

DRAWINGS FOR:

RIVERBEND ROAD SITE PHASE II  
1221 RIVERBEND RD NW  
SALEM, OR 97304

FOR:

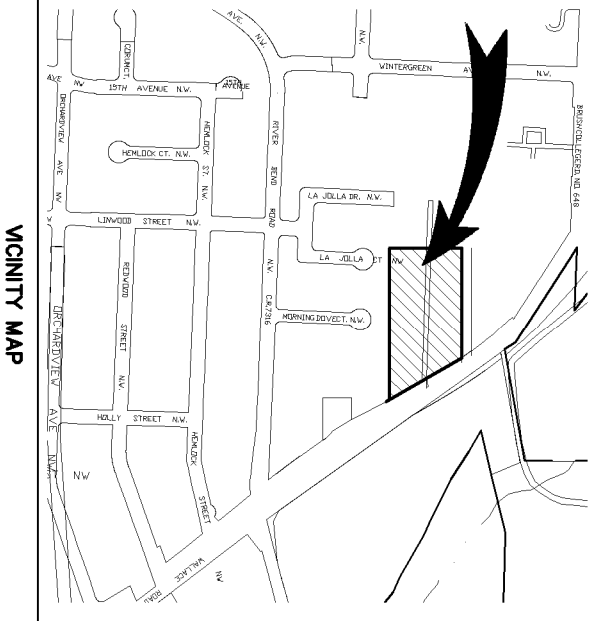
SCOTT MARTIN CONSTRUCTION INC.  
2600 MICHIGAN CITY ROAD NW  
SALEM, OR 97304

CONTACT: SCOTT MARTIN  
503-881-6408

DRAWING INDEX

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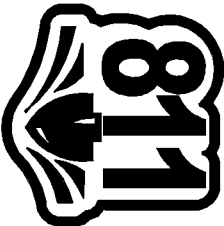
PROJECT LOCATION



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	□ — □	□ — □
TELEPHONE MANHOLE	①	①
TELEPHONE PEDESTAL	TEL	TEL
SANITARY SEWER MANHOLE	⑤	⑤
STORM DRAIN MANHOLE	④	④
CATCH BASIN	■	■
FIRE HYDRANT AND VALVE	⊗	⊗
WATER METER	⊗	⊗
WATER VALVE	⊗	⊗
POWER POLE	⊗	⊗
POWER POLE W/ANCHOR	⊗ —	⊗ —
POLE W/LUMINAIRE	⊗ — ☆	⊗ — ☆
LIGHT POLE	⊗	⊗
SION POST	⊗	⊗
MAILBOX	⊗	⊗
HEDGE OR BRUSH	⊗	⊗
TREES	⊗	⊗
STREET OR ALLEY RIGHT OF WAY	— R/W —	— R/W —
PLAYED LOT LINE	—	—
OWNERSHIP LINE	—	—
EASEMENT OR TEMPORARY RIGHT OF WAY	—	—
PROJECT CENTERLINE AND	— 2 — 3 — 4 — 5 —	— 2 — 3 — 4 — 5 —

Know what's below.  
Call before you dig.



BENCHMARK UTILIZED  
E L E V : 1 7 8 . 1 2 ' N G V D 2 9  
SURVEY MAG NAIL BSC POINT #1001 IN ASPHALT AS SHOWN  
ELEVATIONS ARE BASED ON GPS OBSERVATION WITH A VERTCON ADJUSTMENT  
OF -3.56 FROM NAVD 83 TO NAD83 DATUM

SCOTT MARTIN

RIVERBEND ROAD SITE PHASE II

COVER SHEET, VICINITY  
& LOCATION MAPS,  
& SHEET INDEX



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



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: JAN 2021

NO.	DATE	DESCRIPTION	BY
1		REVISIONS	

JOB NUMBER  
3048.0000.0

DRAWING  
C1.0

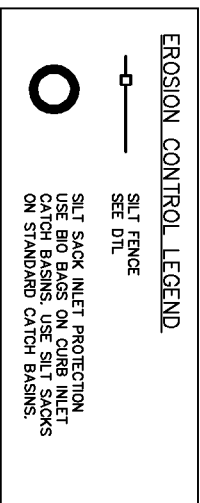
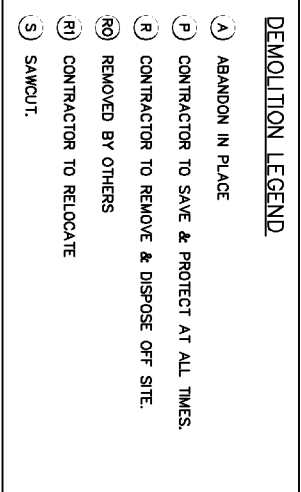


85. Domestic and fire backflow prevention devices and vaults shall conform to requirements of public and/or private agencies having jurisdiction. The Contractor shall be responsible for having backflow devices tested and certified prior to final acceptance of the work.
86. Contractor shall provide all necessary equipment and materials (including plugs, blowoffs, valves, service tops, etc.) required to flush, test and dislodge waterlines per the Approving Agency requirements.
87. The work shall be performed in a manner designated to minimize 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.
88. When new waterlines cross below or within 18-inches vertical separation above a sewer main or sewer service line, the contractor shall install full length of watertight pipe of depth of cover as shown on the plans. If lateral or 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 their crossing in accordance with OAR 333-.081 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 invert with 5.67-foot (68-inches) of finish grade must be DI or C-900 PVC at the crossing.
89. 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 oil 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.
90. After the pressure test and prior to disinfecting, the water lines shall be thoroughly flushed through hydrants, blow offs or by other approved means.
91. Disinfection & Bacteriological Testing. All water mains and service lines shall be chlorine disinfected per Approving Agency requirements, AWWA C-651 or OAR 333-.081 (25 mg/L minimum chlorine solution, 24 hours contact time), whichever is more stringent. Unless otherwise specified 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 determined by titration. The chlorine residual shall be at least 1.0 mg/l throughout the entire length of the waterline. 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.
92. Disconnection of Connections. For connections which cannot be disconnected with the waterline molasses as noted above, all fittings, valves and appurtenances, including top surfaces which will come in contact with potable water shall be thoroughly cleaned by washing with potable water and then scrubbed 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-.081.
- SEWER & STORM MANHOLES:
93. All present manholes shall be provided with integral rubber boots. Where manholes without integral rubber boots are encountered, they shall be replaced with a new manhole. Manholes shall be installed so that the bottom of the manholes within 1.0 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.
94. 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 concrete shall be used. No pneumatic tools shall be used. Drilling shall be limited to cutting holes only if authorized in writing by the Owner's Representative. Use of pneumatic jackhammers shall be prohibited.
95. Manhole chamber depths (sewer & storm) shall be to the heights shown on the drawings, but in no case shall be less than 2'3" of the pipe diameter. Churns, as well as shaves between the chambers and the manhole walls, shall be sloped to drain per plan details.
96. Manholes constructed over existing sanitary sewers shall conform to the requirements of OSCE (0007/APWA) and AGO's. Manholes over Existing Sewers. The existing pipe shall not be broken out until after the completion of the manhole test.
- SANITARY SEWER SYSTEM:
97. Unless otherwise specified, sanitary sewer pipe shall be solid wall PVC in conformance with ASTM D3034, SDR 35 (\$315) or ASTM F-676, PS 46 (36"). Minimum stiffness shall be 46 psi per ASTM D-2412 and joint type shall be elastomeric gasket conforming to ASTM D-2122. All other applicable codes and installation to conform to the requirements of OSCE (0007/APWA) shall apply. All manholes shall be constructed in accordance with the standards located within any building envelope, shall be installed in conformance with Uniform Plumbing Code requirements.
98. 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.
99. Contractor shall provide all necessary materials, equipment and facilities to test sanitary sewer, pipe and connection standards, whichever are more stringent. Sanitary sewer pipes 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 placement and final surface restoration.
100. After manhole channeling and prior to manual testing and/or TV inspection, flush and clean all sewers, and remove all foreign material from the manholes and manholes. Failure to clean dirt, rock and debris from pipelines prior to TV inspection will result in the need to re-clean and re-TV the sewer lines.
101. Contractor shall conduct deflection test of feasible 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.
102. Upon completion of all sanitary sewer construction, testing and repair, the Contractor shall conduct a color TV camera inspection of all manholes in accordance with OSCE (0007/APWA) 445.42, to determine compliance with grade requirements of OSCE (0007/APWA) 445.403. 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 tapes acceptable only upon prior written approval by Public Works). 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 crown 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:
103. 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 two (2) percent. All storm sewer pipe shall be installed in accordance with the Uniform Plumbing Code requirements. Any building envelopes, shall be installed in conformance with Uniform Plumbing Code requirements.
104. Contractor shall designate the pipe material actually installed on the field record drawings and provide this information for inclusion on the as-built drawings.
105. Catch basins and junction boxes shall be set square with buildings or with the edges of the parking lot or street when they are adjacent to them. Storm drain inlet structures and piling shall be adjusted so water flows into the structure without ponding water.
106. Unless otherwise approved by the Engineer, all storm drain connections shall be by manufactured tees or saddles.
107. Unless otherwise shown on the drawings, all storm pipe inlets & outfalls shall be beveled flush to match the slope wherein they lie.
108. Severe (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.
109. Unless otherwise shown or directed, install storm sewer pipe in accordance with manufacturer installation guidelines.

