

DRAWINGS FOR:

RIVERBEND ROAD SITE PHASE II
2499 WALLACE ROAD NW
SALEM, OR 97304

FOR:

SCOTT MARTIN CONSTRUCTION, LLC.
PO BOX 5850
SALEM, OR 97304

CONTACT: SCOTT MARTIN
503-931-1739

DRAWING INDEX

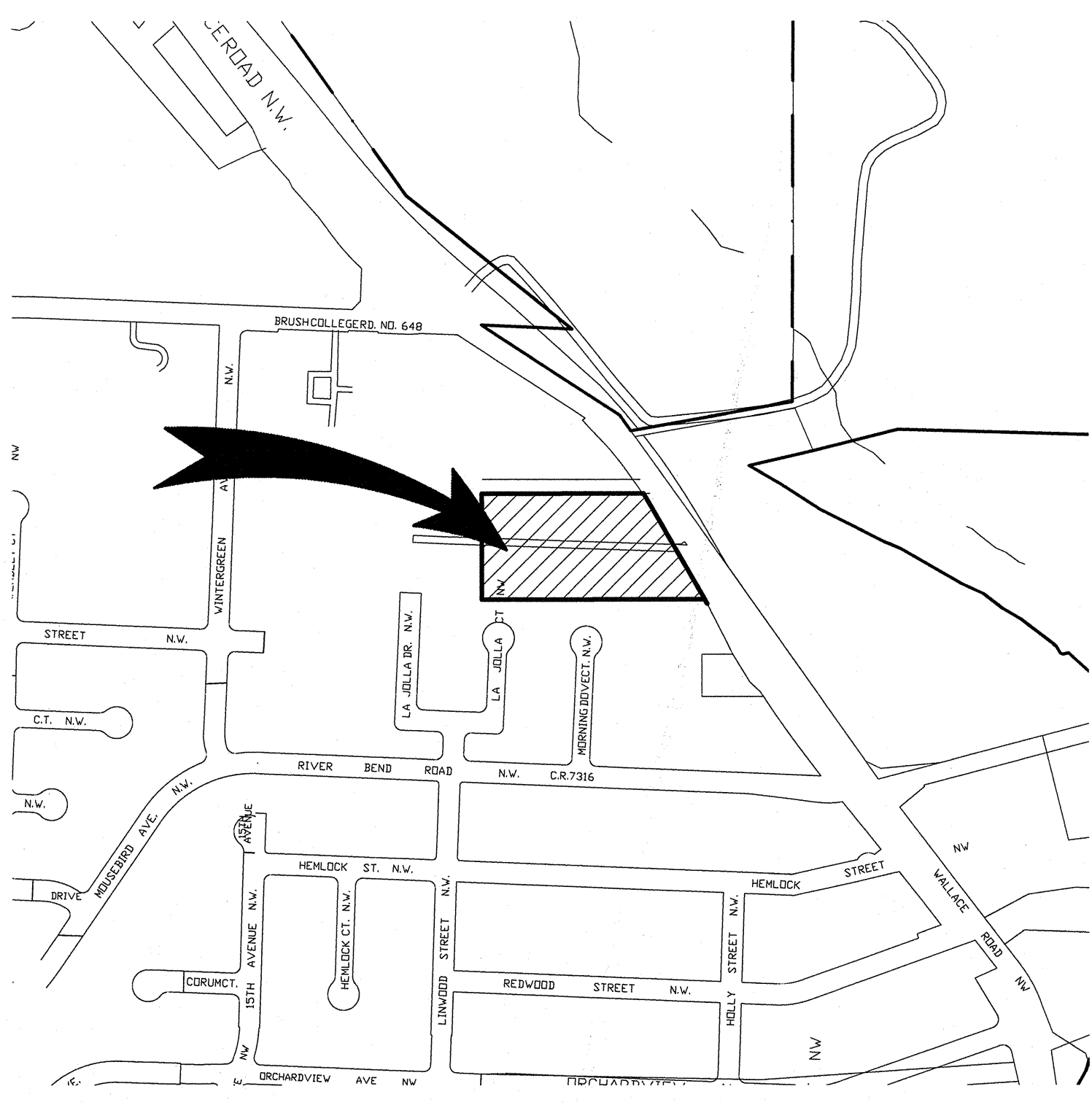
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BENCHMARK UTILIZED
ELEV: 178.12' NGVD29
SURVEY MAG NAIL BSC POINT #11001 IN ASPHALT AS SHOWN
ELEVATIONS ARE BASED ON GPS OBSERVATION WITH A VERTCON ADJUSTMENT
OF -3.36' FROM NAVD 88 TO NGVD 29 DATUM



Know what's below.
Call before you dig.

PROJECT LOCATION



VICINITY MAP

GENERAL LEGEND

ITEM	PROPOSED	EXISTING
SANITARY SEWER	—SS—	—SS—
STORM DRAIN	—SD—	—SD—
WATER	—W—	—W—
GAS	—G—	—G—
TELEPHONE	—T—	—T—
POWER	—P—	—P—
FENCE	—X—X—	—X—X—
BARRICADE	—X—X—	—X—X—
TELEPHONE MANHOLE	—T—	—T—
TELEPHONE PEDESTAL	—T—	—T—
SANITARY SEWER MANHOLE	—S—	—S—
STORM DRAIN MANHOLE	—D—	—D—
CATCH BASIN	—CB—	—CB—
FIRE HYDRANT AND VALVE	—FH—	—FH—
WATER METER	—WM—	—WM—
WATER VALVE	—WV—	—WV—
POWER POLE	—PP—	—PP—
POWER POLE W/ANCHOR	—PPA—	—PPA—
POLE W/LUMINARE	—PL—	—PL—
LIGHT POLE	—LP—	—LP—
SIGN POST	—SP—	—SP—
MAILBOX	—MB—	—MB—
HEDGE OR BRUSH	—HB—	—HB—
TREES	—T—	—T—
STREET OR ALLEY RIGHT OF WAY	—R/W—	—R/W—
PLATTED LOT LINE	—PL—	—PL—
OWNERSHIP LINE	—O—	—O—
EASEMENT OR TEMPORARY RIGHT OF WAY	—E—	—E—
PROJECT CENTERLINE AND	—2—3—4—5—	—2—3—4—5—

SCALE

HORIZ: VERT:

DSN: SAW
DRN: AR
CDD: SAW

1 08/13/21 PER DEQ COMMENTS/ADDED FIRE ACCESS PLAN

NO. DATE DESCRIPTION

REVISIONS

REGISTERED PROFESSIONAL ENGINEER

1188

WESTTECH ENGINEERING, INC.

CONSULTING ENGINEERS AND PLANNERS

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SCOTT MARTIN

RIVERBEND ROAD SITE PHASE II

COVER SHEET,

VICINITY & LOCATION MAPS,

& SHEET INDEX

DRAWING

C1.0

JOB NUMBER

3048.3002.0

GENERAL NOTES:

- Contractor shall procure and conform to all construction permits required by the City of Salem and ODOT.
- Owner to pay all project permit costs, including but not limited to utility topping, TV, and chlorination costs. The Contractor shall coordinate with the Approving Agency to determine appropriate fees and provide the Owner with 48 hours notice prior to the required payment of fees or costs.
- 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 503-232-1937).
- Contractor to notify City, ODOT 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.
- Contractor shall procure a right-of-entry permit from ODOT State Highway Division for all work within the State right-of-way and conform to all conditions of the permit.
- 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.
- For City Construction Permits, contact Salem Public Works Engineering Construction Management at 588-6211. For City Building Permits, contact Salem Permit Application Center at 588-6256.
- Contractor to apply and pay for services at the Permit Application Center (PAC office) for work to be done by City forces on public mains.
- 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, Oregon Health Division (OHD) and the Oregon Department of Environmental Quality (DEQ).
- 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.

- The Contractor shall perform all work necessary to complete the project in accordance with the approved construction drawings including such incidents as may be necessary to meet the Approving Agencies' requirements and provide a completed project.

- Any inspection by the City, ODOT 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.

- Contractor shall maintain one complete set of approved drawings on the construction site at all times wherein he will record all approvals and the construction drawings, as well as the construction drawings, and the 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.

- Upon completion of construction of all new facilities, Contractor shall submit a clean set of field record drawings containing all the information shown on the construction drawings, as well as the construction drawings, and the depths of all existing utilities encountered. These field record drawings are noted, an as-built survey prepared and stamped by a registered professional Land Surveyor shall be completed at the Contractor's expense.

- Contractor shall procure and conform to DEQ stormwater permit No. 1200C for construction activities where 1 acre or more are disturbed.

- 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 line and grades and/or easements shown on the drawings. Staking for buildings, structures, curbs, and/or 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.

- See architectural drawings for site lighting, and continuation of all utilities.

TRAFFIC CONTROL:

- Contractor shall erect and maintain barricades, warning signs, traffic cones (and all other traffic control devices required) per City, and ODOT 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 Agency for review and issuance of a Lane Closure or Work in Right-of-Way Permit.

- 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 a 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:

- 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 unexpected work.

- 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.

EXISTING UTILITIES & FACILITIES:

- 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.

- 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.

- 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 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.

- 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.

- All facilities shall be maintained in-place by the Contractor unless otherwise shown or directed. Contractor shall take all precautions necessary to protect existing utilities and other facilities located on the drawings 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.

- 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.

- 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.

- 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, until 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.

- Any septic tanks encountered during construction shall be pumped out. Contractor shall break bottom of tank out and backfill with pea gravel unless otherwise required by public agencies having jurisdiction. Septic tank removal to be in accordance with County Sanitation requirements.

- Any wells encountered shall be abandoned per State of Oregon Water Resources Department requirements.

- Any fuel tanks encountered shall be removed and disposed of per State of Oregon DEQ requirements. Backfill with compacted granular material.

- 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:

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

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

- Unless otherwise noted, all grading, rockings and paving to conform to Oregon Standard Specifications for Construction (OSSC/ODOT/APWA), 2008 edition.

- 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.
- 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.

- 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.

- Unless otherwise required by Salem Standard Construction Specifications, Engineered fills shall be constructed and compacted in 6" lifts after 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).

- 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.

- 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.

- 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, AC pavement for parking lots and streets shall be Level 2 mix (50 blow/street) 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 babs. 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.

- 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 achieved. Bituminous mixtures be placed when the surface temperature is below the minimum established under 2008 OSSC (ODOT/APWA) 00744.40 (AC – Season and Temperature Limitations) or the project specifications, whichever is more stringent.

- Contractor shall protect new pavement against traffic as required, until it has cooled sufficiently to avoid tracking.

- 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.

- 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 shown cross sidewalks, slopes shall be adjusted to ensure that maximum allowable sidewalk cross slopes are not exceeded).

- 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.

- 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.

- Unless otherwise shown on the drawings, no cut or fill slopes shall be constructed steeper than 3H:1V.

- All planter areas, shall be backfilled with approved topsoil minimum 8" thick. Stripping materials may be used for planter backfill.

- Contractor shall seed and mulch (uniformly by hand or hydrosseed) 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 Representative may (at his discretion) require the Contractor to install sod to cover such disturbed areas.

CURBS & SIDEWALKS:

- Unless otherwise shown or indicated on the drawings, 6-inches nominal curb exposure used for design of all parking lot and street grade.

- Where new curbing connects to existing curbing or is installed along existing streets or pavement, the gutter grade shall be maintained at the gutter grade shown on the drawings, and the gutter grade shall be maintained through any transitions. The Contractor shall notify the Owner's Representative in writing of any grade discrepancies or problems prior to curb placement.

- 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.

- Contractor shall construct all handicap access ramps in accordance with current ADA requirements.

- 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 3,300 psi concrete, and shall be cured with Type 1 or Type 10 clear curing compound. All sidewalks shall be ADA compliant.

- 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) 000440.40-d & 00756.40 or the project specifications, whichever is more stringent.

- Contraction joints shall be installed directly over any pipes that cross under the sidewalk, to control cracking. In general, cracks in new curbs and 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.

- All sidewalks shall be ADA 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%).

- Where trench excavation requires removal of PCC curbs and/or sidewalks, the curbs and/or sidewalks shall be sawcut and removed at a tooted 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.

- 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 hydrosseeded).

PIPED UTILITIES:

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

- 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.

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

- 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 soils, buildings, etc.

- 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 bedding to 92% of the maximum dry density per AASHTO T-180 test method (Modified Proctor).

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

- 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.

- 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.

- 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.

- 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.

- 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.

- 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:

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

- All public water mains larger than 4-inches shall be class 50 ductile iron. All 4-inch water mains shall be class 52 ductile iron.

- All private water mains shall be Class 50 ductile iron or C-900 PVC (DR 18).

- 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 AWWA C-110 MJ cast iron or ductile iron fittings 4-inches through 24-inches in diameter shall be 350 psi for MJ fittings and 250 psi for flanged fittings.

- 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.

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

- 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.

- 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.

