DRAWINGS FOR:

OREGON STATE CORRECTIONAL INSTITUTION SITE FIRE LINE UPGRADE SALEM, OREGON

AS-BUILT

DATA FURNISHED BY CONTRACTOR X FIELD INSPECTION RECORDS _____

FOR:

Oregon Department of Corrections

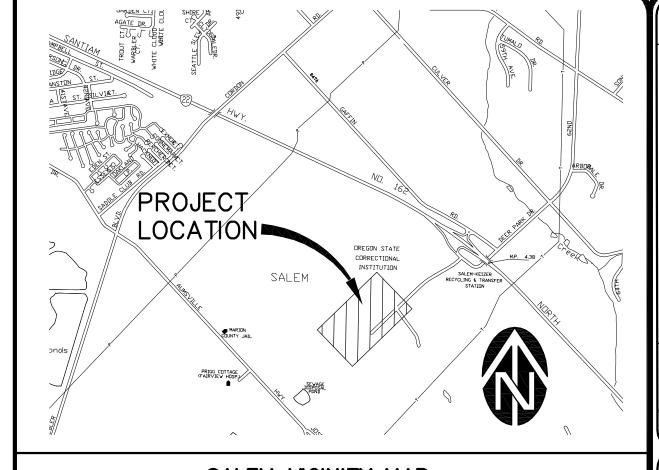
Attn: Paul Stanley

1793 13th Street SE

3601 State Street Salem, OR 97302 97301

(503) 480-6281

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SALEM VICINITY MAP

_	SENERAL LEGE		
<u>EXISTING</u>	<u>PROPOSED</u>	<u>ITEM</u>	
	\oplus	CROSS	
\	\ \	TEE	
——	—	PLUG	
- > -	→	REDUCER	
	Q Ka	FIRE HYDRANT	
~	⊄ ⊗	FIRE HYDRANT ASSEMBLY	
\otimes	\otimes	VALVE	
>	>	THRUST BLOCKING	
—□ ^{WM}	− □ ^{WM}	WATER METER	
\odot	©	BLOW-OFF	
		TYPE III CATCH BASIN	
	<u> </u>	CURB CATCH BASIN	
		PARKING LOT CATCH BASIN	
		JUNCTION BOX	
	•	AREA DRAIN	
0	0	STORM SEWER MANHOLE	
© co	\$	SANITARY SEWER MANHOLE	
co	O	CLEANOUT	
TEL	① TEL	TELEPHONE MANHOLE	
\triangle	A	TELEPHONE PEDESTAL	
TV	TV	CABLE TV PEDESTAL	
		DITCH/CHANNEL	
> — ≺	>	SMALL CULVERT (<36" DIA.)	
		LARGE CULVERT (>36" DIA.)	
MB	<u>МВ</u>	MAIL BOX	
	<u> </u>	SIGN	
ф	Ф	LIGHT POLE	
-0-	-	UTILITY POLE	
>	⋫	UTILITY POLE W/LIGHT	
\bigcirc	● →⊃	UTILITY POLE WITH GUY	
		UTILITY VAULT	
		BUILDING	
		HEDGE OR BRUSH	
		TREES	
8" SS	< 8" SS >	- SANITARY SEWER	
10" SD	< 10" SD >	- STORM DRAIN	
8" W	<u> </u>	- WATER	
G	<u>G</u>	- GAS	
	TEL	TELEPHONE	
<u>PWR</u>	<u>PWR</u>	- POWER	
	TV	- CABLE TELEVISION	
R/W P/L	R/W P/L	- RIGHT-OF-WAY	
E/P	E/P	- PROPERTY LINE	
C <u>/</u> L	C/L	- EDGE OF PAVEMENT - CENTER LINE	
		- SAWCUT LINE	

1. Contractor shall procure and conform to all construction permits required by the City of Salem.

- 2. ATTENTION: Oregon law requires you 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. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987).
- 3. Contractor to notify City and all utility companies a minimum of 48 business hours (2 business days) prior to start of construction, and comply with all other notification requirements of agencies with jurisdiction over the work.
- 4. 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.
- 5. Elevations shown on the drawings are based from City of Salem benchmark 470260, Elevation 244.69 (NGVD 1929 datum), consisting of a aluminum cap located at the southwest corner of a bridge on Kuebler Blvd over Mill Creek, in the top of a concrete barrier, 4 feet west of the end of the barrier. Surveying for design was completed by Barker Surveying at (503) 588-8800.
- 6. The contractor shall pay for the services of a registered Civil Engineer and/or Land Surveyor licensed in the State of Oregon to establish construction control and perform initial construction surveys to establish the lines and grades of improvements as indicated on the drawings. Staking for buildings, structures, curbs, gravity drainage pipes/structures and other critical improvements shall be completed using equipment accurate to 0.04 feet horizontally and 0.02 feet vertically, or better. Use of GPS equipment for construction staking of these 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.

TRAFFIC CONTROL

7. Contractor shall erect and maintain barricades, warning signs, traffic cones (and all other traffic control devices required) per Owner and 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.

EXISTING UTILITIES & FACILITIES:

- 8. 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.
- 9. 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.
- 10. 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.
- 11. Contractor shall field verify location and depth of all existing utilities where new facilities cross. All utility crossings marked or shown on the drawings shall be potholed using hand tools or other non—invasive methods prior to excavating or boring. Contractor shall be responsible for exposing potential utility conflicts far enough ahead of construction to make necessary grade or alignment modifications without delaying the work. If grade or alignment modification is necessary, Contractor shall notify the Design Engineer, and the Design Engineer or the Owner's Representative shall obtain approval from the City prior to construction.
- 12. 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.

- 13. Contractor shall remove all existing signs, mailboxes, fences, landscaping, etc., as required to avoid damage during construction and replace them to existing or better
- 14. 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:

- 15. Unless otherwise noted, all grading, rocking and paving to conform to Oregon Standard Specifications for Construction (OSSC/ODOT/APWA), 2008 edition.
- 16. 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.
- 17. 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.
- 18. Immediately following stripping and grading operations, compact subgrade to 95% 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 embankments, engineered fills or fine grading for base rock.
- 19. Granular baserock shall conform to the requirements of OSSC (ODOT/APWA) 02630.10 (Dense Graded Base Aggregate). Compact baserock to 95% of the maximum dry density per AASHTO T-180 test method (Modified Proctor). Written baserock compaction test results from an independent testing laboratory must be received by the Owner's authorized representative before placing AC pavement.
- 20. A.C. pavement shall conform to OSSC (ODOT/APWA) 00744 (Hot Mixed Asphalt Concrete Pavement). Unless otherwise specified or shown on the drawings, base lifts shall be 3/4" dense graded mix, while wearing courses shall be 1/2" dense graded mix. Unless otherwise specified or shown on the drawings, A.C. pavement for parking lots and streets shall be Level 2 mix (50 blow Marshall) per OSSC (ODOT/APWA) 00744.13. A.C. Pavement shall be compacted to a minimum of 91% of maximum density as determined by the Rice standard method. Written AC pavement compaction test results from an independent testing laboratory must be received by the Owner's authorized representative before final payment.
- 21. Unless otherwise shown on the drawings, straight grades shall be run between all finish grade elevations and/or finish contour lines shown.
- 22. 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.
- 23. 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 nut.
- 24. Unless otherwise shown on the drawings, no cut or fill slopes shall be constructed steeper than 4H:1V.
- 25. Contractor shall seed and mulch (uniformly by hand or hydroseed) all exposed slopes and disturbed areas which are not scheduled to be landscaped, including trench restoration areas.

CURBS & SIDEWALKS:

26. Where trench excavation requires removal of PCC curbs and/or sidewalks, the curbs and/or sidewalks shall be sawcut and removed at a tooled joint unless otherwise authorized in writing by the City. The sawcut lines shown on the drawings are schematic and not intended to show the exact alignment of such cuts.

PIPED UTILITIES:

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

- 28. All pipes shall be bedded with minimum 6-inches of 3/4"-0 crushed rock bedding and backfilled with compacted 3/4"-0 crushed rock in the pipe zone (crushed rock shall extend a minimum of 12-inches over the top of the pipe in all cases). Unless CDF or other backfill is shown or noted on the drawings, crushed rock trench backfill shall be used under all improved areas, including pavement, sidewalks, foundation slabs, buildings, etc.
- 29. Granular trench bedding and backfill shall conform to the requirements of OSSC (ODOT/APWA) 02630.10 (Dense Graded Base Aggregate), 3/4"-0. Unless otherwise shown on the drawings, compact granular backfill to 92% of the maximum dry density per AASHTO T-180 test method (Modified Proctor).
- 30. 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.
- 31. 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.

32. All water mains shall be Class 52 ductile iron. All fittings 4—inches through 24—inches in diameter shall be ductile iron fittings in conformance with AWWA C-153 or AWWA C-110. The minimum working pressure for all MJ cast iron or ductile iron fittings 4—inches through 24—inch in diameter shall be 350 psi for MJ fittings and 250 psi for flanged fittings.

- 33. 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.
- 34. Thrust restraint shall be provided on all bends, tees and other direction changes per local jurisdiction requirements and as specified or shown on the drawings. Unless otherwise shown or approved by the Engineer, all valves shall be flange connected to adjacent tees or crosses.
- 35. Provisions for thrust restraint shall be provided on any fire line at the point where it enters the building envelope. Unless fire line ends under the building with a vertical bend (with retainer glands & a vertical thrust block), a straddle block shall be installed 6 feet minimum from the building foundation wall (with no unrestrained joints between the straddle block & the pipe end inside the building wall).
- 36. Contractor shall provide all necessary equipment and materials (including plugs, blowoffs, valves, service taps, etc.) required to flush, test and disinfect waterlines per public agency requirements.
- 37. 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 City and all affected residents and businesses a minimum of 24 business hours (1 business day) before any interruption of service.
- 38. Pressure Testing. All waterlines, services and appurtenances shall be pressure tested for leakage. All testing shall conform to requirements as outlined in the specifications, City 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.
- 39. Cleaning & Flushing. After the pressure test, the water lines shall be thoroughly flushed through hydrants, blow offs or by other approved means.

