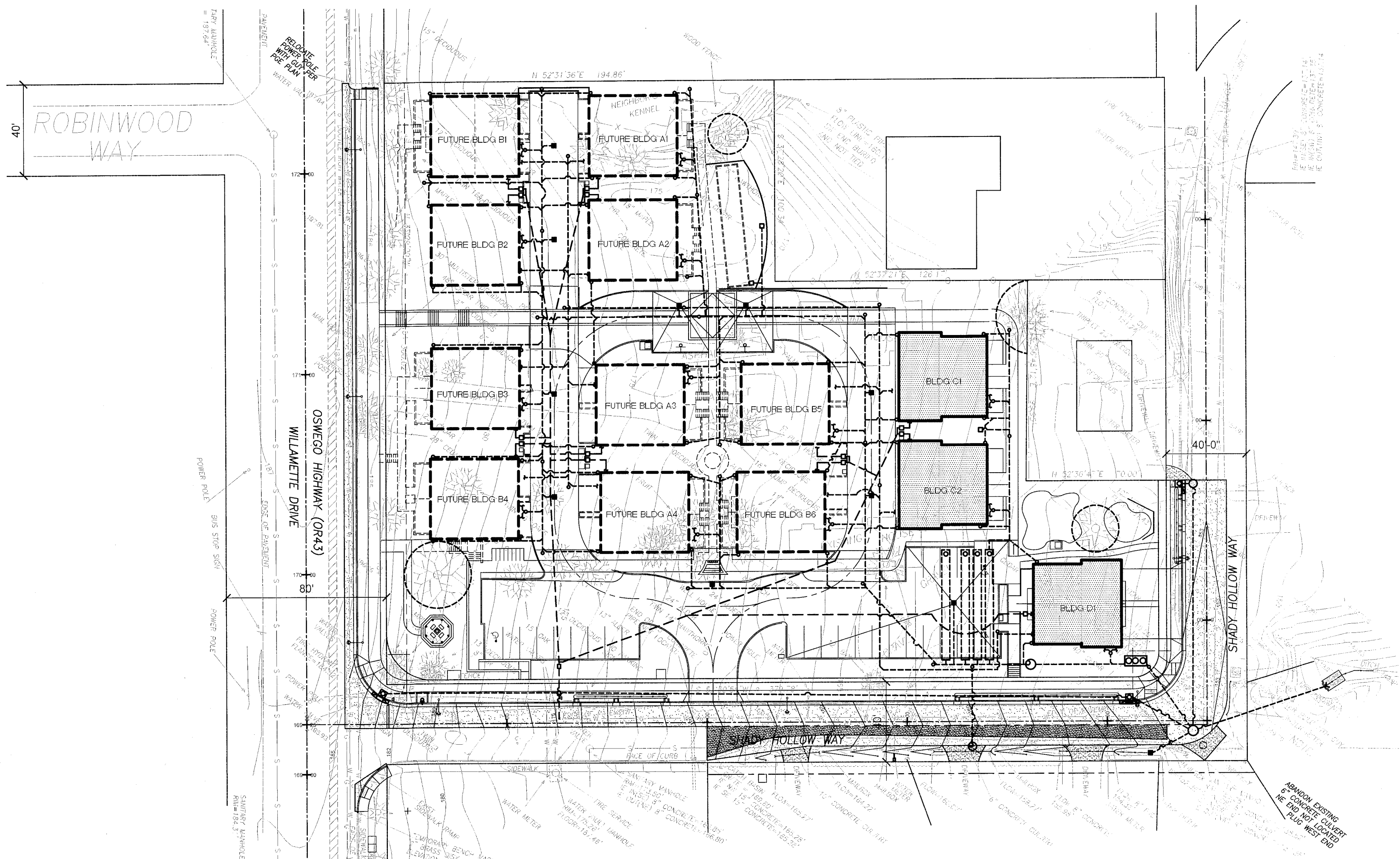