- Unless otherwise noted, water service pipe 3-inch and smaller on the private side of the meter shall be Schedule 40 PVC. Water service pipe 4-inches and larger on the private side of the meter shall be ASTM D2241 DR 21 (200 psi), with rubber gaskets conforming to ASTM F477. Unless otherwise specified, private water service piping shall be hydrostatically pressure tested to a minimum of 150% of the maximum static pressure at the site. All materials and workmanship for all private water lines, including water lines located within any building envelope, shall be installed in conformance with Uniform Plumbing Code requirements. All water service pipe on the private side of the meter shall be installed by a licensed plumber in accordance with Uniform Plumbing Code requirements.

- 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.

- 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.

- 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.

- 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 sewer laterals within this zone shall be protected by the installation 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.

- 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 verified.

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

- 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 will 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 (i.e. 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.

- 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:

- 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.

- 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 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.

- Manhole channels depths (sewer & storm) shall be to the heights shown on the drawings, but in no case shall be 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.

- Manholes constructed over existing sanitary sewers shall conform to the requirements of OSSC (ODOT/APWA) 480.41, Manholes over Existing Sewers. The existing pipe shall not be broken out until after the completion of the manhole test.

SANITARY SEWER SYSTEM:

- Unless otherwise specified, sanitary sewer pipe shall be solid wall PVC in conformance with ASTM D3034, SDR 35 (S17) or ASTM F-797, PS 46 (s18). Minimum stiffness shall be 46 psi per ASTM D-2412 and joint type shall be elastomeric gasket conforming to ASTM D-3212. All other opportunities 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.

- 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.

- Contractor shall provide all necessary materials, equipment and facilities to test sanitary sewer pipe and appurtenances for leakage in accordance with the 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.

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

- 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.

- 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 (VHS video tape acceptable only upon prior written approval by the Approving Agency). 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:

- Storm sewer pipe materials shall conform to the construction drawings and Approving Agency's requirements. Unless otherwise specified, 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.

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

- 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.

- Unless otherwise approved by the Engineer, all storm drain connections shall be by manufactured tees or saddles.
- Unless otherwise shown on the drawings, all storm pipe inlets & outfalls shall be beveled flush to match the slope wherein they lie.

- 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.

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

- 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.

- 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.

- 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 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.

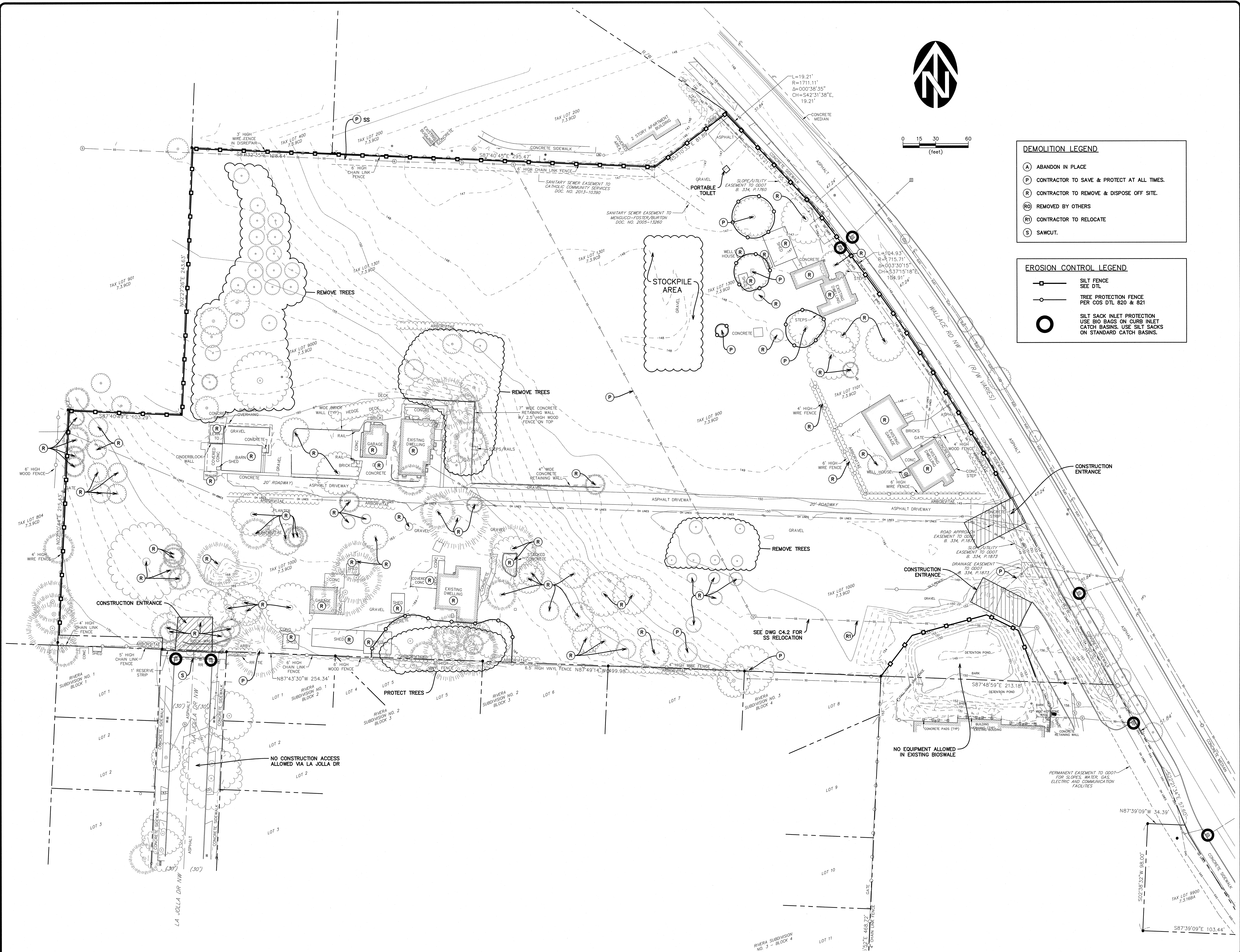
- Prior to acceptance, the Owner's Representative may lamp storm lines upstream & downstream of structures to verify that the pipes are clean and there is no grout or concrete in the mainlines, and that there are no observable bellies in the line. When necessary, sufficient water to reveal low areas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

PUBLIC STREET LIGHTS:

- 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.

- Streetlight poles shall be set to a depth as specified by the manufacturer, but not less than 5 feet.
- Street light poles shall be installed within one degree (1°) of plumb.

- Contractor and franchise utility companies shall conform to SCS Section 309 for all street lighting installation.

[illegible]

SCOTT MARTIN
RIVERBEND ROAD SITE PHASE II

DRAWING
C2.0
JOB NUMBER
3048.3002.0

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- 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					
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 NRCS CO. SOIL SURVEY THE SITE SOILS INCLUDE, "AMITY SILT LOAM, WOODBURN SIL LOAM (0% TO 3% SLOPES)"

EROSION HAZARD: PER NRCS CO. SOIL SURVEY EROSION HAZARD RANGES FROM IS "SLIGHT".

SITE AREA: 7.60 Ac

DISTURBANCE AREA: 7.60 Ac

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

Spill Prevention Procedures and Response

- This data will be posted in an accessible area at the site

1. Spill kit to be located near the job trailer or another conspicuous location and clearly marked.
2. Get the spill kit.
 - a. If possible, determine visually what types of fluids have been spilled.
 - b. Put on gloves and glasses or any other necessary Personal Protective Equipment (PPE).
 - c. Get the absorbent material provided in the kit and the drain block cover.
 - d. Place the absorbent materials in the path of the spill.
 - e. Remove any debris from the vicinity of the inlet where the spill is draining.
 - f. Unroll the drain block cover and place it snug over the inlet.
 - g. Verify that the cover has full contact with the rim of the inlet.
 - h. Use snakes, pillow or pigs to completely contain the area.

- i. Any amount of oil to waters of the state;
- ii. Oil spills on land in excess of 42 gallons;
- iii. Hazardous materials that are equal to, or greater than, the quantity listed in the Code of Federal Regulations, 40 CFR Part 302 (List of Hazardous Substances and Reportable Quantities), and amendments adopted before July 1, 2002

Responsible Personnel


Waste Management Procedures

1. Locate activities that include waste products away from waters of the state and stormwater inlets or conveyances so that stormwater coming into contact with these activities cannot reach waters of the state.
2. Ensure adequate supplies are available at all times to handle spills, leaks, and disposal of liquids, and to clean up spills.
3. Have a spill kit available on site and ensure personnel are available to respond expeditiously in the event of a leak or spill.
4. Clean up any spill or contaminated surfaces immediately using dry clean up measures (do not clean contaminated surfaces by hosing the area down), and eliminate the source of the spill to prevent a recurrence.
5. Store materials in a covered area (e.g., plastic sheeting, temporary roofs), or in secondary containment to prevent the exposure of these containers to precipitation or stormwater runoff, or a similarly effective method.
6. Building Materials & Building Products: Minimize material exposure in cases where the exposure to rain or snow or other weather conditions will result in a discharge of pollutants (e.g. elevate materials from soil to prevent leaching of pollutants).

Comply with all application and disposal requirements included on the registered pesticide, herbicide, insecticide, and fertilizer label. When applying fertilizers, registrants must:

- Authorized non-stormwater discharges anticipated for the proposed project:

- Potential pollutant-generating activities anticipated for the proposed project including an inventory of pollutants for each activity:

- | | | | | | | | |
|---------------------------|--|---------------------------------|--|------------------------------|--|--|--|
| DRAWING
C2.1 | | SCOTT MARTIN | | RIVERBEND ROAD SITE PHASE II | |  <p> WESTERICH ENGINEERING, INC.
 CONSULTING ENGINEERS AND PLANNERS
 3841 Forvieve Industrial Dr., S.E., Suite 100, Salem, OR 97302
 Phone: 503.596.1000 Fax: 503.596.3986
 E-mail: westerich@westerich-eng.com </p> | |
| JOB NUMBER
3048.3002.0 | | EROSION CONTROL NOTES & DETAILS | | | | | |