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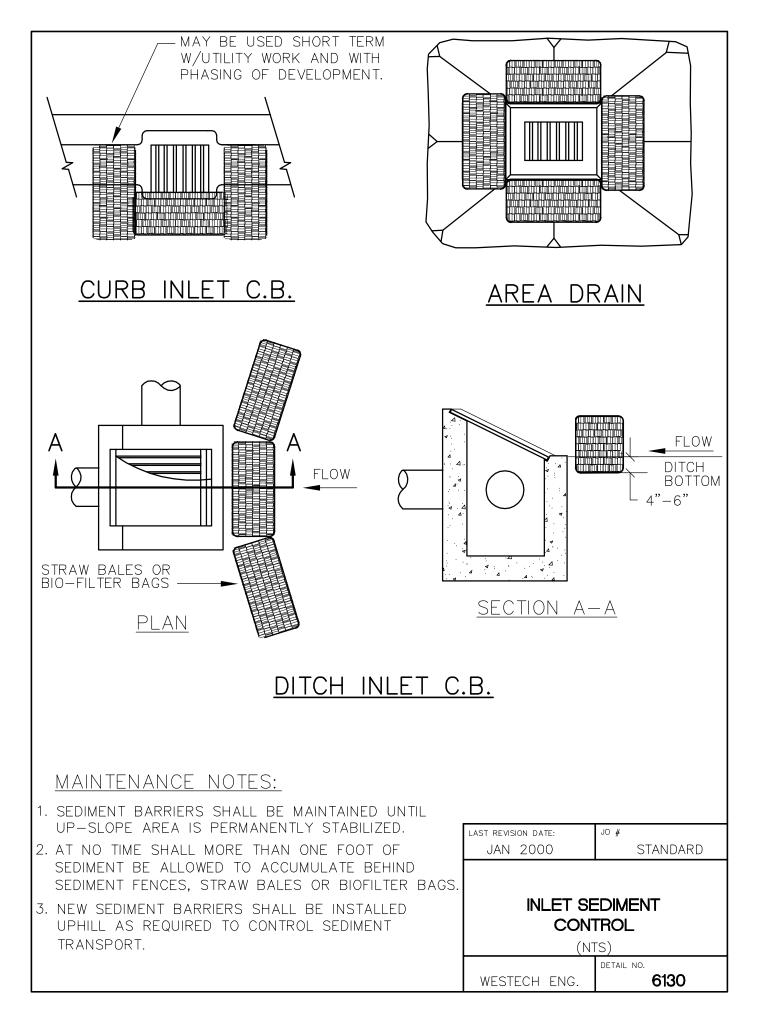
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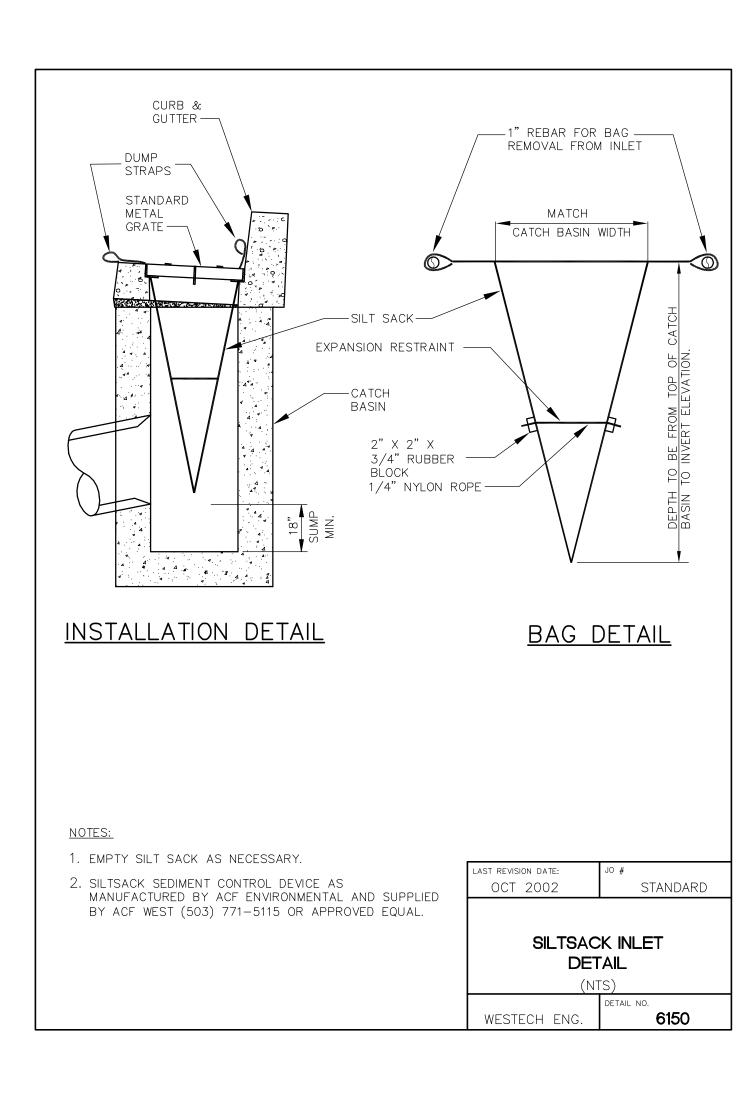
WESTECH ENGINEERING, INC.

DATE: <u>03/28/13</u> BY: <u>RCE</u>

CONSTRUCTE INC. ENGINEERING, Engineers and plat WESTECH
CONSULTING E SHEET _ OF __11 JOB NUMBER

2664.3000.0





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WESTECH ENGINEERING, INC.

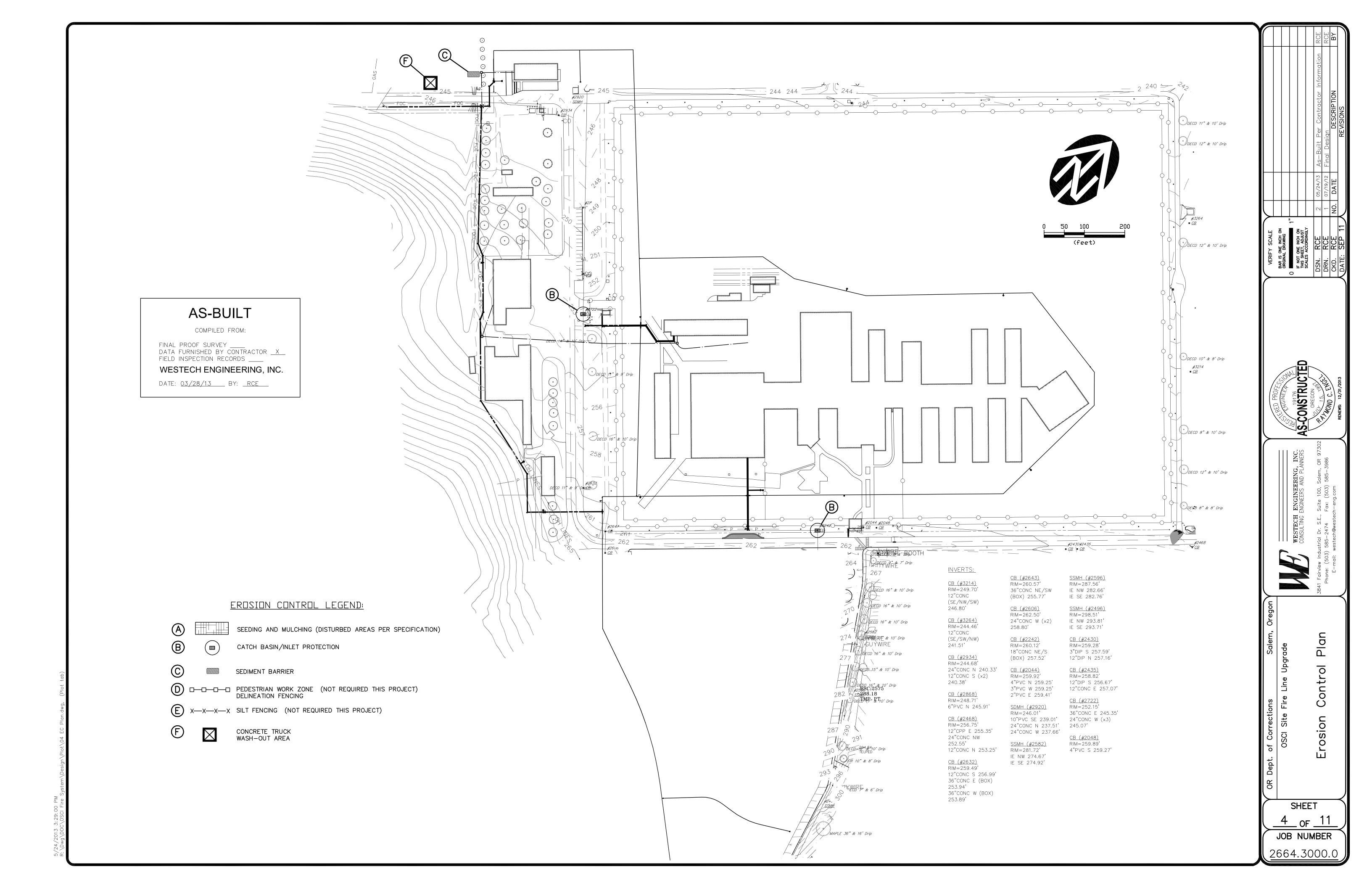
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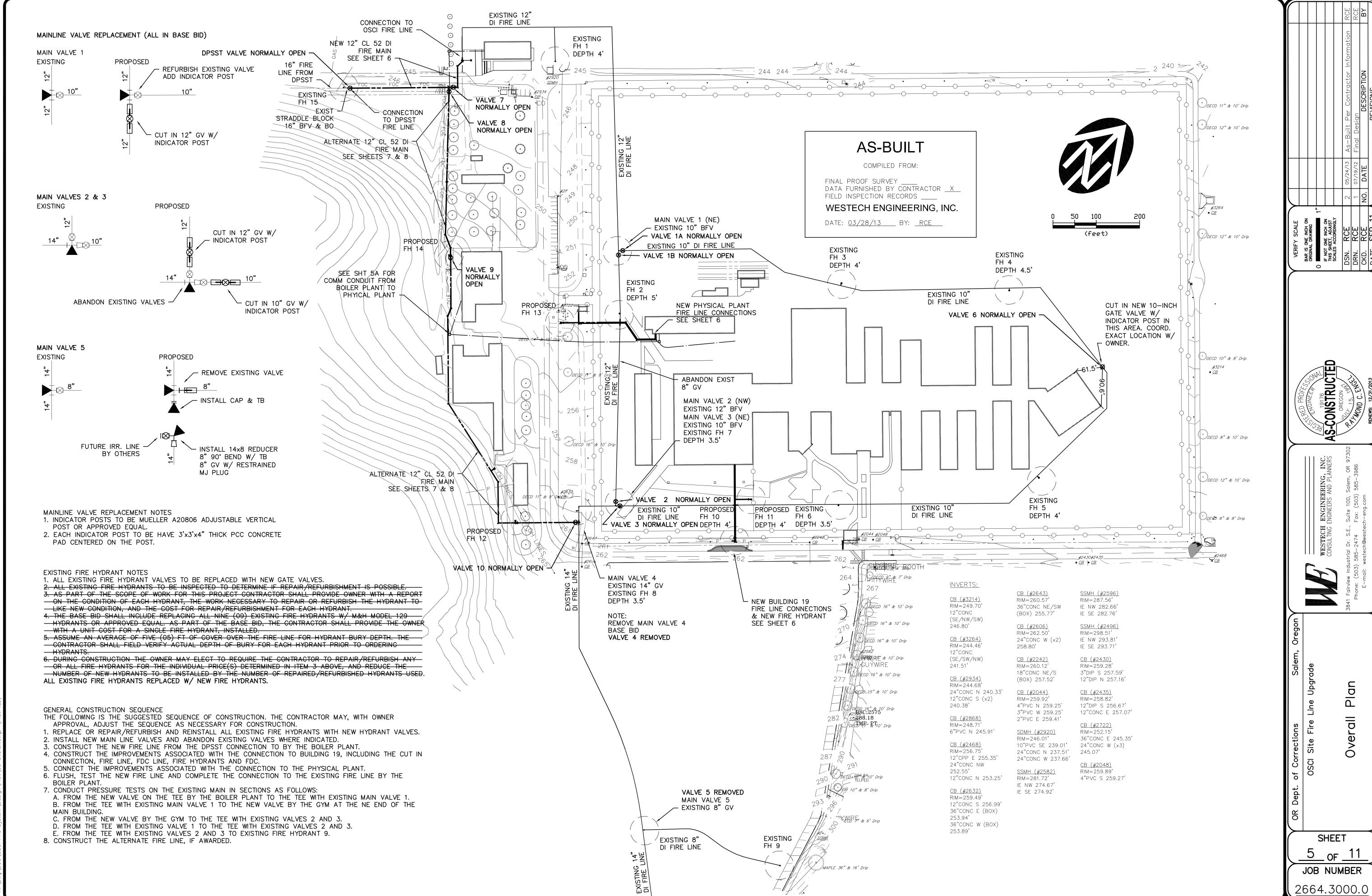
EROSION CONTROL NOTES:

