WITH BLUE TRACER WIRE ORIGINATING AT THE SERVICE CABINET RUNNING THROUGH ALL JUNCTION BOXES IN A CIRCUIT UP TO 2500' OF WIRE LENGTH TERMINATING IN A JUNCTION BOX. SPLICES IF REQUIRED MUST COMPLY WITH OREGON STANDARD DRAWING TM475 – LOOP WIRE TO LOOP FEEDER SPLICES. ALL SPLICES TO BE LOCATED IN A JUNCTION BOX. CONDUITS SHALL BE PLACED UNDER THE SIDEWALK.

LIGHTING REQUIREMENTS:
LEOTECH 45W LIGHT FIXTURE MOUNTED ON 30' (25' MOUNTING HT.) DIRECT BURY FIBERGLASS POLE WITH 6' MAST ARM PER PGE REQUIREMENTS.

EACH LIGHT NOT REQUIRED TO HAVE A PHOTOELECTRIC SENSOR SHALL BE FITTED WITH A SHORTING CAP WHERE NEEDED TO MAINTAIN THE CIRCUIT. WATTAGE AND TYPE OF LED LUMINAIRE TO PROVIDE THE REQUIRED LIGHT PATTERN MEETING CITY STANDARDS.

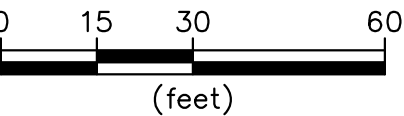
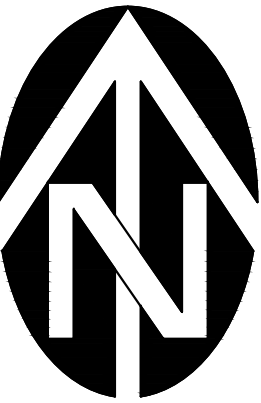
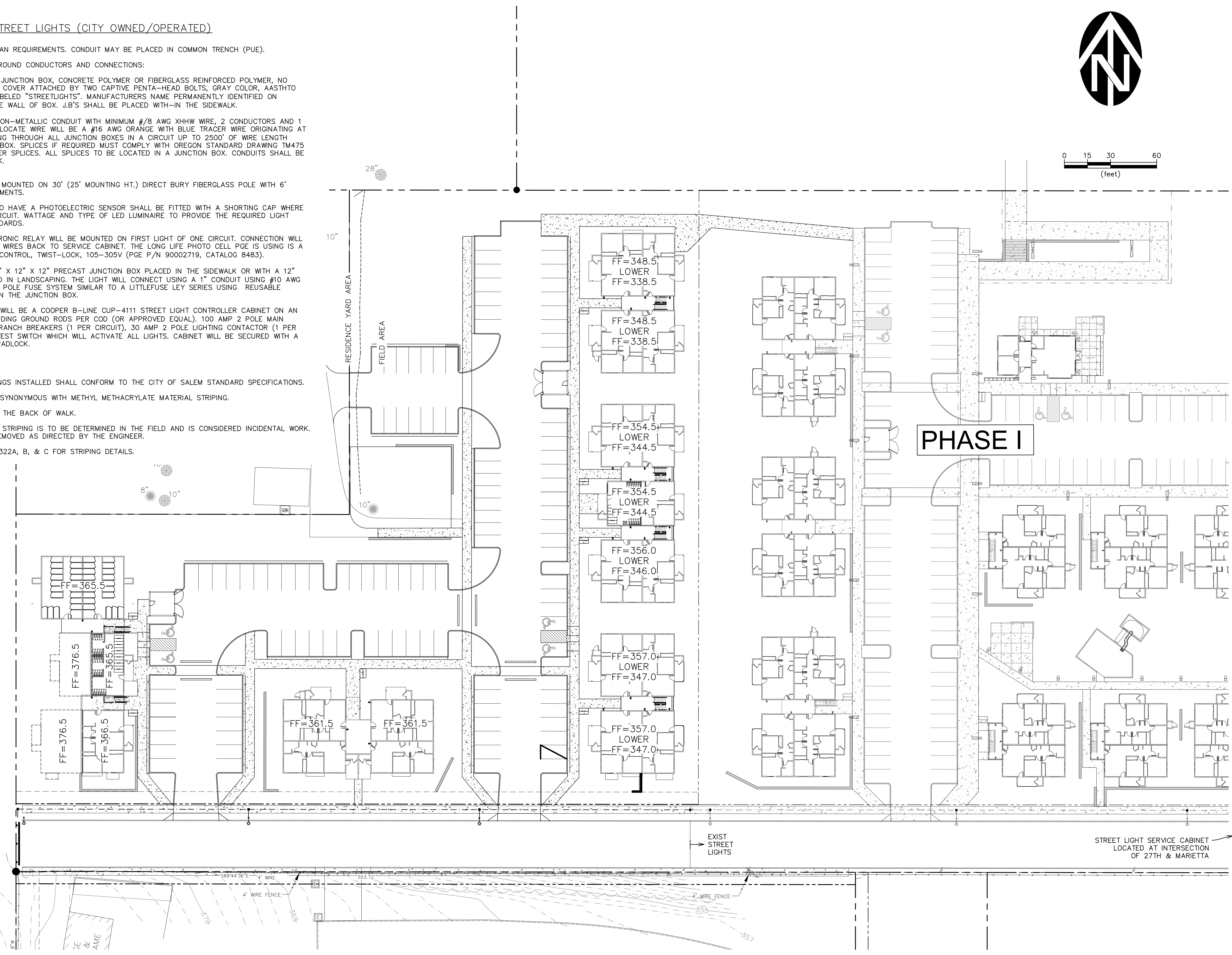
LONG LIFE PHOTOCELL ELECTRONIC RELAY WILL BE MOUNTED ON FIRST LIGHT OF ONE CIRCUIT. CONNECTION WILL UTILIZE A MINIMUM OF 3 #12 WIRES BACK TO SERVICE CABINET. THE LONG LIFE PHOTO CELL PGE IS USING IS A SELC EXTENDED LIFE PHOTO CONTROL, TWIST-LOCK, 105-305V (PGE P/N 90002719, CATALOG 8483).