1. Erosion control measures shall be maintained in such a manner as to ensure that sediment and sediment-laden water does not enter the drainage system, roadways, or violate applicable water quality standards.
2. The erosion control construction, maintenance, replacement and upgrading of the erosion control facilities is the responsibility of the Contractor. Until all construction is completed and approved, and permanent erosion control (i.e. vegetation/landscaping) is established on all disturbed areas.
3. All recommended erosion control procedures are dependent on construction methods, staging, site conditions, weather and scheduling. During the construction period, erosion control facilities shall be upgraded as necessary due to unexpected storm events and to ensure that sediment and sediment laden water does not leave the site.
4. The Contractor is responsible for control of sediment transport within project limits. If an installed erosion control system does not adequately contain sediment on site, then the erosion control measures shall be adjusted or replaced by the Contractor as necessary to ensure that sediment laden water does not leave the site. Additional measures shall be provided as required to ensure that all paved areas are kept clean for the duration of the project. Additional interim measures will include, at a minimum, installation of silt fences in accordance with the details shown on the drawings. These measures shall be installed along all exposed embankments and cut slopes to prevent sediment transport.
5. All existing and newly constructed storm inlets and drains shall be protected until pavement surfaces are completed and/or vegetation is established.
6. Erosion control facilities and sediment fences on active sites shall be inspected by the Contractor at least daily during any period with measurable precipitation. Any required repairs or maintenance shall be completed immediately. The erosion control facilities on inactive sites shall be inspected and maintained by the Contractor a minimum of once a month or within 24 hours following the start of a storm event.
7. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment-laden water into the downstream system. The Contractor shall remove all accumulated sediment from all impacted catch basins and storm pipes prior to acceptance by the Owner.
8. The Contractor is solely responsible for protection of all adjacent property and downstream facilities from erosion and siltation during project construction. Any damage resulting from such erosion and siltation shall be corrected at the sole expense of the Contractor.
9. The Contractor shall provide site watering as necessary to prevent wind erosion of fine-grained soils.
10. Unless otherwise indicated on the drawings, all temporary erosion control facilities, including sediment fences, silt socks, bio-bags, etc. shall be removed by the Contractor within 30 days after permanent landscaping/vegetation is established.
11. Sediment fences shall be constructed of continuous filter fabric to avoid use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum 6-inch overlap, and both ends securely fastened to a post.
12. Sediment fence shall be installed per drawing details. Sediment fences shall have adequate support to contain all silt and sediment captured.
13. The standard strength filter fabric shall be fastened securely to stitched loops installed on the upslope side of the posts, and 6 inches of the fabric shall be extended into the trench. The fabric shall not extend more than 30 inches above the original ground surface. Filter fabric shall not be stapled to existing trees.
14. Bio-filter bags shall be clean 100 percent wood product waste. Bags shall be 18-inch x 18-inch x 30-inch, weigh approximately 45 lbs., and be contained in a bag made of 1/2-inch plastic mesh.
15. Sediment barriers shall be maintained until the up-slope area has been permanently stabilized. At no time shall more than 10-inches of sediment be allowed to accumulate behind sediment fences. No more than 2 inches of sediment shall be allowed to accumulate behind sediment barriers. Sediment barriers shall be removed prior to reaching the above stated depths. New sediment barriers shall be installed uphill as required to control sediment transport.
16. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures may be required to ensure that all paved areas are kept clean for the duration of the project.
17. The Contractor shall verify that all trucks are well sealed when transporting saturated soils from the site. Water drip/leak from trucks transporting saturated soils must be reduced to less than 1 gallon per hour prior to leaving the site.
18. The entrance shall be maintained in a condition that will prevent tracking or flow of mud onto the public right-of-way or approved access point. The entrance may require periodic top dressing as conditions demand, and repair and/or cleanout of any structures used to trap sediment.
19. All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains must be removed immediately, and the Contractor shall provide protection of downstream inlets and catch basins to ensure sediment laden water does not enter the storm drain system.
20. Temporary grass cover measures must be fully established by October 15th, or other cover measures (i.e. erosion control blankets, geotextiles, anchors, geogrids, straw mulch, or 6-mil HDPE plastic sheet, etc.) shall be in place over all disturbed soil areas until April 30th. To establish an adequate grass stand for controlling erosion by October 15th, it is recommended that seeding and mulching occur by September 1st. Grass mulch, if used, shall not leave any bare areas.
21. Minimum wet weather slope protection. For slopes 2:1H or steeper, use Tensar/North American Green Type SC150 erosion control blanket. For slopes 2:1H or 3:1H, use Tensar/North American Green Type SC150 erosion control blanket. Use the minimum of 2-inches straw mulch or Tensar/North American Green Type S150 for slopes 2:1H or 3:1H. Straw mulch shall be placed on all disturbed areas immediately after completion of each section of construction activity, until the erosion control seeding has been established. As an option during temporary or seasonal work stoppages, a 6-mil HDPE plastic sheet may be placed on exposed slopes. The plastic sheet shall be secured with an anchor at the top and bottom of the slope, and shall be sandbagged on the slopes as required to prevent damage or displacement by wind.
22. Permanent erosion control vegetation on all embankments and disturbed areas shall be re-established as soon as construction is completed.
23. Soil preparation. Topsoil should be prepared according to landscape plans, if available, or recommendations of grass seed supplier. It is recommended that slopes be textured before seeding by rack walking (i.e. driving a crawling tractor up and down the slopes to leave a pattern of clean imprints parallel to slope contours) or other method to provide a stable area for seeds to settle.
24. When used, hydromulch shall be applied with grass seed at a rate of 2000 lbs. per acre between April 30 and June 10, or between September 1 and October 1. On slopes steeper than 10 percent, hydromulch and mulch shall be applied with a bonding agent (tackifier). Application rate and methodology to be in accordance with seed supplier recommendations.
25. When used in lieu of hydromulch, dry, loose, weed free straw used as mulch shall be applied at a rate of 4000 lbs per acre. The straw shall be applied by hand or with equipment (rollers, sickle tractors, etc.). Mulch shall be spread uniformly immediately following seeding.
26. When conditions are not favorable to germination and establishment of the grass seed, the Contractor shall irrigate the seeded and mulched areas as required to establish the grass cover.
27. Seeding. Recommended erosion control grass seed mix is as follows. Dwarf grass mix (low height, low maintenance) consisting of dwarf perennial ryegrass (80 % by weight), creeping red fescue (20 % by weight). Application rate shall be 100 lbs. per acre minimum.
28. Grass seed shall be fertilized at a rate of 10 lbs. per 1000 S.F. with 16-16-16 slow release type fertilizer. Development areas within 50 feet of water bodies and wetlands must use a non-phosphorous fertilizer.
29. Prior to starting construction contractor shall acquire the services of a DEQ Certified Erosion and Sediment Control Inspector and shall submit an Action Plan to DEQ identifying their names, contact information, training and certification.
30. Contractor shall submit "Notice of Termination" to DEQ to end the 1200-C permit coverage once all soil disturbance activities have been completed, and final stabilization of exposed soils has occurred.

Division 007 Appendix A—EPSC Plan Standard Notes

- (1). Prior to any land disturbing activities, the boundaries of the clearing and grading limits, vegetated buffers, and any sensitive areas shall be clearly delineated in the field. Unless otherwise approved, no disturbance is permitted beyond the clearing limits. The Contractor must maintain the delineation for the duration of the project. Note: vegetated corridors to be delineated with orange construction fence or approved equal.
- (2). BMPs that must be installed prior to land disturbing activities are construction entrance, perimeter sediment control, and inlet protection.
- (3). Hold a preconstruction conference to review the EPSCP and with the City's Project Manager and Inspector.

(b) CONSTRUCTION

- (1). All sediment is required to stay on site. Sediment amounts greater than 1/2-cubic foot which leave the site must be cleaned up within 24 hours and placed back on the site and covered or properly disposed. Sediment that is not swept must be used to clean, resurface, sediment and it may not be swept or washed into storm sewers, drainage ways, or water bodies. The cause of the sediment release must be found and prevented from re-occurring. The cause of the discharge within the same 24-hour period must be found and prevented from re-occurring. Any in-stream clean up of sediment shall be performed according to the DSL required time frame.
- (2). Construction, maintenance, replacement, and upgrading of erosion prevention and sediment control facilities is the sole responsibility of the Contractor until all construction is completed, approved, and permanent erosion control (i.e., vegetation/landscaping) is established on all disturbed areas.
- (3). All recommended erosion prevention and sediment control procedures are dependent on construction methods, staging, site conditions, weather, and scheduling. During the construction period, erosion control facilities shall be installed, upgraded, or added, as needed, to comply with SRC and State and Federal regulatory requirements.

(4). The Contractor is solely responsible for protection of all adjacent property and downstream facilities from erosion and siltation during project construction. Any damage resulting from such erosion and siltation shall be corrected at the sole expense of the Contractor.

(6). All materials spilled, dropped, or washed into storm drains must be removed immediately, and the Contractor shall provide protection of downstream inlets and catch basins to ensure sediment-laden water does not enter the storm drain system.

(8). In areas subject to wind erosion, appropriate BMPs must be used which may include the application of fine water spraying, plastic sheeting, mulching, or other approved measures.

(10). The contractor shall provide onsite water or other appropriate BMPs to prevent dust and wind erosion of fine grain soils.

(12). During the wet weather work period or when rain is forecasted, all active and inactive soil stock piles must be covered with appropriate plastic sheeting. Plastic sheeting must cover the entire stock pile and be sufficiently anchored.

(1). Any use of toxic or other hazardous materials must include proper storage, application, and disposal.

(3). Contractor shall develop a project specific written spill prevention and response procedures that includes employee training on spill prevention and proper disposal procedures; regular maintenance schedule for vehicles and machinery; and material delivery and storage controls, signage, material use, and use of covered storage areas for waste and supplies. The plan shall comply with SRC and Federal and State requirements, and shall be available on site at all times.

(1). Construction activities must avoid or minimize the duration of disturbed areas.

(3). Temporary stabilization or covering of soil stockpiles and protection of stockpiles located away from construction activity must occur at the end of each workday.

(1). Erosion control measures shall be maintained in such a manner as to ensure that erosion is prevented and sediment-laden water does not enter a drainage system, roadway, or violate applicable water quality standards.

(3). Sediment must be removed from behind all sediment control measures when it has reached a height of $1/3$ the barrier height, and prior to the control measures removal.

(4). Removal of trapped sediment in a sediment basin or sediment trap or catch basins must occur when the sediment retention capacity has been reduced by 50 percent; is not functioning properly and/or at the completion of project.

(5). Cleaning of all structures, inlet protection BMPs, and sump pumps must be completed regularly and as required to ensure structures and inlets function properly and flow freely.

(6). Construction site exits shall be maintained in a condition that will prevent tracking or flow of mud onto the ROW or approved access point. The entrance may require periodic top dressing as conditions demand, and repair and/or cleanout of any structures used to trap sediment. Wheel washing shall be required to prevent sediment and material tracking on road surfaces if passive BMPs are not effective.

(1). The EPSCP must be kept onsite at all times. All measures shown on the plan must be installed properly to ensure compliance with SRC and State and Regulatory permits, and that sediment does not enter a surface water system, roadway, or other properties.

(2). Written EPSC inspection logs shall be maintained onsite and available to City inspectors upon request.

(3). All BMPs shall be inspected at least every week. When a rainfall event exceeds 1/2-inch in a 24-hour period, daily inspection of the erosion controls, sediment controls, and discharge outfalls must be conducted and documented. Inspections shall be done by a representative of the permit registrant who is knowledgeable and experienced in the principles, practices, installation, and maintenance of erosion and sediment controls.

(1). Should work cease in any area for 14 days, the inactive area must be stabilized with appropriate soil stabilization BMPs. If all construction activity ceases the entire site must be temporarily stabilized using vegetation, heavy mulch layer, temporary seeding, or other method.

(2). All temporary erosion prevention and sediment control facilities shall be removed by the contractor within 30 days after permanent landscaping/vegetation is established and the threat of erosion and sediment transport has been mitigated.

(3). Temporary grass cover measures must be fully established by October 15 or other cover measures (i.e., erosion control blankets with anchors, one-inch of straw mulch, six mil HDPE plastic sheet, etc.) shall be in place over all disturbed soil areas until April 30. To establish an adequate grass stand for controlling erosion by October 15, it is recommended that seeding and mulching occur by September 1.

(4). Permanent erosion control vegetation on all embankments and disturbed areas shall be re-established as soon as construction is completed.

(1). Soil preparation. Topsoil should be prepared according to the landscape plans, if available, or recommendations of the grass seed supplier. Slopes shall be textured before seeding by rack walking (i.e., driving a crawling tractor up and down the slopes to leave a pattern of cleat imprints parallel to slope contours) or other method to provide stable areas for seeds to rest.

(2). Seeding. Erosion control grass seed mix shall be as follows: Dwarf grass mix (low height, low maintenance) consisting of dwarf perennial ryegrass (80 percent by weight), creeping red fescue (20 percent by weight). Application rate shall be 100 pounds per acre minimum.

(3). Grass seed shall be fertilized at a rate of ten pounds per 1,000 square feet with 16-16-16 slow release type fertilizer. Disturbed areas within 50 feet of water bodies and wetlands must use a non-phosphorous fertilizer.

(4). The application rate of fertilizers used to reestablish vegetation shall follow manufacturer's recommendations. Nutrient releases from fertilizers to surface waters shall be minimized. Time release fertilizers shall be used. Care shall be made in the application of fertilizers within any waterway riparian zone to prevent leaching into the waterway.

(5). When used, hydromulch shall be applied with grass seed at a rate of 2,000 pounds per acre between April 30 and June 10, or between September 1 and October 1. On slopes steeper than ten percent, hydrosseed and mulch shall be applied with a bonding agent (tackifier). Application rate and methodology shall be in accordance with seed supplier recommendations.

(6). When used in lieu of hydromulch, dry, loose, weed-free straw used as mulch shall be applied at a rate of 4,000 pounds per acre (double the hydromulch application requirement). Anchor straw by working in by hand or with equipment (rollers, cleat trackers, etc.). Mulch shall be spread uniformly immediately following seeding.

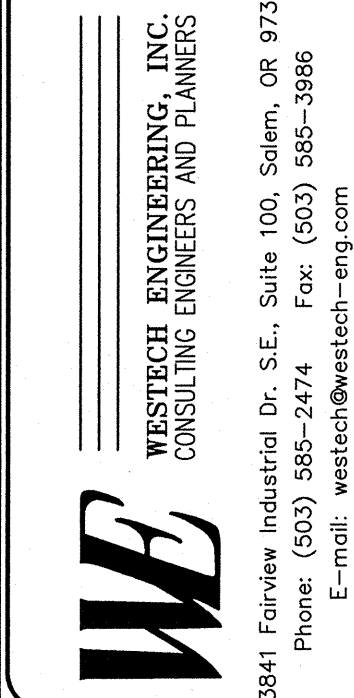
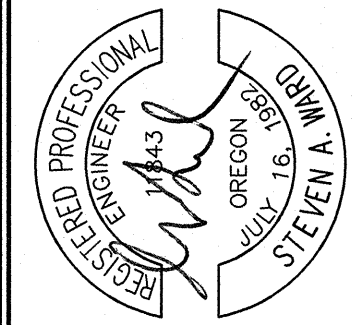
(7). When conditions are not favorable to germination and establishment of the grass seed, the Contractor shall irrigate the seeded and mulched areas as required to establish the grass cover.

(8). Sediment fences shall be constructed of continuous filter fabric to avoid use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum six-inch overlap, and both ends securely fastened to a post.

