

DRAWINGS FOR:

SALEM HEIGHT CHURCH

375 MADRONA AVE S

SALEM, OR 97302

FOR:

MR. MICHEAL JUNGE AIA

FACET ARCHITECTS

3095 RIVER ROAD N

SALEM, OR 97303

503.390.0281



Know what's below.
Call before you dig.

ABBREVIATIONS			
ASPH	ASPHALT	IRR	IRRIGATION
AD	AREA DRAIN	IE	INVERT ELEVATION
ASSY	ASSEMBLY	JB	JUNCTION BOX
BLDG, BLD	BUILDING	LP	LIGHT POLE
BW	BOTTOM OF WALL	M	METER, MAIN
CATV	CABLE TELEVISION	MB	MAILBOX
CB	CATCH BASIN	MH	MANHOLE
CO	CLEAN-OUT	OH	OVER-HEAD
CONC	CONCRETE	P/L, P	PROPERTY LINE
CL, C	CENTERLINE	PP	POWER POLE
DIP	DUCTILE IRON PIPE	PVC	POLYVINYL CHLORIDE
EG	EDGE OF GRAVEL	PWR	POWER
EOP, EP	EDGE OF PAVEMENT	R, RAD	RADIUS
ELEV	ELEVATION	ROW, R/W	RIGHT-OF-WAY
EX, EXIST	EXISTING	SS	SANITARY SEWER
FDC	FIRE DEPT. CONNECTOR	SD	STORM DRAIN
FT	FEET	SVC	SERVICE
FF	FINISH FLOOR	SWK, S/W	SIDEWALK
FG	FINISH GRADE	TC	TOP OF CURB
FH	FIRE HYDRANT	TEL	TELEPHONE
FI	FIELD INLET	TR	TRANSFORMER
FM	FORCE MAIN	TS	TRAFFIC SIGNAL
GRAV	GRAVEL	TW	TOP OF WALL
GM	GAS METER	TYP	TYPICAL
GP	GATE POST	UG, U/G	UNDER GROUND
GS	GROUND SHOT	UTIL	UTILITY
GV	GAS VALVE	VLT	VAULT
H/C	HANDICAP	W/	WITH
HDPE	HIGH-DENSITY POLYETHYLENE	WM	WATER METER
HYD	HYDRANT	WLM	WETLANDS MARKER
IR	IRON ROD	YPC	YELLOW PLASTIC CAP
IP	IRON PIPE		

BENCHMARK UTILIZED:
C.O.S. 3009

ELEV: 441.83' NGVD 29
(445.25' NAVD 88)

MARK IS A 3" BRASS DISK IN THE SOUTHWEST CURB RETURN AT THE
INTERSECTION OF SALEM HEIGHTS AVE AND MINOLA AVE, 33.8 FEET
SOUTHEAST OF FIRE HYDRANT.



WESTECH ENGINEERING, INC.
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ARCHITECTS

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3095 River Road N Salem, OR 97303 / 503.390.0281

WE JOB #: 3575.0000.0



REGISTERED PROFESSIONAL
ENGINEER
OREGON
NOV. 12, 2008
WILLIAM J. WELLS

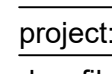
RENEWS: 6/30/2026

project:
SALEM HEIGHTS CHURCH
MINISTRY CENTER

SALEM, OR 97302

consultants:

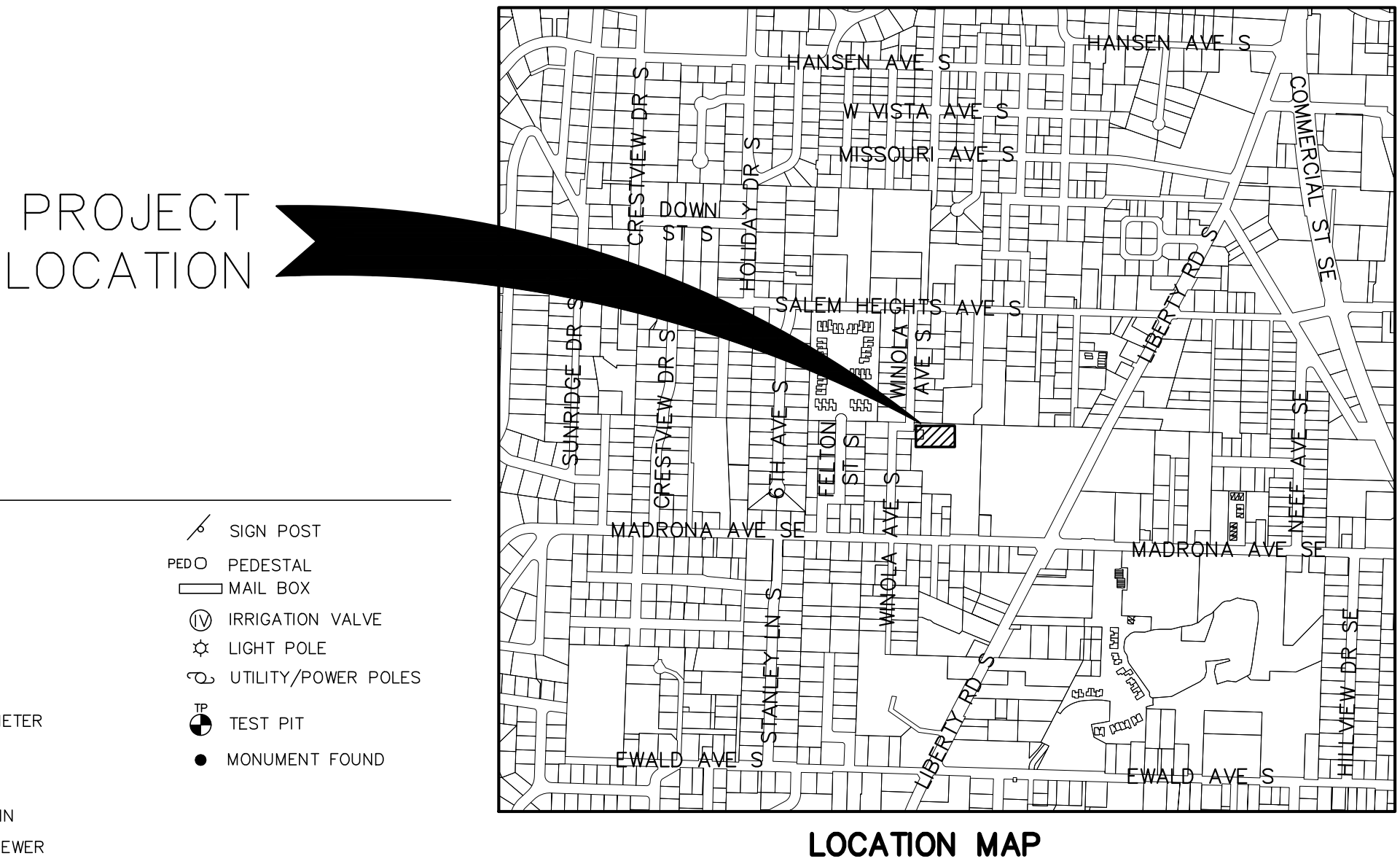
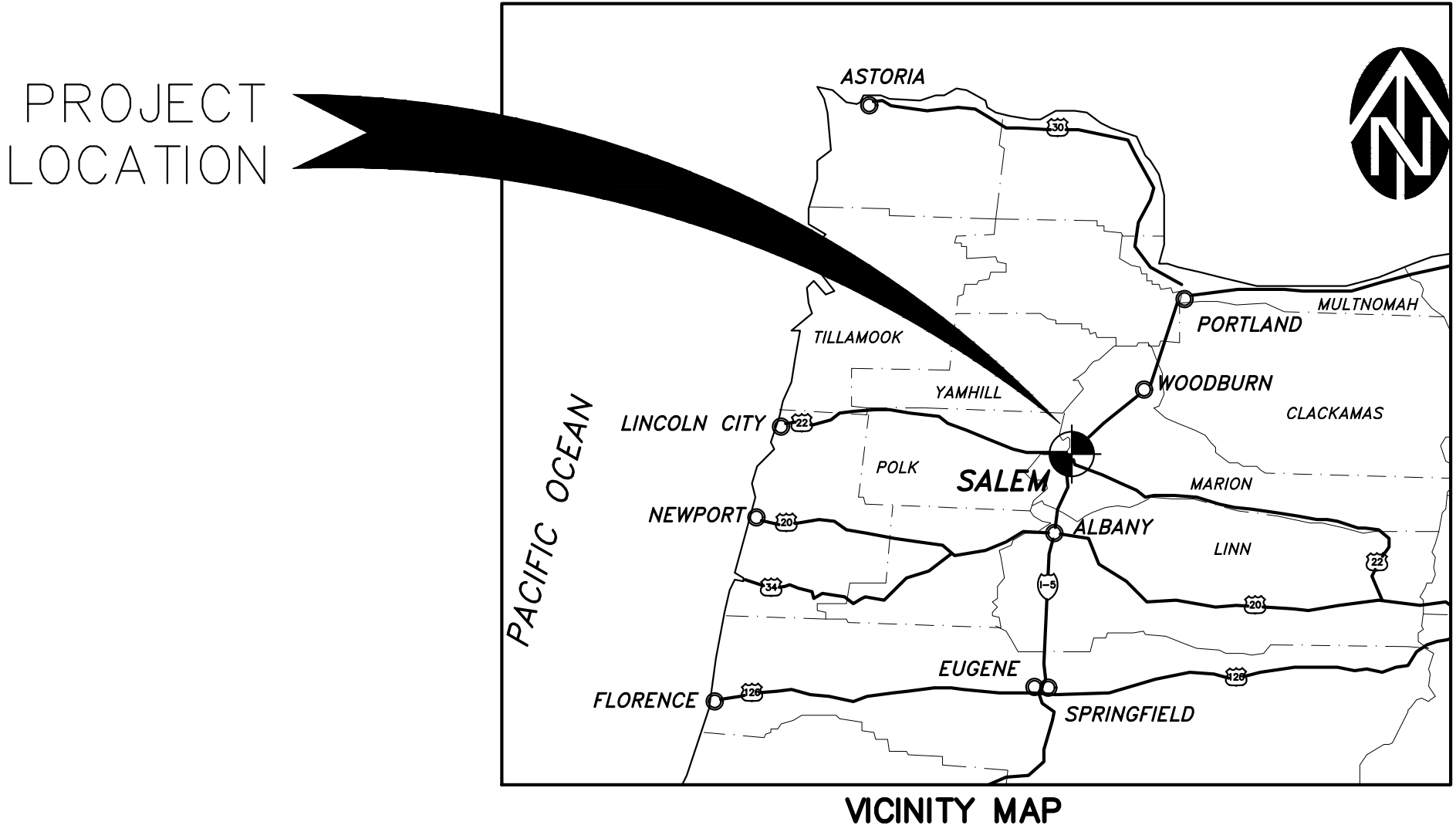
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project: 03225
dwg file:
drawn by: IH
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COVER SHEET, VICINITY
AND LOCATION MAPS,
DRAWING INDEX

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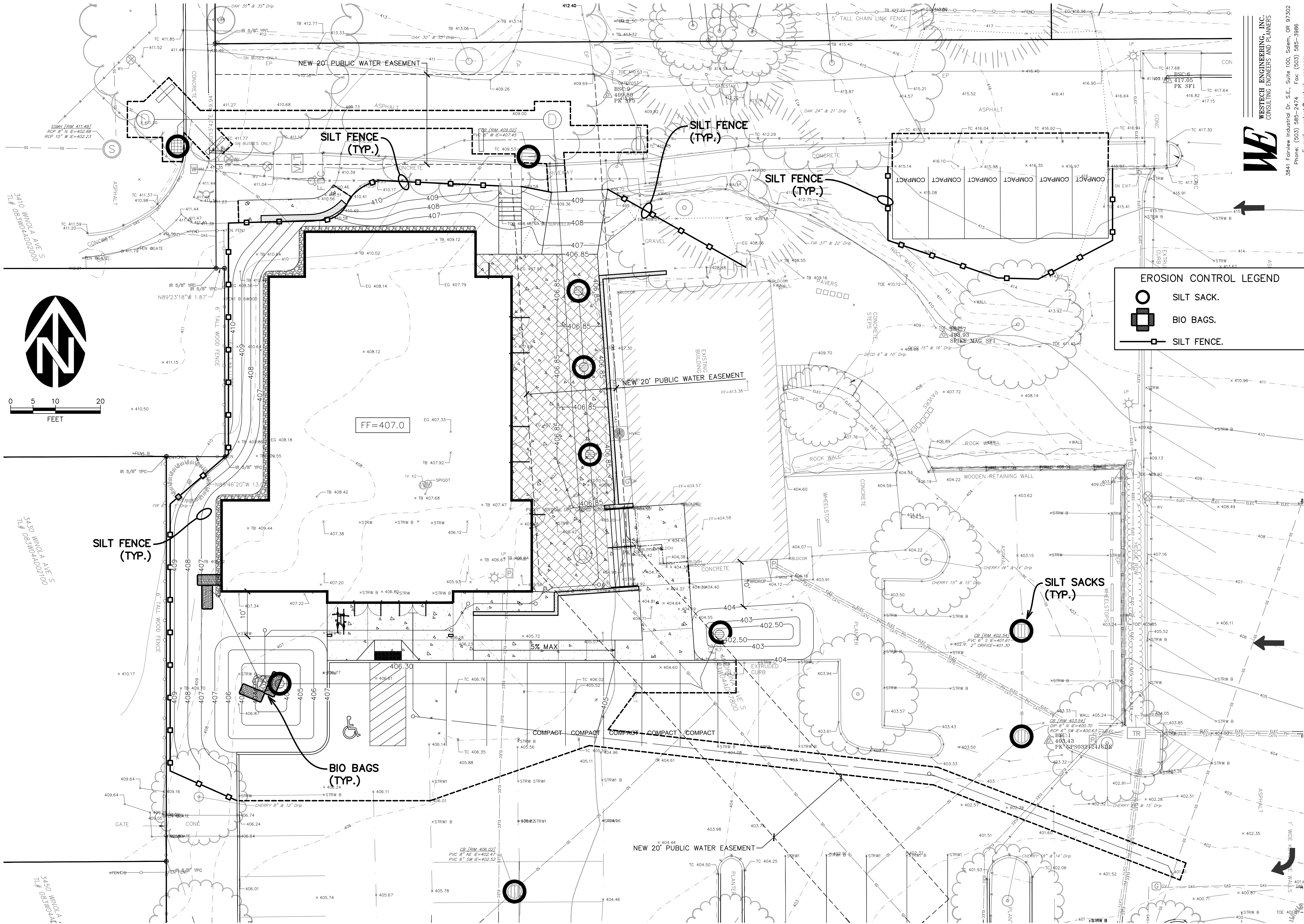


SYMBOLS	
AD	AREA DRAIN
CD or	CATCH BASIN
CO	CLEANOUT
FX	FIRE HYDRANT
GV	GAS VALVE
WV	WATER VALVE
GPW	GAS/POWER/WATER METER
DSO	DOWN SPOUT
1	MANHOLE TELEPHONE
2	MANHOLE STORM DRAIN
3	MANHOLE SANITARY SEWER
TS	TEST PIT
MF	MONUMENT FOUND
SP	SIGN POST
PED	PEDESTAL
MB	MAIL BOX
IV	IRRIGATION VALVE
LP	LIGHT POLE
UP	UTILITY/POWER POLES

TREES -- *TREENAME* DIAMETER (INCHES)/DRIP RADIUS (FEET)
NOTE: DIAMETER MEASURED AT BREAST HEIGHT

LINE TYPES	
CATV LINE	CATV CATV CATV CATV CATV CATV CATV
COMMUNICATION LINE	COM COM COM COM COM COM COM COM
EASEMENT LINE	-----
FENCE LINE	o o o o o o o o o o o o o o o o
FIBER OPTIC LINE	FOC FOC FOC FOC FOC FOC FOC FOC
GAS LINE	GAS GAS GAS GAS GAS GAS GAS GAS
EDGE OF GRAVEL LINE	
OVERHEAD LINE	OH LINES OH LINES OH LINES OH LINES OH LINES
PHONE LINE	PH PH PH PH PH PH PH PH PH
POWER LINE	ELEC ELEC ELEC ELEC ELEC ELEC ELEC
SANITARY SEWER LINE	SS SS SS SS SS SS SS SS SS
STORM DRAIN LINE	SD SD SD SD SD SD SD SD SD
WATER LINE	W W W W W W W W W W W