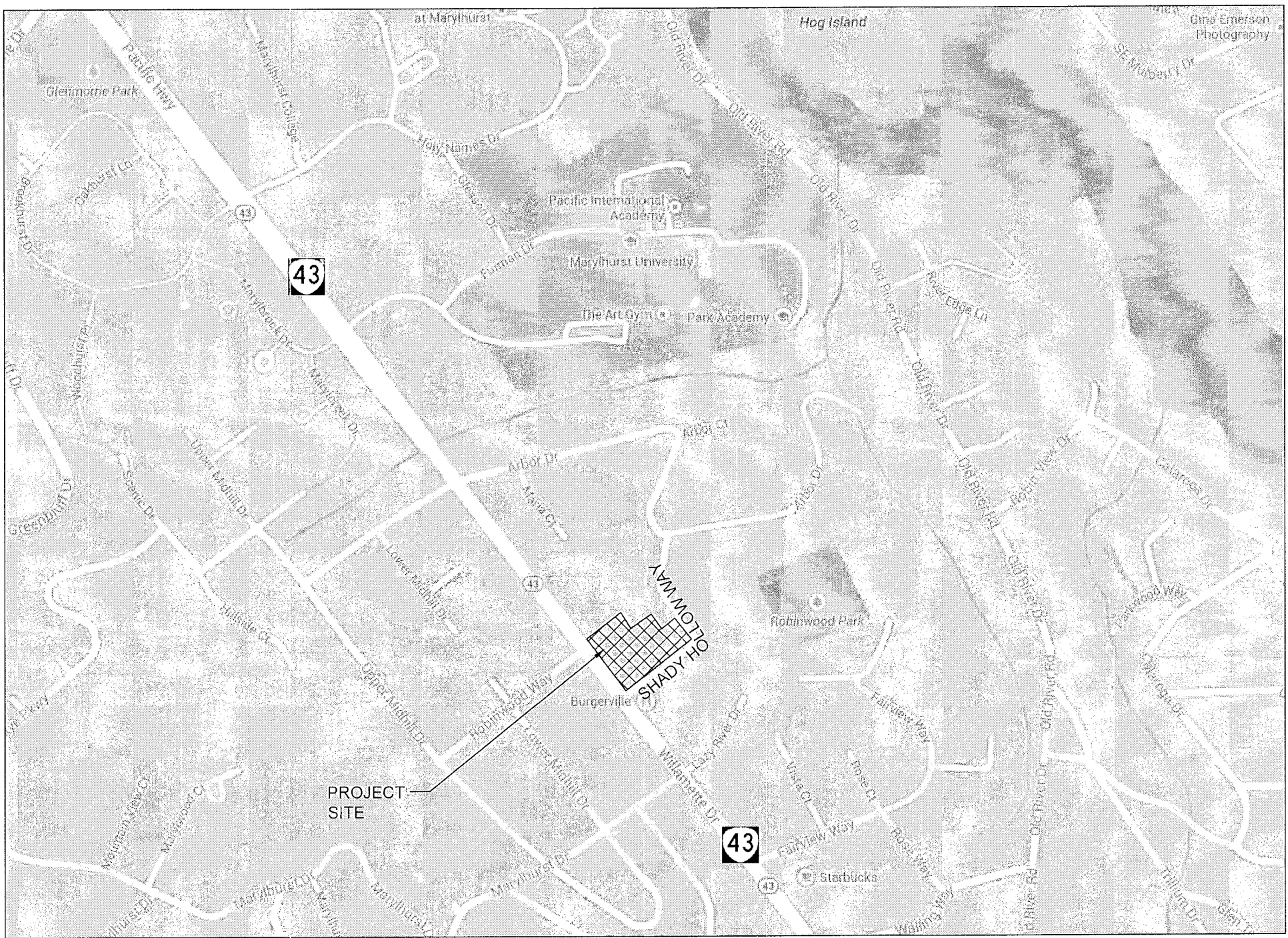