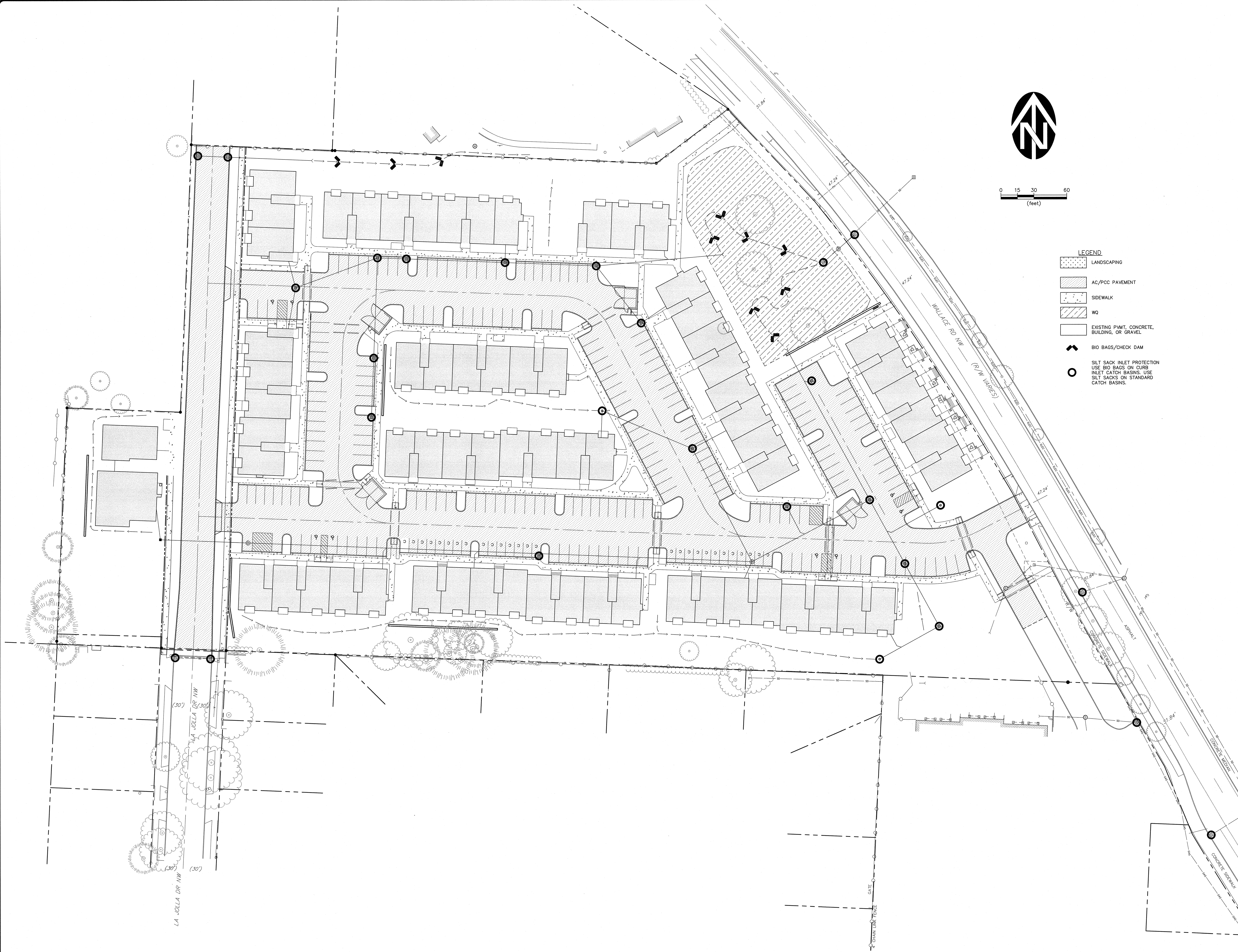
(9). The standard strength filter fabric shall be fastened securely to stitched loops installed on the upslope side of the posts, and six inches of the fabric shall be extended into the trench. The fabric shall not extend more than 30 inches above the original ground surface. Filter fabric shall not be stapled to existing trees.

(10). Bio-filter bags shall be clean 100 percent wood product waste. Bags shall be 18-inch x 18-inch x 30-inch, weigh approximately 45 pounds, and be contained in a bag made of 1/2-inch plastic mesh.

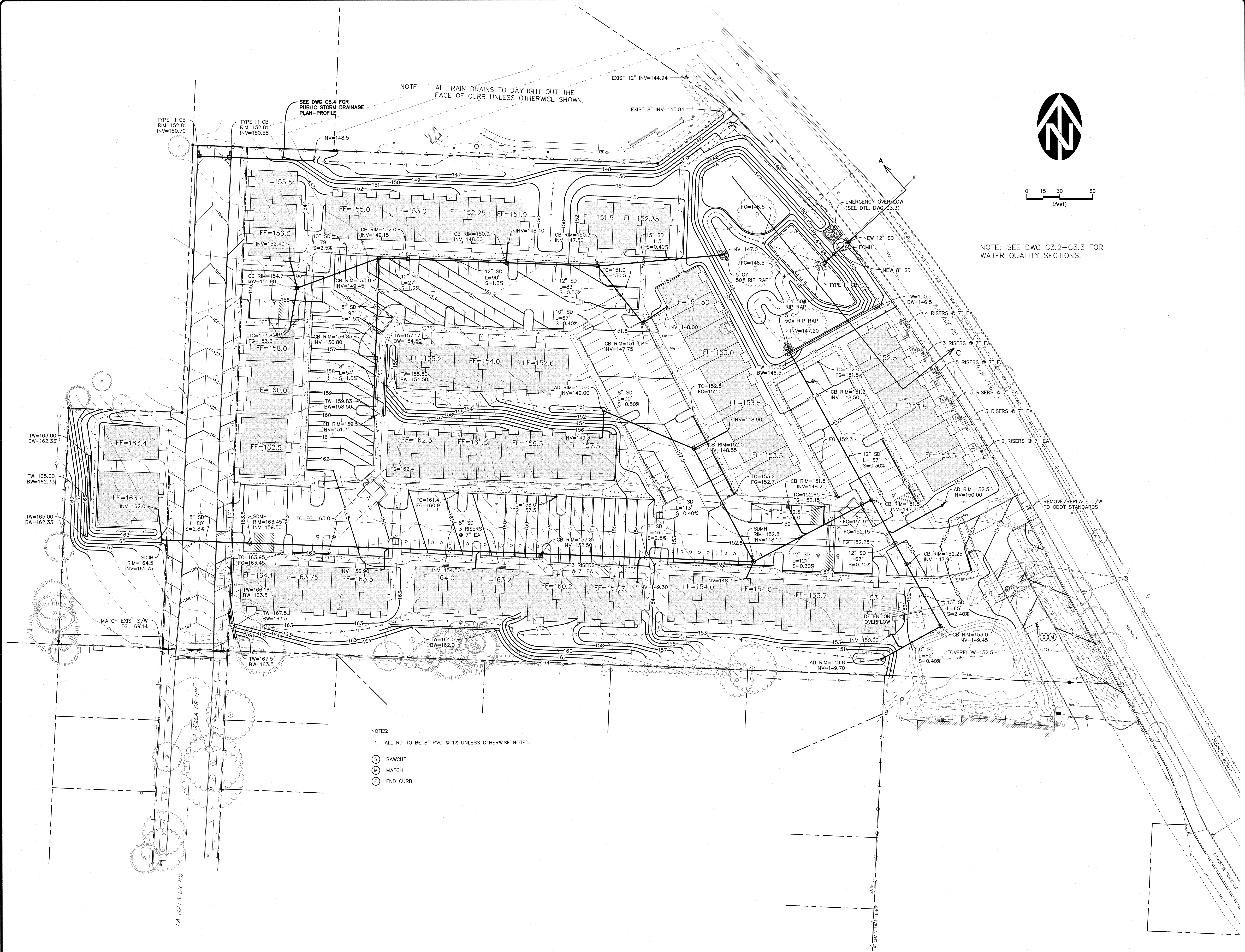
(11). Minimum wet weather slope protection. For 3H:1V or steeper slopes use Ben Terra Type C2 or North American Green Type C125 erosion control blankets. Use a minimum of two inches straw mulch or North American Green Type S150 for slopes flatter than 3H:1V. For slopes flatter than 3H:1V use a minimum of one inch straw mulch, hydrossed with hydromulch and tackifier. Slope protection shall be placed on all disturbed areas immediately after completion of each section of construction activity, until the erosion control seeding has been established. As an option during temporary or seasonal work stoppages, a six-mil HDPE plastic sheeting shall be placed over the slope and the sheeting shall be provided with an anchor trench at the top and bottom of the slope, and shall be sandbagged on the slopes as required to prevent damage or displacement by wind.



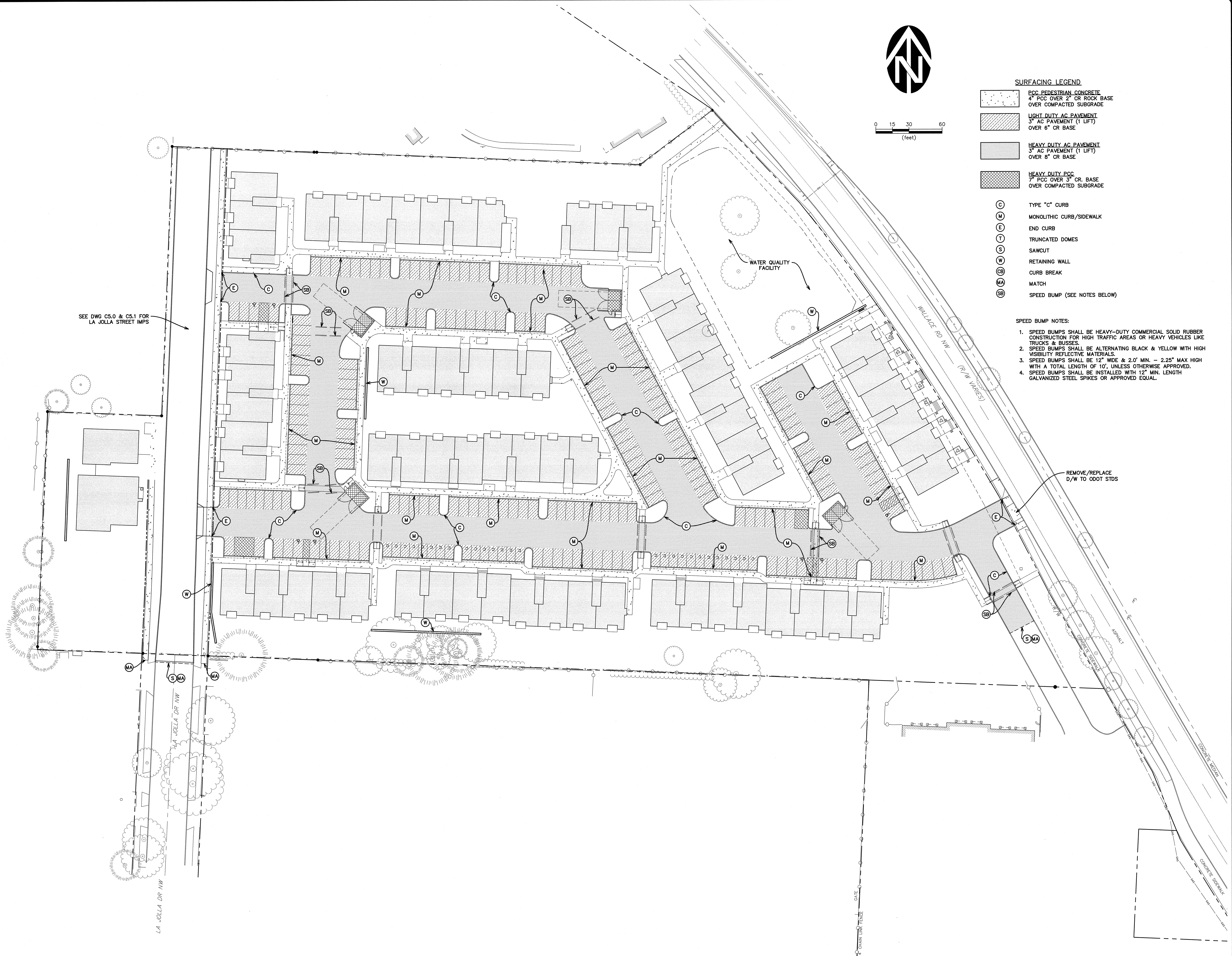
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WESTTECH ENGINEERING, INC. CONSULTING ENGINEERS AND PLANNERS 3841 Fairview Industrial Dr., S.E., Suite 100, Salem, OR 97302 Phone: (503) 585-3841 Fax: (503) 585-3866 E-mail: westtech@westtech-eng.com		REVISIONS	
PROFESSIONAL ENGINEER STATE OF OREGON JULIE A. STEIN, P.E. RECEIVED: 6/29/2022		DATE: FEB. 2022	
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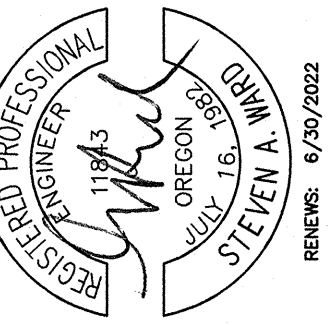
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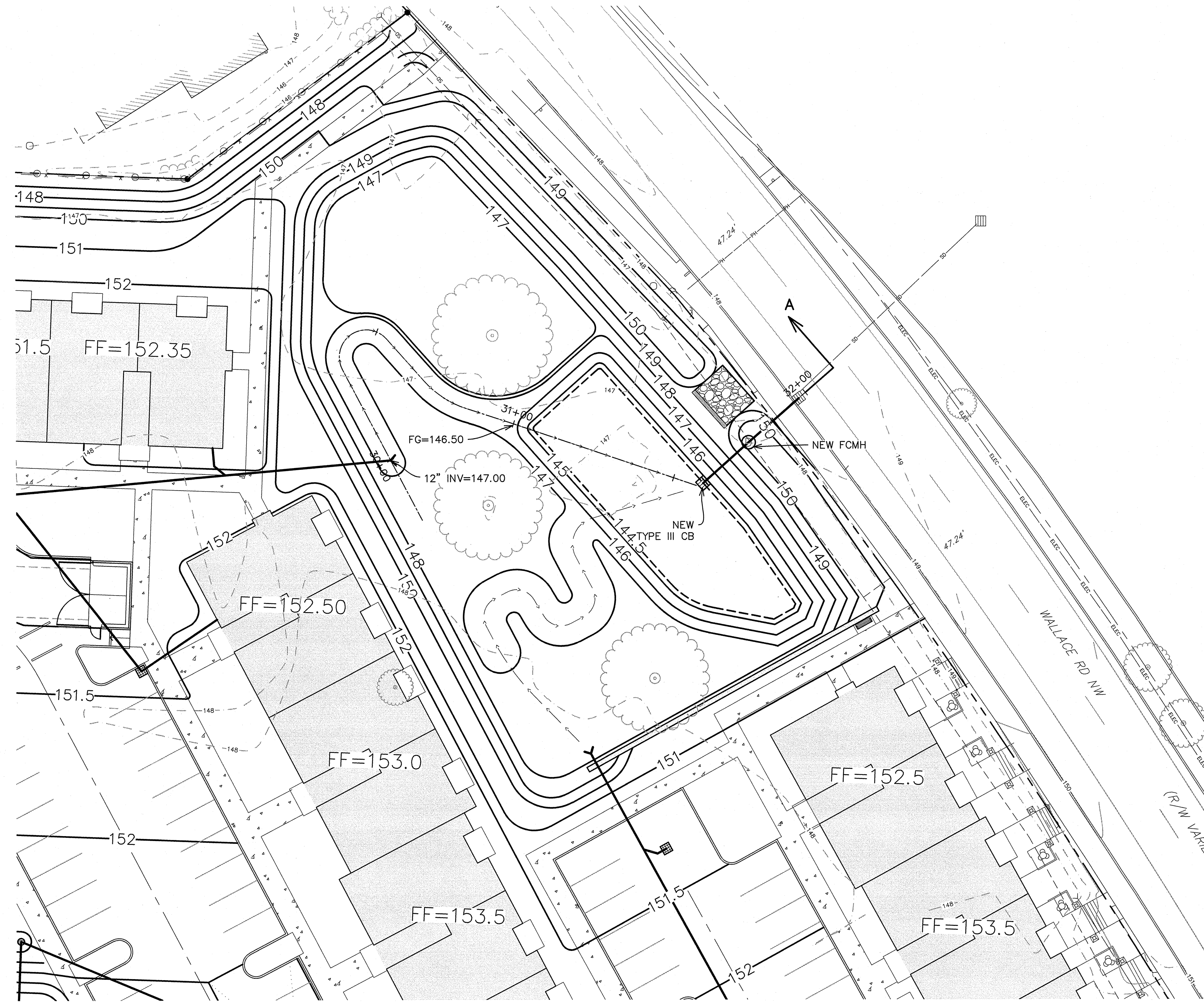
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WESTTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS
3841 Fairview Industrial Dr., S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-3800 Fax: (503) 585-3888
E-mail: westtech@westtech-eng.com