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POST-DEVELOPED
EROSION CONTROL PLAN

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DEQ EROSION CONTROL STANDARD NOTES:

- Hold a pre-construction meeting of project construction personnel that includes the inspector to discuss erosion and sediment control measures and construction limits. (Schedule A.8.c.i.(3))
- All inspections must be made in accordance with DEQ 1200-C permit requirements. (Schedule A.12.b and Schedule B.1)
- Inspection logs must be kept in accordance with DEQ's 1200-C permit requirements. (Schedule B.1.c and B.2)
- Retain a copy of the ESCP and all revisions on site and make it available on request to DEQ, Agent, or the local municipality. During inactive periods of greater than seven (7) consecutive calendar days, the above records must be retained by the permit registrant but do not need to be at the construction site. (Schedule B.2.c)
- All permit registrants must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit. (Schedule A 8.a)
- The ESCP must be accurate and reflect site conditions. (Schedule A.12.c.i)
- Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent within 10 days. (Schedule A.12.c.iv. and v)
- Phase clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion. (Schedule A.7.a.iii)
- Identify, mark, and protect (by construction fencing or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas. (Schedule A.8.c.i.(1) and (2))
- Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed mix used. (Schedule A.7.a.v)
- Maintain and delineate any existing natural buffer within the 50-feet of waters of the state. (Schedule A.7.b.i.and (2)(a)(b))
- Install perimeter sediment control, including storm drain inlet protection as well as all sediment basins, traps, and barriers prior to land disturbance. (Schedule A.8.c.i.(5))
- Control both peak flow rates and total stormwater volume, to minimize erosion at outlets and downstream channels and streambanks. (Schedule A.7.c)
- Control sediment as needed along the site perimeter and at all operational internal storm drain inlets at all times during construction, both internally and at the site boundary. (Schedule A.7.d.i)
- Establish concrete truck and other concrete equipment washout areas before beginning concrete work. (Schedule A.8.c.i.(6))
- Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses. Temporary or permanent stabilizations measures are not required for areas that are intended to be left unvegetated, such as dirt access roads or utility pole pads.(Schedule A.8.c.ii.(3))
- Establish material and waste storage areas, and other non-stormwater controls. (Schedule A.8.c.i.(7))
- Prevent tracking of sediment onto public or private roads using BMPs such as: construction entrance, graveled (or paved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land-disturbing activities. (Schedule A 7.d.ii and A.8.c.i.(4))
- When trucking saturated soils from the site, either use water-tight trucks or drain loads on site. (Schedule A.7.d.ii.(5))
- Control prohibited discharges from leaving the construction site, i.e., concrete wash-out, wastewater from cleanout of stucco, paint and curing compounds. (Schedule A.6)
- Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, fertilizer, pesticides and herbicides, paints, solvents, curing compounds and adhesives from construction operations. (Schedule A.7.e.i.(2))
- Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies. (Schedule A. 7.e.iii.)
- Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil. (Schedule A 7.a.iv)
- The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Exercise caution when using time-release fertilizers within any waterway riparian zone. (Schedule A.9.b.iii)
- If an active treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. Obtain plan approval before operating the treatment system. Operate and maintain the treatment system according to manufacturer's specifications. (Schedule A.9.d)
- Temporarily stabilize soils at the end of the shift before holidays and weekends, if needed. The registrant is responsible for ensuring that soils are stable during rain events at all times of the year. (Schedule A 7.b)
- As needed based on weather conditions, at the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters. (Schedule A 7.e.ii.(2))
- Construction activities must avoid or minimize excavation and bare ground activities during wet weather. (Schedule A.7.a.i)
- Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence removal. (Schedule A.9.c.i)
- Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height and before BMP removal. (Schedule A.9.c.i)
- Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project. (Schedule A.9.c.iii& iv)
- Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean-up of sediment shall be performed according to the Oregon Division of State Lands required timeframe. (Schedule A.9.b.i)
- The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments. (Schedule A.9.b.ii)
- The entire site must be temporarily stabilized using vegetation or a heavy mulch layer, temporary seeding, or other method should all construction activities cease for 30 days or more. (Schedule A.7.f.i)
- Provide temporary stabilization for that portion of the site where construction activities cease for 14 days or more with a covering of blown straw and a tackifier, loose straw, or an adequate covering of compost mulch until work resumes on that portion of the site. (Schedule A.7.f.ii)
- Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. Once construction is complete and the site is stabilized, all temporary erosion controls and retained soils must be removed and disposed of properly, unless doing so conflicts with local requirements. (Schedule A.8.c.iii(1) and D.3.c.ii and iii)

Rev. 12/15/15 By: Krista Ratliff

YEAR: MONTH:	'25 09	'25 10	'25 11	'25 12	'26 01	'26 02	'26 03	'26 04	'26 05	'26 06	'26 07	'26 08
CLEARING	X	X	X									
EXCAVATION	X	X	X	X	X	X	X	X	X			
GRADING	X	X	X	X	X	X	X	X	X			
CONSTRUCTION	X	X	X	X	X	X	X	X	X	X	X	X
SEDIMENT CONTROLS:												
Silt Fencing	X	X	X	X	X	X	X	X	X	X	X	X
Sediment Traps	X	X	X	X	X	X	X	X	X	X	X	X
Sediment Basins												
Storm Inlet Protection	X	X	X	X	X	X	X	X	X	X	X	X
Drainage Swales												
Check Dams												
Contour Furrows												
Terracing												
Pipe Slope Drains												
Rock Outlet Protection												
Gravel Construction Entrance												
Grass-lined Channel (Turf Reinforcement Mats)												
Protection of trees with construction fences												
Temporary Seeding and Planting												
Permanent Seeding and Planting											X	X
Other:												

CONTROL MEASURE	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5
Silt Fencing	X	X	X	X	
Construction Entrance					
Sediment Traps	X	X	X	X	X
Storm Inlet Protection	X	X	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					

INSPECTION FREQUENCY FOR BMP

Site Condition	Minimum Frequency
1. Active period	Daily when stormwater runoff, including runoff from snowmelt, is occurring. At least once every 14 days, regardless of whether stormwater runoff is occurring.
2. Prior to the site becoming inactive or in anticipation of site inaccessibility.	Once to ensure that erosion and sediment control measures are in working order. Any necessary maintenance and repair must be made prior to leaving the site.
3. Inactive periods greater than seven (14) consecutive calendar days	Once every month.
4. Periods during which the site is inaccessible due to inclement weather	If practical, inspections must occur daily at a relevant and accessible discharge point or downstream location.
5. Periods during which discharge is unlikely due to frozen conditions	Monthly. Resume monitoring immediately upon melt, or when weather conditions make discharge likely.

BMP Rationale

A comprehensive list of available Best Management Practices (BMP) options based on DEQ's 1200-C Permit Application and ESCP Guidance Document has been reviewed to complete this Erosion and Sediment Control Plan. Some of the above listed BMPs were not chosen because they were determined to not effectively manage erosion prevention and sediment control for this project based on specific site conditions, including soil conditions, topographic constraints, accessibility to the site, and other related conditions. As the project progresses and there is a need to revise the ESCP, an Action Plan will be submitted.

SOIL TYPE(S):	PER MARION CO. SOIL SURVEY THE SITE SOILS INCLUDE, "NEKIA SILTY CLAY LOAM, 7 TO 12 PERCENT SLOPES"
EROSION HAZARD:	PER MARION CO. SOIL SURVEY EROSION HAZARD RANGE IS "MODERATE"
SITE AREA:	4.26 Ac
DISTURBANCE AREA:	0.35 Ac

SUPPLEMENTAL WESTECH NOTES:

- 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.
- 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.
- 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.
- 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 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.
- All existing and newly constructed storm inlets and drains shall be protected until pavement surfaces are completed and/or vegetation is established.
- 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.
- 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.
- 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.
- The Contractor shall provide site watering as necessary to prevent wind erosion of fine-grained soils.
- Unless otherwise indicated on the drawings, all temporary erosion control facilities, including sediment fences, silt sacks, bio-bags, etc. shall be removed by the Contractor within 30 days after permanent landscaping/vegetation is established.
- 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.
- Sediment fence shall be installed per drawing details. Sediment fences shall have adequate support to contain all silt and sediment captured.
- 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.
- 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.
- 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 bio-filter bags. Sediment shall be removed prior to reaching the above stated depths. New sediment barriers shall be installed uphill as required to control sediment transport.
- 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.
- 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.
- 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.
- 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.
- Temporary grass cover measures must be fully established by October 15th, or other cover measures (ie. erosion control blankets with anchors, 3-inches minimum of straw mulch, 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. Straw mulch, if used, shall not leave any bare ground visible through the straw.
- Minimum wet weather slope protection. For slopes steeper than 3H:1V but less than 2H:1V, use Tensor/North American Green Type S150 erosion control blanket. For slopes 2H:1V or steeper, use Tensor/North American Green Type SC150 erosion control blanket. Use a minimum of 2-inches straw mulch or Tensor/North American Green Type S150 for slopes flatter than 3H:1V. 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 6-mil HDPE plastic sheet may be placed on exposed slopes. The plastic sheet 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.
- Permanent erosion control vegetation on all embankments and disturbed areas shall be re-established as soon as construction is completed.
- 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 (ie. 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 experience as required in Schedule A.6.b.i-ii of the 1200-C Permit
- 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.