EACH LIGHT WILL HAVE A 22" X 12" X 12" PRECAST JUNCTION BOX PLACED IN THE SIDEWALK OR WITH A 12" CONCRETE APRON IF LOCATED IN LANDSCAPING. THE LIGHT WILL CONNECT USING A 1" CONDUIT USING #10 AWG WIRES, AND FITTED WITH A 2 POLE FUSE SYSTEM SIMILAR TO A LITTLEFUSE LEY SERIES USING REUSABLE CONNECTORS AND LOCATED IN THE JUNCTION BOX.

STANDARD SERVICE CABINET WILL BE A COOPER B-LINE CUP-4111 STREET LIGHT CONTROLLER CABINET ON AN MB1515 MOUNTING PAD INCLUDING GROUND RODS PER COD (OR APPROVED EQUAL). 100 AMP 2 POLE MAIN BREAKER, 20 AMP 2 POLE BRANCH BREAKERS (1 PER CIRCUIT), 30 AMP 2 POLE LIGHTING CONTACTOR (1 PER CIRCUIT), AND 1 – 15 AMP TEST SWITCH WHICH WILL ACTIVATE ALL LIGHTS. CABINET WILL BE SECURED WITH A TRAFFIC SECTION PROVIDED PADLOCK.

STRIPING NOTES:

- ALL PAVEMENT MARKINGS INSTALLED SHALL CONFORM TO THE CITY OF SALEM STANDARD SPECIFICATIONS.
- DURABLE STRIPING IS SYNONYMOUS WITH METHYL METHACRYLATE MATERIAL STRIPING.
- LOCATE STOP BAR AT THE BACK OF WALK.
- REMOVAL OF EXISTING STRIPING IS TO BE DETERMINED IN THE FIELD AND IS CONSIDERED INCIDENTAL WORK. STRIPING SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
- SEE COS STD DETAIL 322A, B, & C FOR STRIPING DETAILS.



PHASE I

NO.	DATE	DESCRIPTION	BY
1			

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON
SCALE, SCALE
ACCURATELY

DSN.	SAW
DRN.	AR
CKD.	SAW

DATE: APR. 2022

REGISTERED PROFESSIONAL ENGINEER
REVIEW
OCEAN STATE
JULY 16, 2016
STEVEN A. JONES
RENEW: 6/30/2026

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS

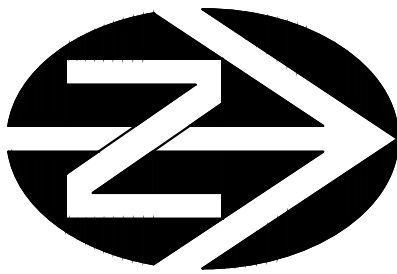
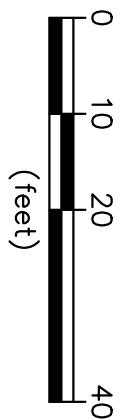
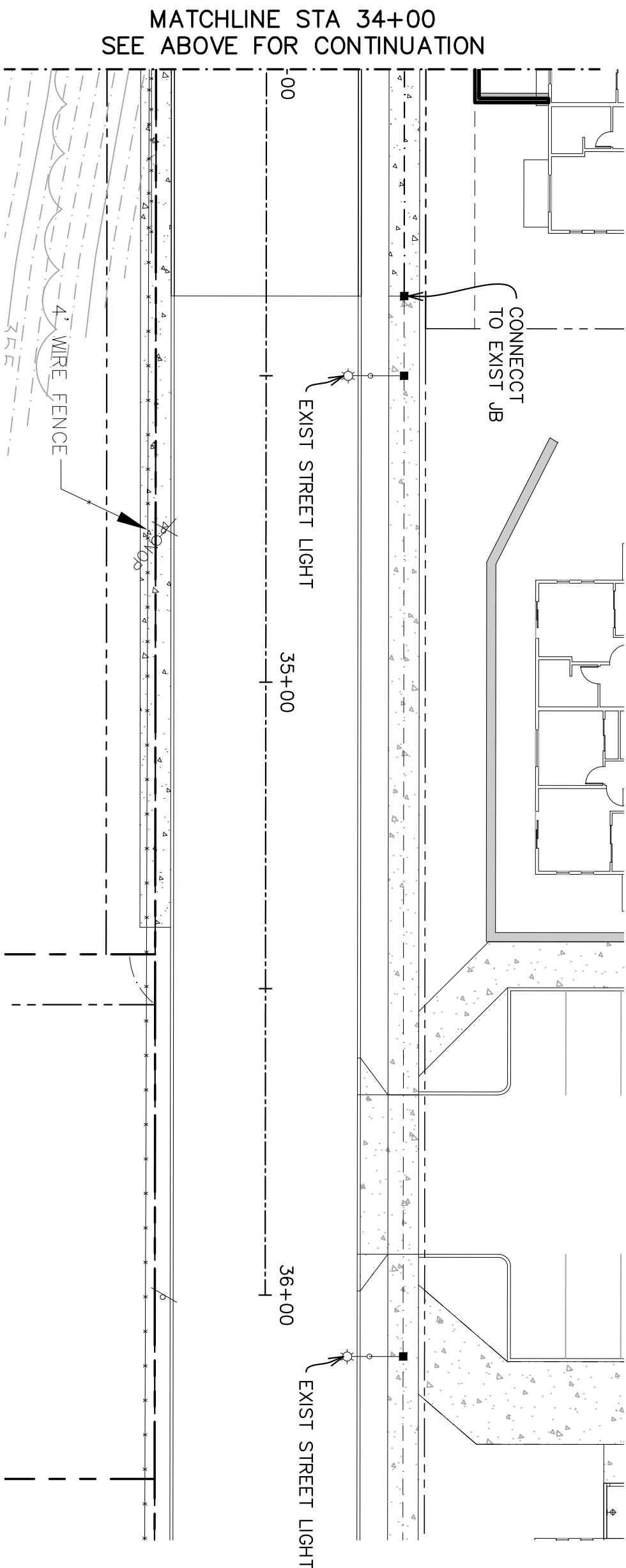
3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II