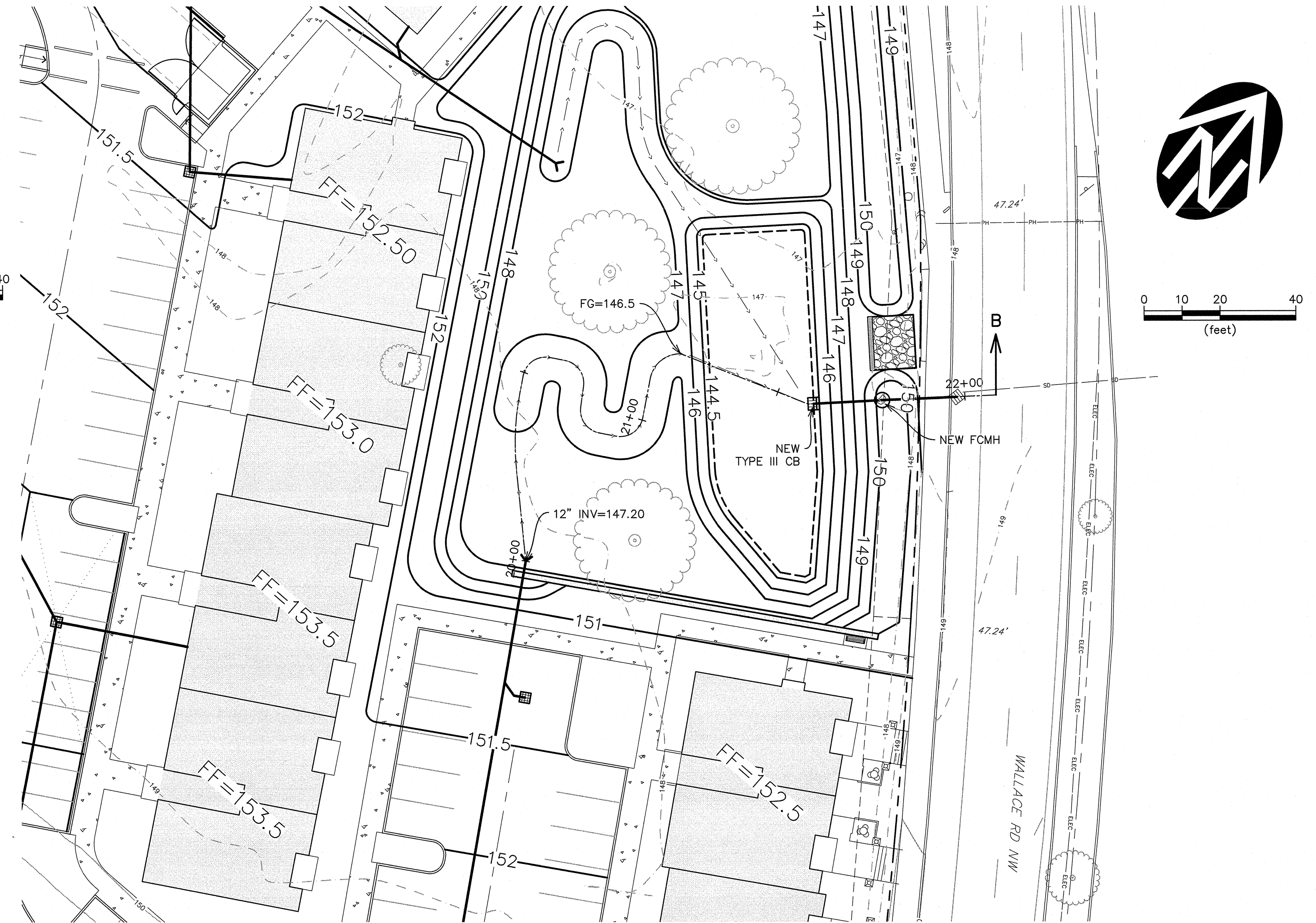
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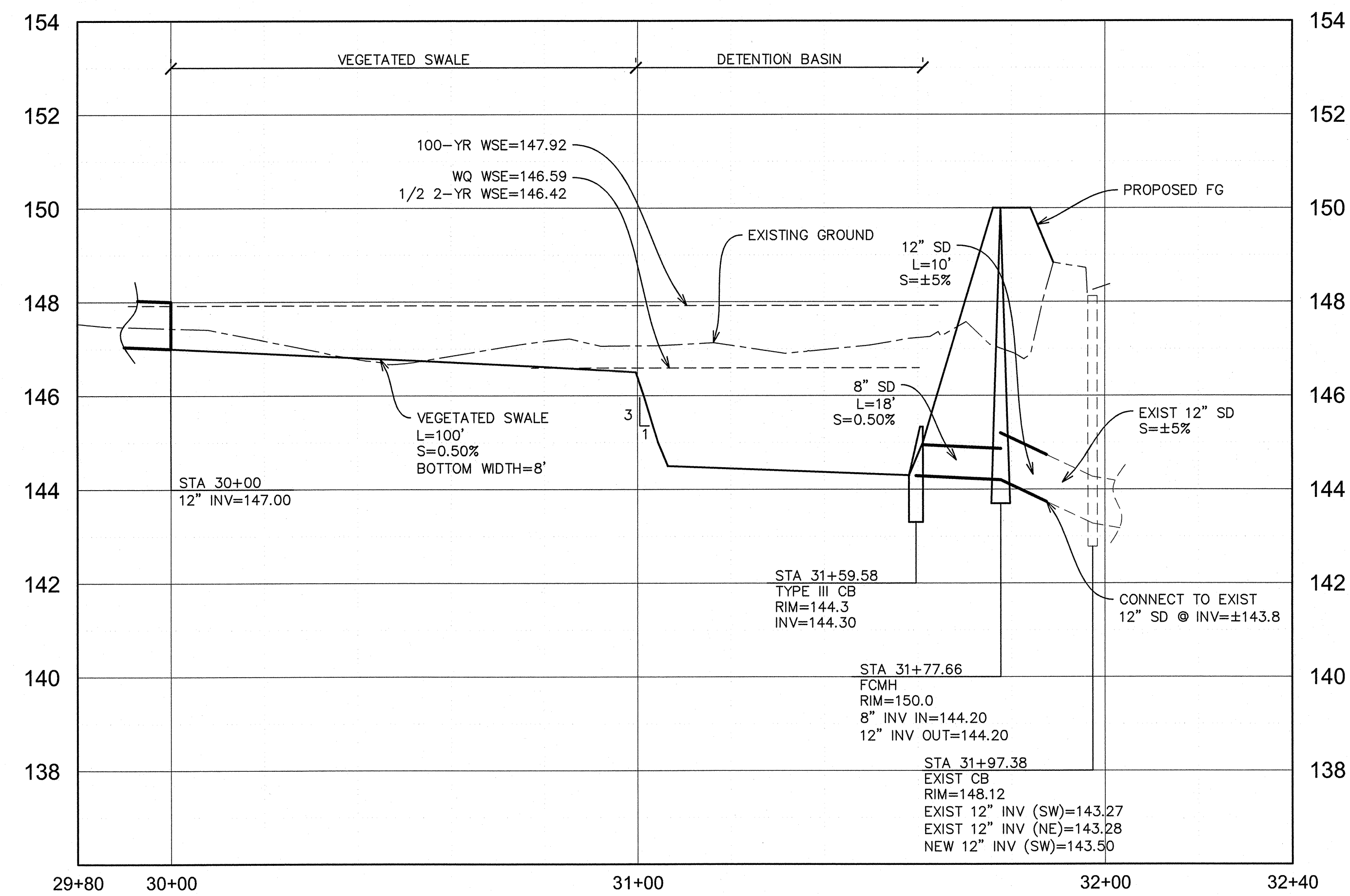
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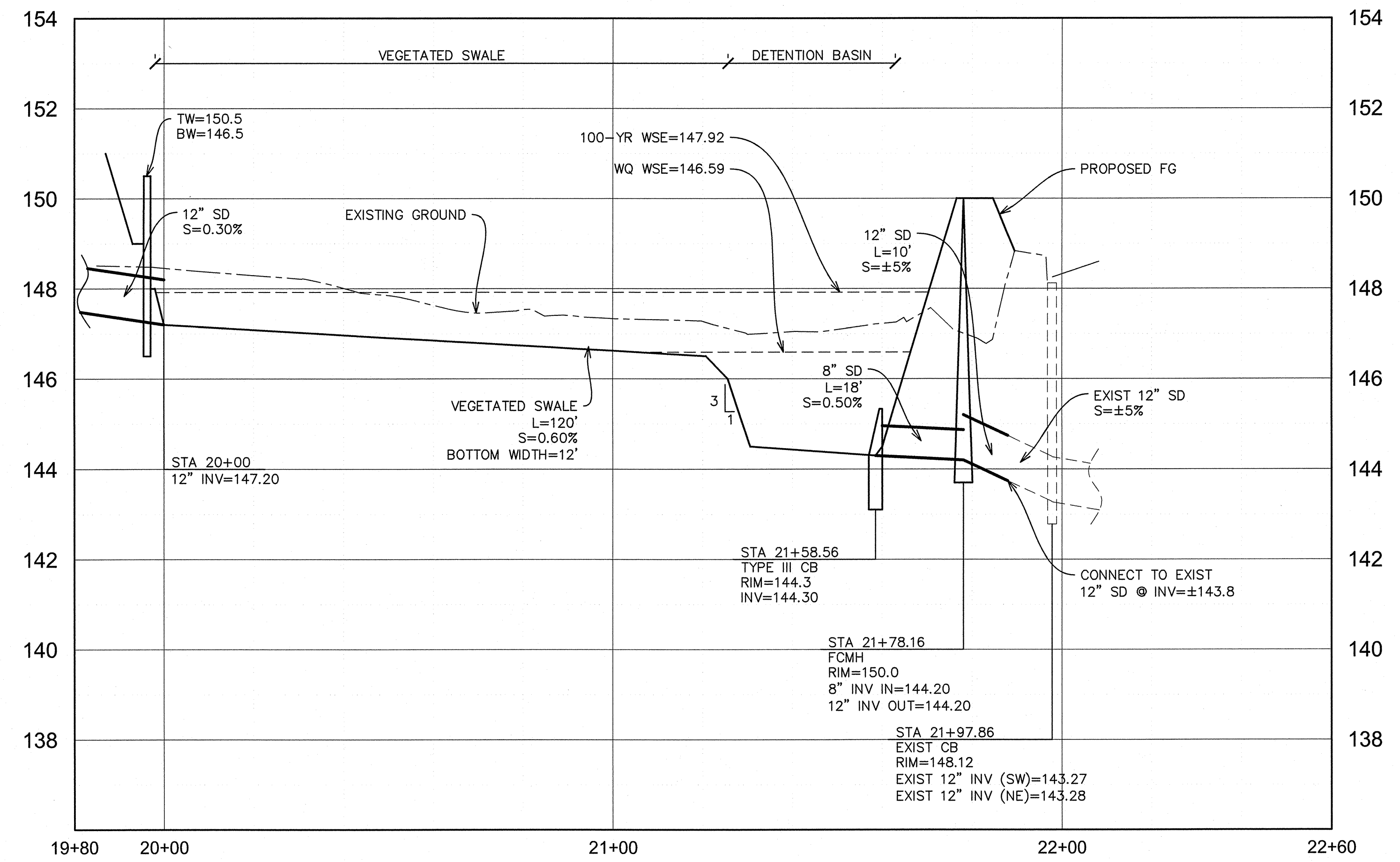
SECTION A PLAN