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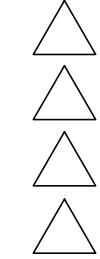
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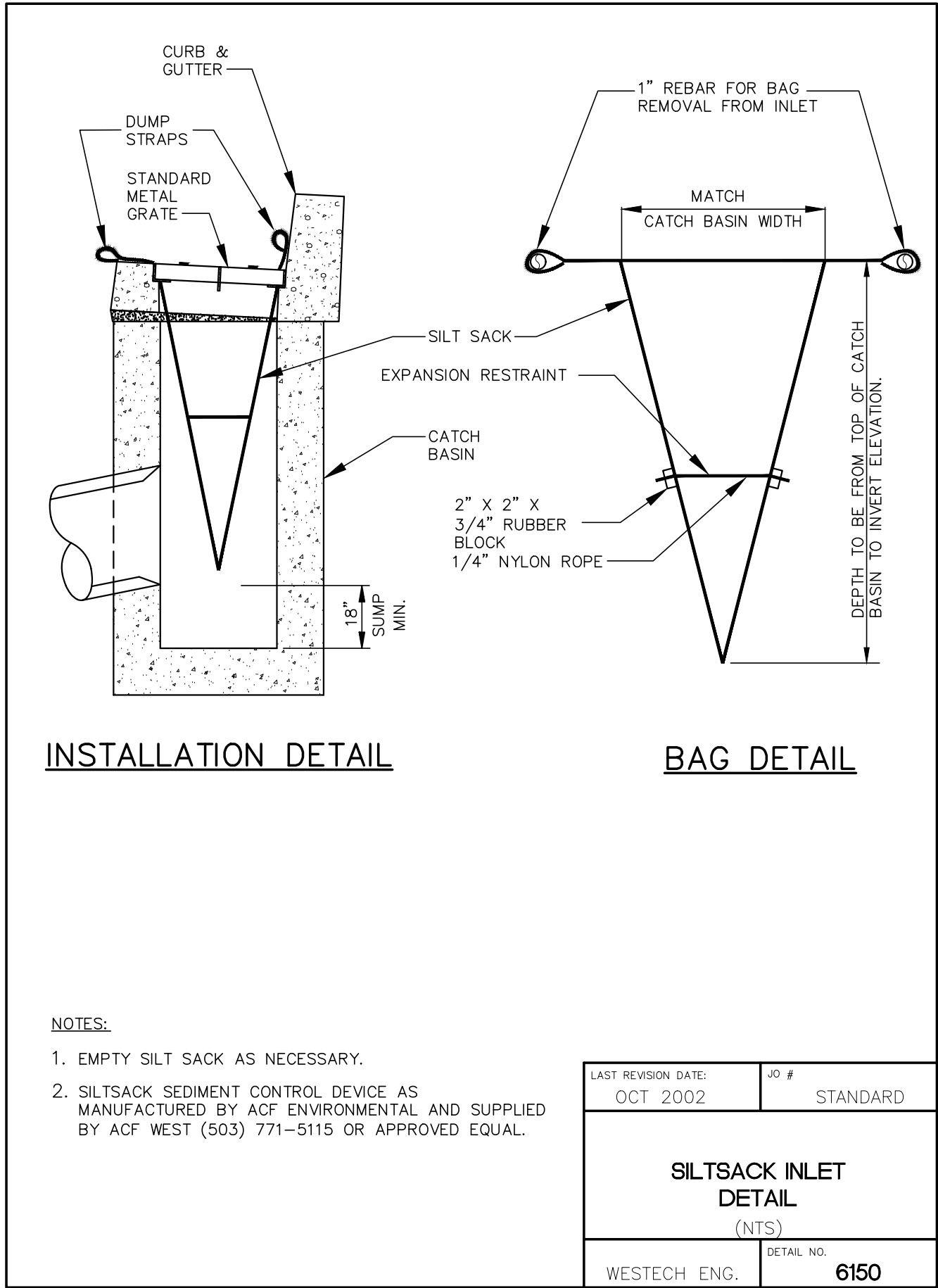
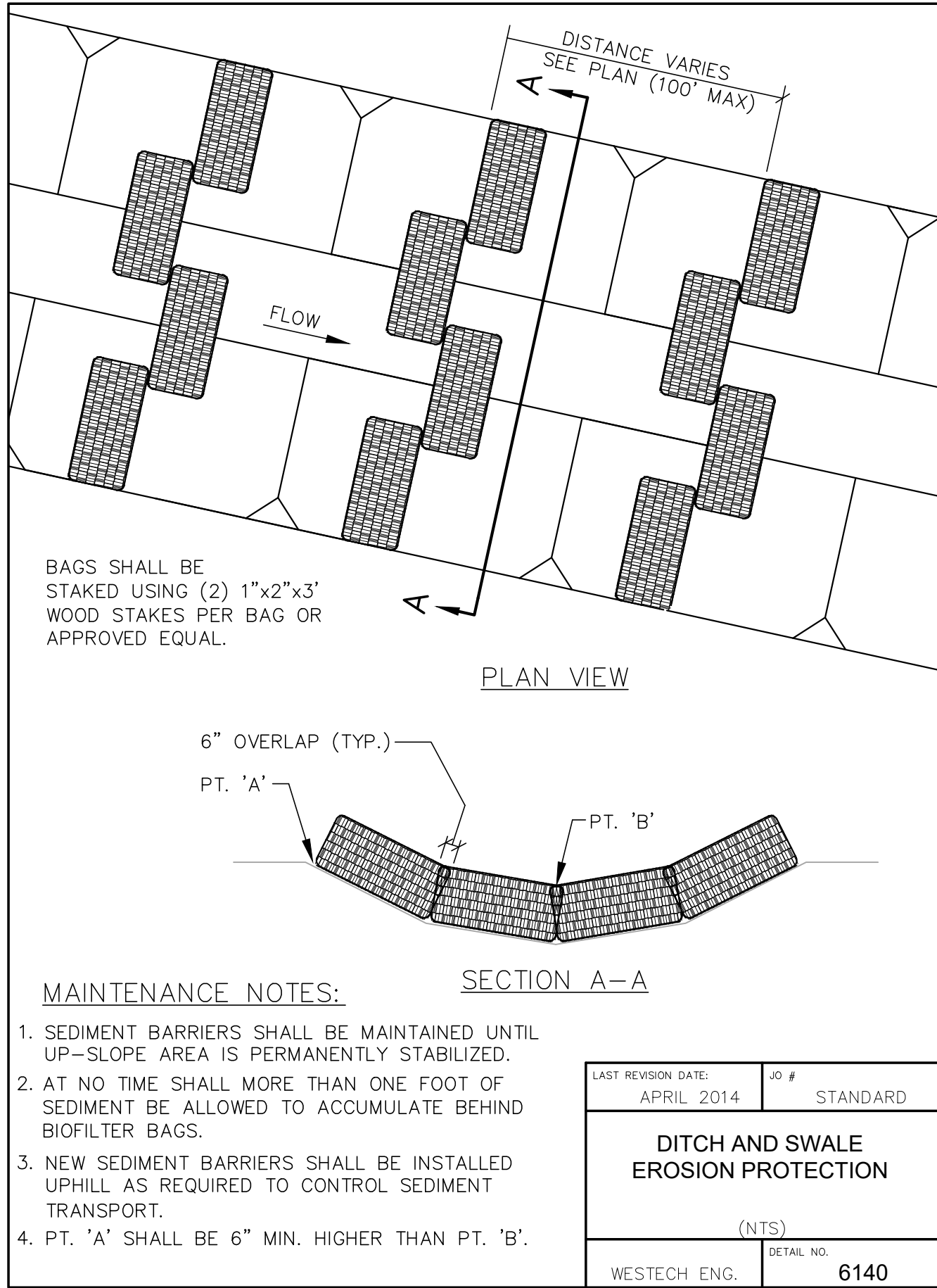
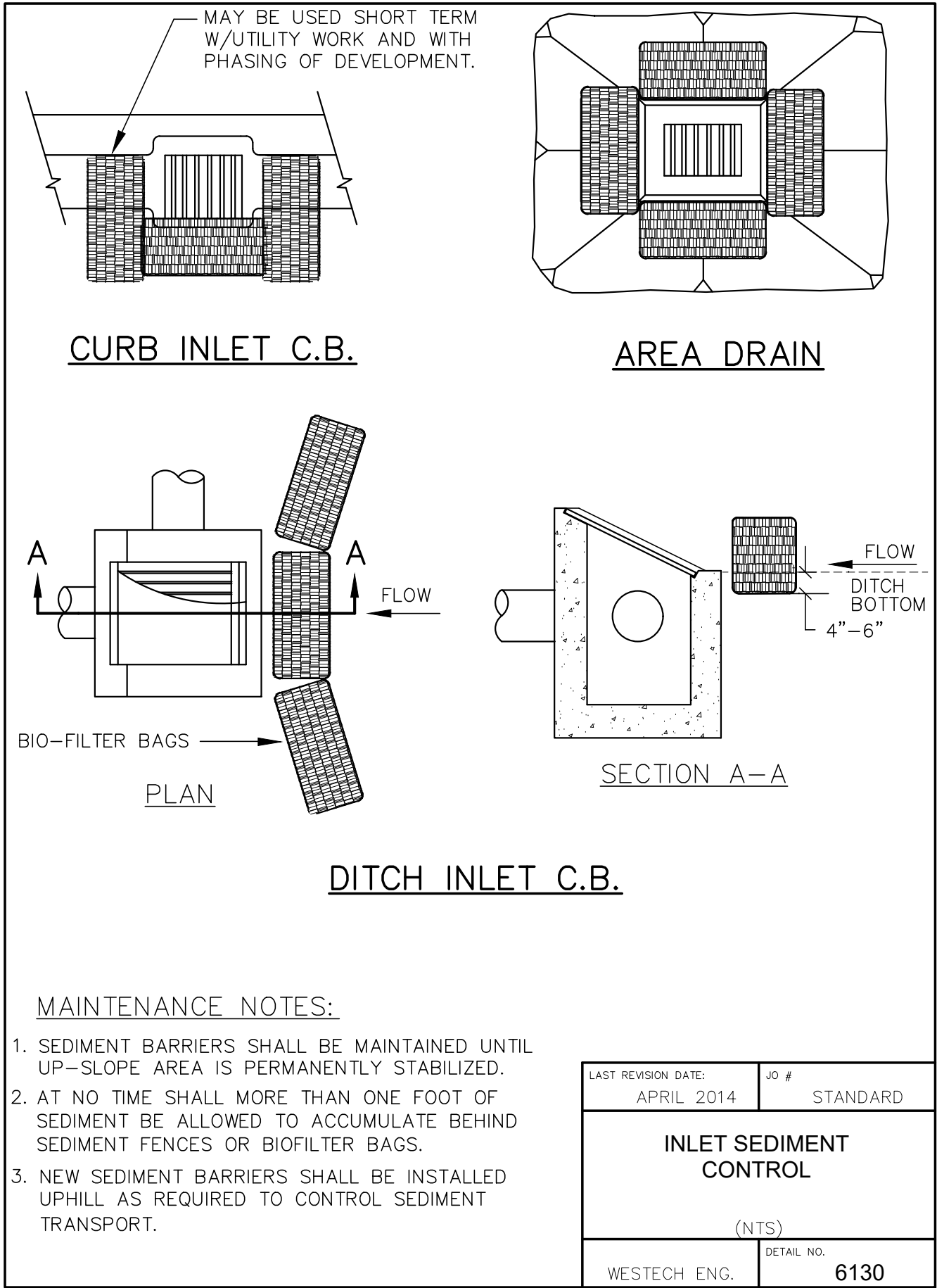
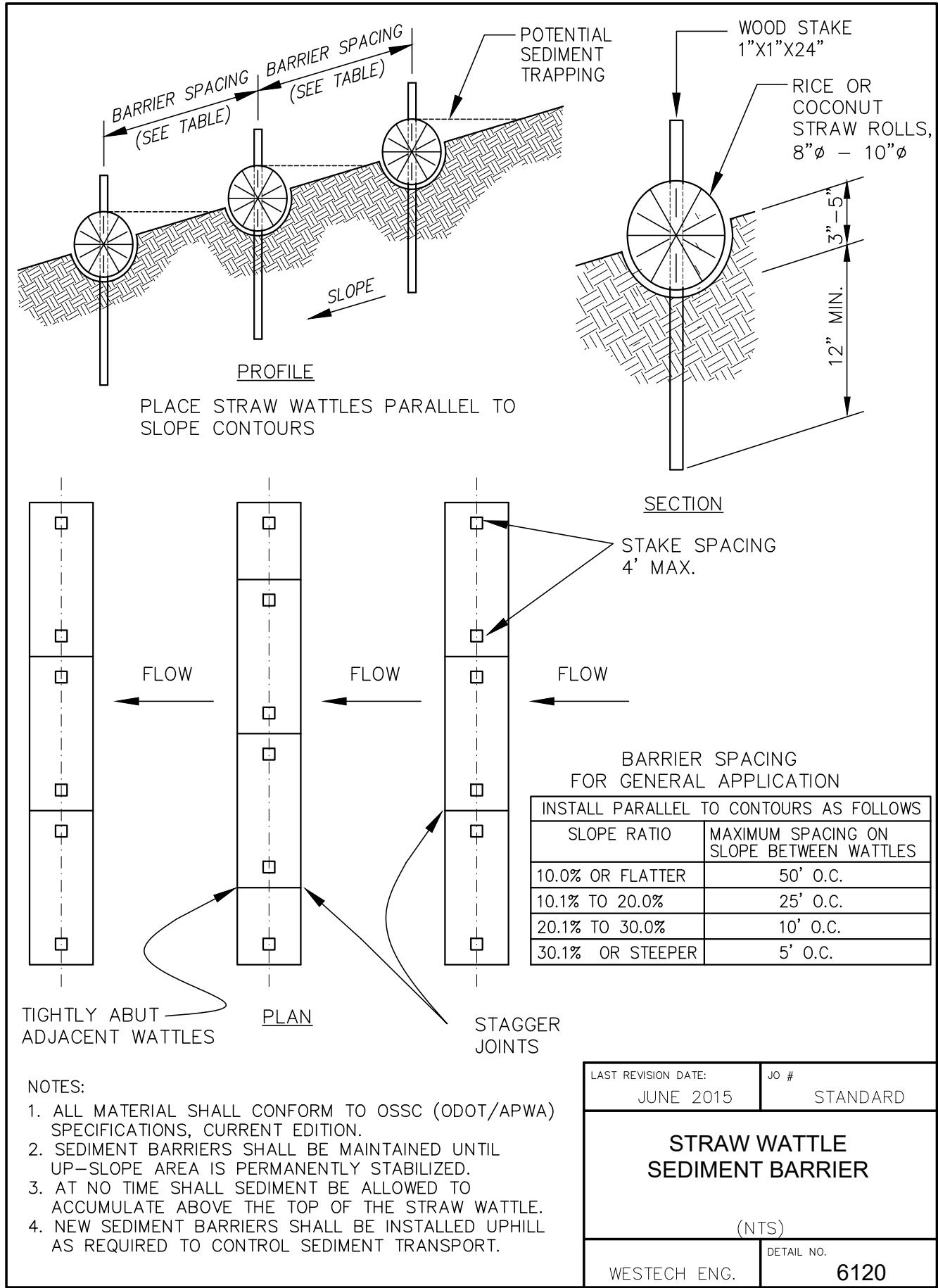
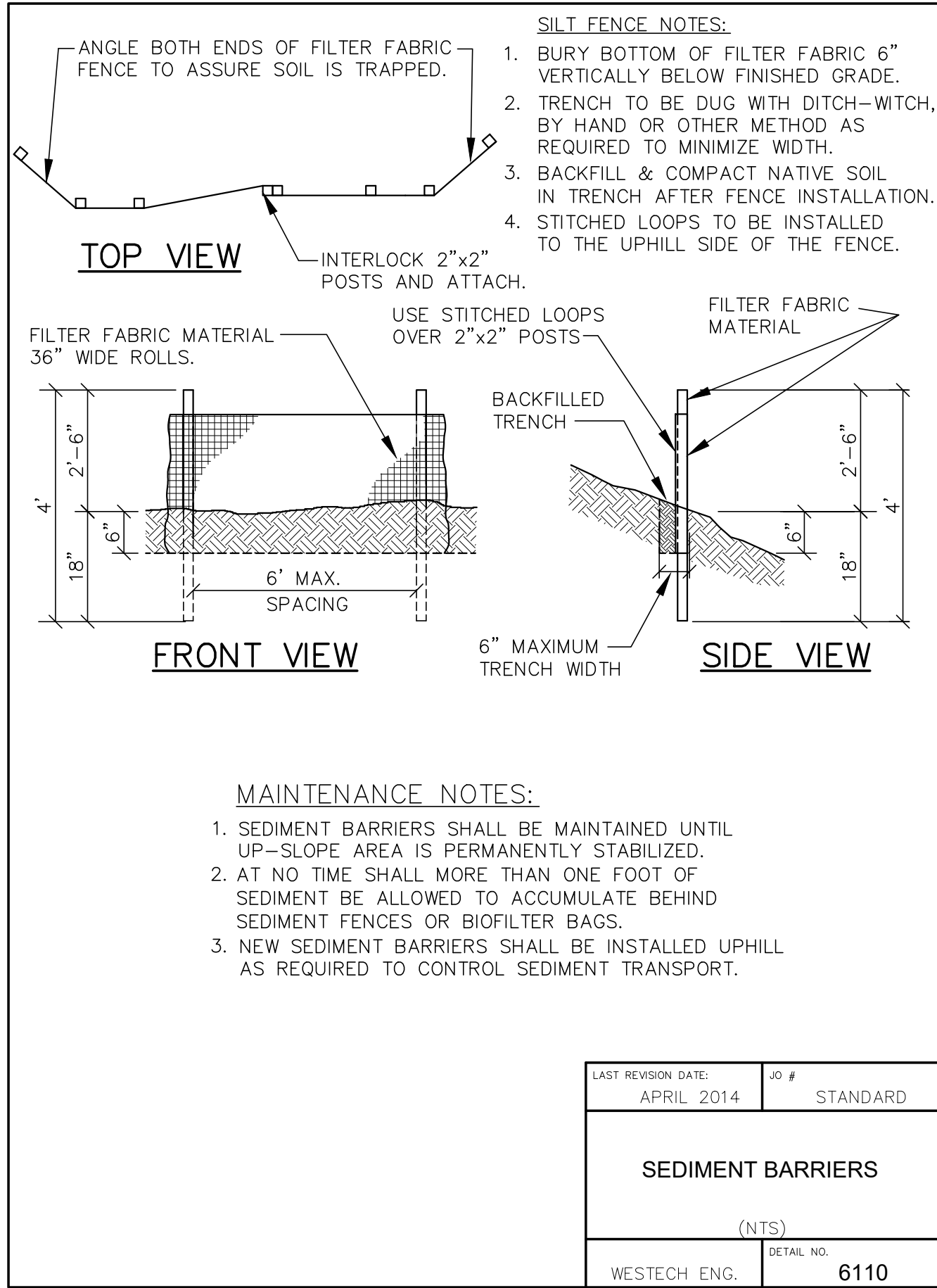
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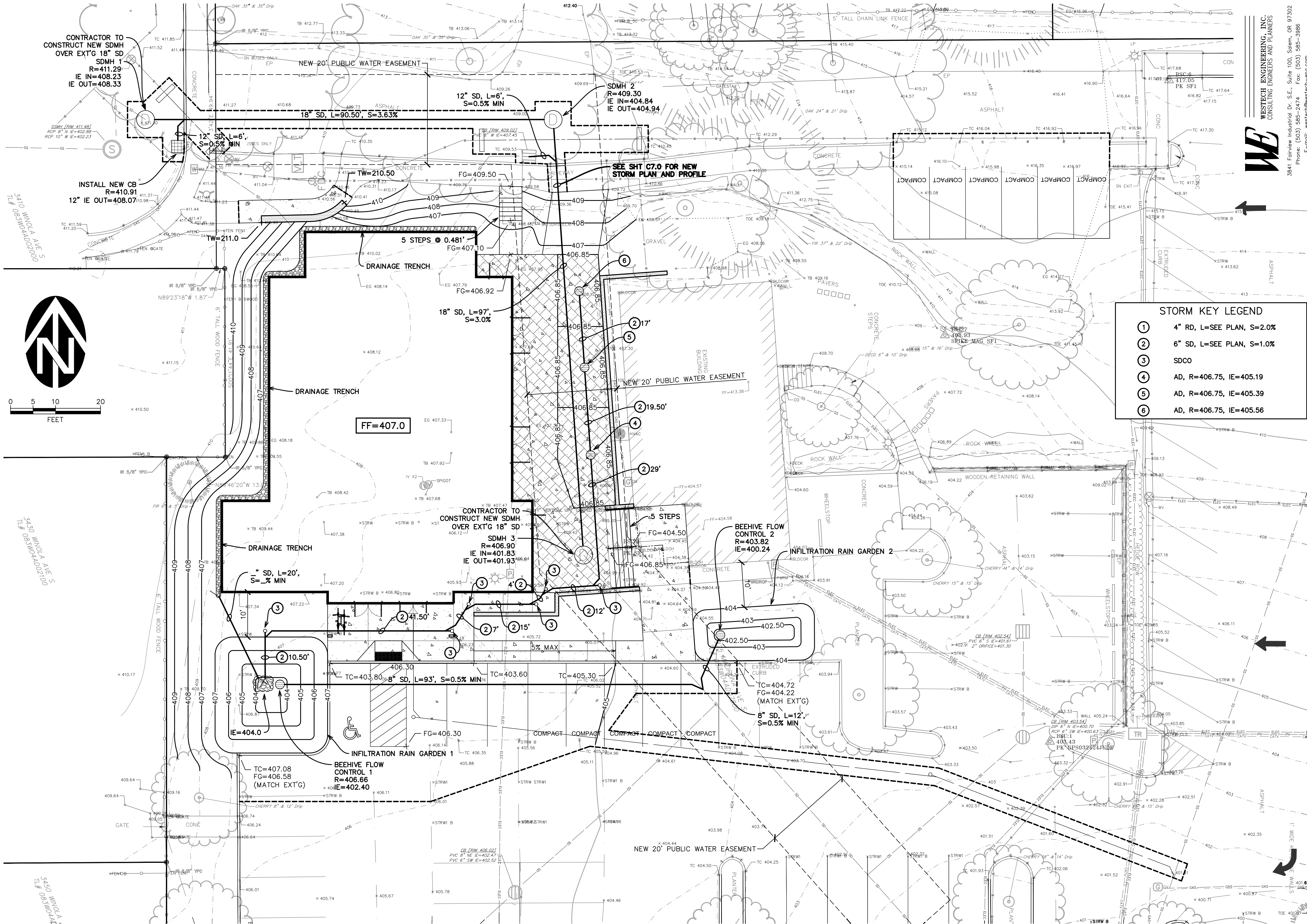
EROSION CONTROL NOTES