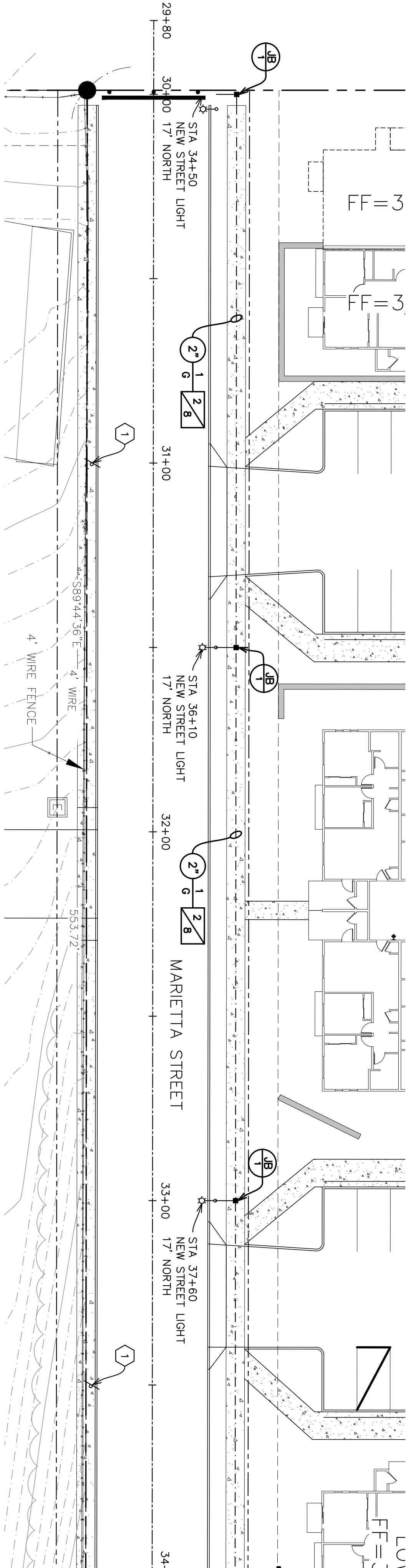
OVERALL
SIGNING & STRIPING PLAN

DRAWING
SL-1

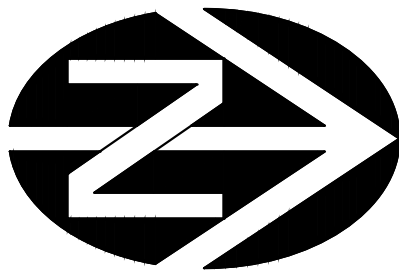
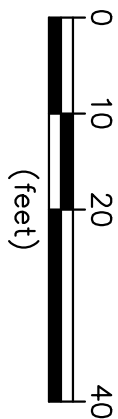
JOB NUMBER
3352.0000.0



- LEGEND
- 1 NO PARKING SIGN (COS DETAIL 323)
 - 2 STREET LIGHT SERVICE CABINET (LOCATED AT MARIETTA & 27TH)