SECTION B PLAN



SECTION A PROFILE
1" = 20' H, 1" = 2' V



SECTION B PROFILE
1" = 20' H, 1" = 2' V

<



SCOTT MARTIN

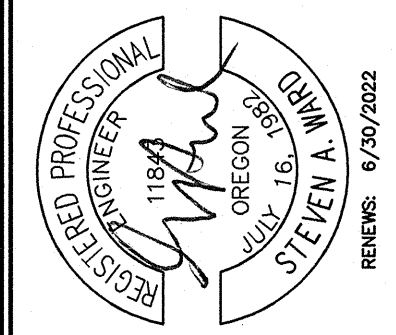
FIRE ACCESS/FIRE HYDRANT PLAN

DRAWING
C4.2
JOB NUMBER
048.3002.0

WE

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS

3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97301
Phone: (503) 585-2474 Fax: (503) 585-3986
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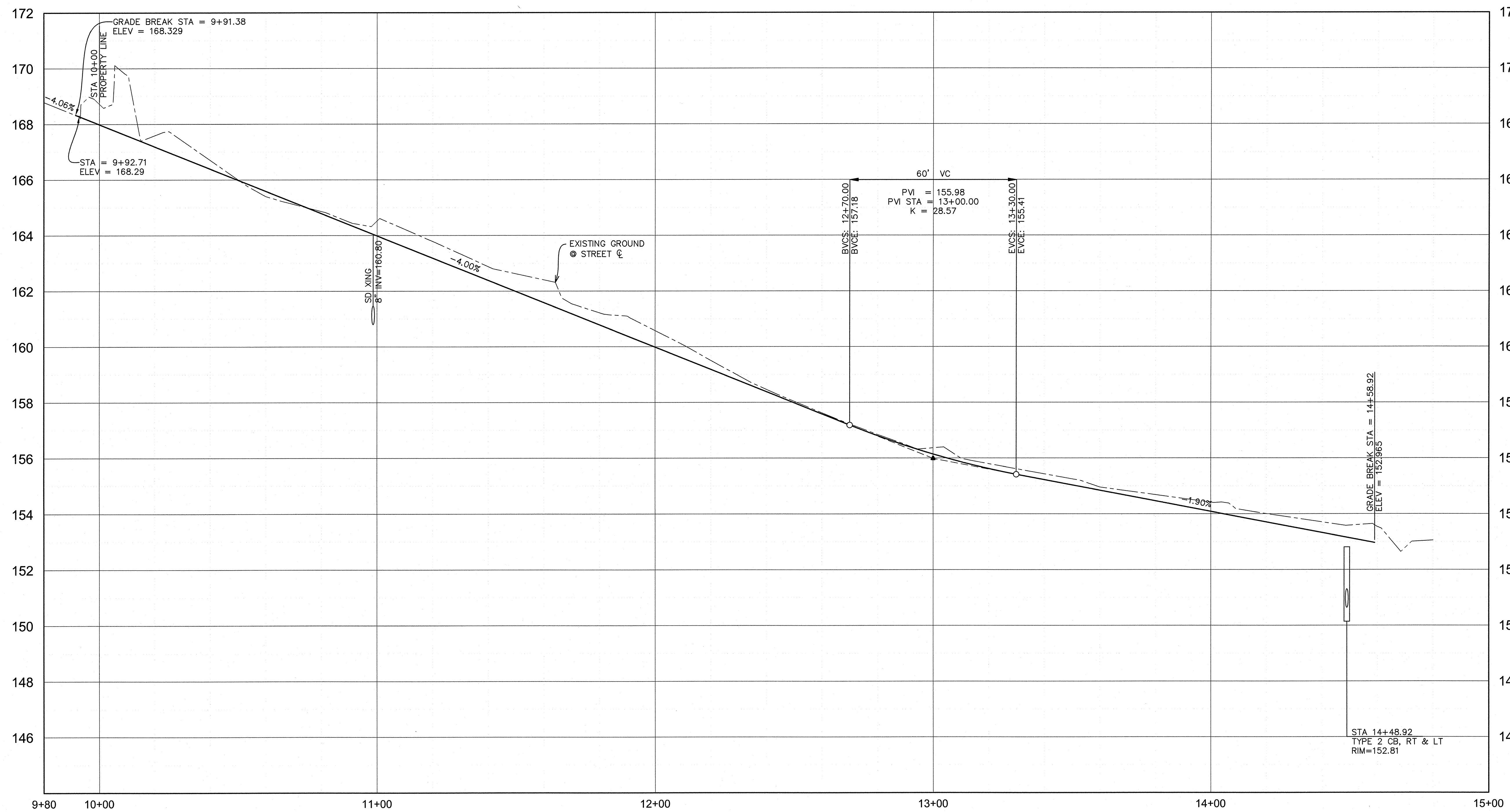
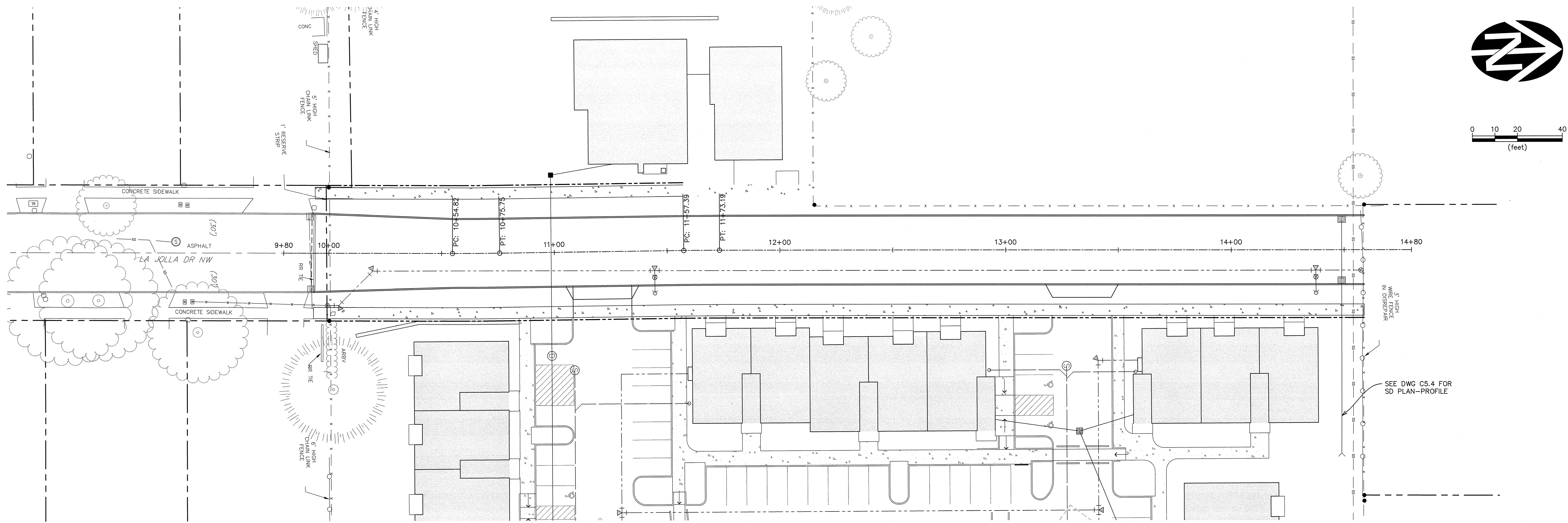


HORIZ:

SCALE

DSN. SAW					
DRN. AR					
	1	09/13/21	ADDED FIRE ACCESS PLAN		
KCD. SAW	NO.	DATE	DESCRIPTION		
DATE: FEB. 2022					REVISIONS

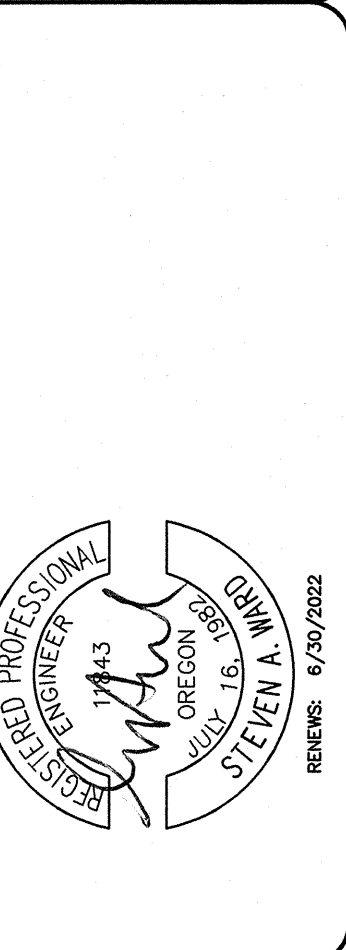
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SANITARY SEWER SOUTH (#1) PROFILE
1" = 20' H, 1" = 2' V

NO.	DATE	DESCRIPTION	BY
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SCALE
HORIZ:
VERT:
DSN. SAW
DWN. AAW
DATE: FEB 2022