- 1. Clearing and grading erosion control measures shall be in place prior to site disturbance. All other necessary erosion control measures shall be implemented prior to starting work on the portion/phase of the project to which the measures are related. 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 supplemented 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 hay bale sediment barriers or 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. At no time shall sediment accumulation within a trapped catch basin exceed 50% of the sediment capacity. 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, hay bales, silt sacks, bio—bags, etc. shall be removed by the Contractor within 30 days after permanent landscaping/vegetation is established.
- 11. Straw bales shall be standard 40 to 60—pound rectangular bales of cereal grain or seed straw. Straw bales shall be keyed into the ground a minimum of 4 to 6 inches, and be held in place by 1—inch x 2—inch x 36—inch wood stakes driven through the bales and into the ground a minimum of 12— inches.
- 12. 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.
- 13. The Contractor shall verify that all trucks are well sealed when transporting saturated soils from the site. Water drippage from trucks transporting saturated soils must be reduced to less than 1 gallon per hour prior to leaving the site.
- 14. 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.
- 15. 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, hydroseed and mulch shall be applied with a bonding agent (tackifier). Application rate and methodology to be in accordance with seed supplier recommendations.
- 16. 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 (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.
- 17. 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.
- 18. 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.
- 19. 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.

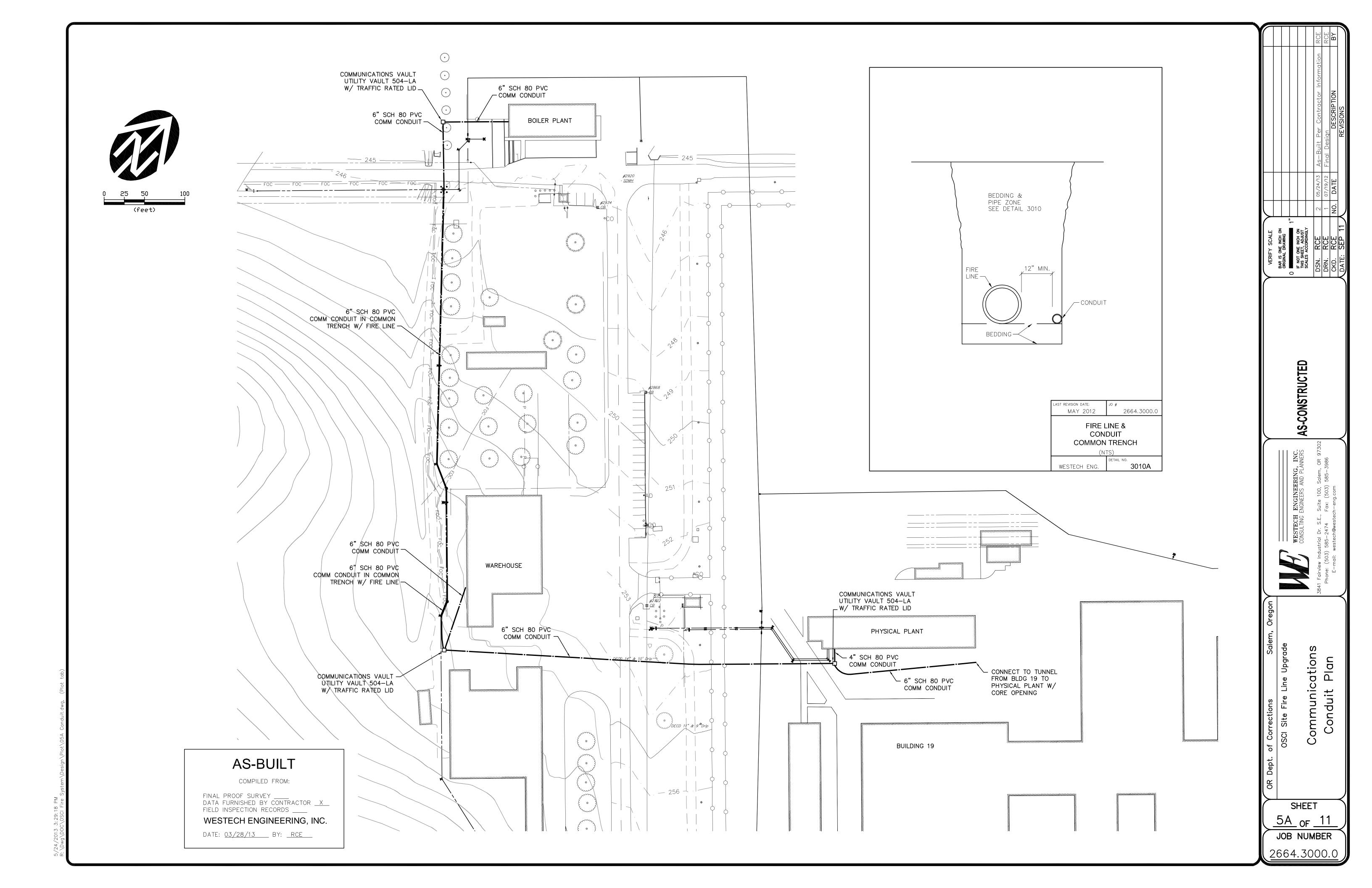
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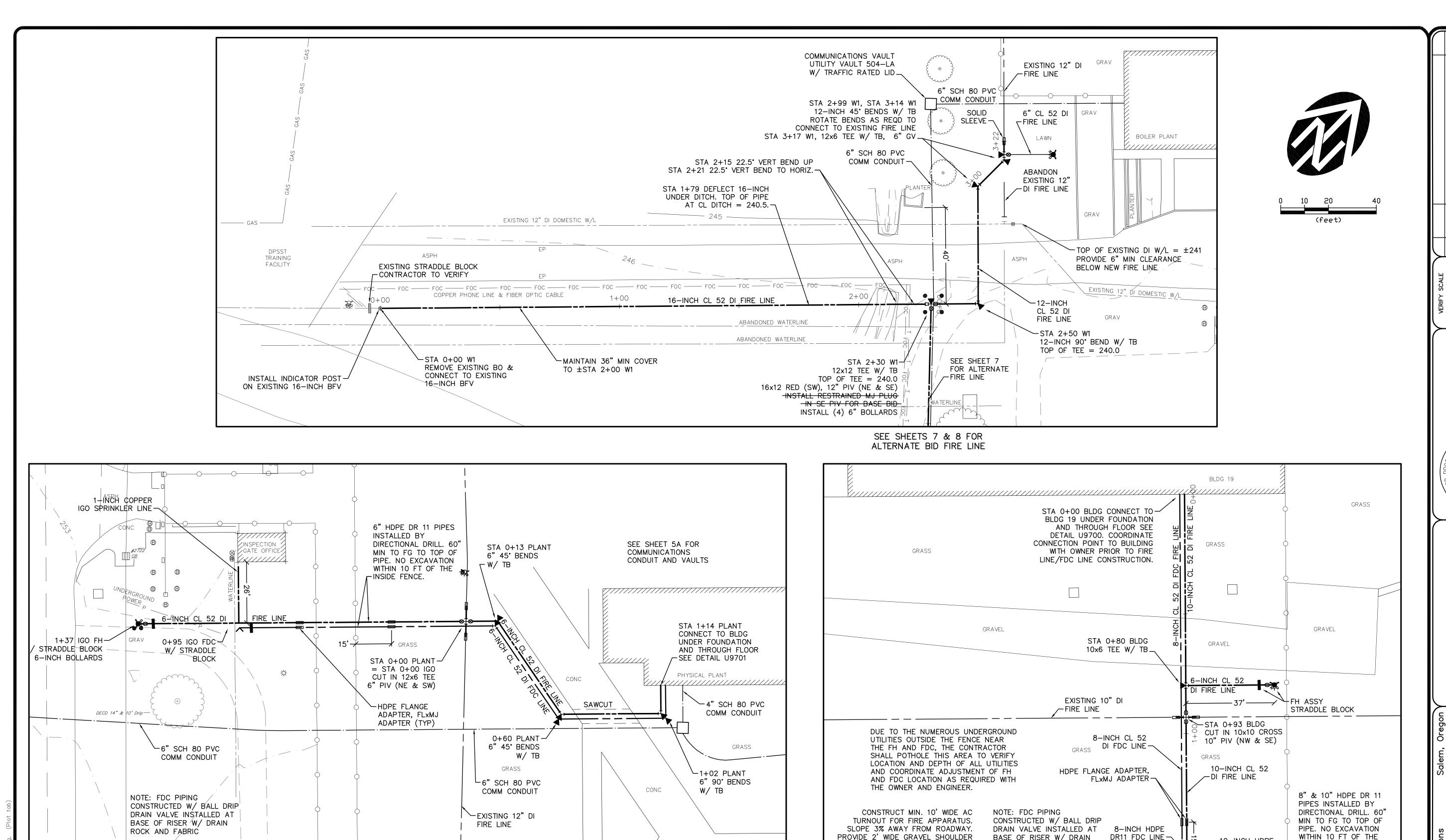
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CONTRACTOR TO COORDINATE WORK AT THE

HDPE PIPE IS COMPLETED IN ONE DAY. THIS

SHALL INCLUDE EXCAVATION, DIRECTIONAL

MAIN SECURITY FENCE SO THAT ALL WORK

ASSOCIATED WITH INSTALLATION OF THE

DRILLING, AND PIPE INSTALLATION.