MATCHLINE STA 34+00
SEE BELOW FOR CONTINUATION



DRAWING
SL-2
JOB NUMBER
3352.0000.0

HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II

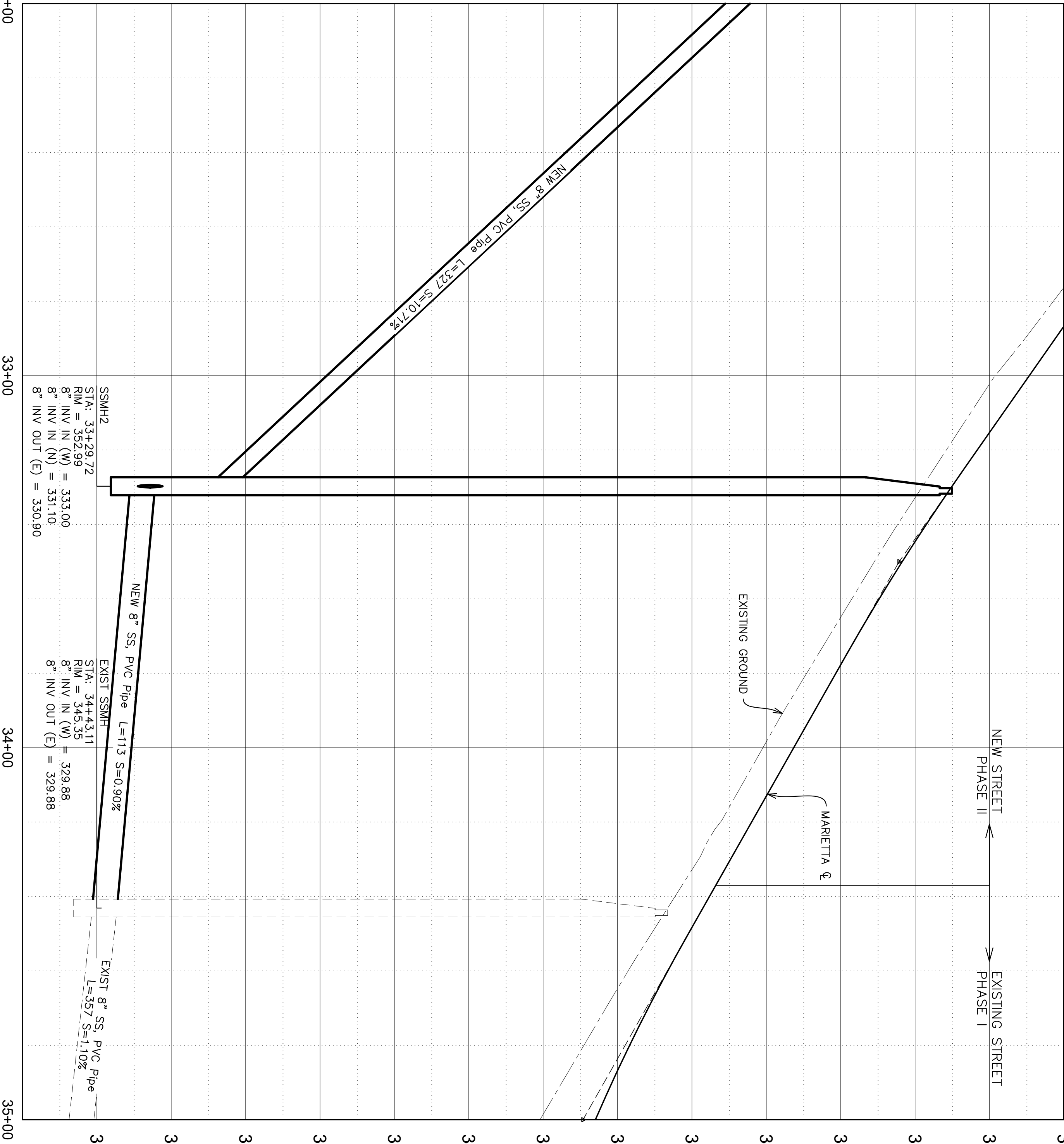
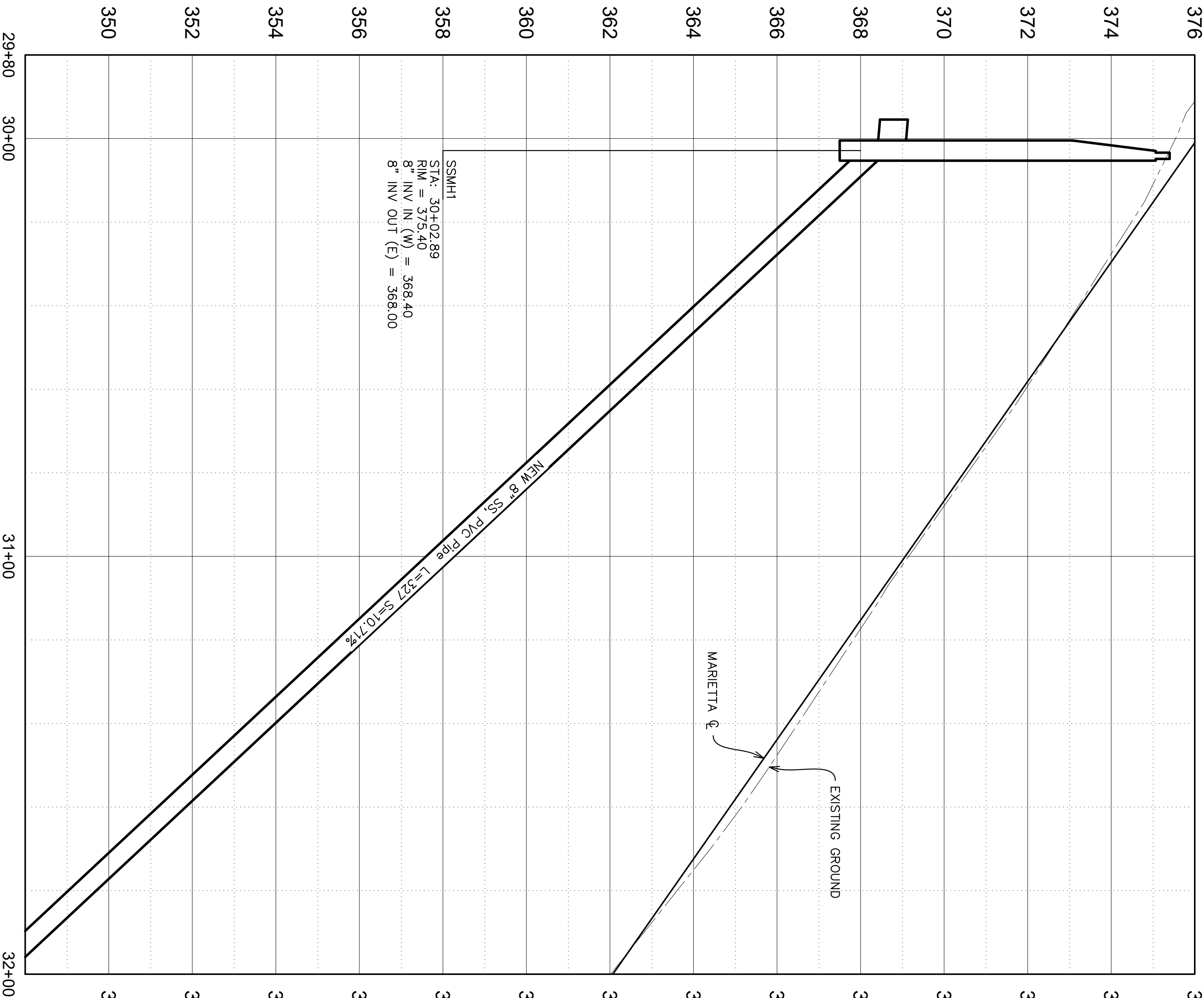
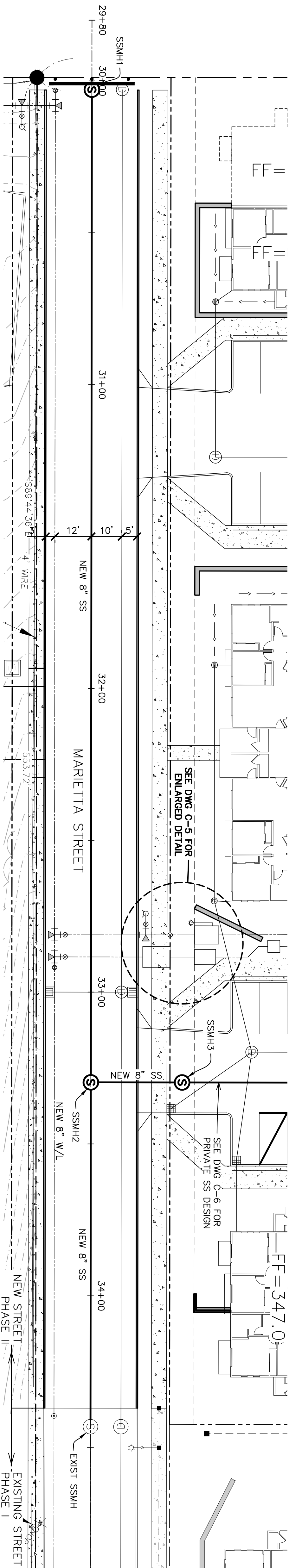
MARIETTA STREET
SIGNING, STRIPING, & LIGHTING