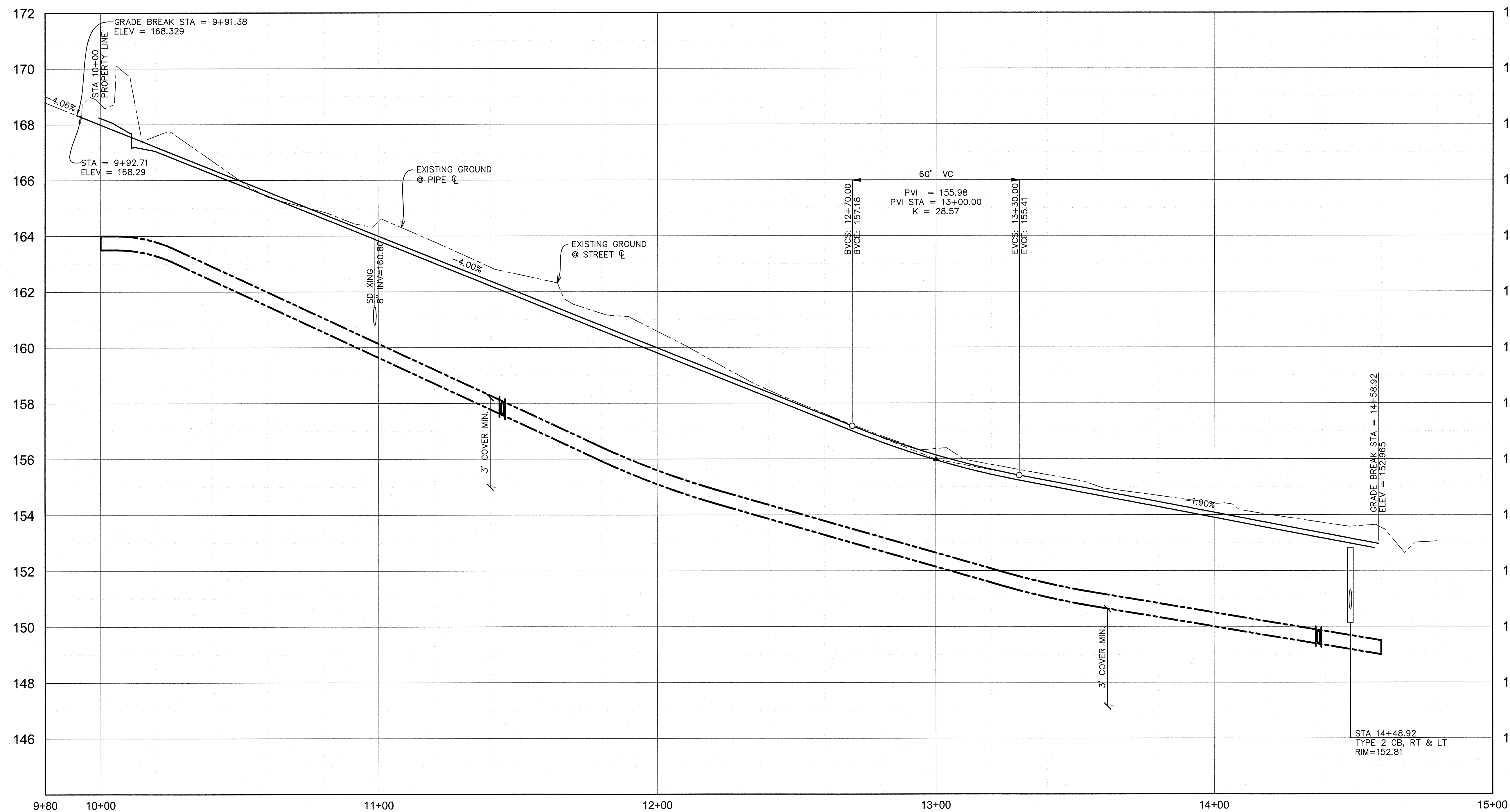
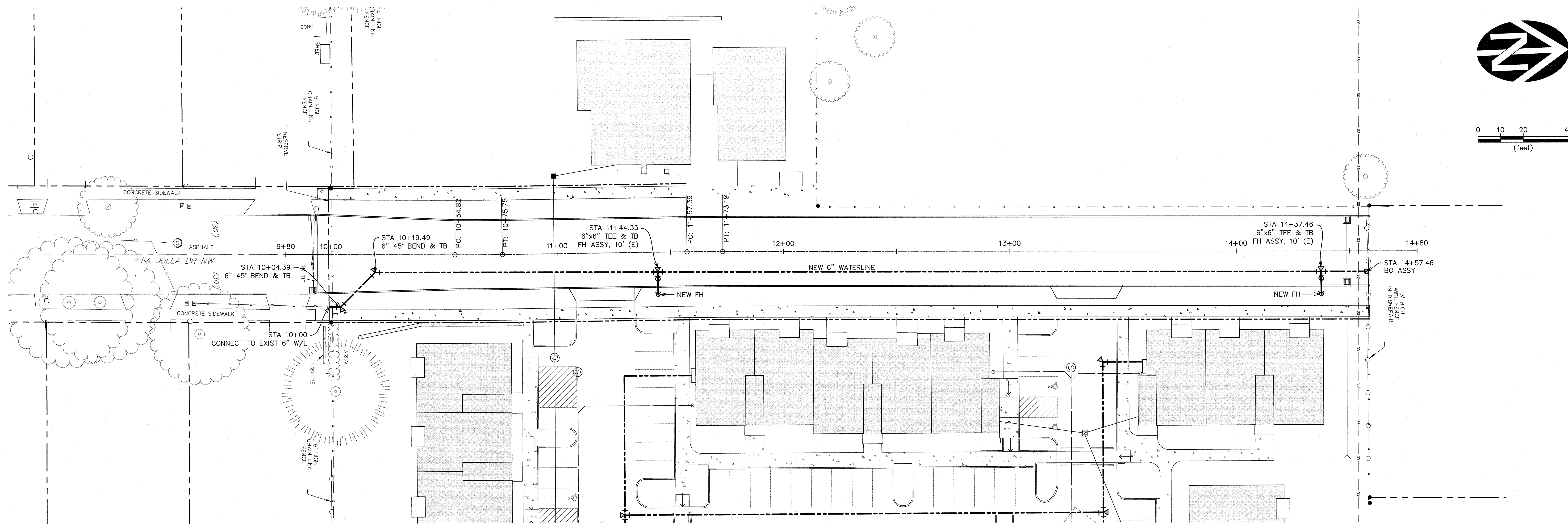


WESTTECH ENGINEERING, INC.
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E-mail: westtech@westtech-eng.com

SCOTT MARTIN
RIVERBEND ROAD SITE PHASE II
LA JOLLA PUBLIC STREET
PLAN-PROFILE

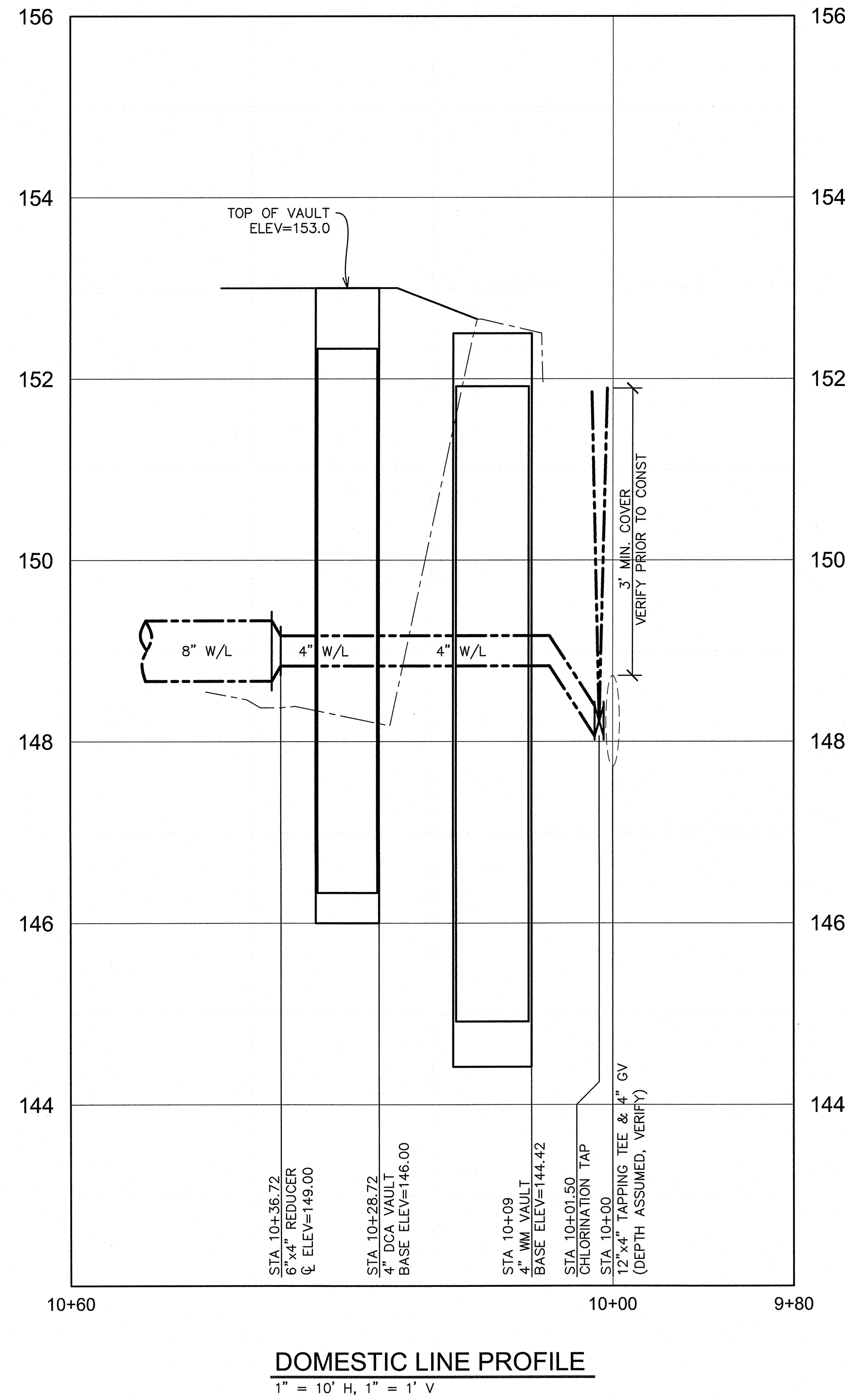
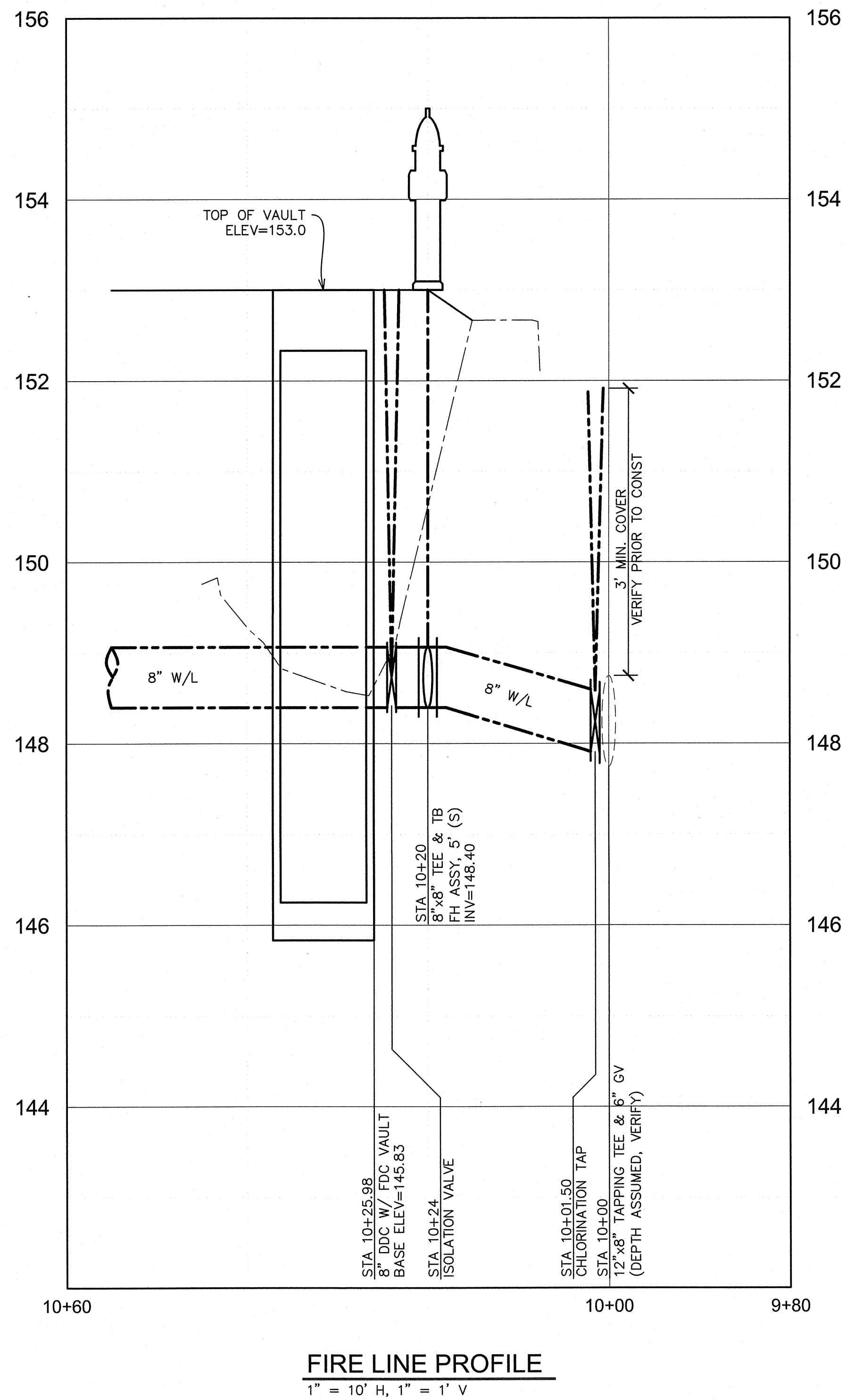
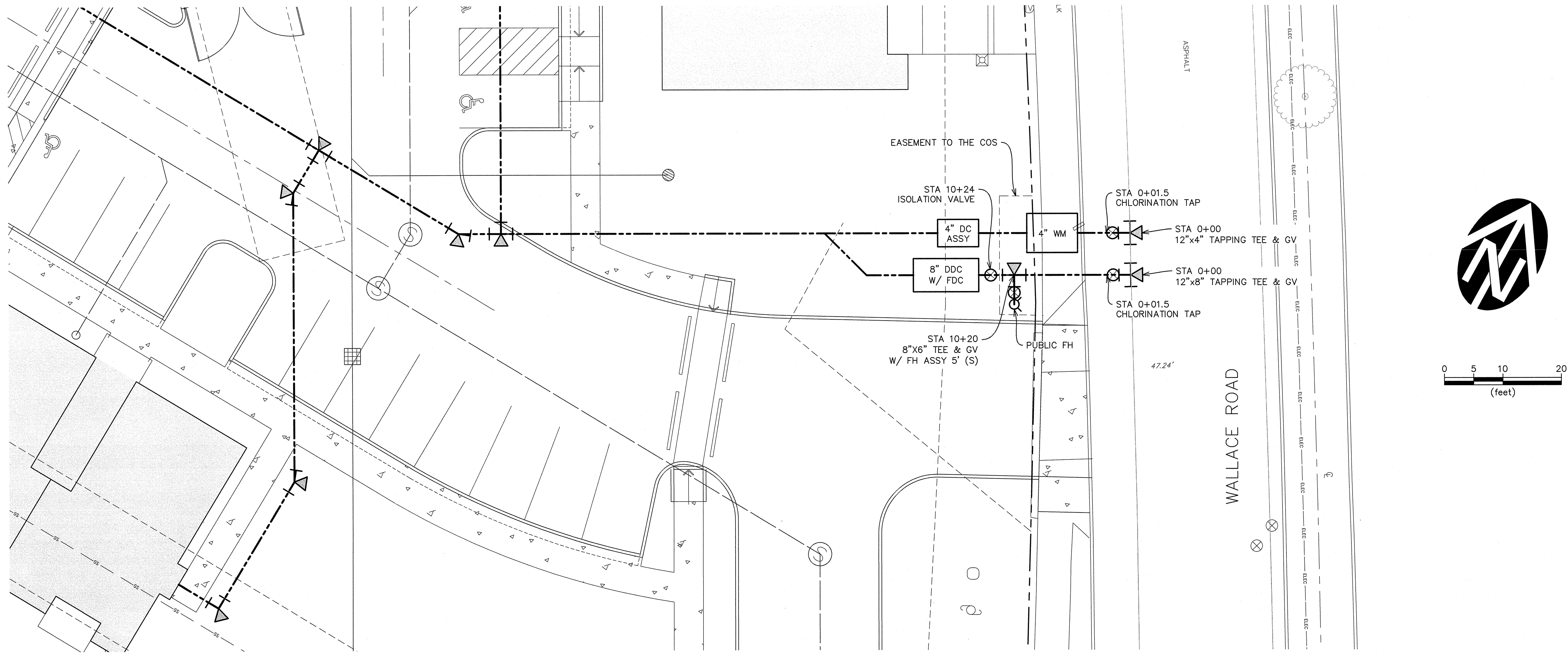
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JOB NUMBER
3048.3002.0