110. After manhole reroaming and prior to manhole testing or final acceptance, flush and clean all sewers, and remove all foreign material from the manholes, manholes and catch basins.
111. **Manhole Testing.** Contractor shall conduct deflection test of flexible storm sewer pipes by pulling an approved 100' length of 2" diameter, 10' long, 100 lb. test weight deflection pipe into the manhole. The deflection test shall be conducted not more than 30 days after the trench backfilling and compaction has been completed.
112. **TV Inspection.** Upon completion of all storm sewer construction, testing and repair, the Contractor shall conduct a color TV acceptance inspection of all manholes in accordance with OSSC (0001/AP/WA) 443.5.4 to determine compliance with grade requirements of OSSC (0001/AP/WA) 443.40.2. The TV inspection shall be conducted by an approved technical person, which is equipped to make and save the recordings of the TV inspections on DVD (VHS tapes are not acceptable). The person conducting the TV inspection shall be approved by the Public Works Department 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.
113. Prior to acceptance, the Owner's Representative may lump storm lines upstream & downstream of structures to be inspected into one inspection. The inspection shall be conducted by the Contractor, with the presence of an approved baller 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:**
  - 114. 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.
  - 115. Streetlight poles shall be set to a depth as specified by the manufacturer, but not less than 5 feet.
  - 116. Street light poles shall be installed within one degree (1°) of plumb.
117. Contractor and franchise utility companies shall conform to SCS Section 309 for all street lighting installation.
118. Contractor shall coordinate with utility companies and pay all costs for procurement, installation, wiring, hook up and activation of streetlights.
- FRANCHISE & PRIVATE UTILITIES:**
  - 119. 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.
  - 120. 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 notices 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.
  - 121. 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.
  - 122. 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 coordinate with the utility company for installation of the conduit per utility company requirements. All changes in direction of utility conduit shall be noted on the drawings and shall show long radius pivot bends.
  - 123. 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.

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-284, (6"-10") or AASHTO M-284 (12"-18") For slopes less than 6% the pipe shall be ADS N-12 IB ST, Honor Sure-Lok F477, or approved equal. For slopes greater than 6% the pipe shall be ADS N-12 IB WT, Honor 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	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-284, For slopes less than 6% the pipe shall be ADS N-12 IB ST, Honor Sure-Lok F477, or approved equal. For slopes greater than 6% the pipe shall be ADS N-12 IB WT, Honor 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.

REQUIRED TESTING AND FREQUENCY TABLE		Partly Responsible for payment
		Contractor
		Others (see note 1)
Streets, Fire Lanes, Common Driveways, Parking Lots, Pads, Fills, etc.		
Subgrade	1 Test/4000 S.F./Jlt. (4 m <sup>2</sup> ), locations acceptable to approving agency (typically alternate sides of road or access alleys)	See note 2 & note 3
Engineered Fills	1 Test/4000 S.F./Jlt. (4 m <sup>2</sup> ), locations acceptable to approving agency	See note 2 & note 5
Base rock	1 Test/4000 S.F./Jlt. (4 m <sup>2</sup> ), locations acceptable to approving agency (typically alternate sides of road or access alleys)	See note 2 & note 3
Asphalt	1 Test/8000 S.F./Jlt. (4 m <sup>2</sup> ), locations acceptable to AA (typ. alternate as above)	See note 2
Piped Utilities, All		
Trench Backfill	1 Test/200 Foot Trench/Jlt. (4 m <sup>2</sup> )	See note 2
Trench AC Restoration	1 Test/300 Foot Trench (4 m <sup>2</sup> )	See note 2
Water		
Pressure Test (to be witnessed by Owner's Representative or approving agency)	Per City Requirements	See note 4
Bacterial Water Test	Per Oregon Health Division	See note 2
Chlorine Residual Test	Per City Requirements	See note 4
Sanitary Sewer		
Air Test	Per City or APWA Requirements, whichever is more stringent	See note 4
Manhole	95% of actual inside diameter	See note 4
TV Inspection	All Lines must be cleaned prior to TV work	See note 4
Manhole	(1) Vacuum test per manhole, witnessed by Owner's Representative or approving agency	See note 2
Pressure Test	Hydrostatic pressure test, witnessed by (force main) Owner's Representative or approving agency	See note 4
Storm		
Manhole	95% of actual inside diameter	See note 4
TV Inspection	All Lines must be cleaned prior to TV work	See note 4
Concrete, Block, etc.		
Slump, Air & Cylinders for structural & reinforced concrete, equipment slabs, curbs, shoulders & COC pavements. Unless otherwise specified, test of cylinders 100 (or portion thereof) of each class of concrete placed per day	See note 2	See note 2
Slump & air tests required on some load as cylinders.	See note 2	See note 2
Building permit inspection, Special inspection for structural concrete, masonry, epoxy anchors, etc. as required by applicable State Building Codes.	See note 6	See 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. Base rock proof-roll 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 proof-roll to be as approved or directed by Soil Conditioner 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 manhole 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 testing was performed in accordance with the applicable standards and 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.		



NOTES:

1. NO STOCKPILING ALLOWED ON SITE

1			
NO.	DATE	DESCRIPTION	BY
REVISIONS			

**JOB NUMBER**

## C2.0

RIVERBEND ROAD SITE PHASE II

WESTECH ENGINEERING, INC.  
CONSULTING ENGINEERS AND PLANNERS

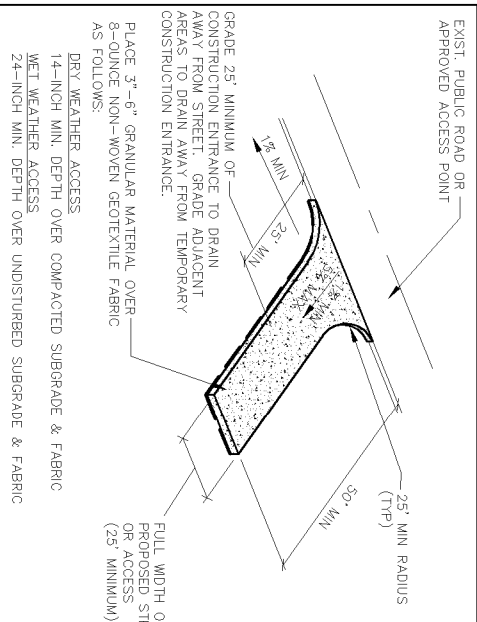
3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302  
Phone: (503) 585-2474 Fax: (503) 585-3986

# REVIEW

VERIFY SCALE  
BAR IS ONE INCH ON  
ORIGINAL DRAWING

DSN.	SAW
DRN.	AR



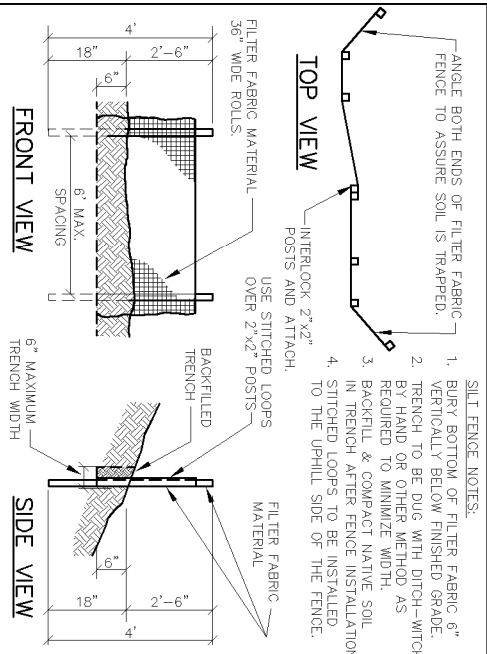


1. THE AREA OF THE CONSTRUCTION ENTRANCE SHALL BE STRIPPED OF ALL TOPSOIL, VEGETATION, ROOTS AND OTHER NON-COMPACTIBLE MATERIAL.
2. SUBGRADE SHALL BE COMPACTED AND PROPELLORED PRIOR TO PLACEMENT OF GRANULAR MATERIAL. FAILURE TO PASS PROPELLORED WILL REQUIRE USE OF WET WEATHER SECTION.
3. FAILURE OR PUMPING OF THE DRY WEATHER SECTION WILL REQUIRE REMOVAL OF THE GRANULAR MATERIAL AND INSTALLATION OF THE WET WEATHER SECTION.