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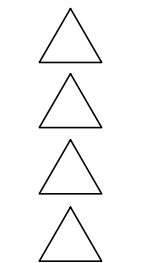
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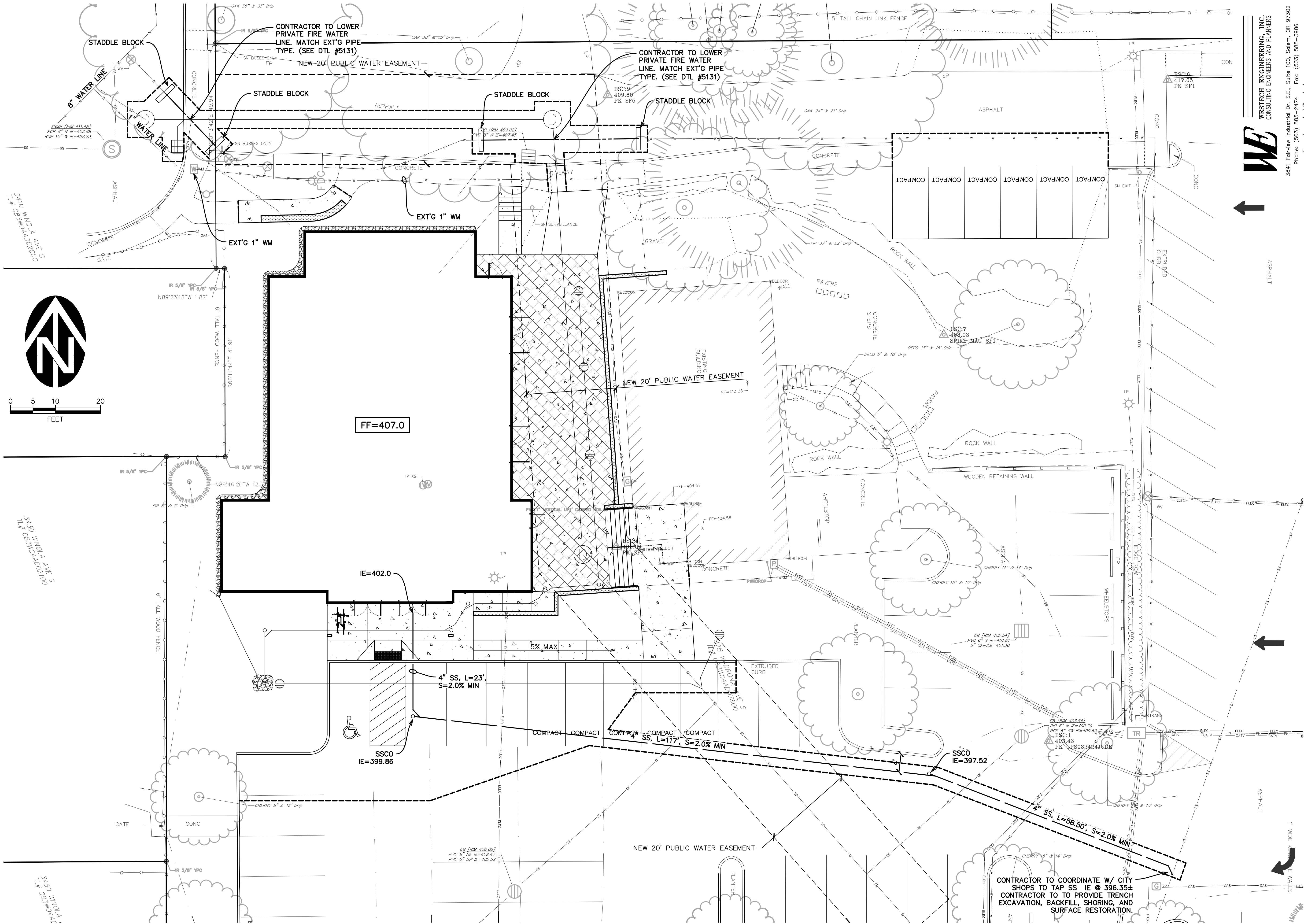
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**GRADING AND DRAINAGE
PLAN**

sheet:

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WE JOB #: 3575.0000.0



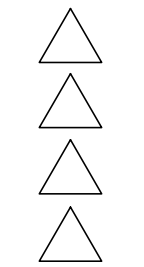
RENEWS: 6/30/2026

project:
**SALEM HEIGHTS CHURCH
MINISTRY CENTER**

SALEM, OR 97302

consultants:

revisions:



date: XX/XX/2025

project: 03225

dwg file:

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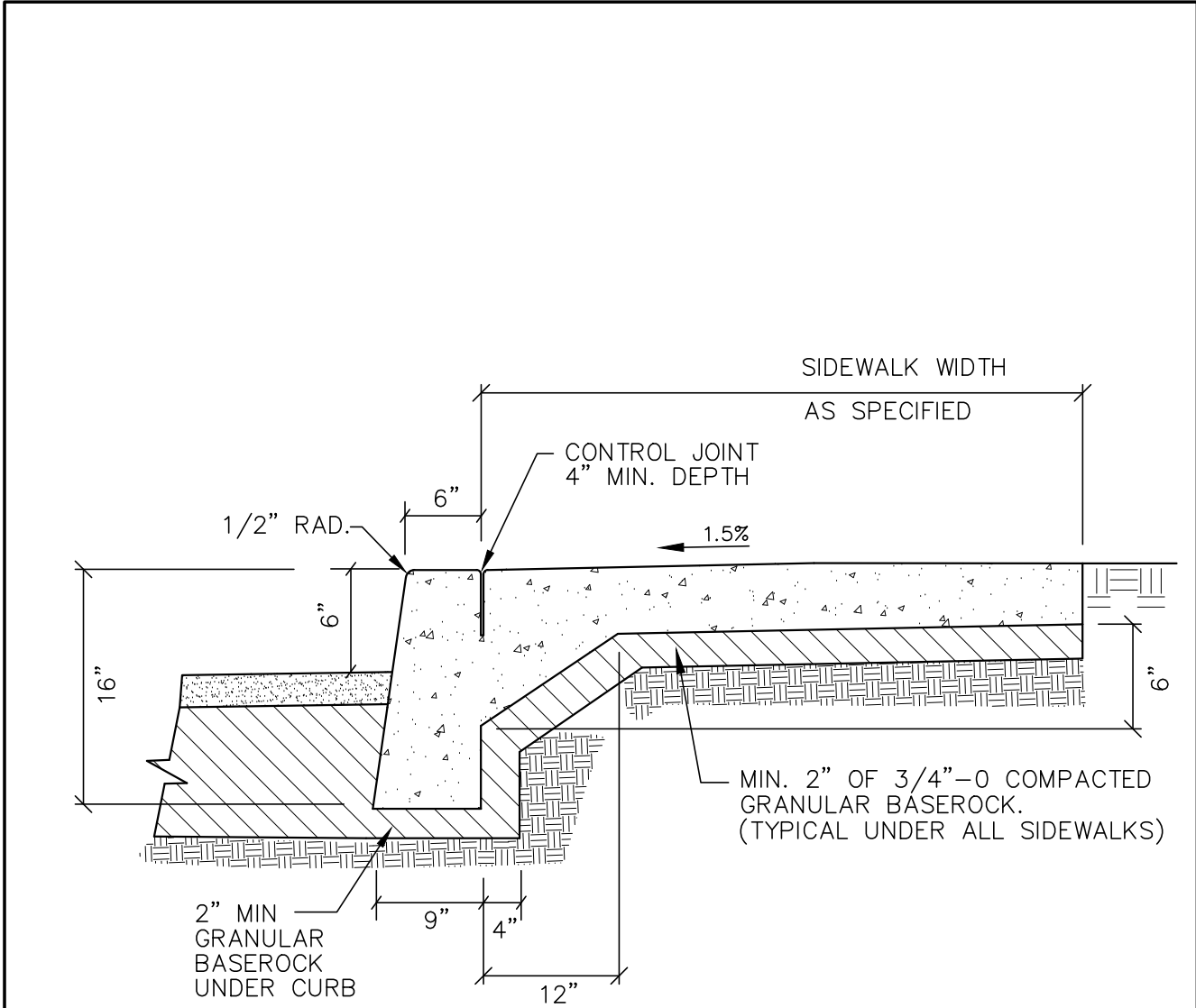
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UTILITY PLAN

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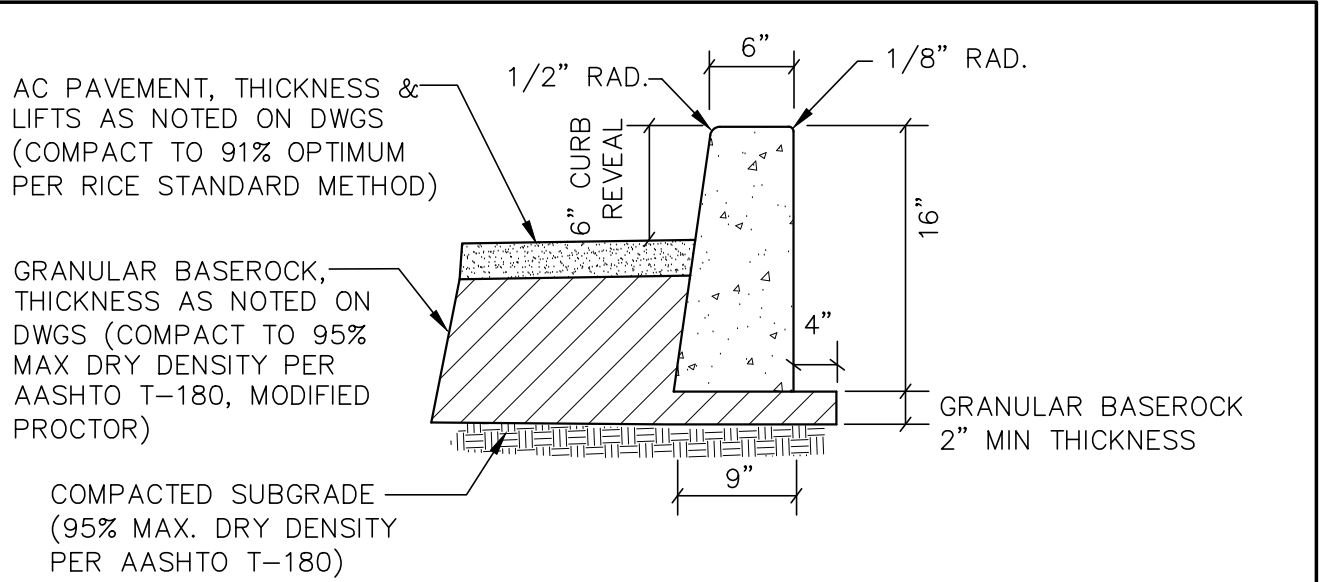


TYPICAL SECTION
NTS

NOTES:

1. CONCRETE THICKNESS, 4" MIN. CONCRETE THICKNESS FOR STANDARD SIDEWALKS. 6" MIN CONCRETE THICKNESS THROUGH RESIDENTIAL DRIVEWAYS (INCLUDING WINGS). 8" MIN CONCRETE THICKNESS THROUGH COMMERCIAL/INDUSTRIAL DRIVEWAYS & ALLEY APPROACHES.
2. CONCRETE SHALL BE 3300 PSI @ 28 DAYS, MAX 5" SLUMP, 4.5% AIR (±1.5%).
3. INSTALL TOOLED CONTRACTION JOINTS AT 5' INTERVALS. SIDEWALKS 10' & WIDER SHALL HAVE A LONGITUDINAL CONTRACTION JOINT AT 5' MAX ON CENTER.
4. INSTALL AT LEAST 2 WEEP HOLES ON ALL LOTS. IN ADDITION TO WEEPHOLES AT DRIVEWAY WINGS, INSTALL ONE WEEPHOLE AT LOW POINT OF LOT, 5' MAX FROM P/L.
5. A CONTRACTION JOINT SHALL BE PLACED ALONG AND OVER WEEPHOLE & DRAIN PIPE.
6. SIDEWALKS SHALL BE LOCATED ENTIRELY WITHIN PRIVATE RIGHT-OF-WAYS OR SIDEWALK EASEMENTS, INCLUDING SIDEWALKS AT DRIVEWAY APRONS.

LAST REVISION DATE:	JO #	STANDARD
JAN 2024		
MONOLITHIC CURB AND PRIVATE SIDEWALK		
(NTS)		
WESTECH. ENG.	DETAIL NO.	2112