WE
WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS
3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

REGISTERED PROFESSIONAL ENGINEER
REVIEW
JULY 16, 1987
STEVEN A. WARD
RENEWS: 6/30/2026

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
DSN. SAW
DRN. AR
CKD. SAW
DATE: APR 2022

NO.	DATE	DESCRIPTION	BY
1			
REVISIONS			



MARIETTA SEWER PROFILE

1" = 20' H, 1" = 2' V

DRAWING
SS-1

JOB NUMBER
3352.0000.0

HOME FIRST DEVELOPMENT PARTNERS

GRAND FIR APARTMENTS PHASE II

MARIETTA STREET
SANITARY SEWER
PLAN-PROFILE

STA 29+80 TO STA 35+00

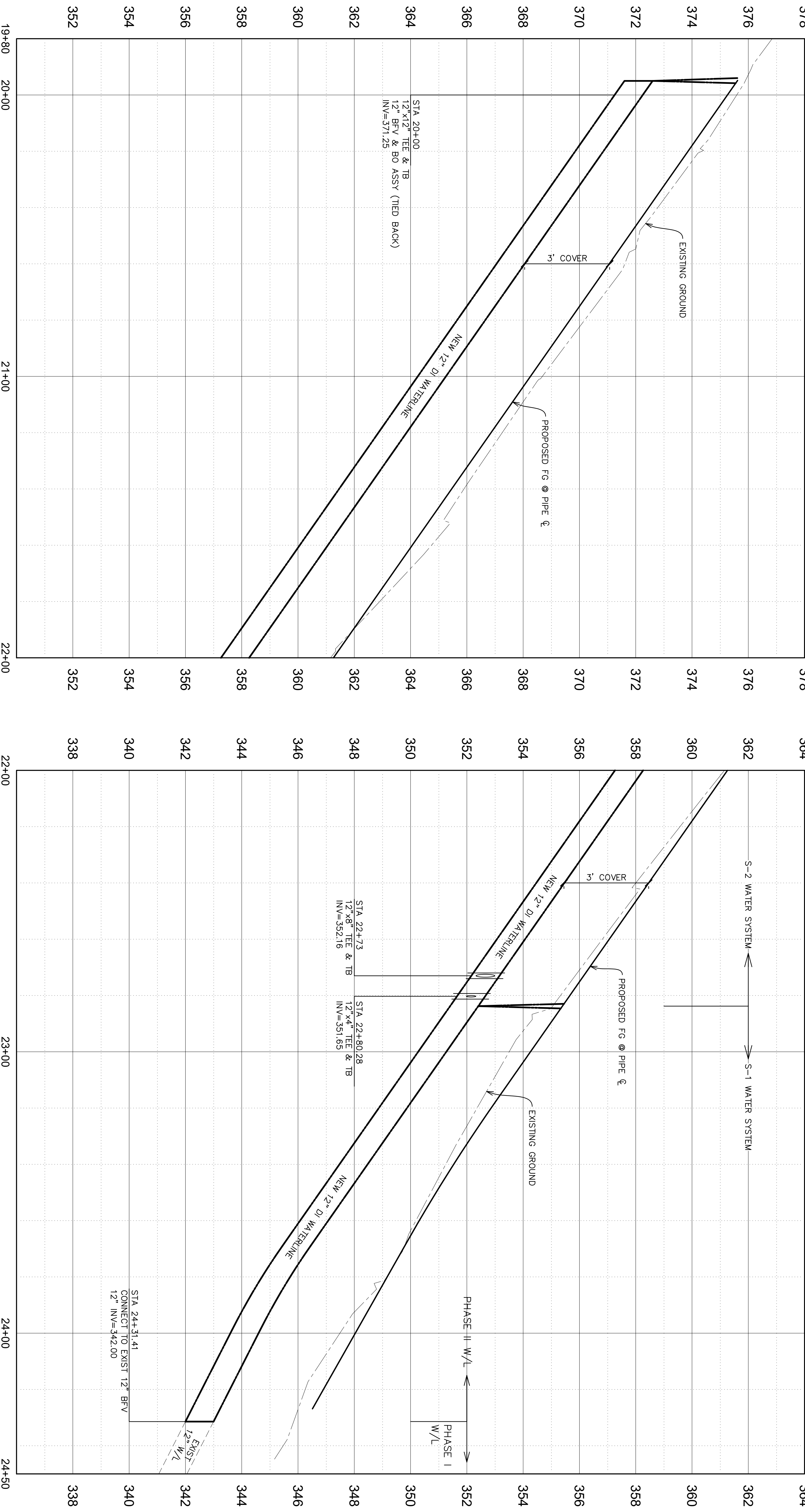
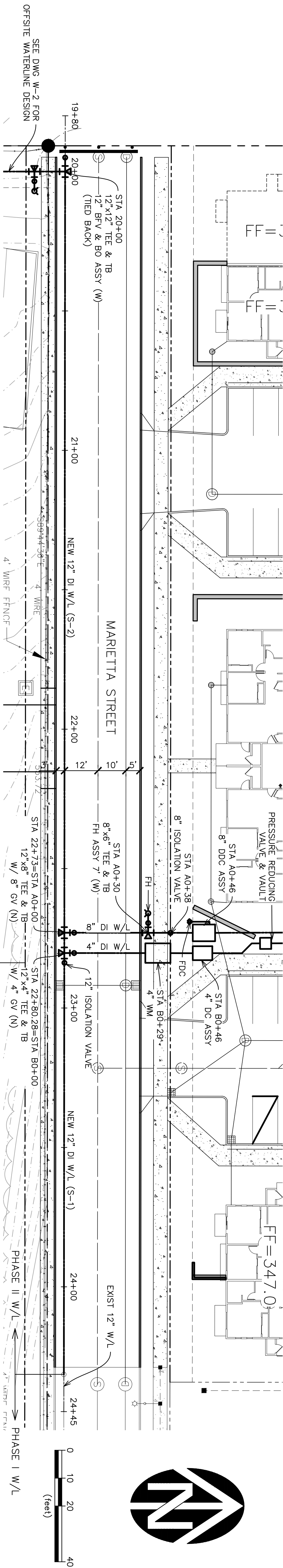
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Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

REVIEW
STEVEN A. WARD
RENEWS: 6/30/2026

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DSN.	SAW
DRN.	AR
CKD.	SAW
DATE:	APR 2022