CONSTRUCTE

INC

WESTECH

sign

Bid

D

SHEET

JOB NUMBER

2664.3000.0

OF _11

DR11 FDC LINE —

SAWCUT

-103'-

FDC CONNECTION

UNDERGROUND POWER

PROVIDE THRUST BLOCKS,

REDUCER & AND JOINT RESTRAINT AS REQD- 10-INCH HDPE

-DR11 FIRE LINE

RESTRAIN ALL JOINTS

-SEE DETAIL U9600

INSIDE FENCE.

CONC STORM TUNNEL

ASPH

STA 1+75 BLDG, FH ASSY (DEPTH 4')

10x6 RED (NW), (2) 6-INCH BOLLARDS

P — P — P — P — — P —

UNKNOWN UNDERGROUND LINE NEAR FENCE

BASE OF RISER W/ DRAIN

ROCK AND FABRIC

20'R (TYP)

PROVIDE 2' WIDE GRAVEL SHOULDER

ALONG OUTSIDE EDGE OF ALL NEW AC. —

YELLOW SKIP STRIPE

AS-BUILT

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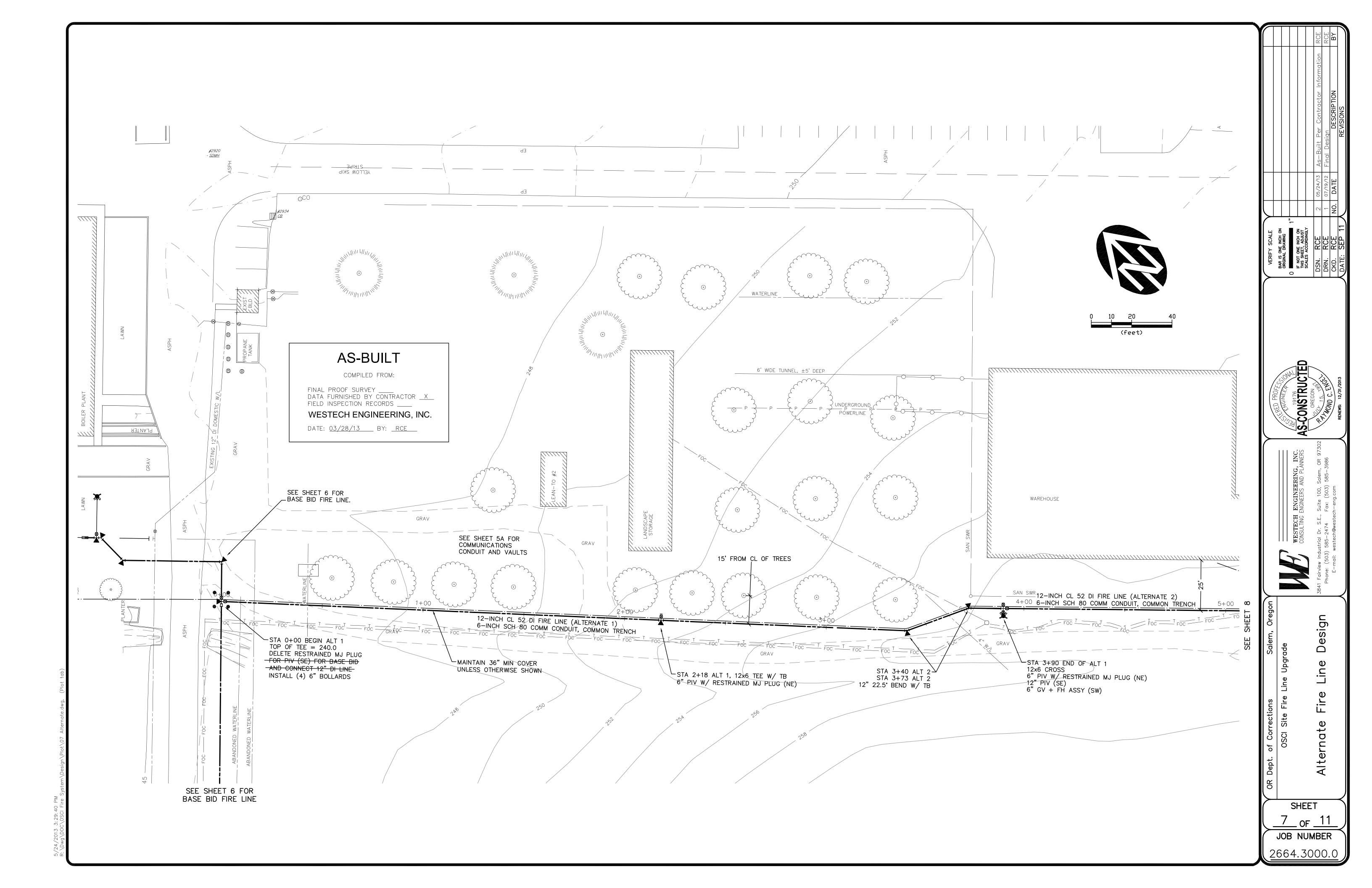
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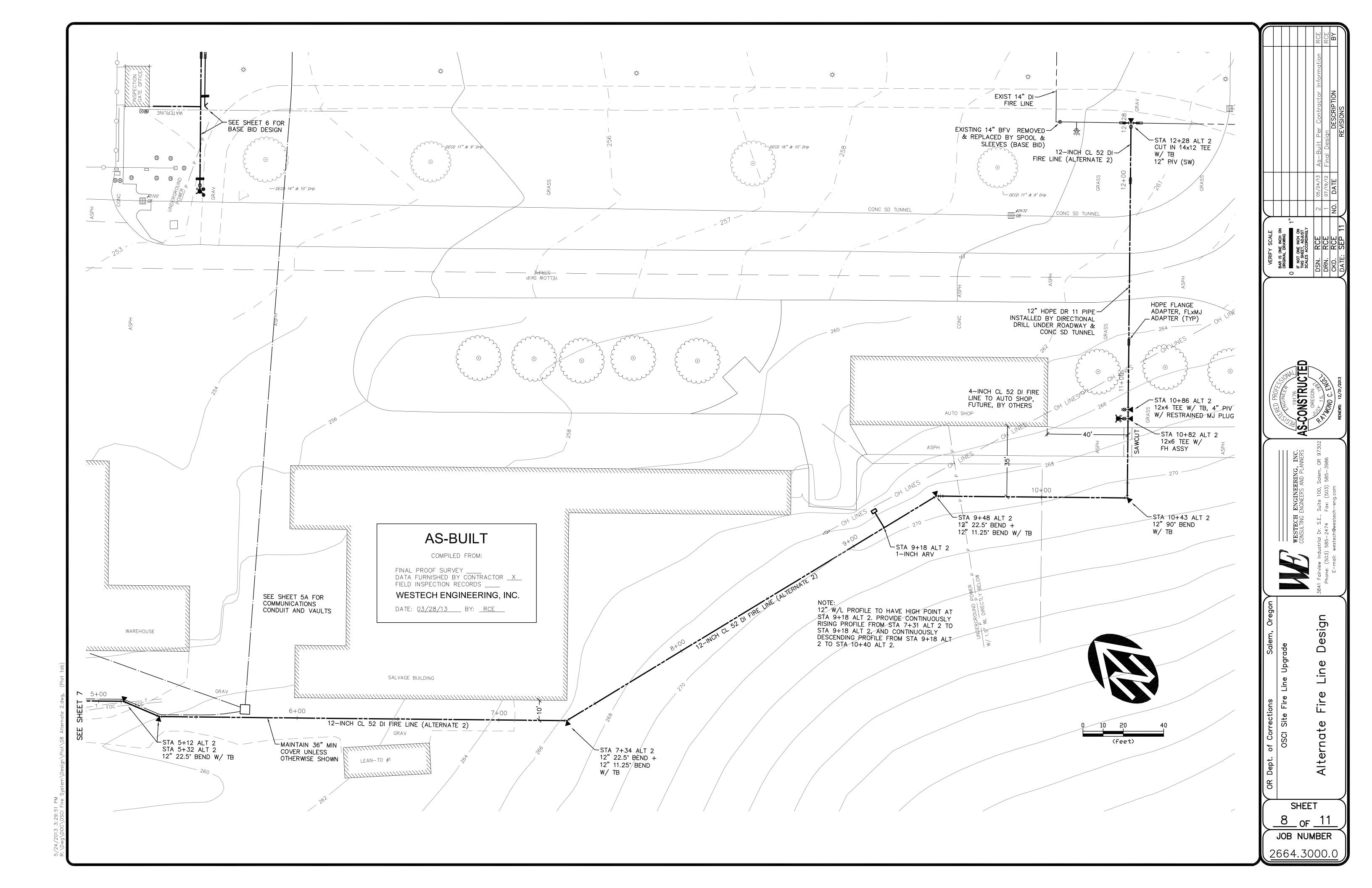
WESTECH ENGINEERING, INC.