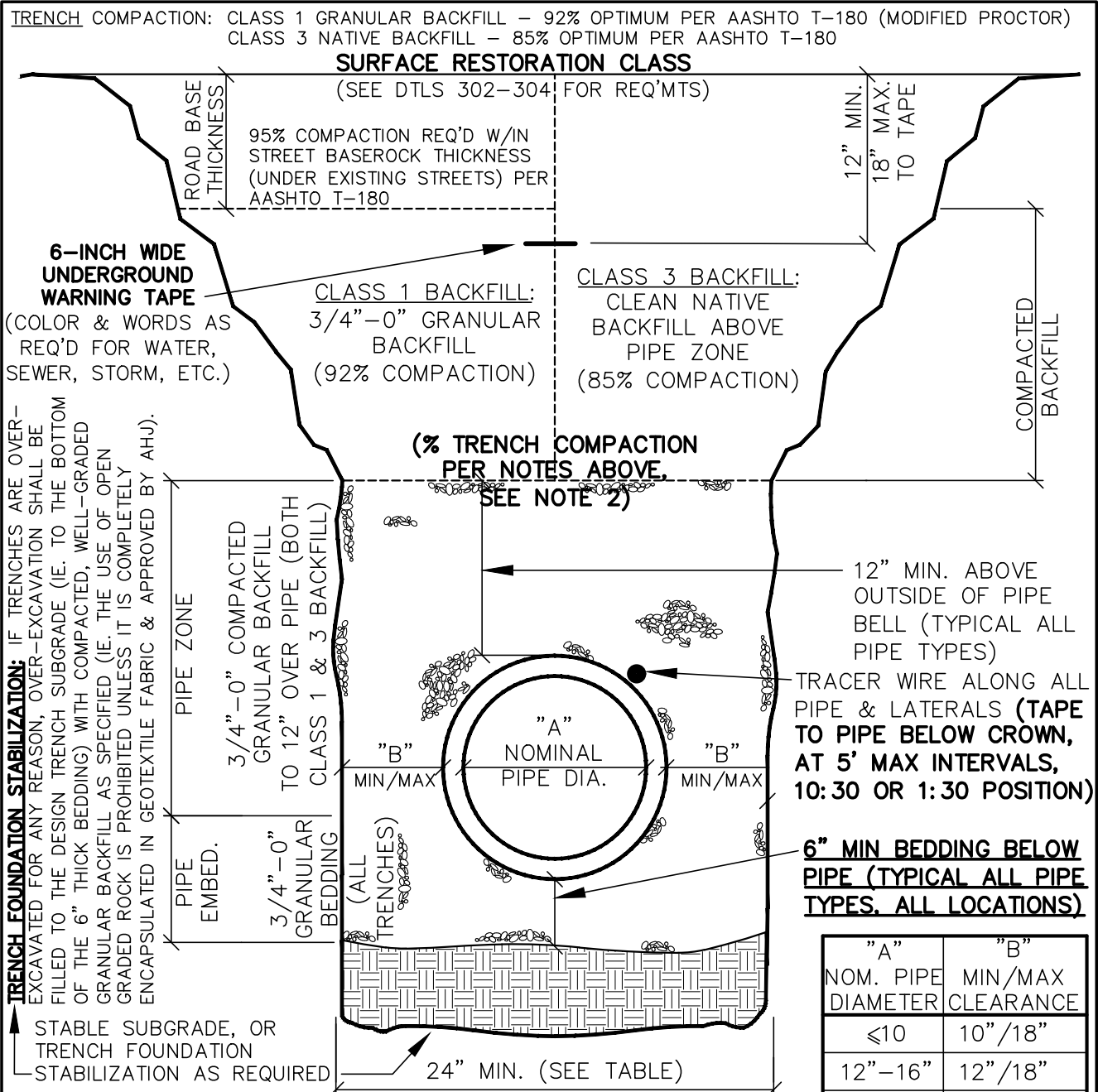
PAVEMENT/TYPE "C" CURB DETAIL
NTS

SEE PLAN

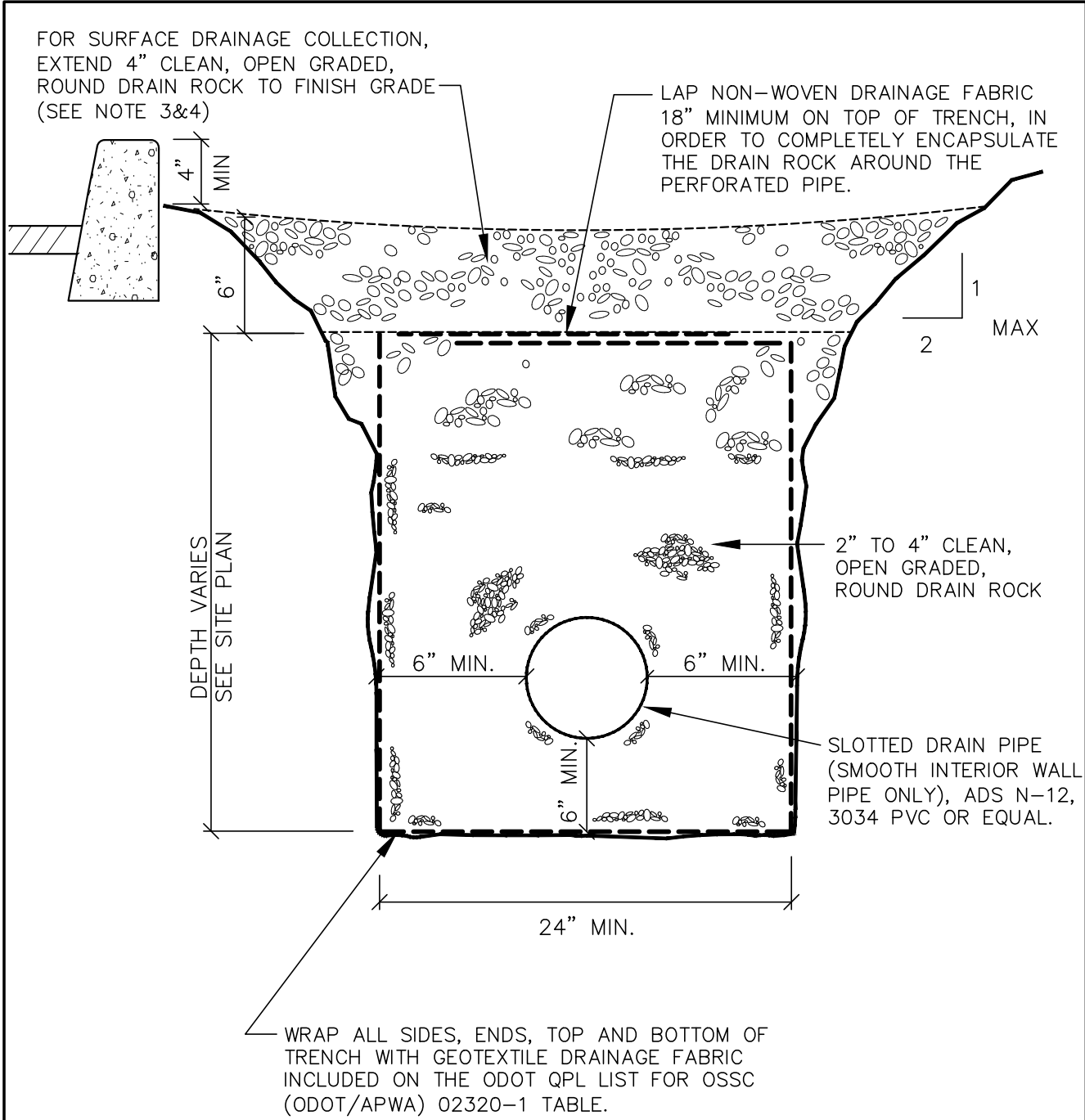
NOTES:

1. SEE GRADING PLAN OR SURFACING PLAN FOR LOCATION OF LIGHT AND HEAVY DUTY PAVEMENT, AS WELL AS PAVEMENT & BASEROCK THICKNESSES.
2. DESIGN SUBGRADES SHALL BE COMPACTED AND PROOF-ROLLED PRIOR TO PLACEMENT OF BASEROCK. IF SUBGRADE PASSES PROOF-ROLL BUT FAILS DENSITY TESTING, MIN. 4.5 OZ NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO PLACEMENT OF BASEROCK. FAILURE OF PROOF-ROLL WILL REQUIRE OVEREXCAVATION.
3. IF SUBGRADE FAILS THE PROOF-ROLL, SUBGRADE SHALL BE OVEREXCAVATED TO UNDISTURBED SOIL AND BACKFILLED WITH BASEROCK OVER MIN. 8.0-OZ. NON-WOVEN FABRIC AS REQUIRED TO ALLOW COMPACTION OF UPPER (DESIGN) BASEROCK SECTION AND TO MAINTAIN STRUCTURAL INTEGRITY OF NATIVE SUBGRADE SOILS. TYPICAL MIN. OVEREXCAVATION REQUIRED IS 12-INCHES. NO RUBBER Tired EQUIPMENT ALLOWED ON SUBGRADE FOLLOWING OVEREXCAVATION.
4. SUBGRADE TO BE PROOFROLLED IMMEDIATELY PRIOR TO PLACING BASEROCK. BASEROCK TO BE PROOFROLLED IMMEDIATELY PRIOR TO PAVING.
5. CONTRACTION JOINTS SHALL BE PLACED AT 15' MIN. INTERVALS AND SHALL EXTEND AT LEAST 50% THROUGH THE CURB SECTION.
6. CURBS TO CURE A MINIMUM OF 7 DAYS PRIOR TO PLACING FINAL BASEROCK AND PAVING. USE TYPE 1 OR 1-D CLEAR CURING COMPOUND.
7. ALL CONCRETE SHALL BE 3300 PSI @ 28 DAYS, MAX 5" SLUMP, 4.5% AIR (±1.5%).

LAST REVISION DATE:	JO #	X
FEB 2024		
PAVEMENT AND TYPE 'C' CURB DETAIL		
(NTS)		
WESTECH. ENG.	DETAIL NO.	2390



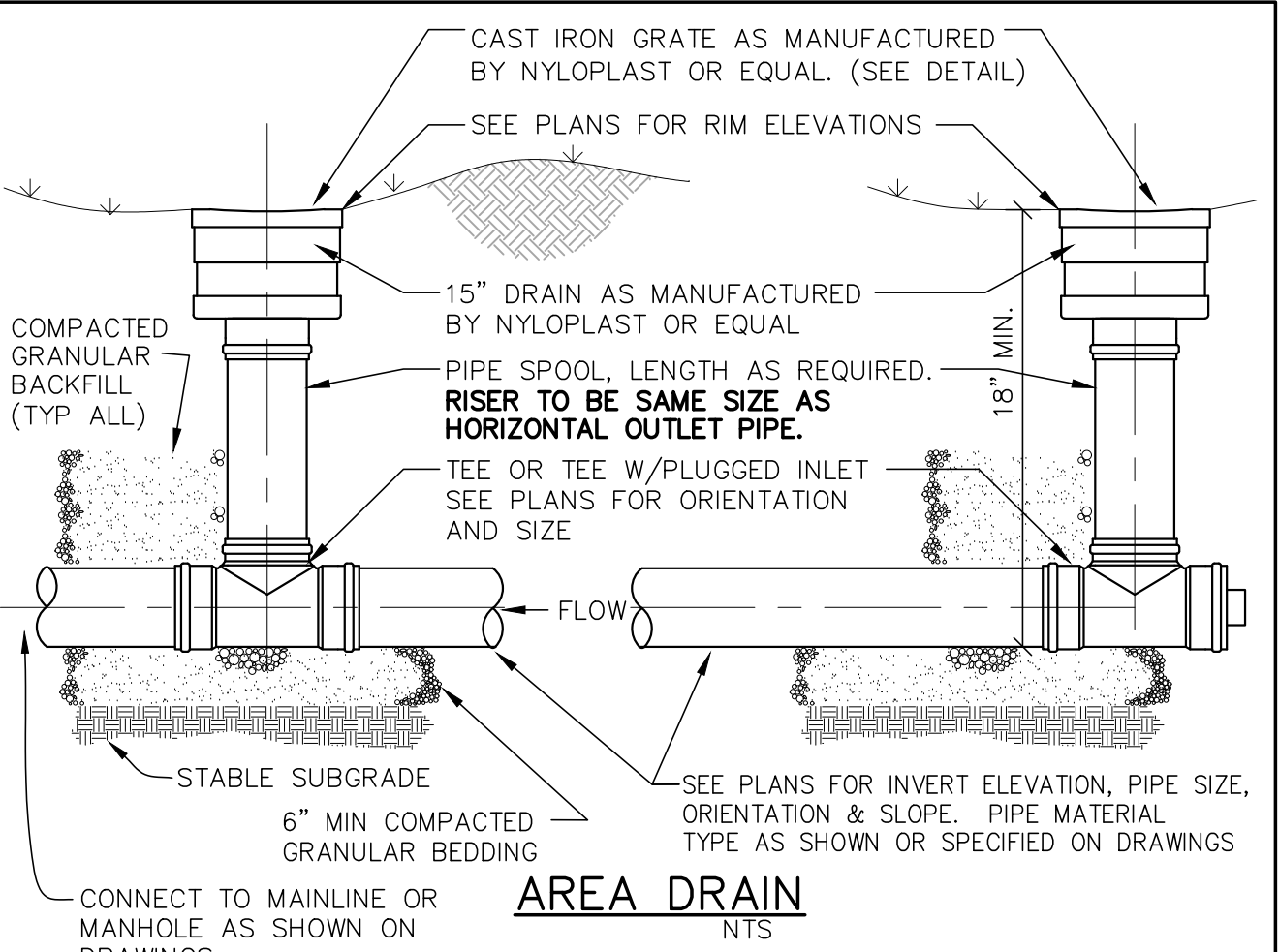
NOTES:	LAST REVISION DATE:	JO #	STANDARD
1. CLASS 1 GRANULAR BACKFILL REQUIRED UNDER ALL EXISTING OR FUTURE IMPROVED AREAS, INCLUDING STREETS, SHOULDERS, PARKING, SIDEWALKS, ETC.	MAR 2024		
2. SUBMIT WRITTEN BACKFILL COMPACTION TEST RESULTS PRIOR TO INSTALLING AC PAVEMENT OR CONCRETE SURFACE RESTORATION.			
3. WHERE NEW PIPING IS IN SAME ALIGNMENT AS EXISTING PIPING, GRANULAR PIPE EMBEDMENT SHALL EXTEND TO A MIN. OF 6" BELOW THE NEW PIPING OR 6" BELOW EXISTING PIPING, WHICHEVER IS DEEPER.			
4. SHORING NOTE: PIPE ZONE: FOR FLEXIBLE PIPE, BOTTOM OF TRENCH SHORING SHALL BE ABOVE PIPE SPRINGLINE PRIOR TO COMPACTING BACKFILL BELOW THE PIPE SPRINGLINE AND UNDER THE PIPE HAUNCHES (TO AVOID LOSS OF PIPE SIDE SUPPORT).			
5. MINIMUM CLEARANCES SHOWN ("B") ASSUMES STANDARD 6" WALL TRENCH BOXES SET ON TRENCH BOTTOM, AND REPRESENTS WIDTH REQUIRED TO CONSOLIDATE GRANULAR MATERIAL UNDER PIPE HAUNCHES (TO AVOID LOSS OF SIDE SUPPORT WHEN TRENCH BOX IS MOVED OR PULLED FORWARD). TRENCH WIDTH REDUCTION REQUIRES PRIOR APPROVAL BASED ON ACTUAL TRENCH SHORING PROPOSED.			
TRENCH BACKFILL, BEDDING, AND PIPE ZONE			
(NTS)			
WESTECH. ENG.	DETAIL NO.	3010	



NOTES:

1. SLOPE TRENCH SURFACE TO DRAIN AS SHOWN ON THE GRADING PLAN.
2. SEE PLANS FOR SIZE OF PIPE AND LOCATION OF DRAIN TRENCH (OUTSIDE OF IMPROVED AREAS).
3. FOR SURFACE DRAINAGE COLLECTION TRENCHES, DO NOT PLACE TOPSOIL, BARKDUST OR SIMILAR OVER THE TOP OF THE DRAIN ROCK ABOVE THE COLLECTION TRENCH (CONTRACTOR TO PROTECT SURFACE DRAIN ROCK FROM CONTAMINATION DURING ALL CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPING).
4. FOR TRENCHES DESIGNED TO ONLY COLLECT GROUNDWATER, PROVIDE SURFACING OVER FABRIC AS SHOWN ON PLANS.

LAST REVISION DATE:	JO #	STANDARD
AUG 2024		
SURFACE / GROUNDWATER DRAINAGE COLLECTION TRENCH W/PERFORATED PIPE		
(NTS)		
WESTECH. ENG.	DETAIL NO.	3050

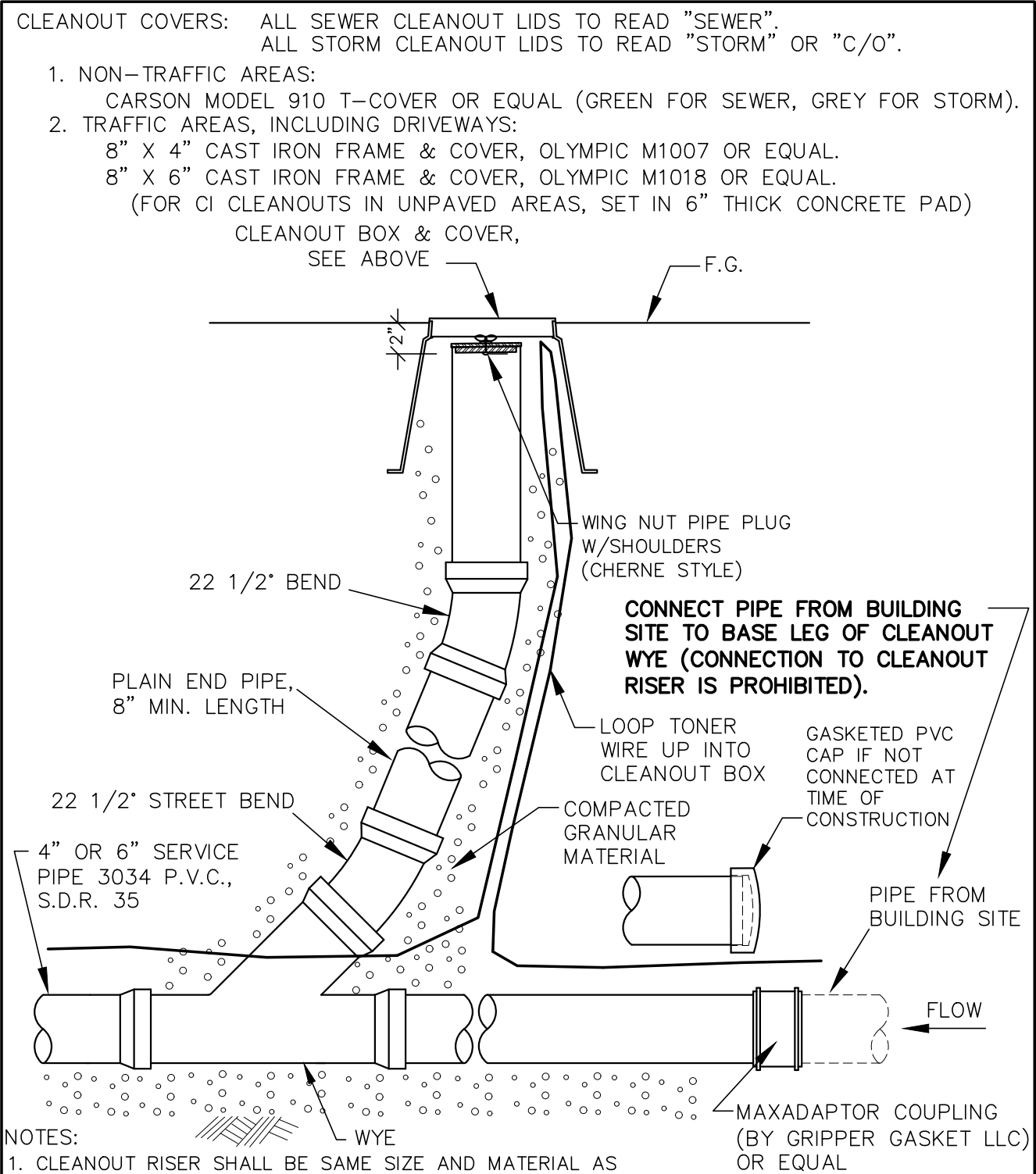


AREA DRAIN
NTS

NOTES:

1. AREA DRAIN NOT FOR USE IN AREAS SUBJECT TO VEHICLE TRAFFIC.
2. USE WATERTIGHT GASKETED FITTINGS AND ADAPTORS FOR ALL PIPE CONNECTIONS.
3. ALL GRATES IN PEDESTRIAN AREAS SHALL CONFORM WITH ADA REQUIREMENTS, INCLUDING GRATE OPENING SIZE.
4. ADJUST GRATE ELEVATIONS IF NECESSARY FOR DRAINAGE.