MAINTENANCE NOTES:

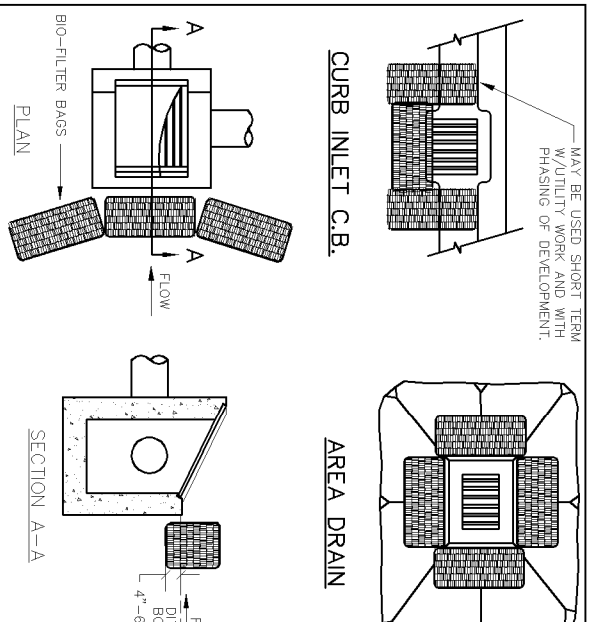
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT EROSION OR FLOW OF SEDIMENT INTO PUBLIC RIGHT-OF-WAY. TOP DRESSING WITH 3'-6" INCH STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF STRUCTURES USED TO TRAP SEDIMENT.	LAST REVISION DATE: MAY 2015	22 #	STANDARD
2. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.			
3. ALL TRUCKS TRANSPORTING SATURATED SOILS SHALL BE WELL SEALED. WATER DRIPPAGE FROM TRUCKS MUST BE REDUCED TO 1 GALLON PER HOUR PRIOR TO LEAVING THE SITE.			
TEMPORARY CONSTRUCTION ENTRANCE (NYS)			
WESTCHESTER ENG.	DRAWN BY	610	

LAST REVISION DATE: MAY 2013		JO # STAND.
TEMPORARY CONSTRUCTION ENTRANCE (NTS)		
WESTECH ENG.	DETAIL NO.	610



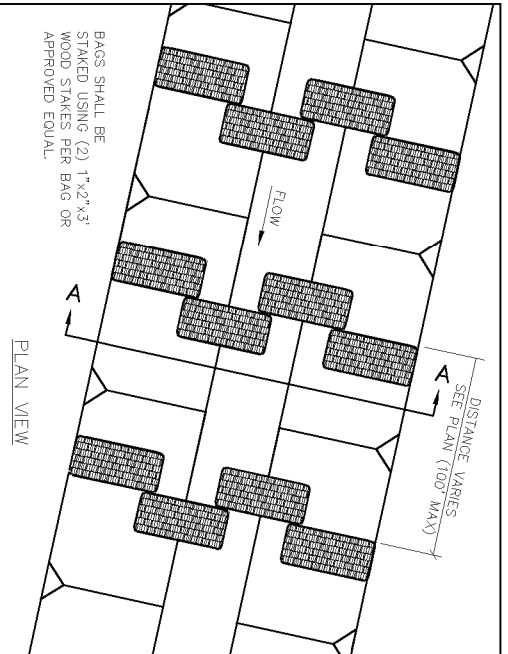
1. SEDIMENT BARRIERS SHALL BE MAINTAINED UNTIL UP-SLOPE AREA IS PERMANENTLY STABILIZED.
2. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE BEHIND SEDIMENT FENCES OR BIOFILTER BAGS.
3. NEW SEDIMENT BARRIERS SHALL BE INSTALLED UPHILL AS REQUIRED TO CONTROL SEDIMENT TRANSPORT.

LAST REMOISON DATE: APRIL 2014	JO # STANDARD
SEDIMENT BARRIERS	
(NTS)	
WESTTECH ENG.	DETAIL NO. 61110



- MAINTENANCE NOTES:
1. SEDIMENT BARRIERS SHALL BE MAINTAINED UNTIL UP-SLOPE AREA IS PERMANENTLY STABILIZED.
  2. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE BEHIND SEDIMENT FENCES OR BIOFILTRATION BAGS.
  3. NEW SEDIMENT BARRIERS SHALL BE INSTALLED UPHILL AS REQUIRED TO CONTROL SEDIMENT TRANSPORT.
- |                     |      |          |
|---------------------|------|----------|
| LAST MODIFIED DATE: | 20 # | STANDARD |
| APRIL 2014          |      |          |
- INLET SEDIMENT CONTROL
- (NYS)

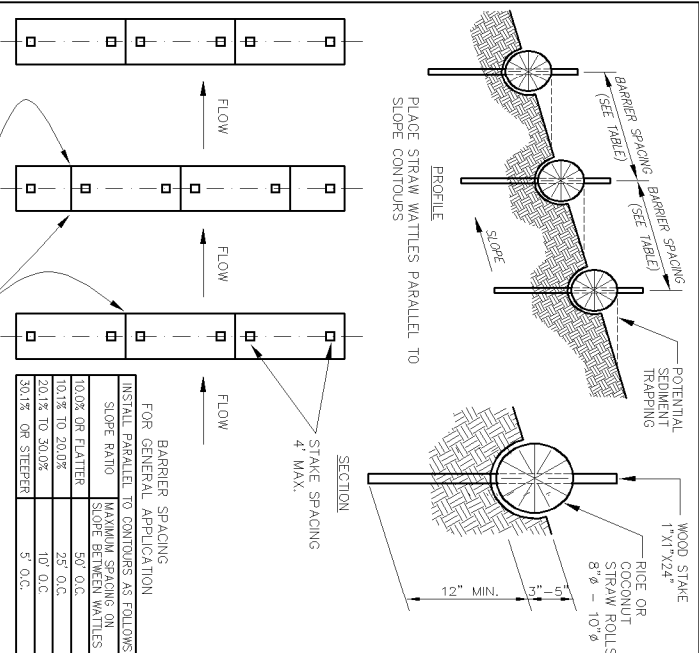
LAST REVISION DATE: APRIL 2014	JO #
STAND.	
INLET SEDIMENT CONTROL	
(NTS)	
WESTTECH ENG.	DETAIL NO. 613



1. SEDIMENT BARRIERS SHALL BE MAINTAINED UNTIL UP-SLOPE AREAS ARE PERMANENTLY STABILIZED.
  2. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE BEHIND BIOFILTER BAGS.
  3. NEW SEDIMENT BARRIERS SHALL BE INSTALLED UPHILL AS REQUIRED TO CONTROL SEDIMENT TRANSPORT.
  4. P.T. 'A' SHALL BE 6" MIN. HIGHER THAN P.T. 'B'.
- |                    |          |
|--------------------|----------|
| DATE REVISION DATE | 20 #     |
| APRIL 2014         | STANDARD |
- DITCH AND SWALE  
EROSION PROTECTION**
- (N/S)
- |                    |                 |
|--------------------|-----------------|
| UNCONTROLLED (N/S) | DISTAL NO. 0440 |
|--------------------|-----------------|

SECTION A-A

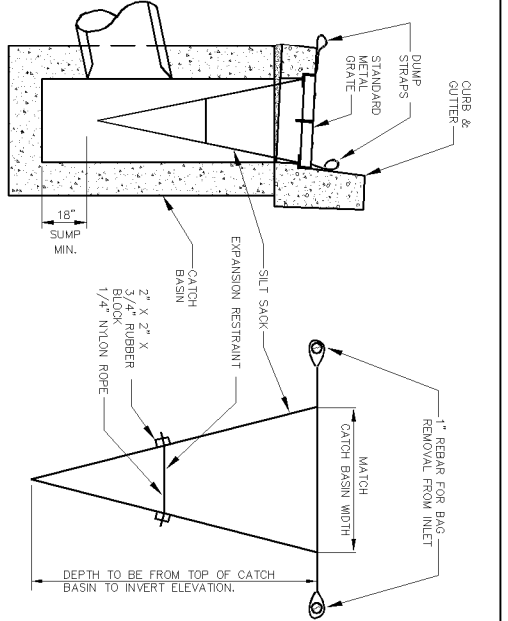
LAST REVISION DATE: APRIL 2014	JO # STANDARD
<p align="center"><b>DITCH AND SWALE EROSION PROTECTION</b></p> <p align="center">(NTS)</p>	
WESTTECH ENG.	DETAIL NO. <b>6140</b>