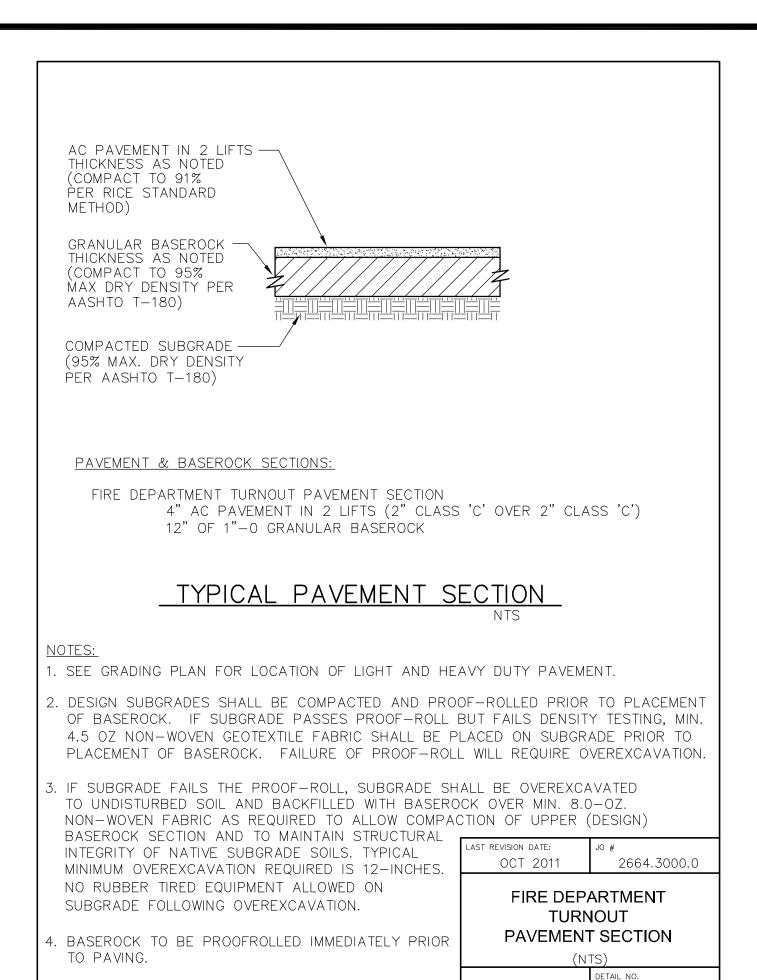
FIELD INSPECTION RECORDS ____

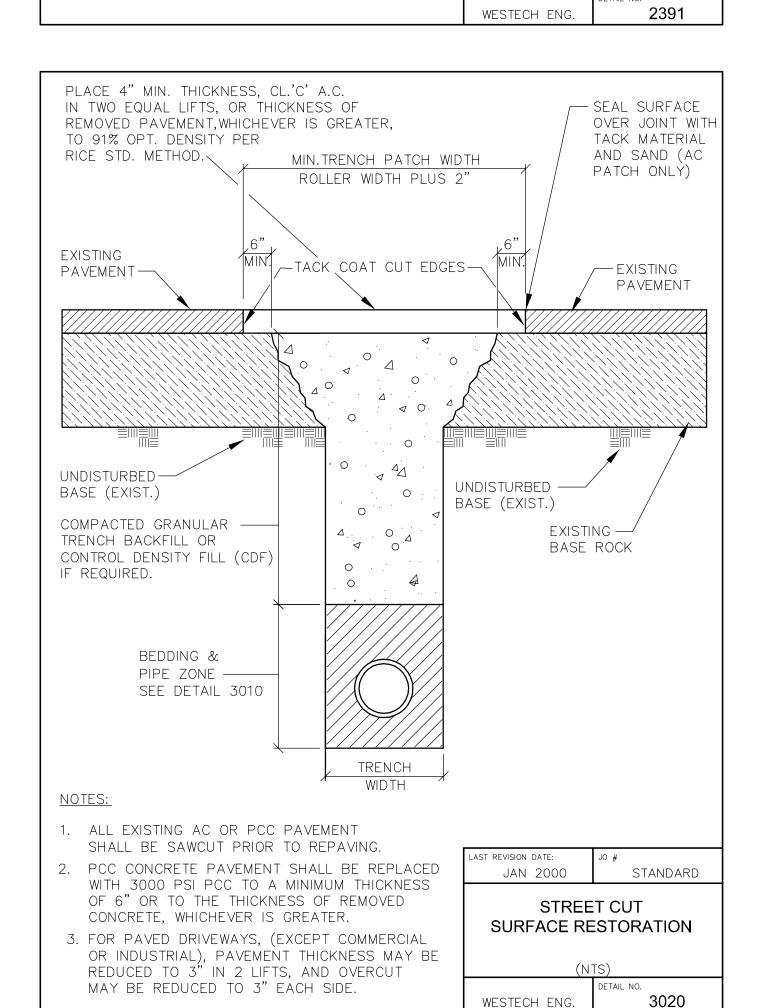
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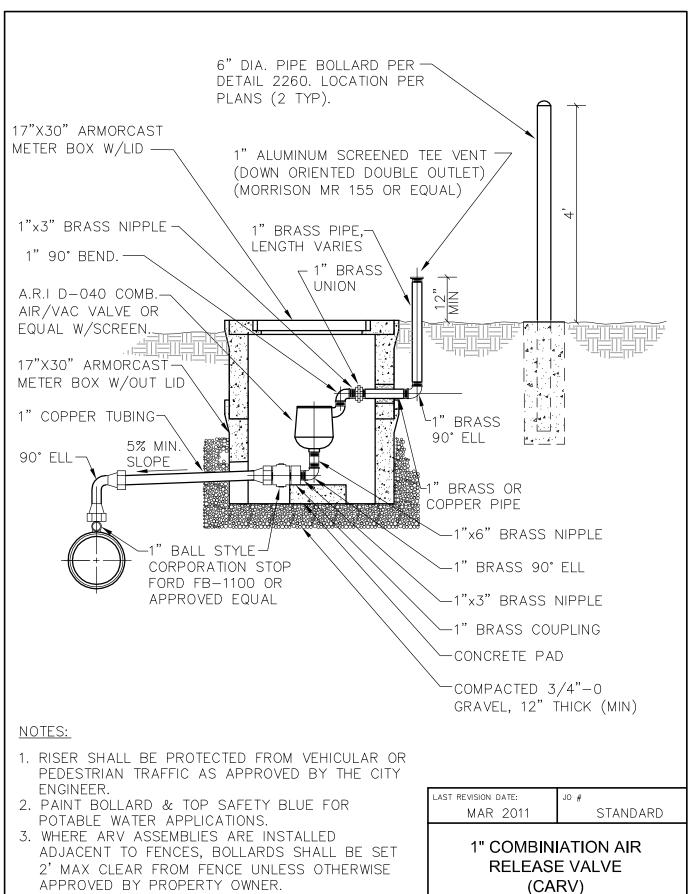
FINAL PROOF SURVEY _











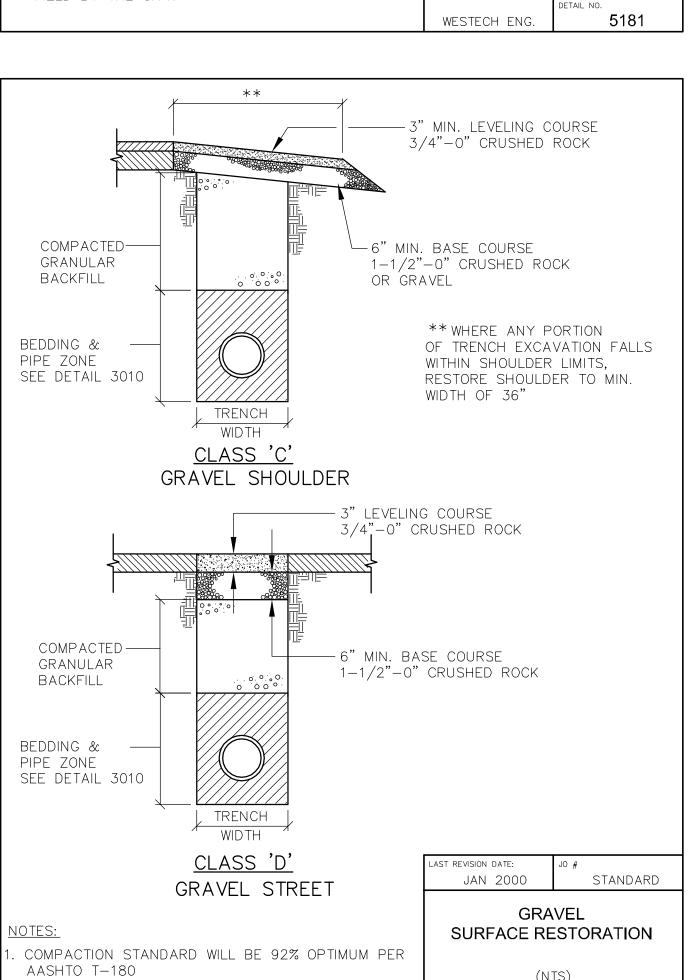
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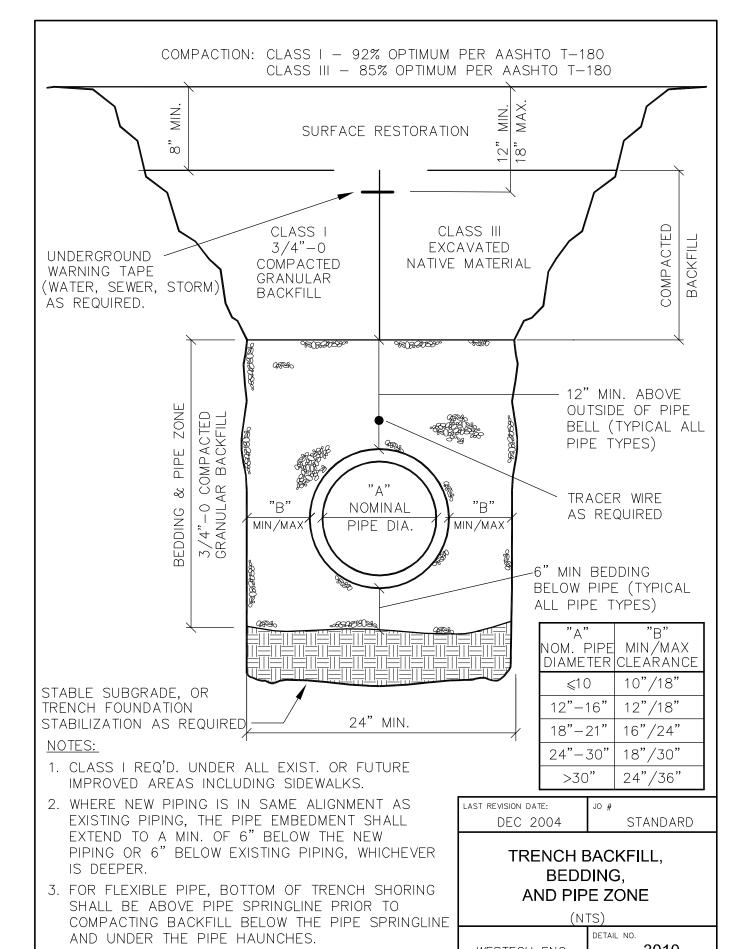
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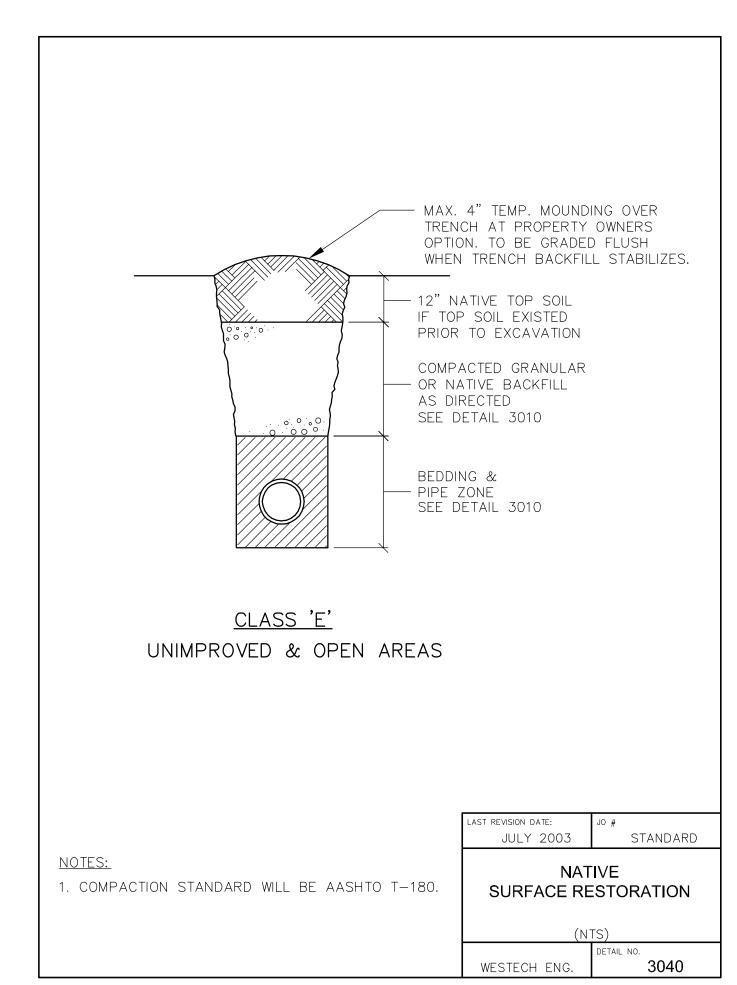
WESTECH ENG.