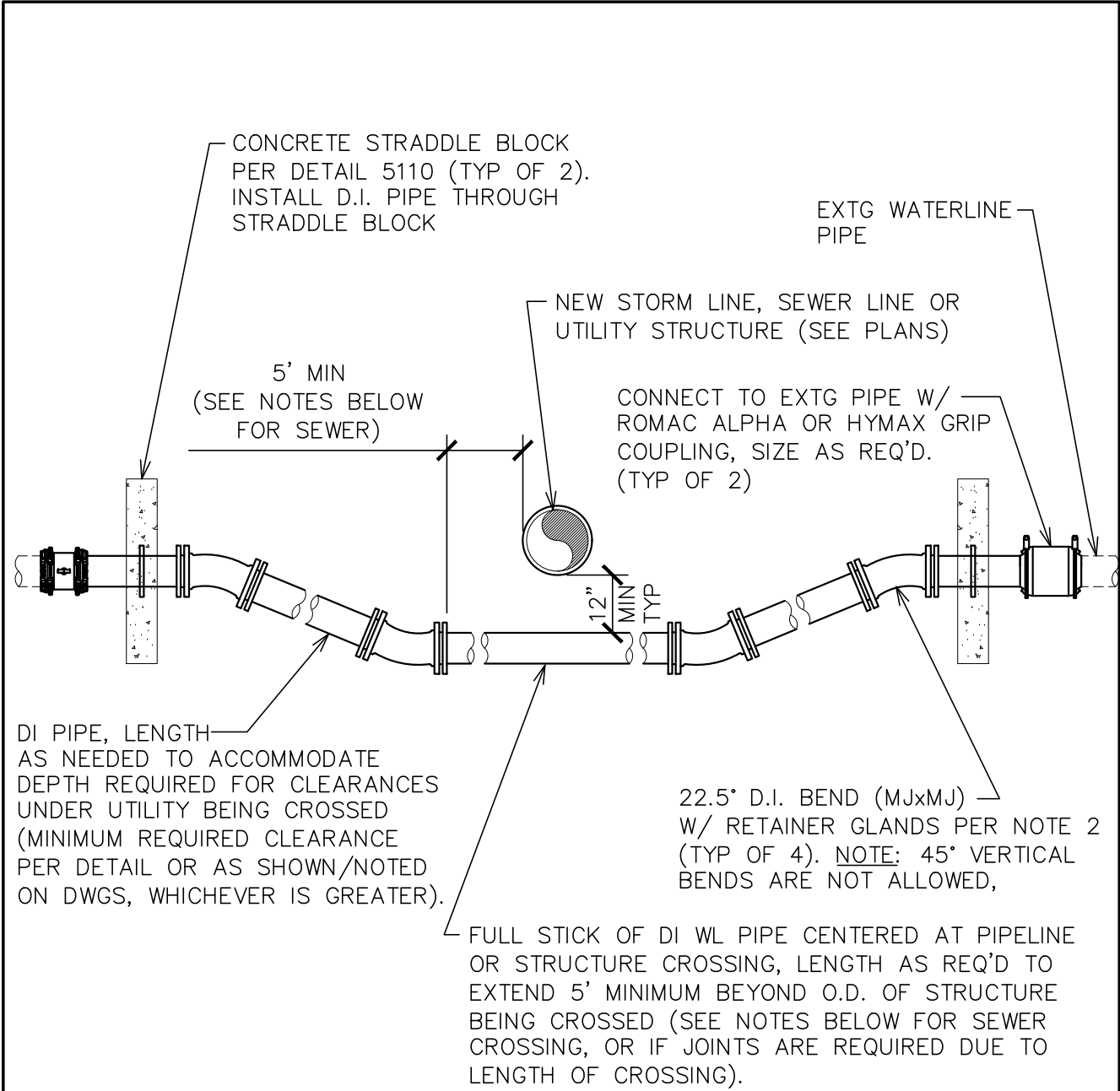
LAST REVISION DATE:	JO #	STANDARD
APR 2024		
FLAT AREA DRAIN, LANDSCAPE AND PEDESTRIAN AREAS (NON-TRAFFIC)		
(NTS)		
WESTECH. ENG.	DETAIL NO.	3550



NOTES:

1. CLEANOUT RISER SHALL BE SAME SIZE AND MATERIAL AS LATERAL PIPE.
2. PROVIDE CONCRETE PAD FOR CLEANOUTS LOCATED IN UNPAVED DRIVEWAYS OR TRAFFIC AREAS (6" THICK PAD TO BE 6" LARGER THAN CLEANOUT BOX FRAME ON ALL SIDES).
3. CLEANOUT PIPE SHALL BE LEFT A MINIMUM OF 18" ABOVE EXISTING GRADE UNTIL ALL CURBING IS INSTALLED AND ALL PRIVATE UTILITY TRENCHES ARE BACKFILLED. CLEANOUTS SHALL THEN BE SET NO MORE THAN 6" BELOW FINISH GRADE, AND CLEANOUT BOXES SET FLUSH WITH FINISH GRADE.

LAST REVISION DATE:	JO #	STANDARD
MAY 2024		
STANDARD SERVICE LATERAL CLEANOUT (ON PRIVATE PROPERTY)		
(NTS)		
WESTECH. ENG.	DETAIL NO.	4161

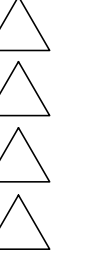


NOTES:

1. THE NEW WATERLINE PIPE BETWEEN THE UPPER COUPLINGS SHALL BE CL 52 DUCTILE IRON.
2. RETAINER GLANDS (MEGALUG OR APPROVED EQUAL) ARE REQUIRED ON ALL MECHANICAL JOINT FITTING SHOWN OR PROPOSED.
3. PROVIDE FIELD-LOCK GASKETS ON ANY PUSH-ON JOINTS BETWEEN STRADDLE BLOCKS. PIPE JOINTS ARE PROHIBITED ON THE LOWER HORIZONTAL PIPE WHICH CROSSES UNDER NEW PIPE OR UTILITY STRUCTURE, UNLESS NEW PIPE IS INSTALLED IN CASING PIPE PER NOTE 4.
4. CROSSING UNDER SANITARY SEWER PIPE REQUIRES A FULL STICK OF WATERLINE PIPE (18" MIN) CENTERED AT THE SEWER CROSSING AND A FULL STICK OF SEWER PIPE CENTERED AT THE WATERLINE CROSSING, PER DAR 333.031.0050(9).
5. CROSSING WHICH REQUIRE PIPE RUN LONGER THAN AVAILABLE SINGLE PIPE SPOOL LENGTHS SHALL BE INSTALLED THROUGH A STEEL CASING PIPE PER DTL 3080.
6. CONTRACTOR TO COORDINATE PRESSURE TESTING & DISINFECTION OF NEW PIPING AS REQUIRED TO MEET AHJ & OHA-DWS REQUIREMENTS.

LAST REVISION DATE:	JO #	STANDARD
MAR 2025		
EXT'G WATERLINE LOWERING DETAIL (TO ACCOMMODATE NEW STORM, SEWER, ETC.)		
(NTS)		
WESTECH. ENG.	DETAIL NO.	5131

revisions:



date: XX/XX/2025

project: 03225

dwg file:

drawn by: IH

checked by: JW

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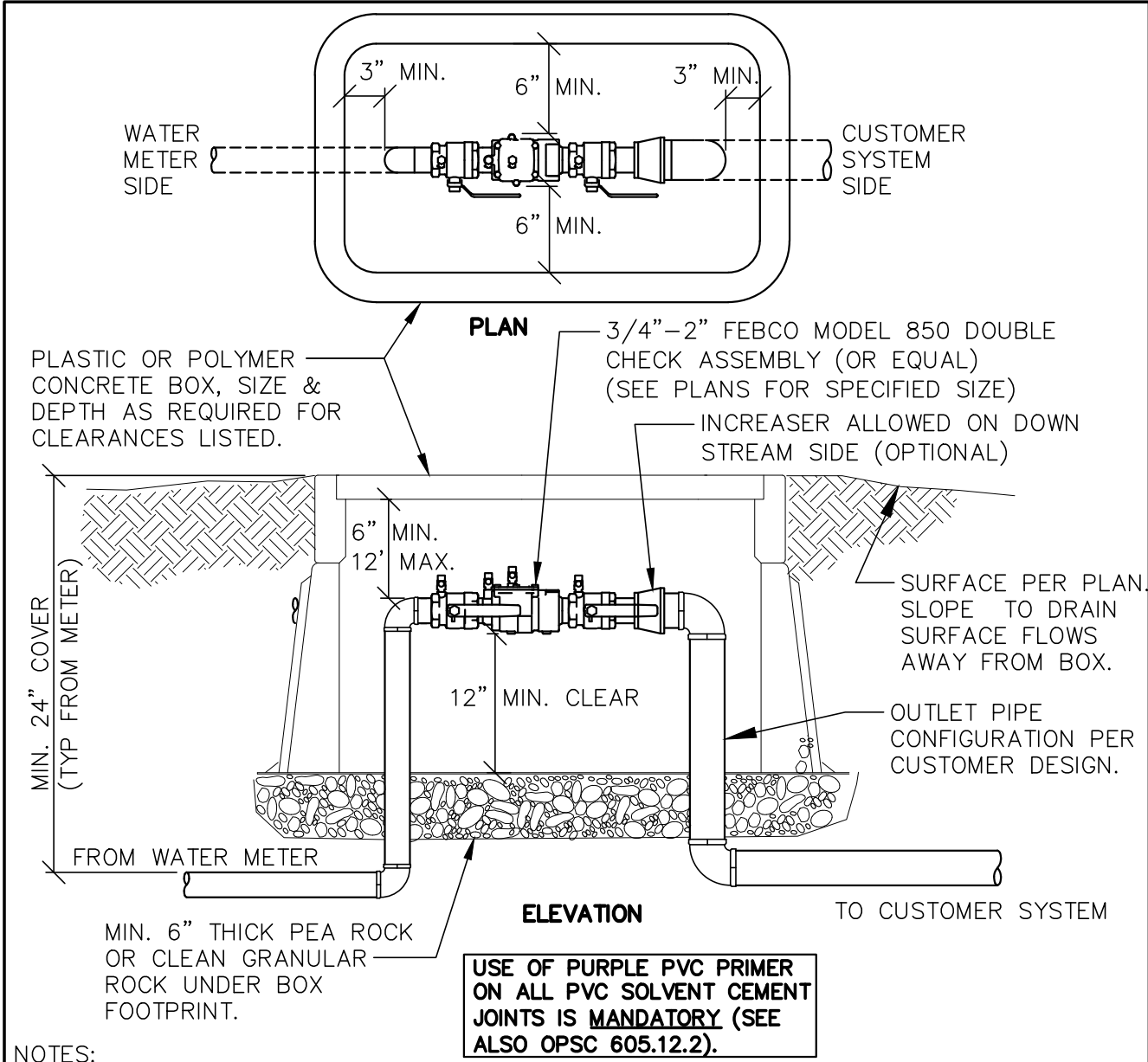
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CONSTRUCTION DETAILS

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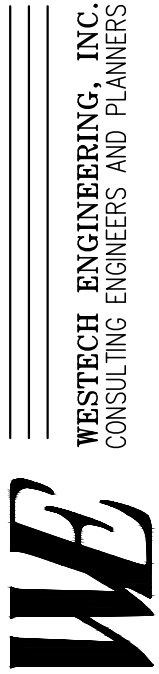
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of:



- NOTES:**
1. VERIFY THE ENCLOSURE/BOX DIMENSIONS & DEPTH ARE ADEQUATE FOR CLEARANCES SHOWN, BASED ON THE SIZE OF THE DCA AND FITTINGS ACTUALLY PROVIDED & INSTALLED.
 2. ENCLOSURE/BOX SHALL BE CENTERED OVER THE COMPLETED DOUBLE CHECK ASSEMBLY.
 3. PER OAR 333–61–0071, DCA SHALL NOT BE SUBJECT TO CONTINUOUS IMMERSION.
 4. DCA's SHALL BE INSTALLED ABOVE THE 100 YEAR FLOOD LEVEL UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER.
 5. BYPASS LINES AROUND DOUBLE CHECK ASSEMBLIES ARE NOT ALLOWED.
 6. DCA's SHALL BE PROVIDED WITH BRASS OR PLASTIC PLUGS IN ALL TEST PORTS.
 7. DCA SHALL BE LOCATED ON PRIVATE PROPERTY, AND SHALL NOT BE INSTALLED IN SIDEWALKS OR AREAS SUBJECT TO VEHICULAR TRAFFIC.
 8. THE PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN A MINIMUM OF 3 FEET OF MAINTENANCE ACCESS WORKING CLEARANCE AROUND DCA ENCLOSURES/BOXES.
 9. PRIOR TO REQUESTING APPROVAL OR FINAL INSPECTION BY THE CITY, CONTRACTOR SHALL HAVE DCA TESTED, AND COPIES OF TEST REPORTS PROVIDED TO PUBLIC WORKS.
 10. PROPERTY OWNER SHALL BE RESPONSIBLE TO PROVIDE FREEZE PROTECTION DURING COLD WEATHER PERIODS AS NECESSARY.

LAST REVISION DATE: AUG 2024	JO # STANDARD
2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLY (DCA) (NTS)	
WESTECH. ENG	DETAIL NO. 5311



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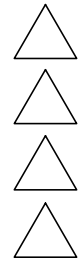
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project:
**SALEM HEIGHTS CHURCH
MINISTRY CENTER**