- |   |       |                   |                                  |
|---|-------|-------------------|----------------------------------|
| ADJACENT WATILES  | ELKIN | STAGGER           | JONITS                           |
| NOTES:  |       |                   |                                  |
| 1. ALL MATERIAL SHALL CONFORM TO OOSC (0007/APMA)<br>SPECIFICATIONS, CURRENT EDITION.<br>2. UP-SLOPE AREAS SHALL BE MAINTAINED UNTIL<br>AT NO TIME SHALL SEDIMENT BE ALLOWED TO<br>ACCUMULATE ABOVE THE TOP OF THE STRAW WATTLE<br>3. STRAW WATTLE SHALL BE PLACED IN SUCH MANNER<br>AS REQUIRED TO CONTROL SEDIMENT TRANSPORT. |       |                   |                                  |
| STRAW WATTLE<br>SEDIMENT BARRIER<br>(NTS)   |       | JOB #<br>STANDARD | LAST REVISION DATE<br>JUNE, 2015 |
| WESTECH ENG.  |       | SHEET NO.<br>6120 |                                  |

NOTES:

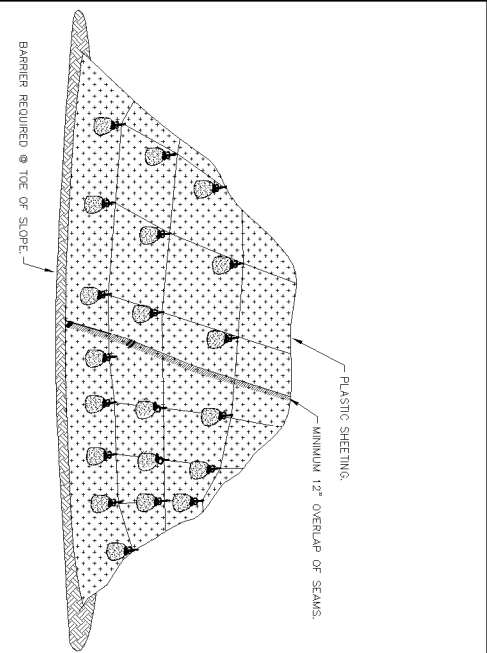
LAST REMISION DATE	JO #
JUNE 2015	STANDARD
<p align="center"><b>STRAW WATTLE SEDIMENT BARRIER</b></p> <p align="center">(NTS)</p>	
WESTTECH ENG.	DETAIL NO.
	6120



- |                    |          |
|--------------------|----------|
| DATE REVISION MADE | 30 #     |
| OCT 2002           | STANDARD |

NOTES:

LAST REVISION DATE: OCT 2002	JO # STANDARD
<p align="center"><b>SILTSACK INLET DETAIL</b> (NTS)</p>	
WESTTECH ENG.	DETAIL NO. <b>6150</b>

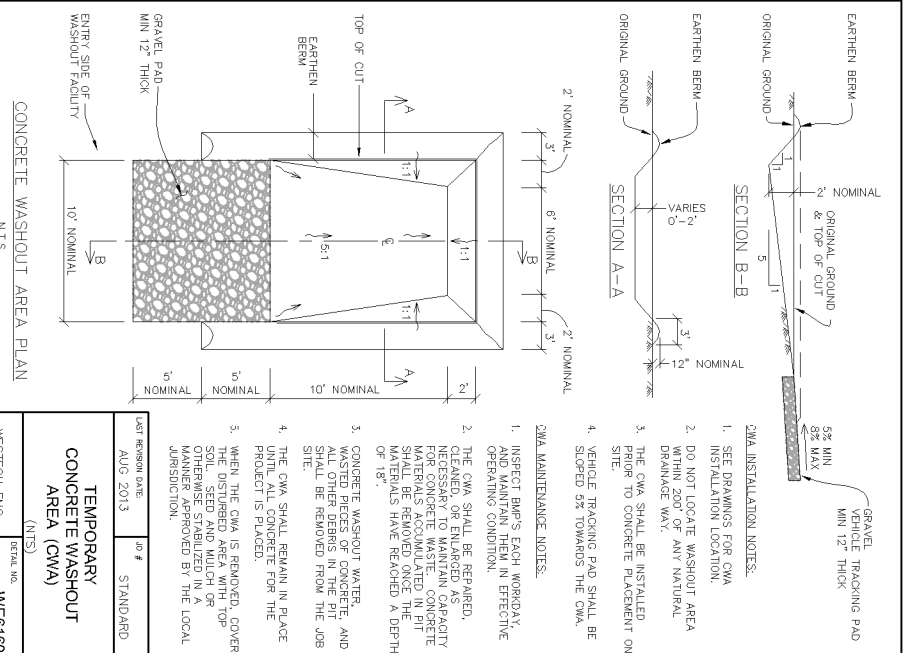


- |   | LAST REVISION DATE | LOT # | STANDARD |
|---|--------------------|-------|----------|
| 1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.   | JAN 2019           |       |          |
| 2. SEDIMENT BARRIER REQUIRED @ TOE OF STOCK PILE.   |                    |       |          |
| 3. COVERING MAINTAINED TIGHTLY IN PLACE BY THE CONTRACTOR THROUGHOUT THE PROJECT. A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS. |                    |       |          |
| 4. PLASTIC SHEETING TO EXTEND A MINIMUM OF 12" PAST THE BOTTOM OF THE PILE ONTO SURROUNDING GRADE ON ALL SIDES.                 |                    |       |          |
- STOCKPILE  
DETAIL**

(N.S.)

100

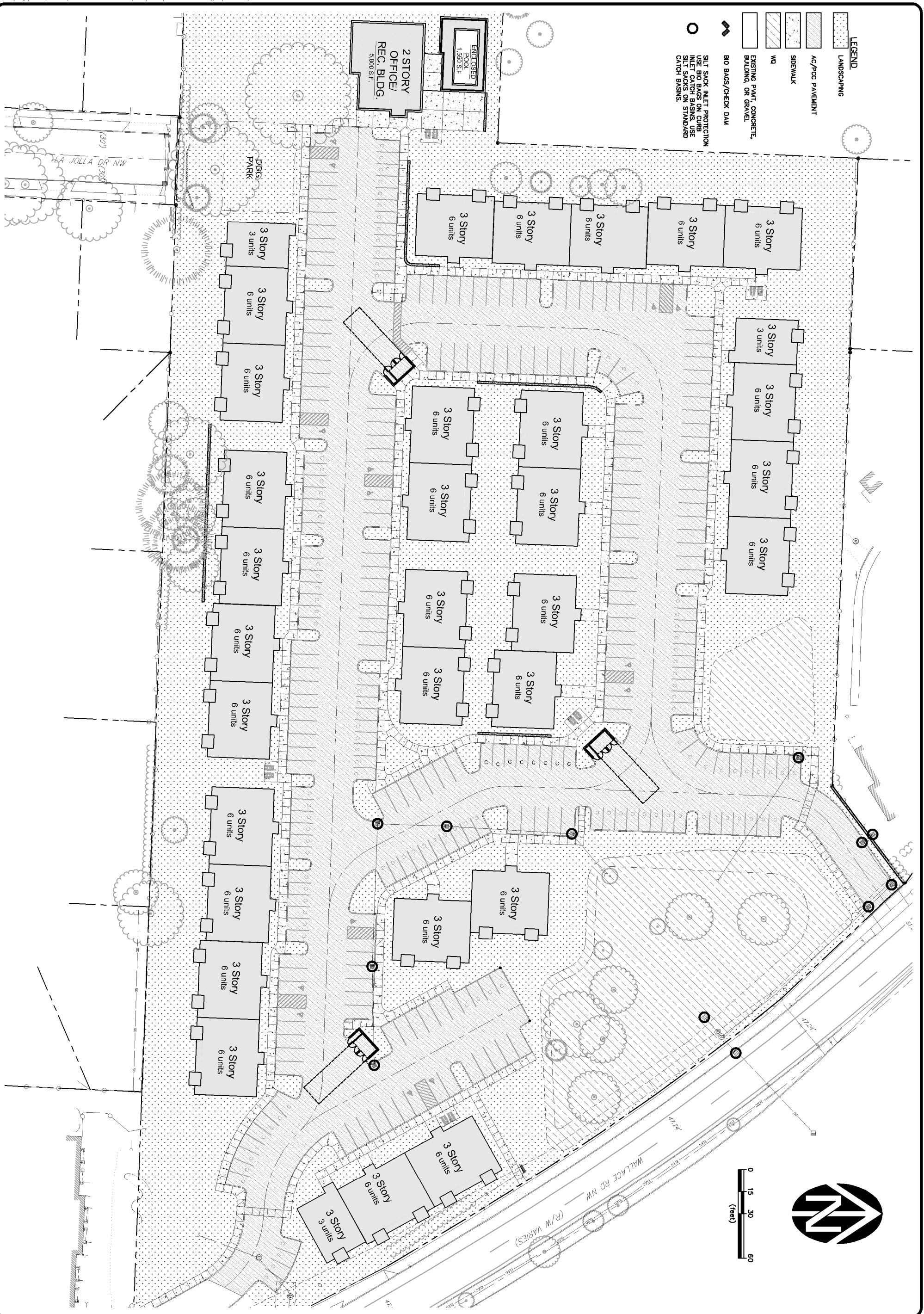
LAST REVISION DATE: JAN 2019	JO # STANDARD
<p align="center"><b>STOCKPILE DETAIL</b></p> <p align="center">(NTS)</p>	
WESTTECH ENG.	DETAIL NO. <b>6170</b>