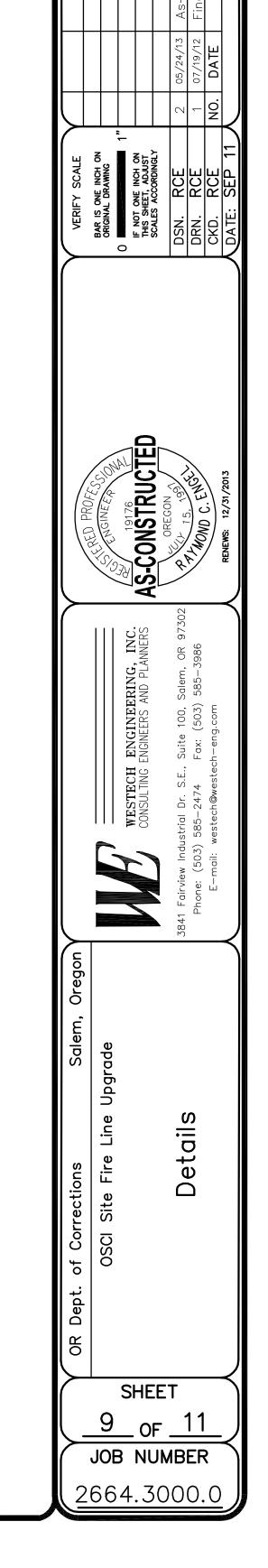
4. EXACT LOCATION OF BOLLARD TO BE VERIFIED IN

FIELD BY THE CITY.









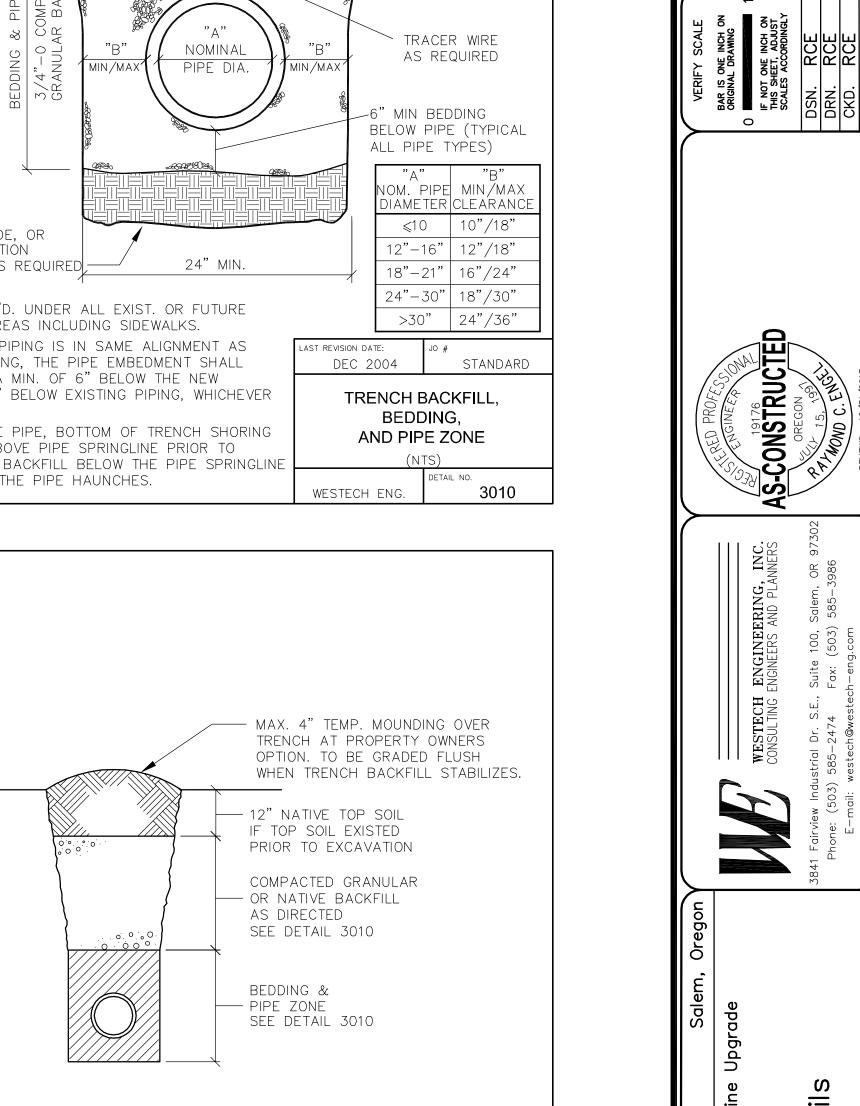


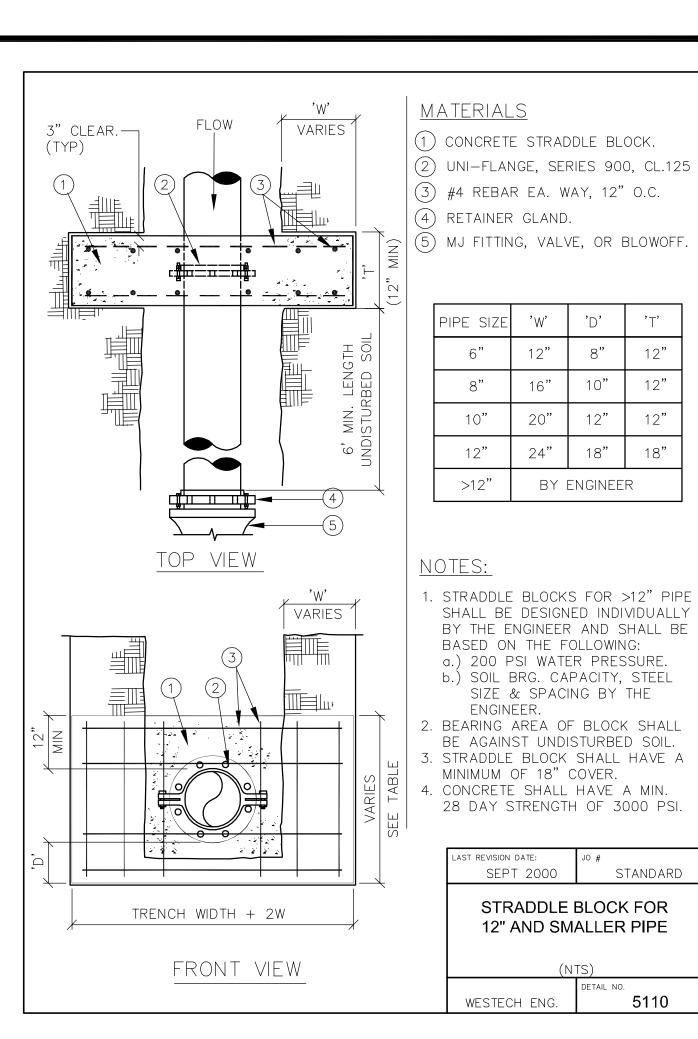
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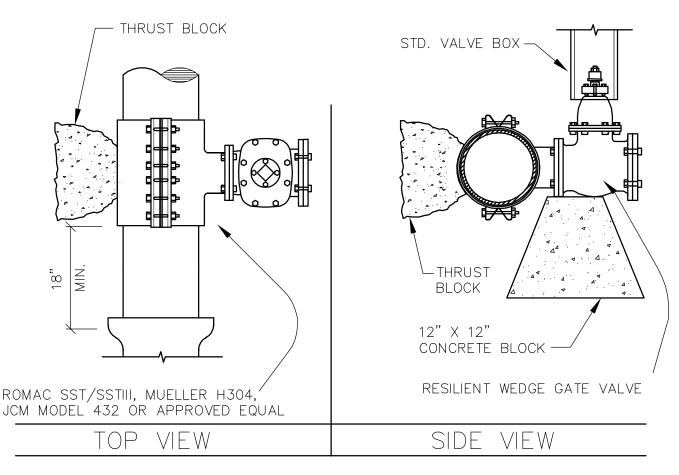
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WESTECH ENGINEERING, INC.







NOTES:

5100

WESTECH ENG.

4050 LBS./CU.YD.

- . WATER MAIN SHALL BE CLEANED BEFORE ATTACHING SLEEVE.
- 2. TAPPING SLEEVE SHALL BE ALL STAINLESS STEEL WITH FULL PERIMETER GASKET. 3. TAPPING VALVE SHALL BE EPOXY COATED PER AWWA C-550. 4. SLEEVE AND VALVE SHALL BE PRESSURE TESTED BEFORE MAKING TAP. PRESSURE TEST AND TAP SHALL BE MADE IN THE PRESENCE OF AN
- AUTHORIZED CITY REPRESENTATIVE. . APPROVED TAPPING MACHINE SHALL BE USED TO MAKE TAP. . 3/4" GRANULAR BACKFILL SHALL BE PLACED AND COMPACTED TO
- 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. THRUST BLOCKING REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.
- 8. TAP SHALL BE MADE NO CLOSER THAN 18" FROM THE NEAREST JOINT. 9. SLEEVE AND VALVE SHALL BE WRAPPED WITH 8 MIL PLASTIC PRIOR TO CONCRETE PLACEMENT.
- 10. CONCRETE BLOCK(S) SHALL COMPLETELY SUPPORT TAPPING TEE AND VALVE.

1. GRAVITY VERTICAL THRUST BLOCKS SHALL BE DESIGNED BY THE ENGINEER.

4. CONCRETE MIX SHALL HAVE A MIN. 28 DAY STRENGTH OF 3000 P.S.I.

WRAPPED IN PLASTIC PRIOR TO PLACEMENT OF CONCRETE.

2. KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES. FITTINGS SHALL BE

3. CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.

5. THRUST BLOCK VOLUMES FOR VERTICAL BENDS HAVING UPWARD RESULTANT THRUSTS

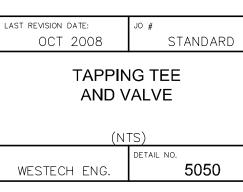
ARE BASED ON TEST PRESSURE OF 150 P.S.I.G. AND THE WEIGHT OF CONCRETE =

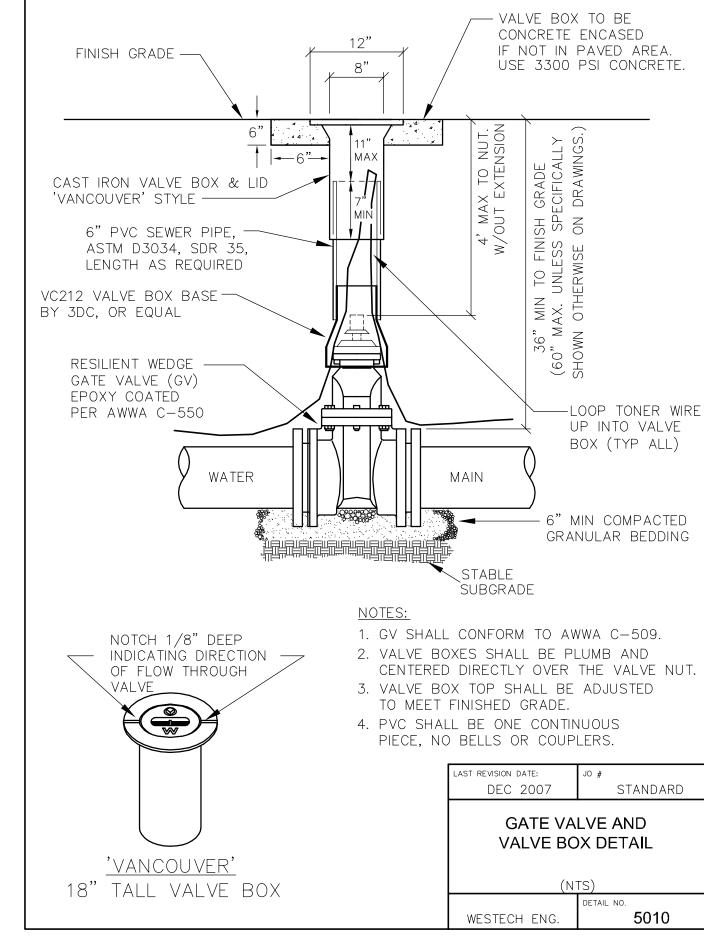
6. VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME EXCEEDING 5 CUBIC YARDS

11. CONTRACTOR SHALL COORDINATE ALL TAPS

WITH CITY AND PERFORM ALL TAPS WITH PUBLIC WORKS STAFF PRESENT.

HOT TAP WATER CONNECTIONS MAY BE USED IN LIEU OF CUT IN CONNECTIONS UPON APPROVAL BY AND AT NO ADDITIONAL COST TO THE OWNER.





CONSTRUCTE

INC.

WESTECH

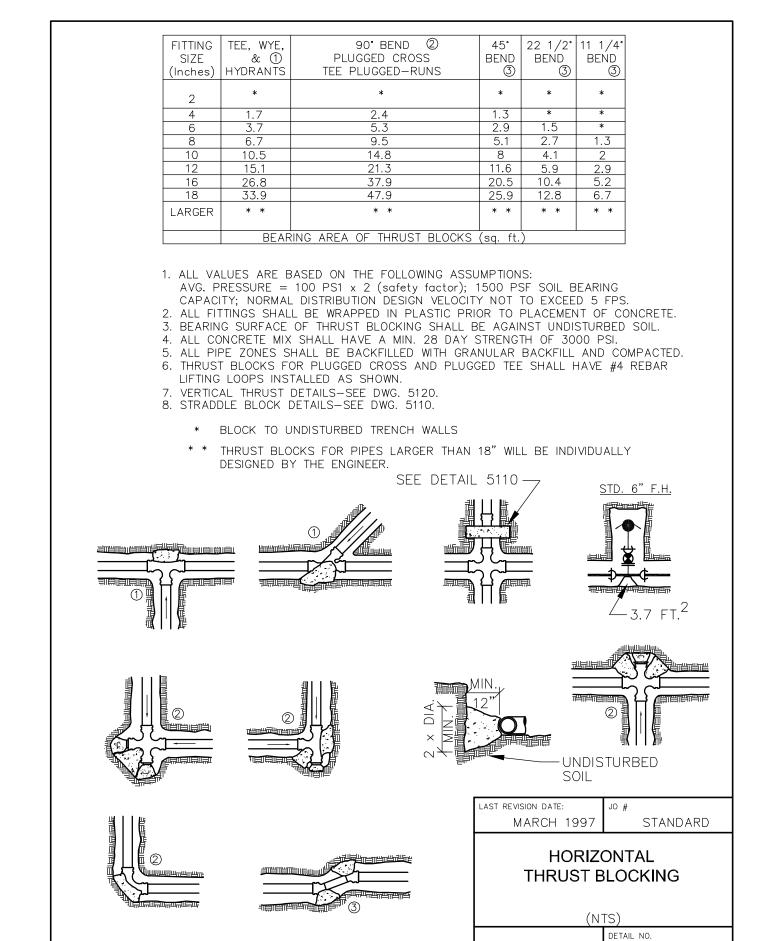
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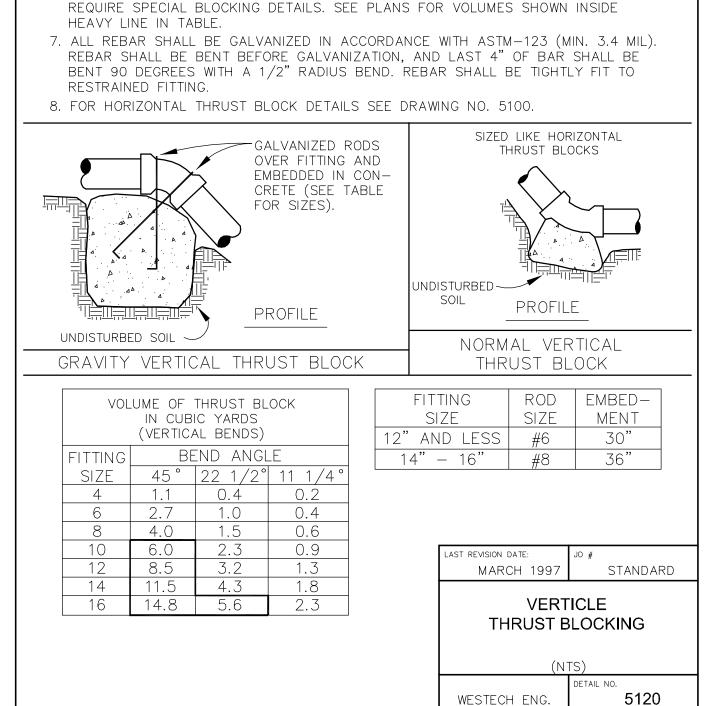
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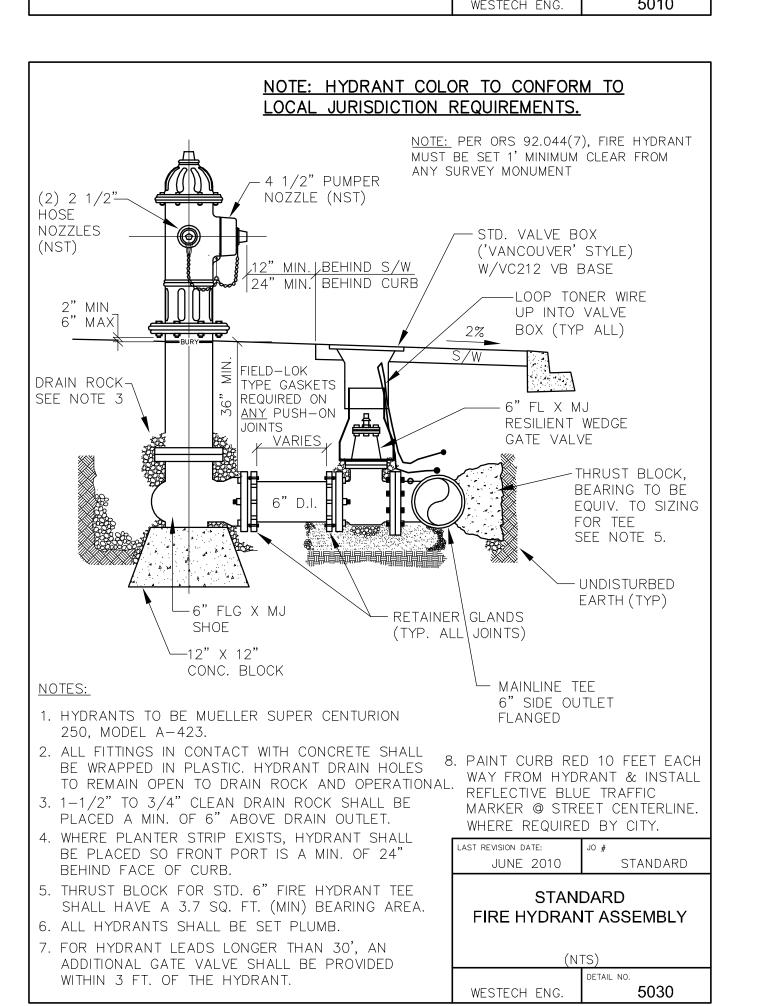
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AS-BUILT

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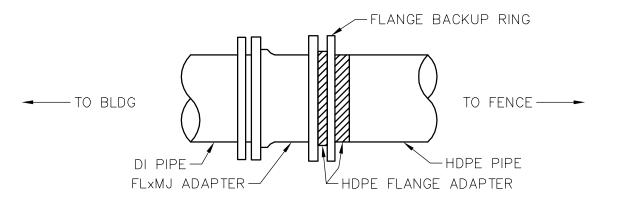
DATA FURNISHED BY CONTRACTOR X

WESTECH ENGINEERING, INC.

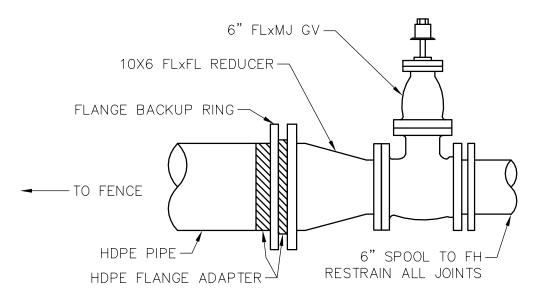
FIELD INSPECTION RECORDS _____

DATE: <u>03/28/13</u> BY: <u>RCE</u>

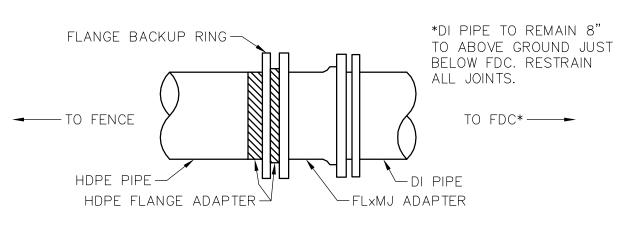
FINAL PROOF SURVEY



INSIDE THE FENCE (FH & FDC PIPES)



OUTSIDE THE FENCE (FH PIPE)



PAGE 1 OF 2

THE 10" FH LINE IS SHOWN.