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project: 03225

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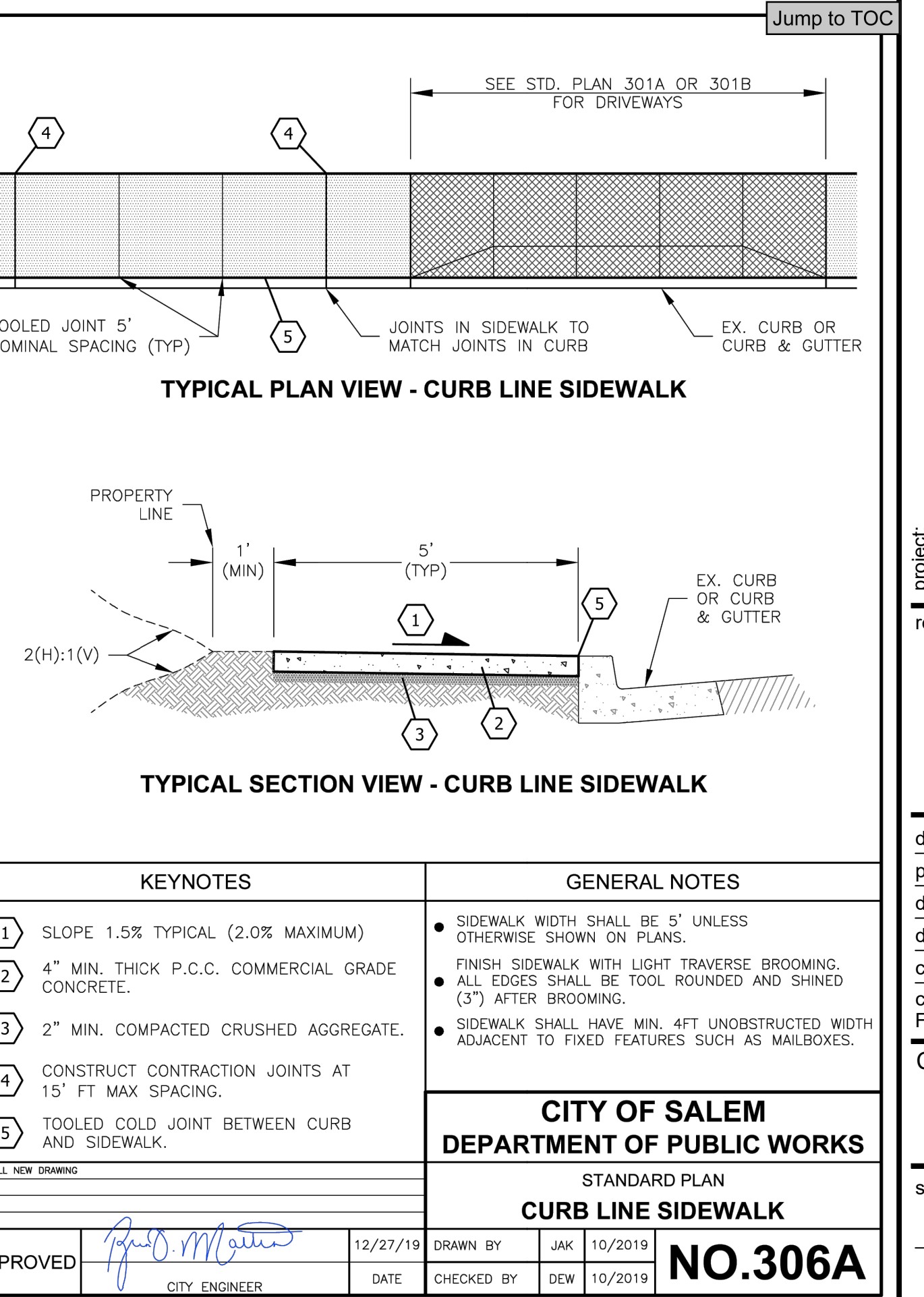
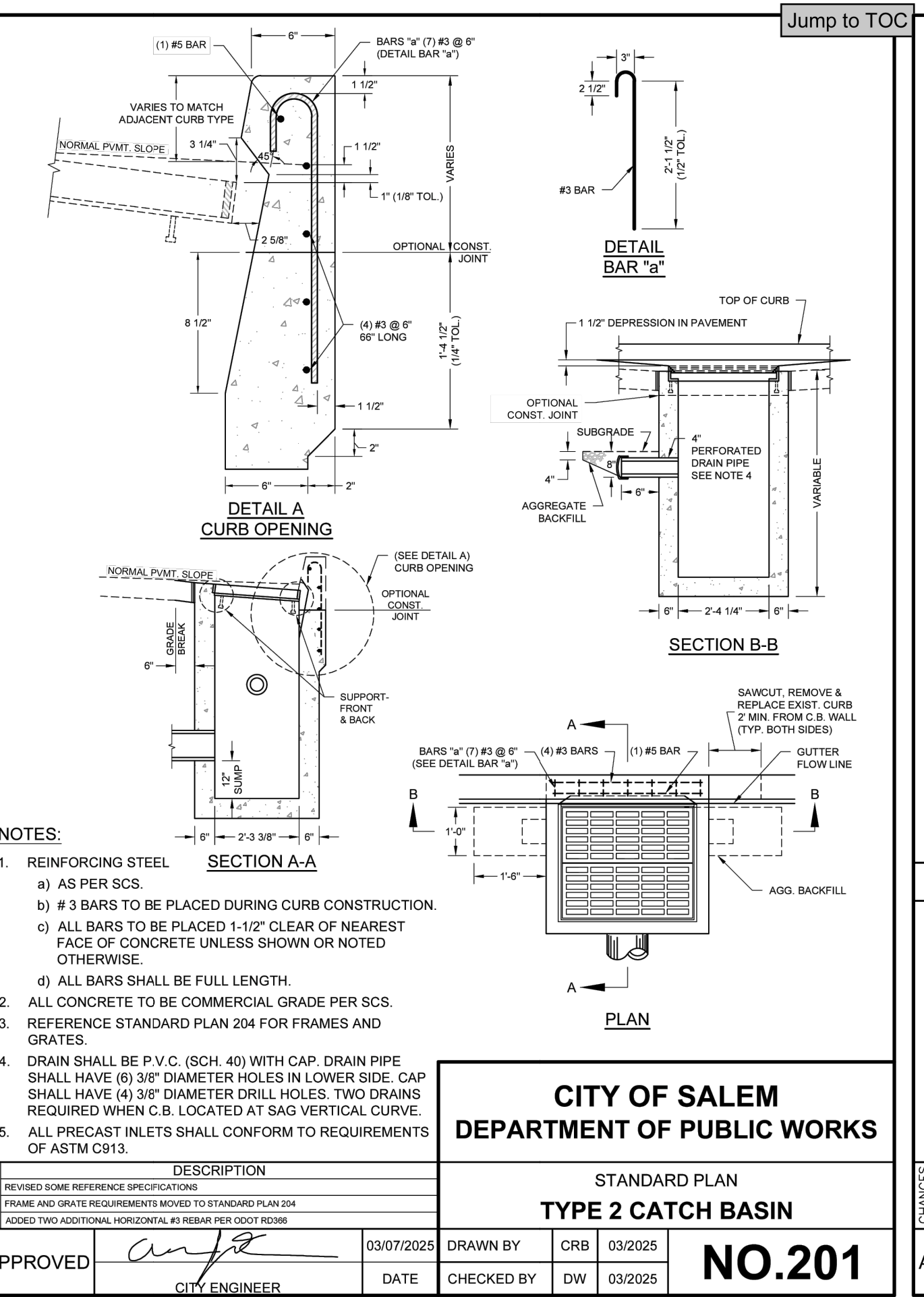
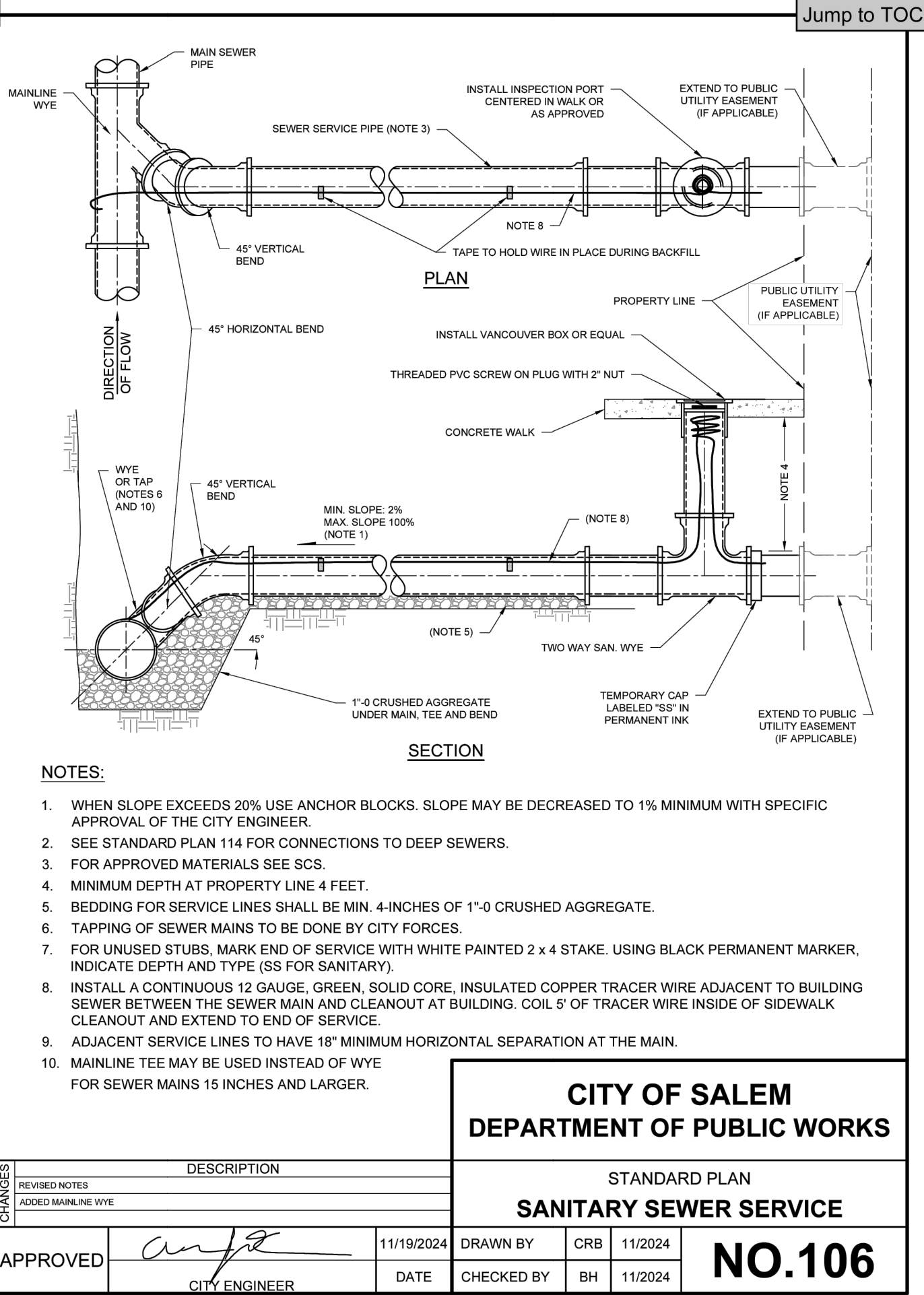
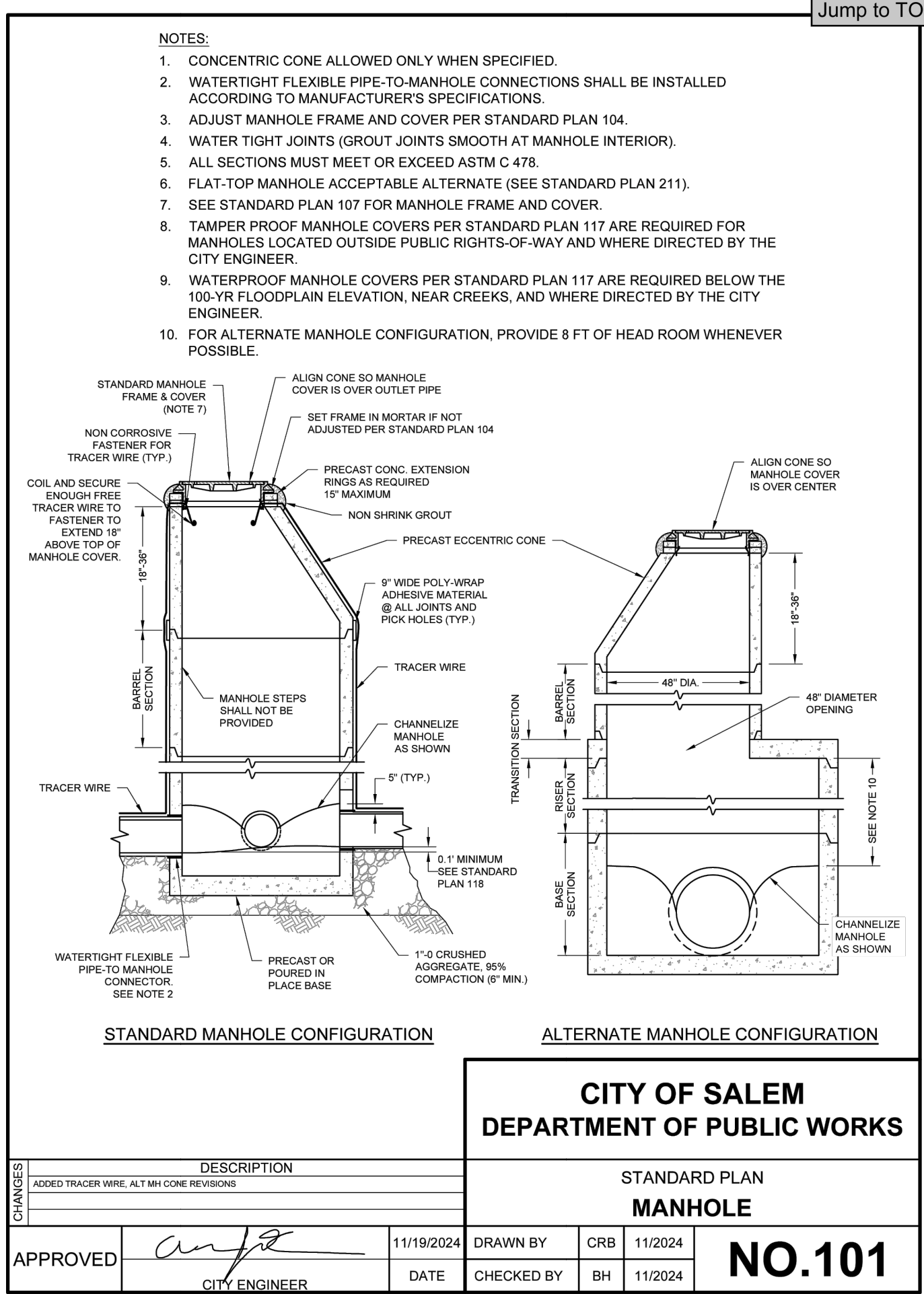
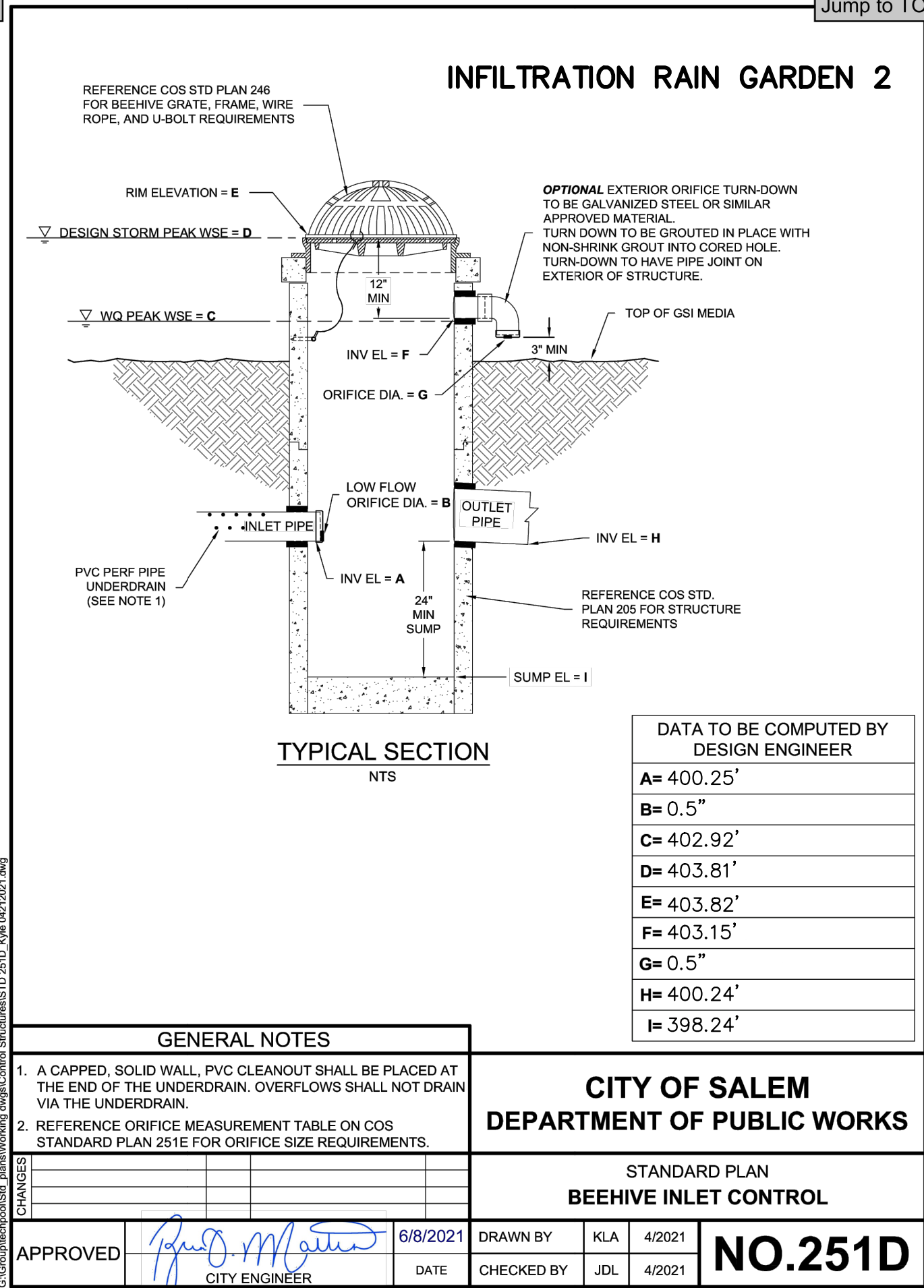
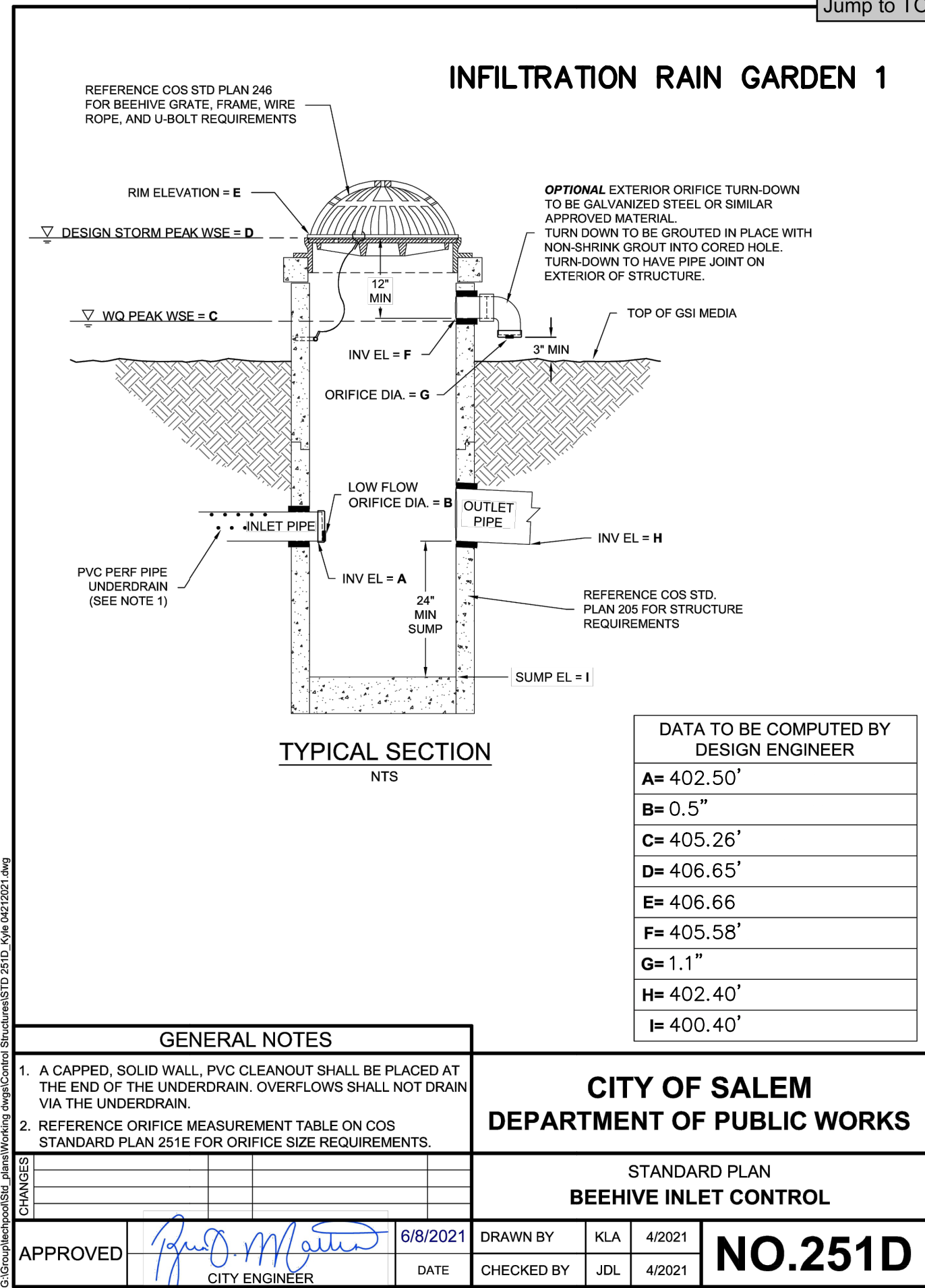
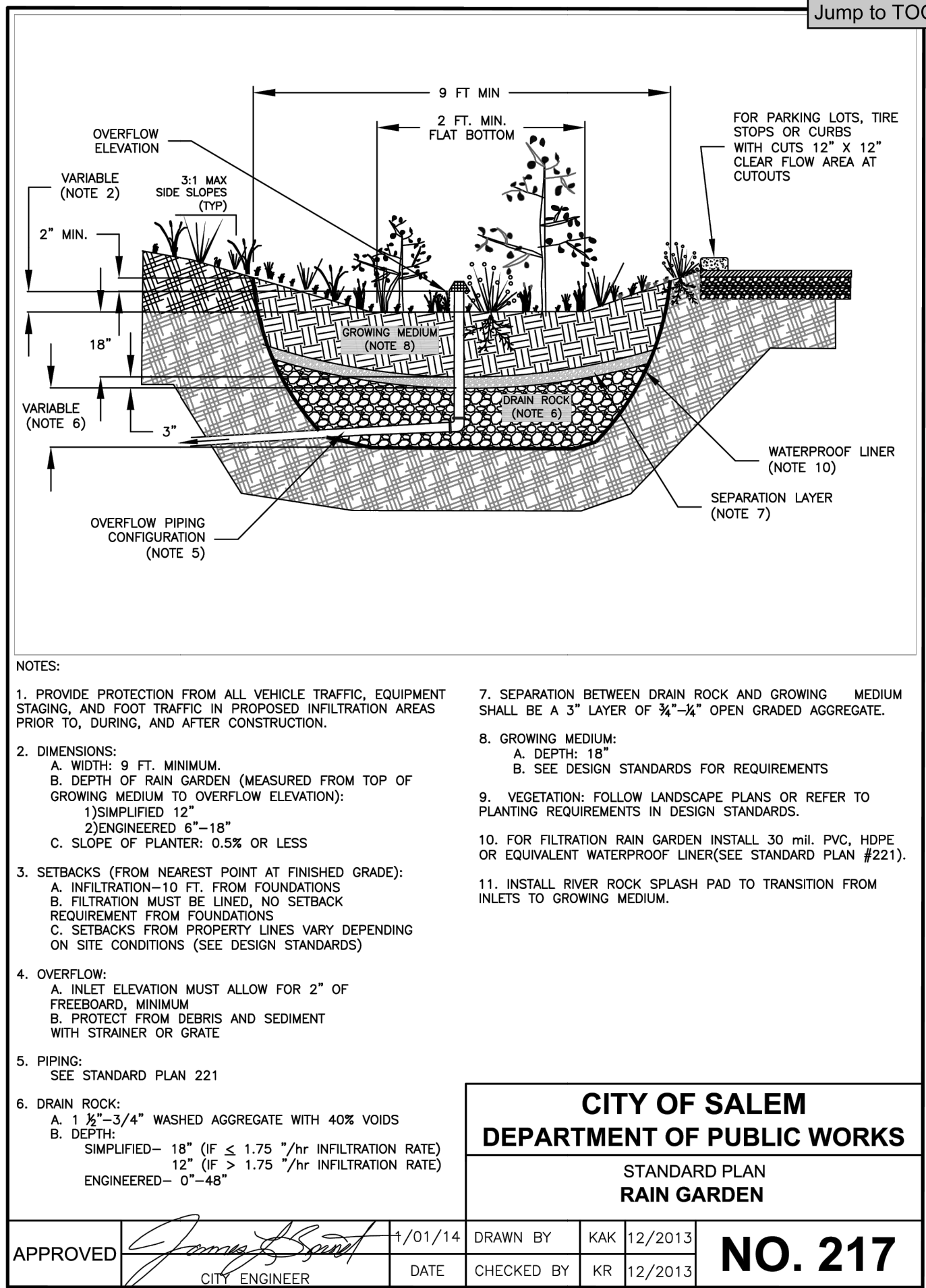
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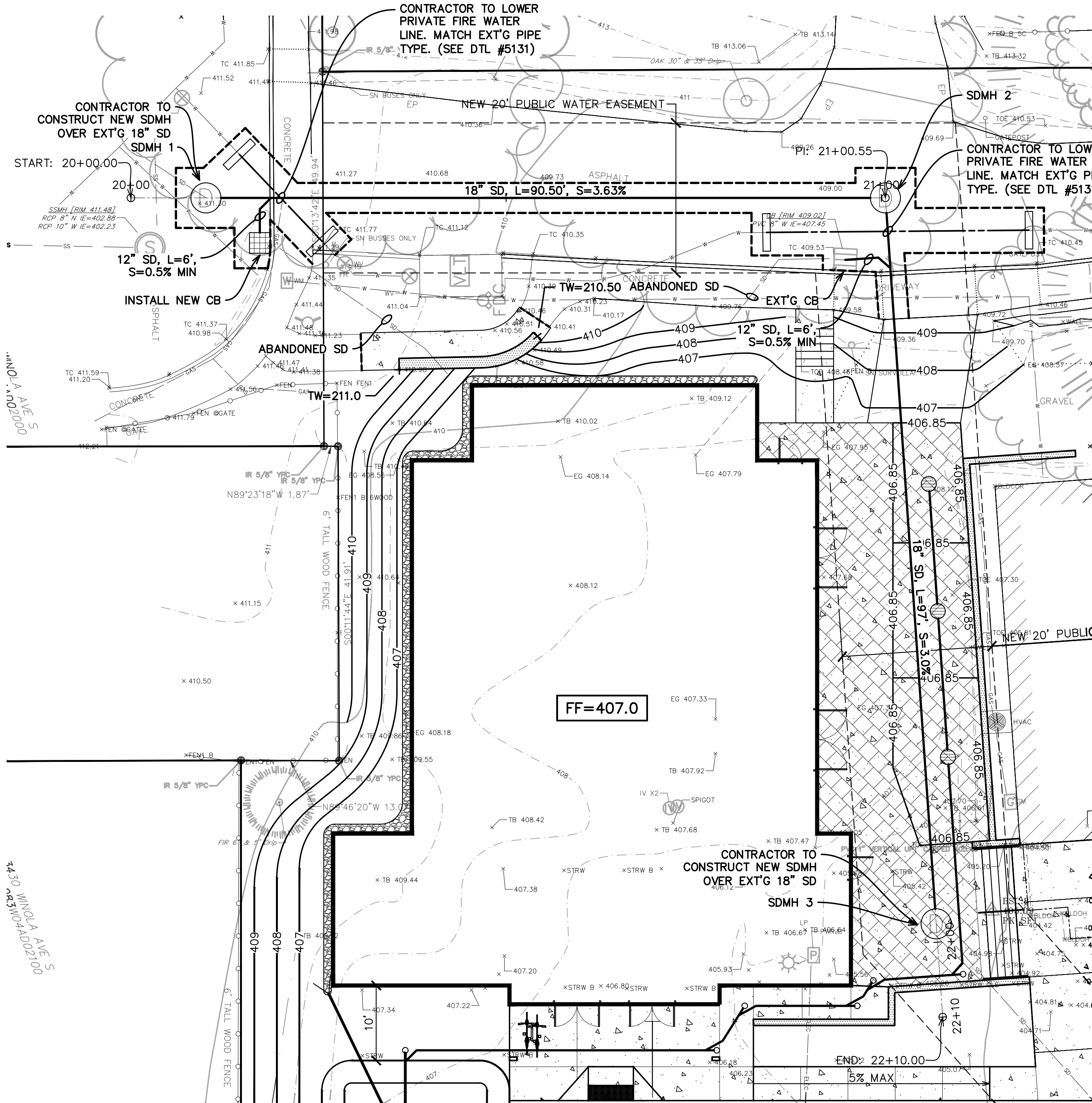
CONSTRUCTION DETAILS