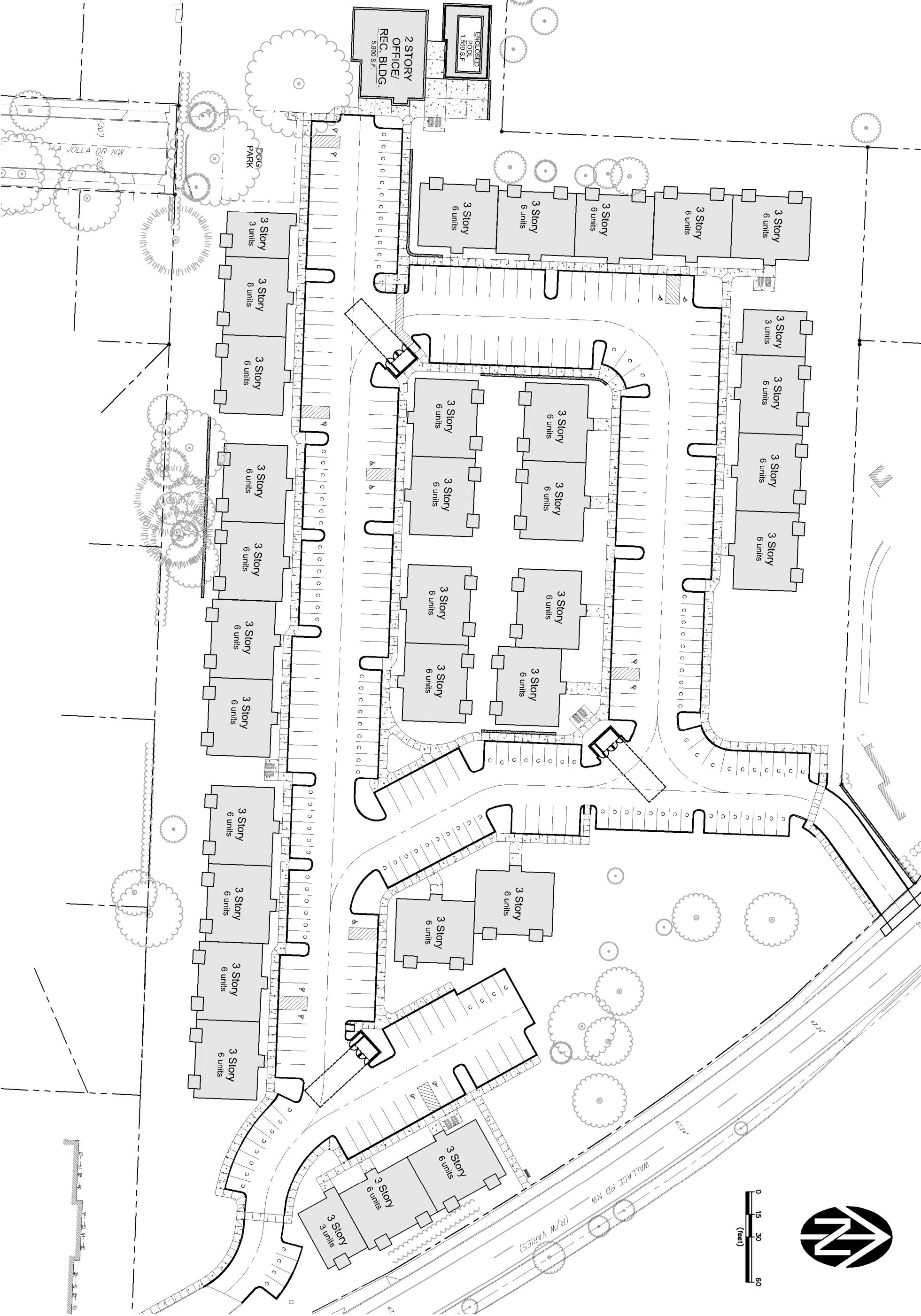
1. CONCRETE MAINTENANCE NOTES:
  - a. SEE DRAWINGS FOR CMA INSTALLATION LOCATION.
  - b. DO NOT LOCATE WASTOUT AREA WITHIN 500' OF ANY NATURAL DRAINAGE WAY.
  - c. THE CMA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT SITE.
  - d. VEHICLE TRACKING PAD SHALL BE SLOPED 5% TOWARDS THE CMA.
2. CMA MAINTENANCE NOTES:
  - a. INSPECT BMP'S EACH WORKDAY, OPERATING CONDITIONS.
  - b. THE CMA SHALL BE REPAIRED, NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTED. CONCRETE SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 18".
  - c. CONCRETE WASTOUT WATER, AND WASTED PORTIONS OF CONCRETE, AND ALL OTHER DEBRIS IN THE PIT SHALL BE REMOVED FROM THE JOB SITE.
  - d. THE CMA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
  - e. WHEN THE CMA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR EQUIVALENT, APPROVED BY THE LOCAL JURISDICTION.

PRIOR TO CONCRETE PLACEMENT

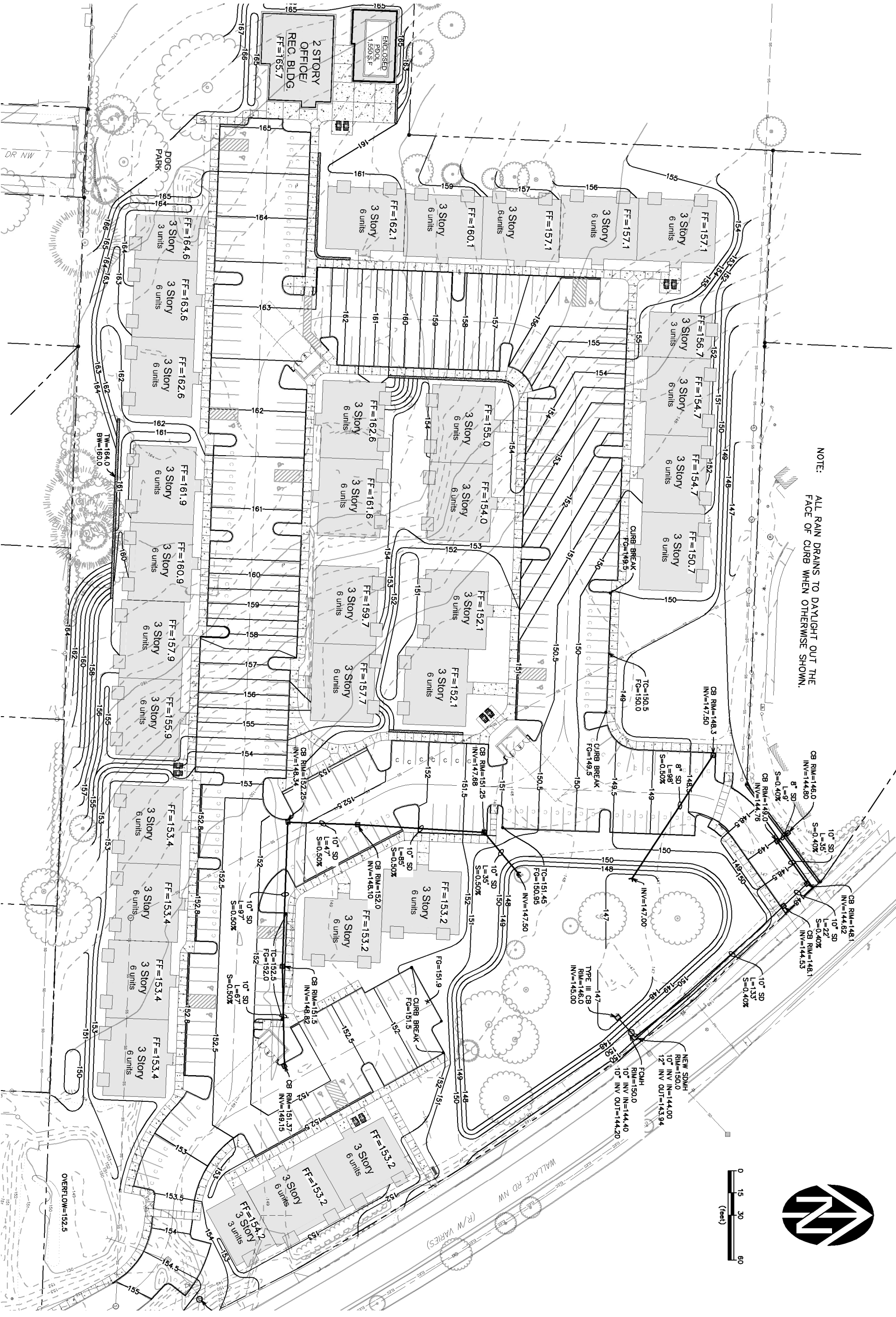
LAST REVISION DATE: AUG. 2013	JO # STANDARD
TEMPORARY CONCRETE WASHOUT AREA (CWA) (NTS)	
WESTTECH ENG.	DETAIL NO. WEB6160