SSI

-HDPE FL ADAPTER

FOLLOWER RING

FLxMJ ADAPTER,

SEE DETAIL

PIPE INSTALLATION.

6" MIN.

. CONTRACTOR SHALL PROVIDE A MINIMUM OF 3

THE HDPE PIPE UNDER THE MAIN SECURITY FENCE.

THE MAIN SECURITY FENCE SHALL BE COMPLETED

INCLUDE EXCAVATION, DIRECTIONAL DRILLING, AND

WITHIN A 10-HOUR WORKING DAY. THIS SHALL

2. ALL WORK IN INSTALLING THE HDPE PIPE UNDER

WORKING DAYS ADVANCE NOTICE PRIOR TO INSTALLING

SAME REQUIREMENTS.

CONTRACTOR CONSTRUCT THE OTHER HDPE PIPE CROSSINGS PER THE

— INNER

FENCE

OUTER —

FENCE

ASSUME 17'

ASSUME 16"

-10" DIPS DR11

HDPE PIPE L = 40'

HDPE FL ADAPTER, -

10x6 FLxFL REDUCER,

FOLLOWER RING,

SEE DETAIL

ST REVISION DATE:

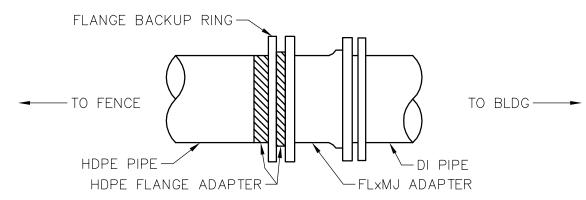
MAR 2013

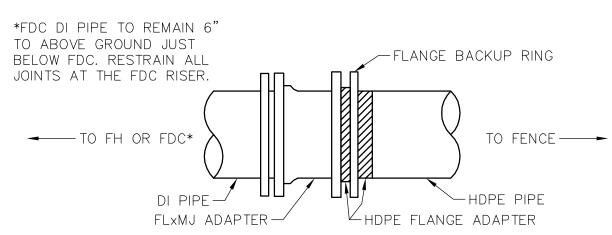
WESTECH ENG.

FOR BIDDING, TYP.

FOR BIDDING

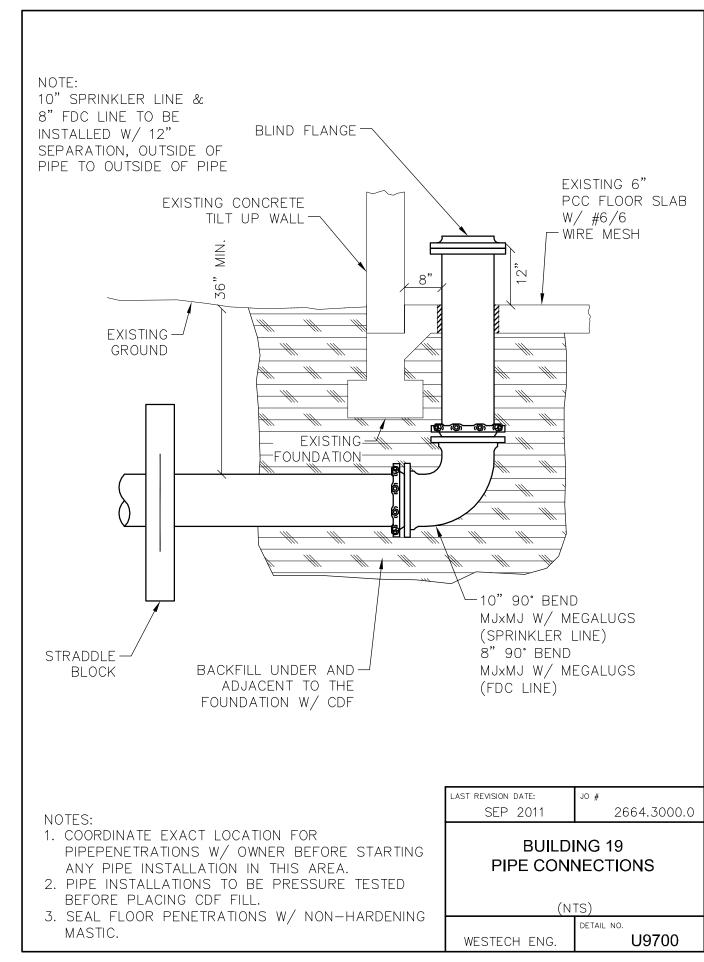
OUTSIDE THE FENCE (FDC PIPE)











INSTALL FH ASSY

PER DETAIL 5030,

BLOCK

2664.3000.0

U9600A

└6" FLxMJ GV

JOINTS

BASE BID

MAIN SECURITY

FENCE CROSSING

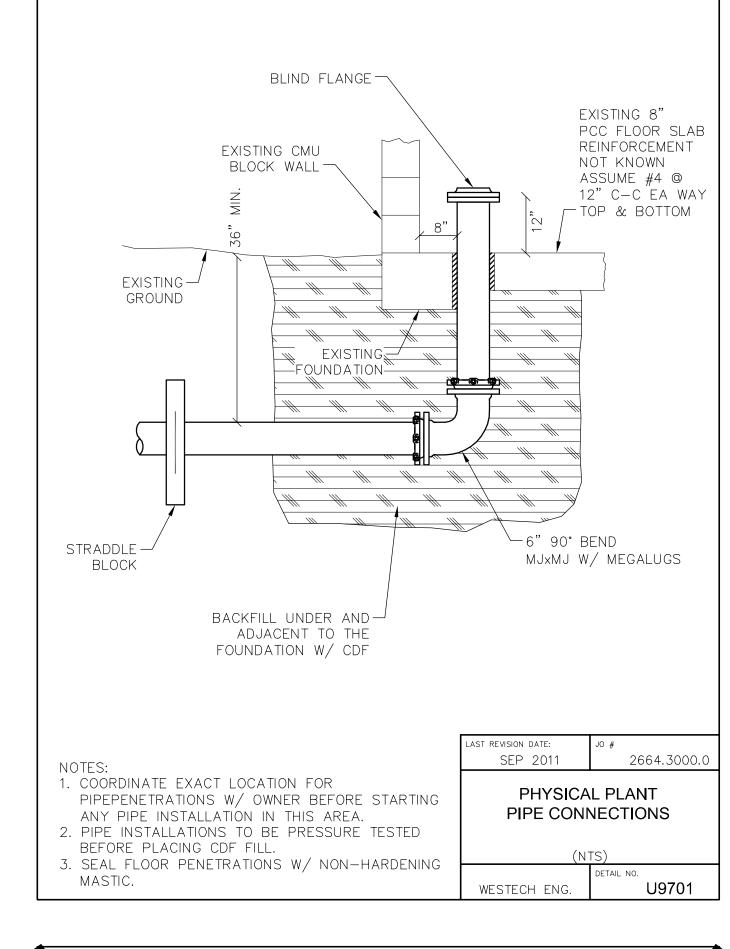
DETAIL NO.

6" SPOOL, FH

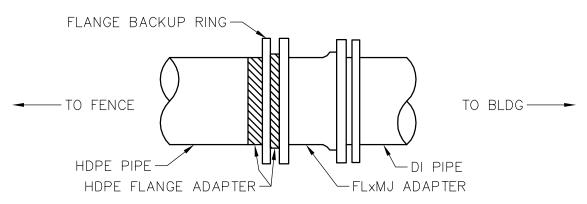
RESTRAIN ALL

PLUS TB AS

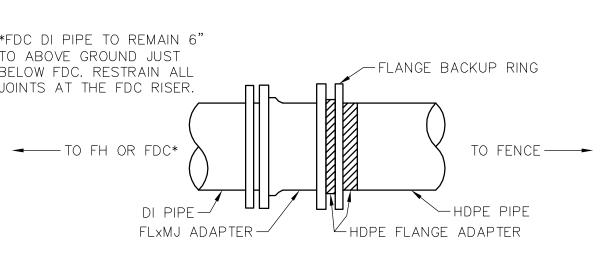
SHOWN



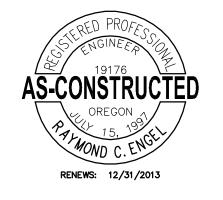


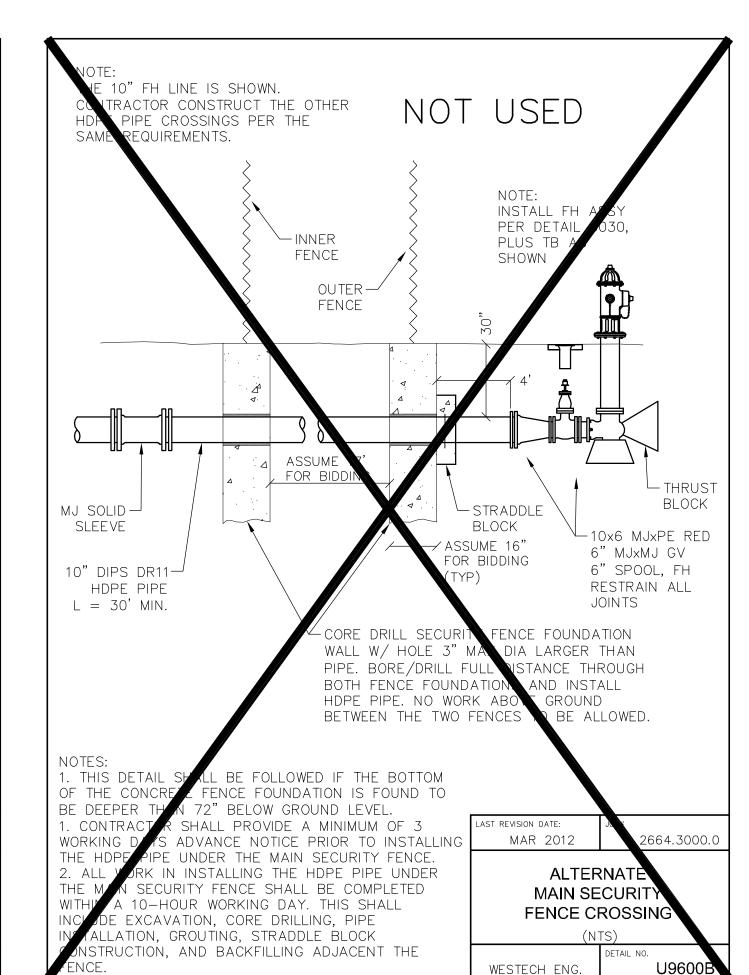


INSIDE THE FENCE (FH & FDC PIPES)









CONSTRUCTED INC. INERS WESTECH etails SHEET <u>11_ _{OF} _11</u> JOB NUMBER

2664.3000.0

AS-BUILT

COMPILED FROM:

DATA FURNISHED BY CONTRACTOR X

WESTECH ENGINEERING, INC.

FIELD INSPECTION RECORDS _____

DATE: <u>03/28/13</u> BY: <u>RCE</u>

FINAL PROOF SURVEY