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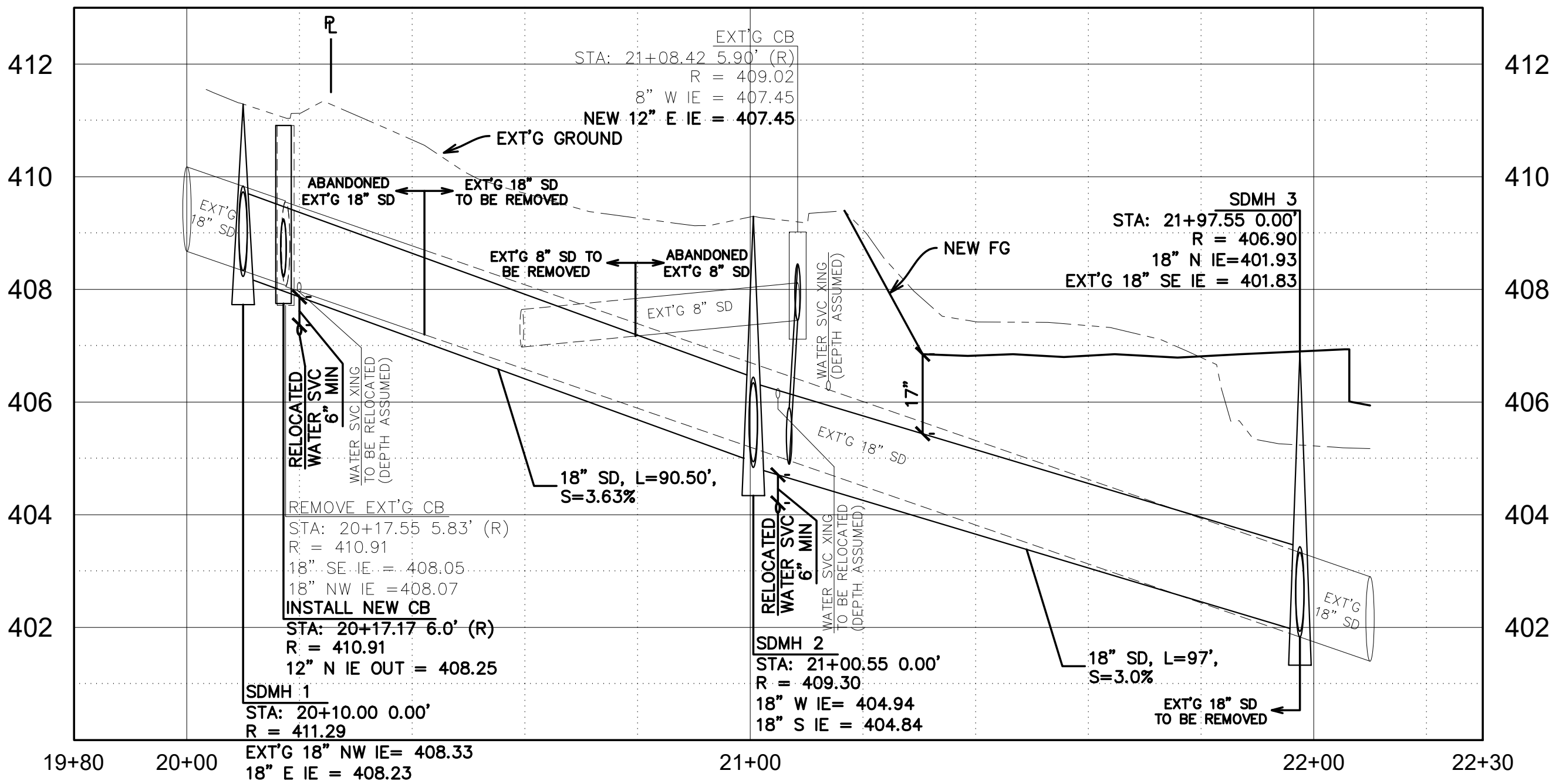
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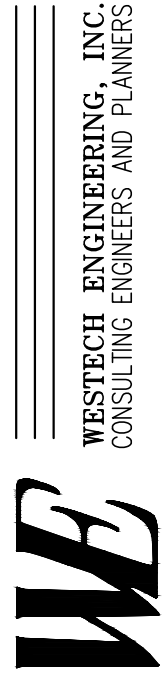


NEW STORM PLAN



NEW STORM PROFILE

SCALE: H: 1" = 20' V: 1" = 2'



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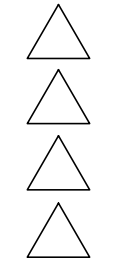
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revisions:



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NEW STORM PLAN AND
PROFILE

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