JOB NUMBER <b>C2.3</b> DRAWING	SCOTT MARTIN RIVERBEND ROAD SITE PHASE II		<div style="text-align: center;"> <p>WESTECH ENGINEERING, INC. CONSULTING ENGINEERS AND PLANNERS</p> <p>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</p> </div>		<div style="text-align: center;"> <p><b>REVIEW</b></p> <p>REGISTERED PROFESSIONAL ENGINEER OREGON STEVEN A. WARD LICENSE NO. 16, 1989</p> <p>REVISIONS: 6/30/2022</p> </div>		VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY					
						DSN. SAW DRN. AR CKD. SAW DATE: JAN 2021		1 NO. DATE DESCRIPTION REVISIONS		BY		



DRAWING <b>C2.4</b> JOB NUMBER 3048.0000.0	SCOTT MARTIN RIVERBEND ROAD SITE PHASE II		 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	 <b>REVIEW</b> RENEWED: 6/30/2022	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				1					
	CKD. SAW									
DATE: JAN 2021		NO.	DATE	DESCRIPTION		BY				
				REVISIONS						



SCOTT MARTIN  
RIVERBEND ROAD SITE PHASE II

GRADING & DRAINAGE PLAN

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  
STEVEN A. WARD  
EX-15, 16, 18, 19  
RENEWED: 6/30/2022

REVIEW

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

DSN.	SAW	NO.	DATE	DESCRIPTION	BY
DRN.	AR	1			
CKD.	SAW				
DATE:	JAN 2021				

JOB NUMBER  
3048.0000.0

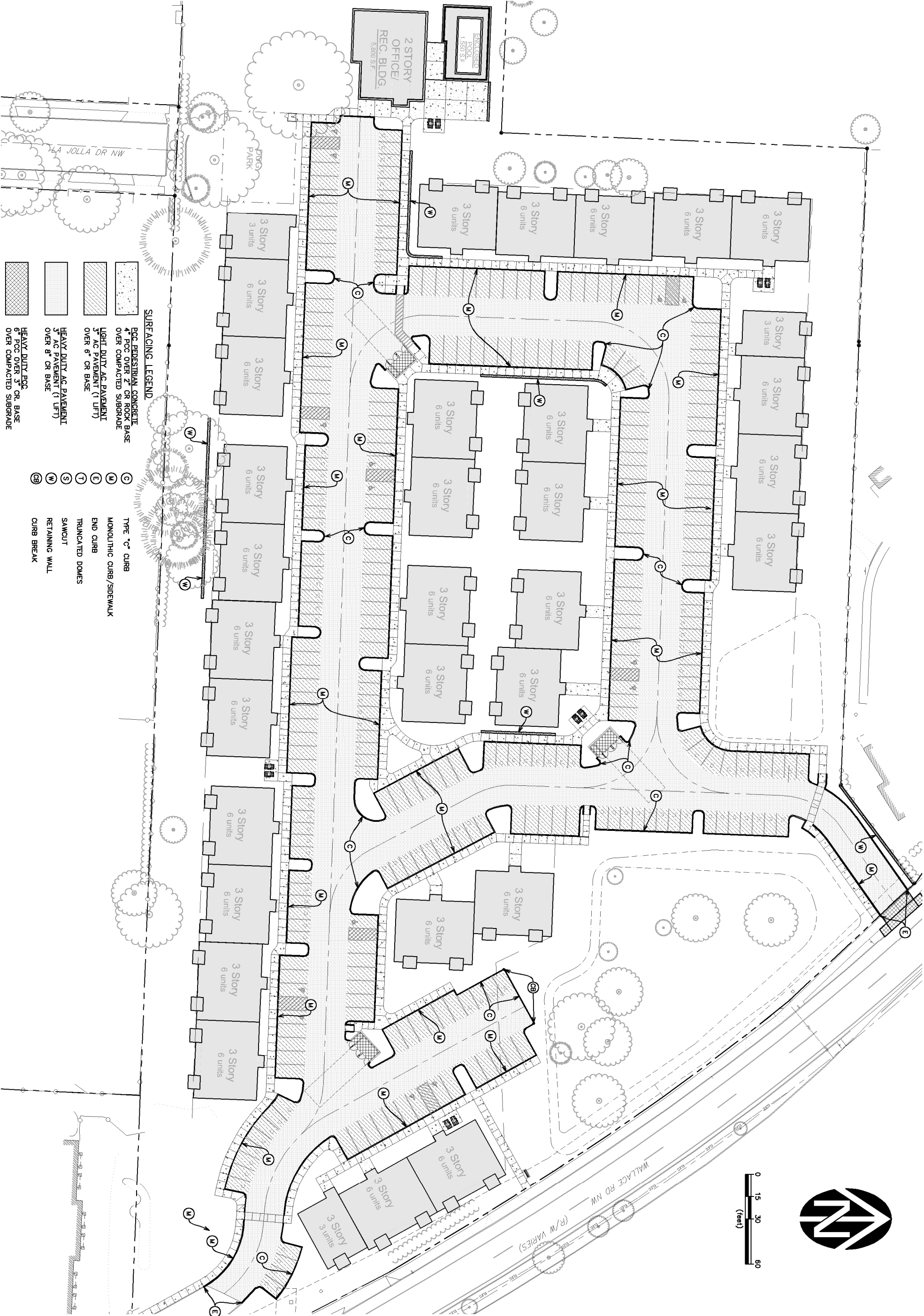
DRAWING  
C3.0

3048.0000.0

3048.0000.0

3048.0000.0

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SCOTT MARTIN  
RIVERBEND ROAD SITE PHASE II

**SURFACING PLAN**

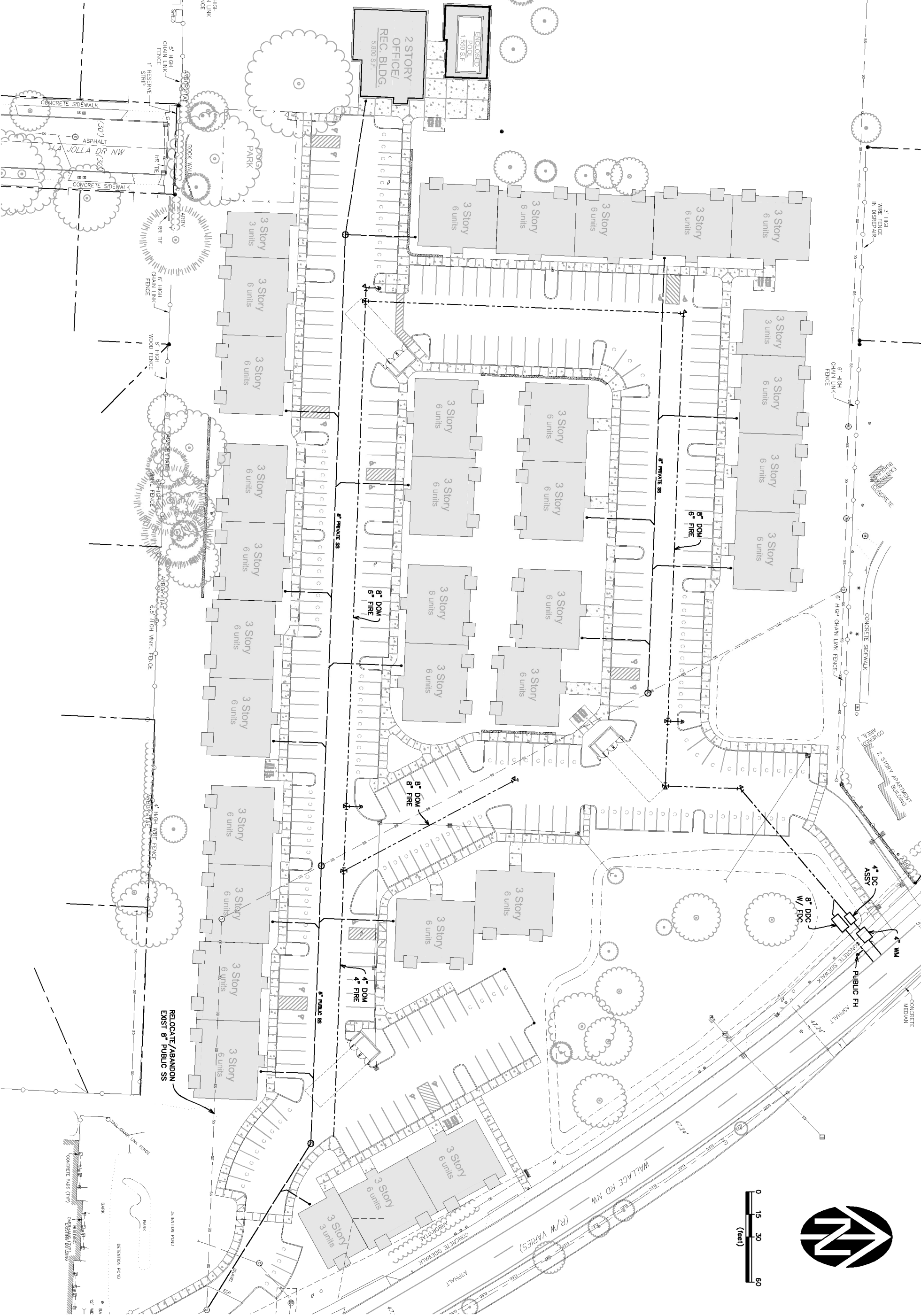
**WE**  
WESTECH ENGINEERING, INC.  
CONSULTING ENGINEERS AND PLANNERS  
3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302  
Phone: (503) 585-2474 Fax: (503) 585-3986  
E-mail: westech@westech-eng.com