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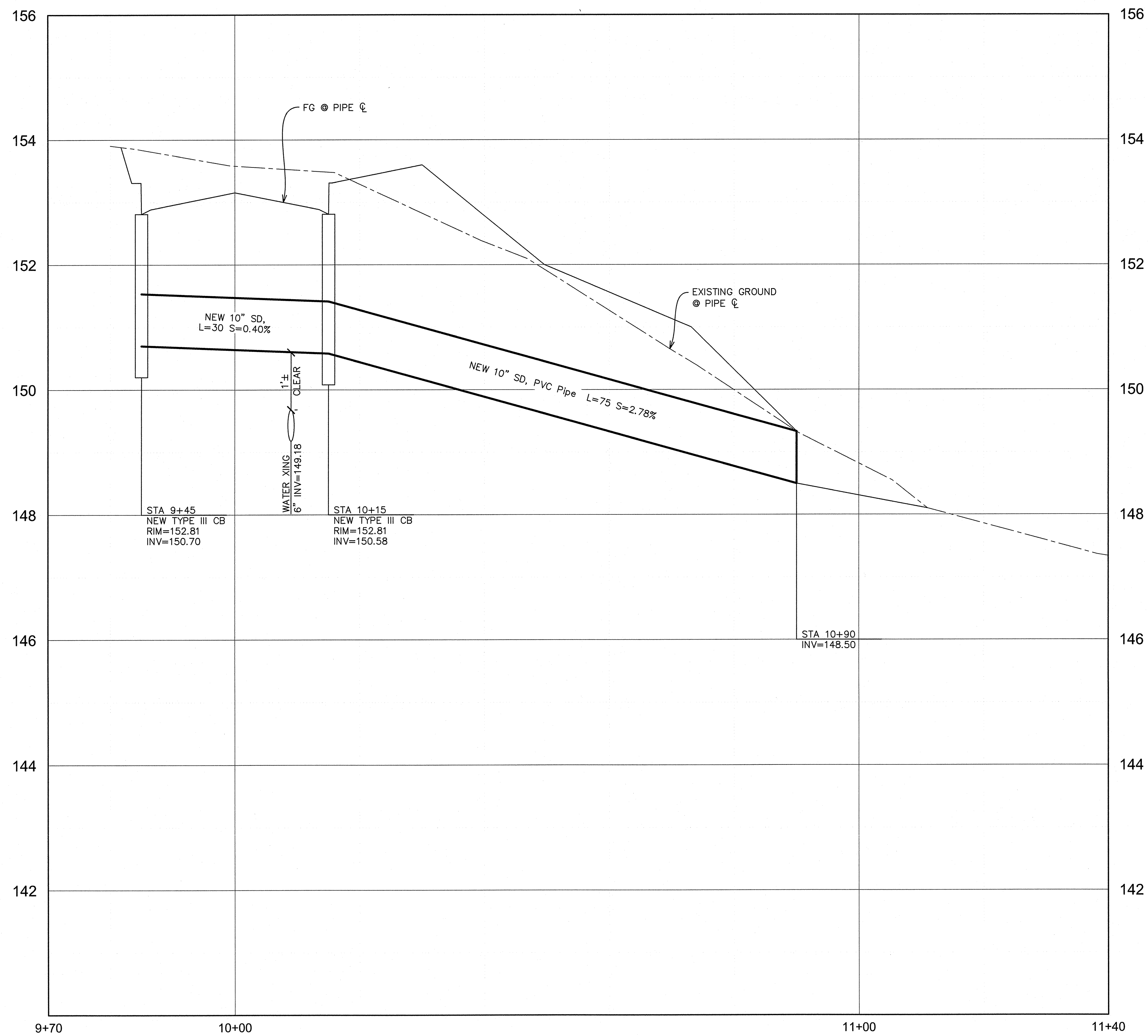
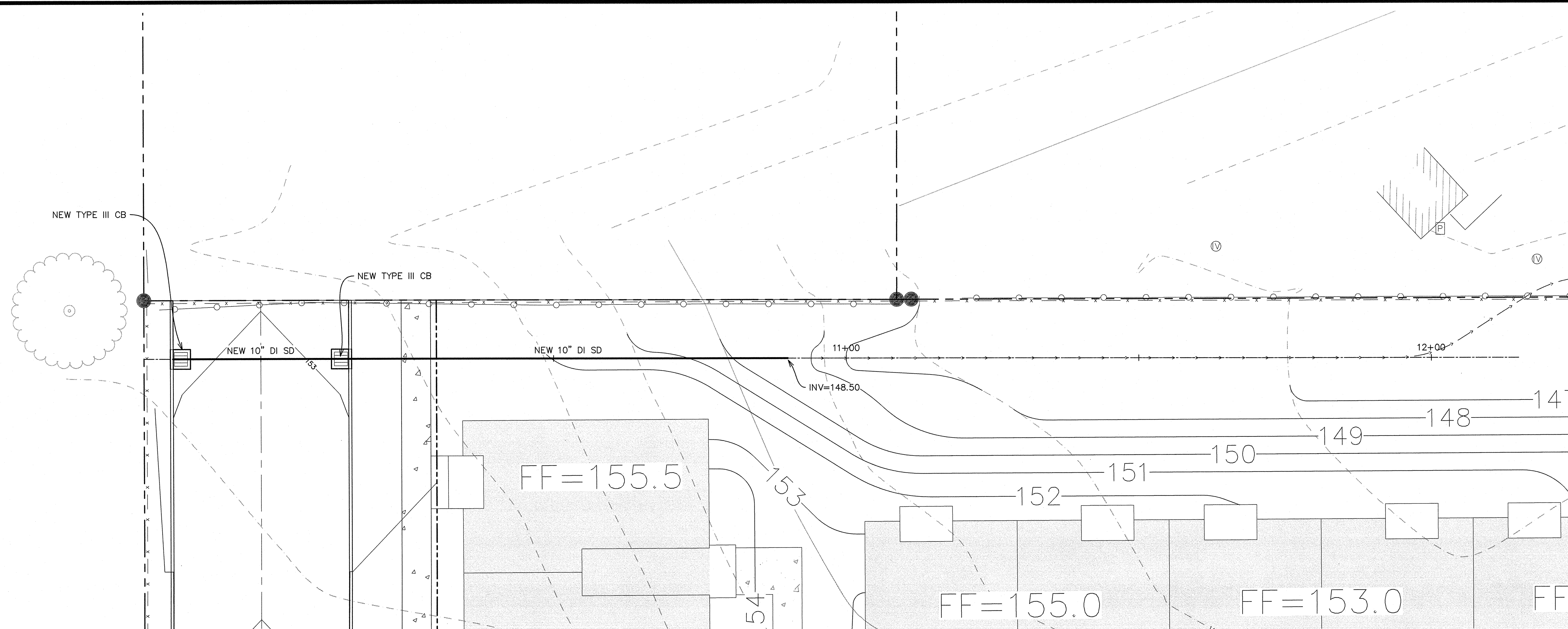


SANITARY SEWER SOUTH (#1) PROFILE
1" = 20' H, 1" = 2' V

SCOTT MARTIN RIVERBEND ROAD SITE PHASE II LA JOLLA PUBLIC WATERLINE PLAN-PROFILE		DRAWING C5.1 JOB NUMBER 3048.3002.0	
WESTTECH ENGINEERING, INC. CONSULTING ENGINEERS AND PLANNERS 3041 Fairview Industrial Dr., S.E., Suite 100, Salem, OR 97302 Phone: (503) 585-3860 E-mail: westtech@westtech-eng.com		DATE: FEB 2022	
RECEIVED PROFESSIONAL 11941 JUL 17 2022 JUL 16 2022 JUL 15 2022 JUL 14 2022 JUL 13 2022 JUL 12 2022 JUL 11 2022 JUL 10 2022 JUL 9 2022 JUL 8 2022 JUL 7 2022 JUL 6 2022 JUL 5 2022 JUL 4 2022 JUL 3 2022 JUL 2 2022 JUL 1 2022 JUN 30 2022 JUN 29 2022 JUN 28 2022 JUN 27 2022 JUN 26 2022 JUN 25 2022 JUN 24 2022 JUN 23 2022 JUN 22 2022 JUN 21 2022 JUN 20 2022 JUN 19 2022 JUN 18 2022 JUN 17 2022 JUN 16 2022 JUN 15 2022 JUN 14 2022 JUN 13 2022 JUN 12 2022 JUN 11 2022 JUN 10 2022 JUN 9 2022 JUN 8 2022 JUN 7 2022 JUN 6 2022 JUN 5 2022 JUN 4 2022 JUN 3 2022 JUN 2 2022 JUN 1 2022 MAY 31 2022 MAY 30 2022 MAY 29 2022 MAY 28 2022 MAY 27 2022 MAY 26 2022 MAY 25 2022 MAY 24 2022 MAY 23 2022 MAY 22 2022 MAY 21 2022 MAY 20 2022 MAY 19 2022 MAY 18 2022 MAY 17 2022 MAY 16 2022 MAY 15 2022 MAY 14 2022 MAY 13 2022 MAY 12 2022 MAY 11 2022 MAY 10 2022 MAY 9 2022 MAY 8 2022 MAY 7 2022 MAY 6 2022 MAY 5 2022 MAY 4 2022 MAY 3 2022 MAY 2 2022 MAY 1 2022 APR 30 2022 APR 29 2022 APR 28 2022 APR 27 2022 APR 26 2022 APR 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SCOTT MARTIN RIVERBEND ROAD SITE PHASE II PUBLIC WATERLINE PLAN—PROFILES		DRAWING C5.3 JOB NUMBER 3048.3002.0	
WESTTECH ENGINEERING, INC. CONSULTING ENGINEERS AND PLANNERS 3841 Fairview Industrial Dr., S.E., Suite 100, Salem, OR 97302 Phone: (503) 586-0000 Fax: (503) 586-3986 E-mail: westtech@westtech-eng.com		REVISIONS NO. DATE DESCRIPTION BY	
WESTTECH ENGINEERING, INC. CONSULTING ENGINEERS AND PLANNERS 3841 Fairview Industrial Dr., S.E., Suite 100, Salem, OR 97302 Phone: (503) 586-0000 Fax: (503) 586-3986 E-mail: westtech@westtech-eng.com		SCALE HORIZ: 1"=100' VERT: 1"=10' DATE: FEB 2022	
WESTTECH ENGINEERING, INC. CONSULTING ENGINEERS AND PLANNERS 3841 Fairview Industrial Dr., S.E., Suite 100, Salem, OR 97302 Phone: (503) 586-0000 Fax: (503) 586-3986 E-mail: westtech@westtech-eng.com		REVISIONS NO. DATE DESCRIPTION BY	



STORM PROFILE
1" = 10' H, 1" = 1' V