NO.	DATE	DESCRIPTION	BY
1		REVISIONS	



MARIETTA WATERLINE PROFILE

1" = 20' H, 1" = 2' V

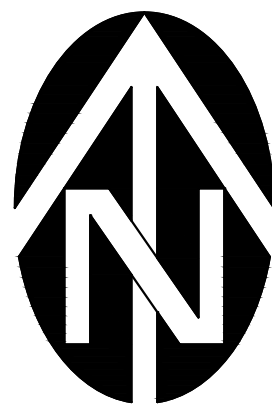
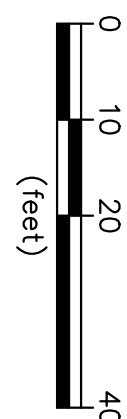
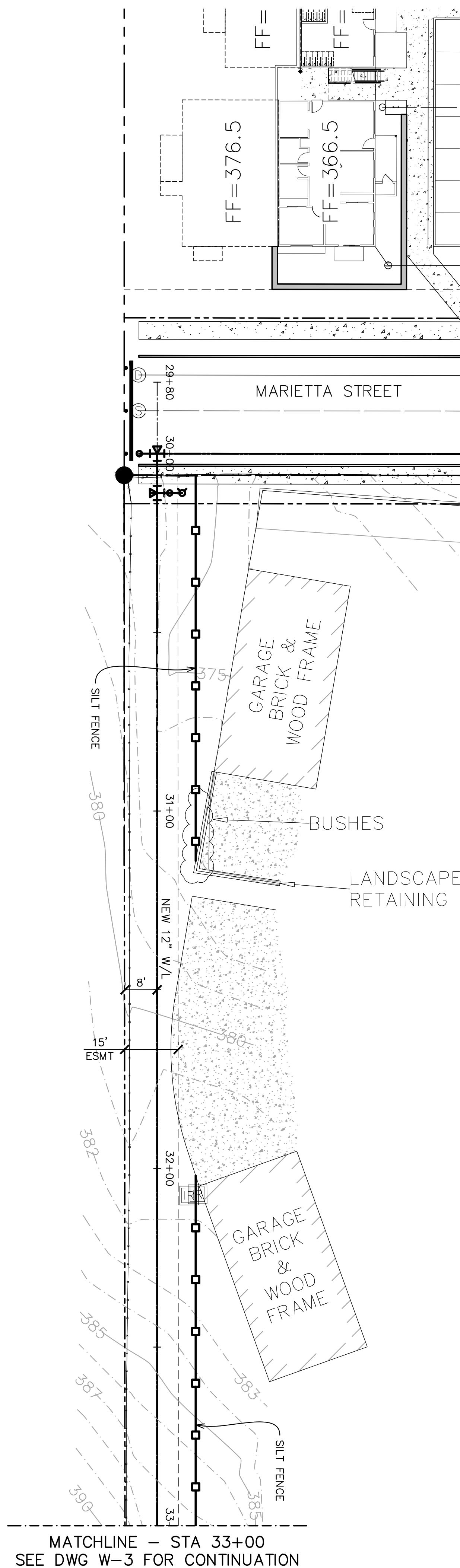
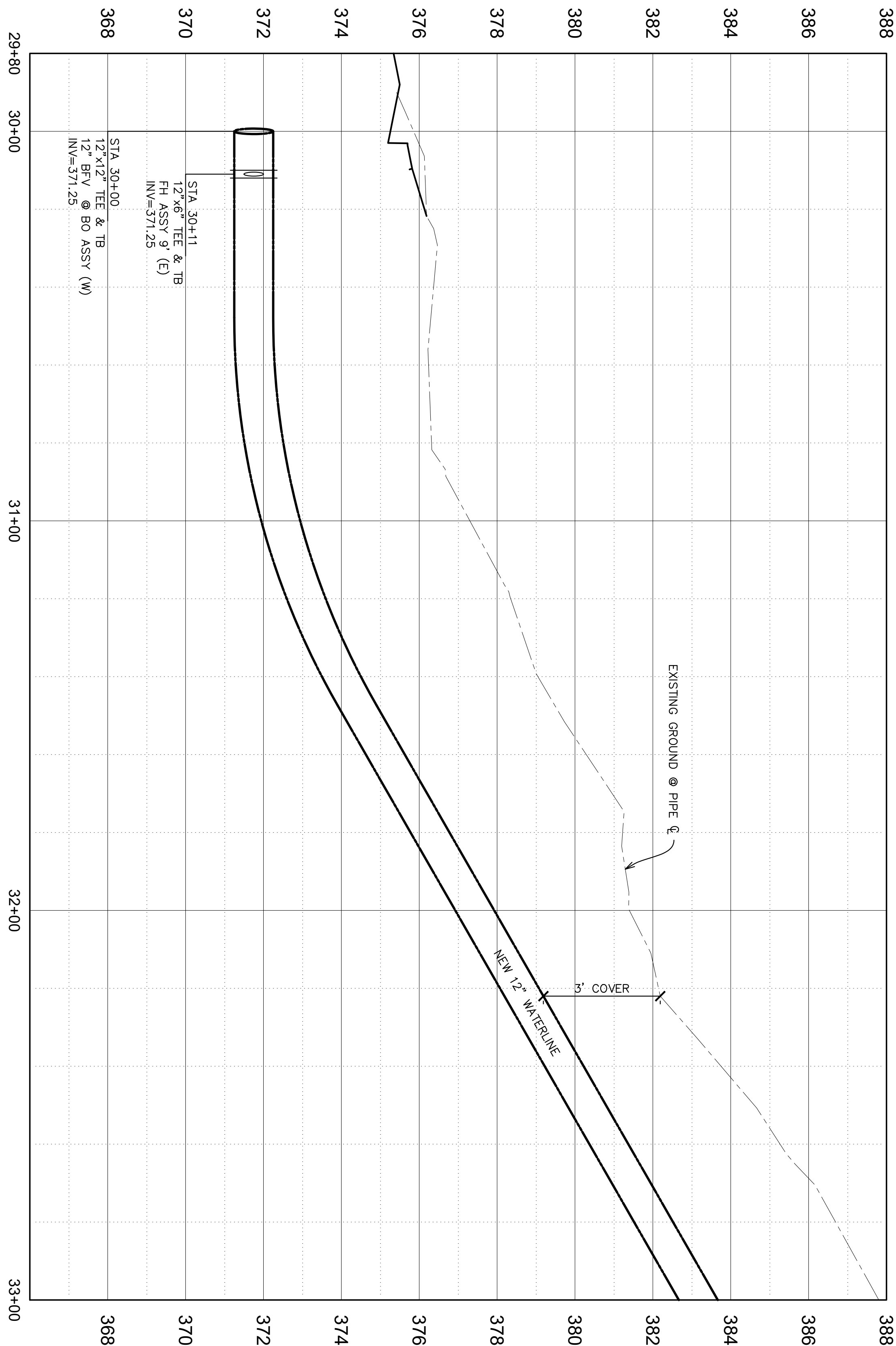
HOME FIRST DEVELOPMENT PARTNERS
GRAND FIR APARTMENTS PHASE II
**MARIETTA STREET
WATERLINE PLAN-PROFILE**
STA 19+80 TO STA 24+60