**REGISTERED PROFESSIONAL ENGINEER**  
**STEVEN A. WARD**  
EXPIRATION DATE: 12/31/2022  
RENEWED: 6/30/2022

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	NO.	DATE	DESCRIPTION	BY
								REVISIONS	

DRAWING  
**C3.1**  
JOB NUMBER  
3048.0000.0



SCOTT MARTIN  
RIVERBEND ROAD SITE PHASE II

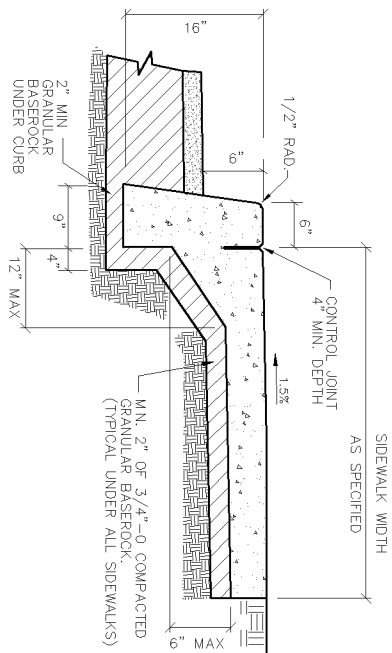
OVERALL UTILITY PLAN

**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**  
STEVEN A. WARD  
EXPIRATION DATE: 12/31/2022  
RENEWAL DATE: 6/30/2022

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

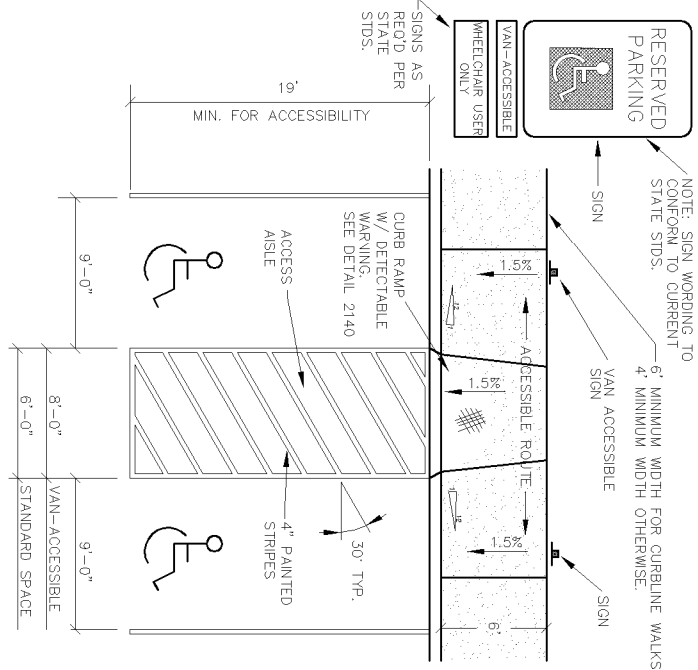
DSN.	SAW	NO.	DATE	DESCRIPTION	BY
DRN. AR /ARK /IH	1				
CKD. SAW					
DATE: JAN 2021					



## TYPICAL SECTION

1. CONCRETE DEPTH FOR STANDARD SIDEWALKS SHALL BE 4" MIN.
2. CONCRETE SHALL BE 3500 PSI @ 28 DAYS.
3. INSTALL TOOLED CONTRACTION JOINTS AT 5' INTERVALS. SIDEWALKS TO & UNDER SHALL HAVE AN ADDITIONAL CONTRACTION JOINT AT 5' ON CENTER.
4. INSTALL MIN. 2 WEEP HOLES ON ALL LOTS. ONE WEEPHOLE BEHIND CURB POINT OF LOT 5' FROM P.A. CONTRACTION JOINT SHALL BE PLACED ALONG AND OVER WEEPHOLE & DRAIN PIPE
5. PUBLIC SIDEWALKS SHALL BE LOCATED ENTIRELY WITHIN RIGHT-OF-WAYS OR SIDEWALK EXTENDENTS, INCLUDING SIDEWALKS AT DRIVEWAY APRONS.

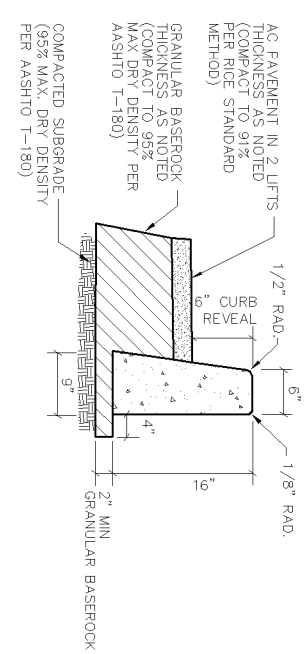
LAST REVISION DATE: NOV 2013	JO # STANDARD
<p align="center"><b>MONOLITHIC CURB AND SIDEWALK</b></p> <p align="center">(NTS)</p>	
WESTTECH ENG.	DRAWING NO. <b>2112</b>



**DOUBLE ACCESSIBLE PARKING SPACE**

1. ONE "CESSIBLE PARKING SPACE MUST BE DESIGNATED "VAN-ACCESSIBLE". THE OTHER SPACE CAN BE EITHER "VAN-ACCESSIBLE" OR STANDARD PARKING SPACE.
2. VAN-ACCESSIBLE OR WHEELCHAIR ONLY SPACES SHALL HAVE AN ADDITIONAL SIGN MOUNTED BELOW THE STANDARD PARKING SPACE PARKING SIGN.
3. VAN-ACCESSIBLE SPACE CAN BE USED BY ANY VEHICLE WITH A DMV DISPLAYED PERMIT.
4. MAXIMUM 2% CROSS SLOPE ALLOWED IN PARKING SPACE OR ACCESS AISLE.
5. POST MOUNTED SIGNS SHALL HAVE 7' (+/-3") CLEARANCE FROM SIGN BOTTOM TO GROUND.