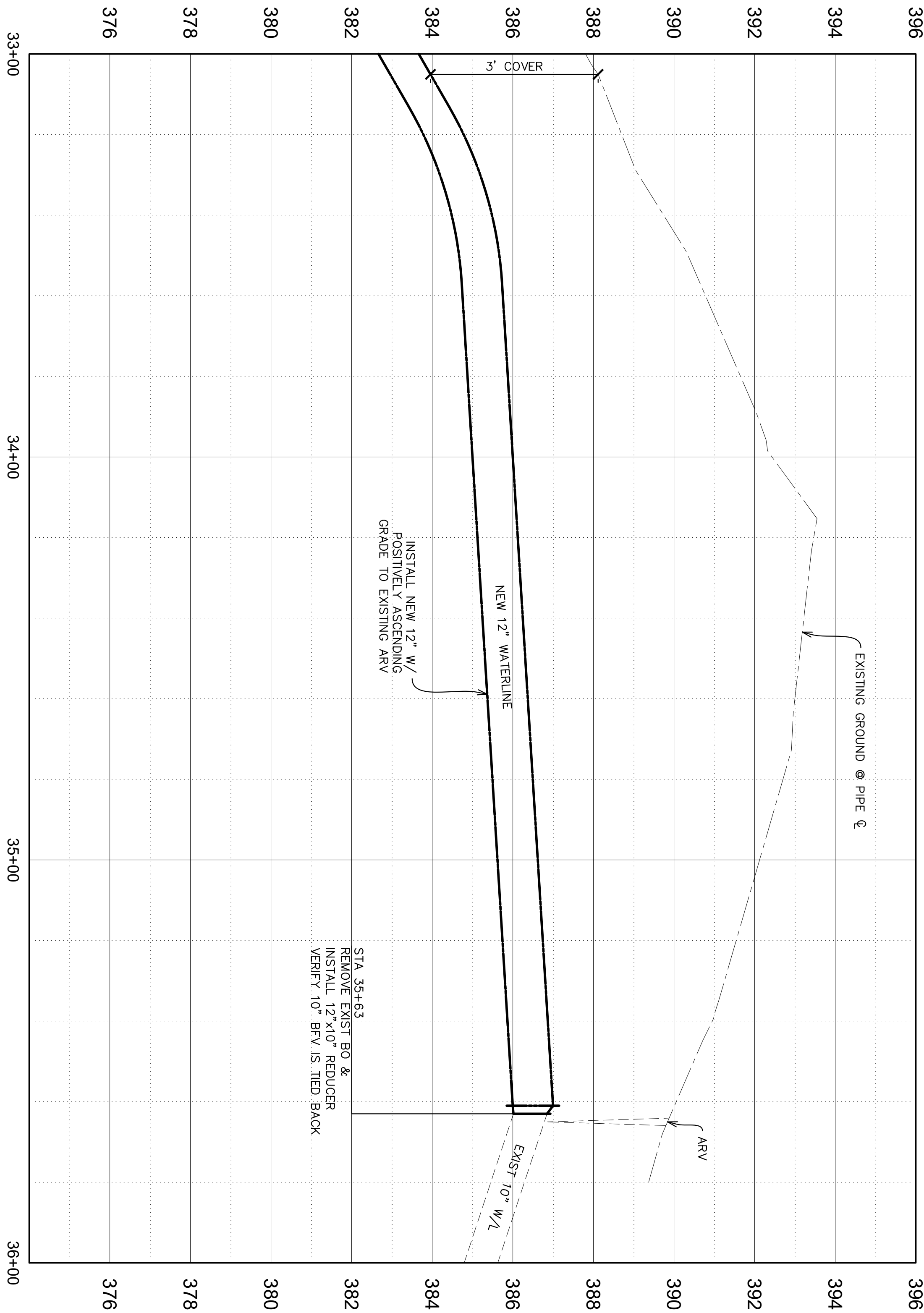
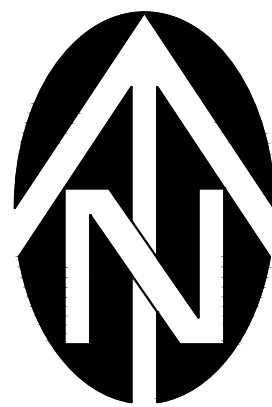
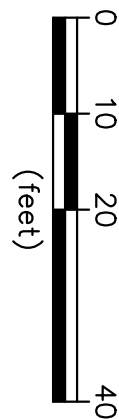
WESTECH ENGINEERING, INC.
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Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

REVIEW
STEVEN A. WARD
RENEWS: 6/30/2026

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DSN. SAW DRN. AR CKD. SAW DATE: APR 2022
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NO.	DATE	DESCRIPTION	BY
1			





OFFSITE WATERLINE PROFILE

 $1'' = 20' \text{ H}, 1'' = 2' \text{ V}$