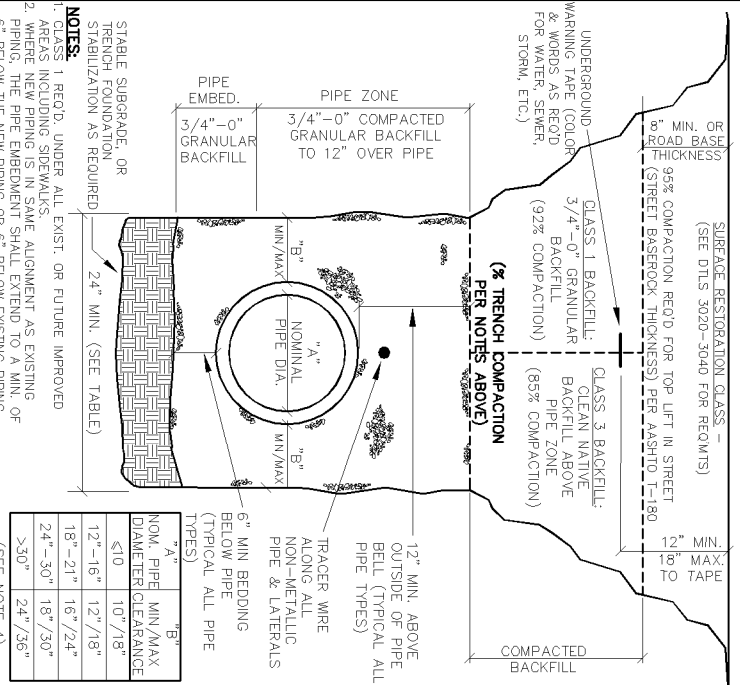
LAST REVISION DATE: AUG 2019		JG # STANDARD
<p style="text-align: center;"><b>DOUBLE ACCESSIBLE PARKING SPACE</b></p> <p style="text-align: center;">(NTS)</p>		
WESTTECH ENG.		DETAIL NO. <b>2370</b>



PAVEMENT TYPE "C" CURB DETAIL

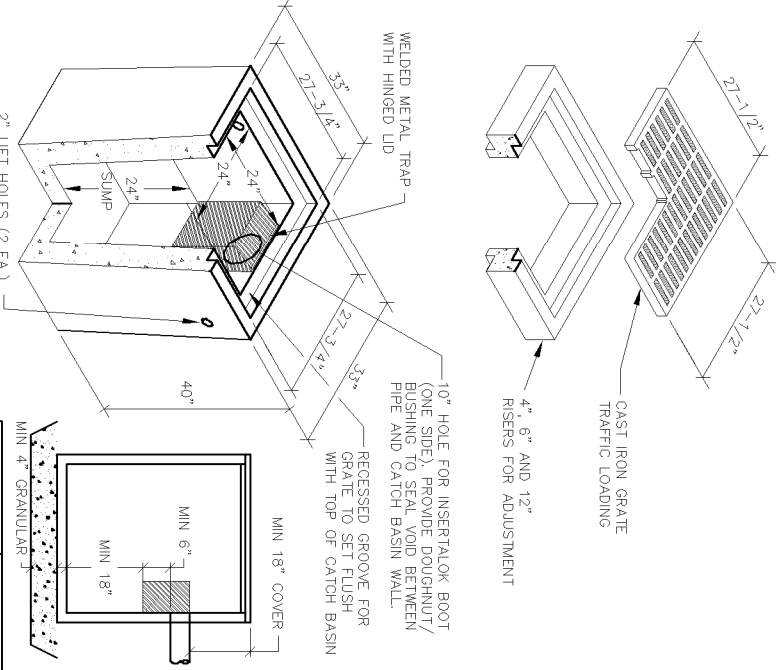
- |   |  |  |
|---|--|--|
| 1. SEE GRADING PLAN FOR LOCATION OF LIGHT AND HEAVY DUTY PAVEMENT.  |  |  |
| 2. DESIGN SUBGRADES SHALL BE COMPACTED AND PROOF-ROLLED PRIOR TO PLACEMENT OF BASECOURSE. IF SUBGRADE PASSES PROOF-ROLL BUT FAILS DENSITY TESTING, MIN. 4.5 TO 20% NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO PLACEMENT OF BASECOURSE. FAILURE OF PROOF-ROLL WILL REQUIRE OVEREXCAVATION. |  |  |
| 3. IF SUBGRADE FAILS THE PROOF-ROLL, SUBGRADE SHALL BE OVEREXCAVATED TO UNDISTURBED SOIL AND BACKFILLED WITH BASECOURSE OVER MIN. 6.0 TO 12.0% NON-WOVEN FABRIC AS REQUIRED TO ALLOW CONSTRUCTION OF THE PROPOSED PAVEMENT SYSTEMS.   |  |  |
| 4. TYPICAL MIN. OVEREXCAVATION REQUIRED IS 12-INCHES. NO RUBBER TIRRED EQUIPMENT ALLOWED ON SUBGRADE FOLLOWING OVEREXCAVATION.  |  |  |
| 5. SUBGRADE TO BE PROPORTIONED IMMEDIATELY PRIOR TO PLACING BASECOURSE. BASECOURSE TO BE PROPORTIONED IMMEDIATELY PRIOR TO PAVING.  |  |  |
| 6. CONTRACTOR JOINTS SHALL BE PLACED AT 15' MIN. INTERVALS AND SHALL EXTEND AT LEAST 50% THROUGH THE CURB SECTION.  |  |  |
| 7. ALL CONCRETE SHALL BE 3500 PSI @ 28 DAYS.  |  |  |
| 8. CURBS TO CURE A MINIMUM OF 7 DAYS PRIOR TO PLACING FINAL BASECOURSE AND PAVING.  |  |  |
| 9. USE TYPE 1 OR 1-D CLEAR CURING COMPOUND.   |  |  |
- |  |        |
|--|--------|
| LAST REVISION DATE                           | 2 OF 4 |
| DEC. 1999                                    | X      |
| <b>PAVEMENT AND<br/>TYPE 'C' CURB DETAIL</b> |        |
| (NTS)  |        |
| DRAWING NO.                                  |        |
| WESTECH, INC.                                | 2390   |

LAST REVISION DATE: DEC. 1999		JO. # X
<p style="text-align: center;"><b>PAVEMENT AND TYPE 'C' CURB DETAIL</b></p> <p style="text-align: center;">(NTS)</p>		
WESTTECH. ENG.		DETAIL NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">2390</div>



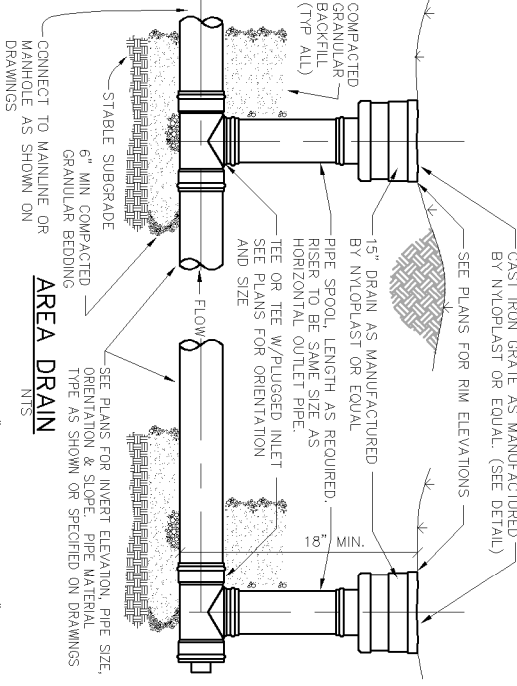
NOM. PIPE DIAMETER	"A"	"B"
≤10	10"/18"	
12"-16"	12"/18"	
18"-21"	16"/24"	
24"-30"	18"/30"	
>30"	24"/36"	

3. FOR FLEXIBLE SPRING, BOTTOM OF TRENCH SHALL BE BELOW THE PIPE SPRINGLINE AND UNDER THE PIPE HAUNCHES.
4. MINIMUM CLEARANCES SHOWN ("BT") ASSUMES STANDARD 6" WALL TRENCH BOXES SET ON TRENCH BOTTOMS, AND MINIMUM CLEARANCES SHOWN ("BT") ASSUMES STANDARD MATERIAL UNDER PIPE HAUNCHES ("BT") AND LOSS OF SIDE SUPPORT WHEN TRENCH BOX IS MOVED OR PULLED FORWARD. WIDE WIDTH REDUCTION REQUIRES PRIOR APPROVAL. BASED ON ACTUAL TRENCH SHORING PROPOSED.



- 2" LIFT HOLES (2 EA.) —

LAST REVISION DATE: JULY 2012	NO. # STANDARD
<b>PARKING LOT CATCH BASIN</b> <b>(PRECAST CONCRETE)</b>	
(NTS)	
DETAIL NO.	
3150	
WESTTECH ENG.	



15" CAST IRON GRATE DETAIL

- NOTES:
1. AREA DRAIN NOT FOR USE IN AREAS SUBJECT TO VEHICLE TRAFFIC.
  2. USE WATERTIGHT GASKETED FITTINGS AND ADAPTERS FOR ALL PIPE CONNECTIONS.
  3. ALL GATES IN PEDESTRIAN AREAS SHALL CONFORM WITH ADA REQUIREMENTS, INCLUDING GRATE OPENING SIZE.

LAST REVISION DATE: SEP. 2005	JO. # STANDARD
<p align="center"><b>AREA DRAIN, LANDSCAPE AND PEDESTAL AREAS (NON-TRAFFIC)</b></p> <p align="center">(NTS)</p>	
WESTTECH. ENG.	DETAIL NO. <p align="center"><b>3550</b></p>