SHADY HOLLOW VILLAGE  
WILLAMETTE DRIVE (OR43) AND SHADY HOLLOW WAY PUBLIC IMPROVEMENTS

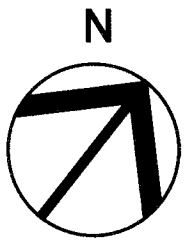
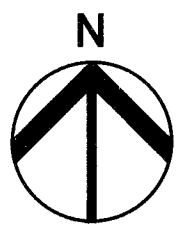
TAX LOT 45, 46 & 47, LOCATED IN THE SE 1/4 OF  
SECTION 14, T.2S, R.1E., WILLAMETTE MERIDIAN,  
CITY OF WEST LINN, CLACKAMAS COUNTY, STATE OF OREGON



OVERALL SITE PLAN  
SCALE: 1" = 40'



VICINITY MAP - CITY OF WEST LINN  
SCALE: N.T.S.

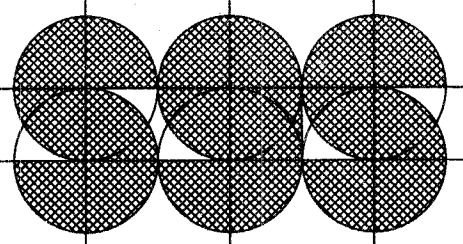


LEGEND:

- FOUND MONUMENT AS NOTED
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- IRRIGATION CONTROL BOX
- SANITARY SEWER MANHOLE
- STORM MANHOLE
- CATCH BASIN
- AREA DRAIN
- CLEANOUT
- GAS VALVE
- GAS METER
- UTILITY POLE
- ELECTRIC METER
- GUY ANCHOR
- LIGHT POLE
- TELEPHONE PEDISTAL
- TRAFFIC SIGN
- MAIL BOX
- WATER LINE
- NATURAL GAS LINE
- SANITARY SEWER LINE
- STORM DRAINAGE LINE
- OVERHEAD UTILITY LINES
- UNDERGROUND TELECOM. LINE
- X0.00RND SPOT ELEVATION GROUND
- X0.00EC SPOT ELEVATION EDGE OF CONCRETE
- X0.00EP SPOT ELEVATION EDGE OF PAVEMENT
- X0.00AC SPOT ELEVATION TOP OF ASPHALT
- X0.00FFE SPOT ELEVATION FINISHED FLOOR
- X0.00TC SPOT ELEVATION TOP OF CURB

STATIONING ALONG  
OR43 IS BASED OFF  
OF RIGHT OF WAY  
MAP NO. 4B-5-1

Sheet No.	INDEX OF CS SHEETS
CS1.0	PUBLIC IMPROVEMENTS COVER SHEET
CS1.1	PUBLIC IMPROVEMENTS STANDARD NOTES
CS2.0A	OSWEGO HIGHWAY (OR43) (WILLAMETTE DRIVE) IMPROVEMENTS
CS2.0B	OSWEGO HIGHWAY (OR43) (WILLAMETTE DRIVE) STRIPING PLAN
CS2.0C	ODOT STADARD DRAWINGS
CS2.0D	ODOT STADARD DRAWINGS
CS2.0E	ODOT STADARD DRAWINGS
CS2.0F	ODOT STADARD DRAWINGS
CS2.0G	ODOT STADARD DRAWINGS
CS2.1	SHADY HOLLOW WAY PLAN & PROFILE
CS2.2	SHADY HOLLOW WAY PLAN & PROFILE
CS3.0	WDY SECTION DETAILS
CS3.1	PUBLIC IMPROVEMENT DETAILS
CS3.2	PUBLIC IMPROVEMENT DETAILS
CS3.3	PUBLIC IMPROVEMENT DETAILS



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THESE RECORD DOCUMENTS  
HAVE BEEN PREPARED BASED  
ON INFORMATION COLLECTED IN  
THE FIELD BY WDY AND ALSO  
INFORMATION PROVIDED BY THE  
GENERAL CONTRACTOR. WDY  
HAS NOT VERIFIED THE  
ACCURACY AND/OR  
COMPLETENESS OF ALL  
INFORMATION PROVIDED BY THE  
GENERAL CONTRACTOR AND  
SHALL NOT BE RESPONSIBLE  
FOR ERRORS OR OMISSIONS  
WHICH MAY BE INCORPORATED  
HEREIN AS A RESULT.

SHADY HOLLOW VILLAGE  
SHADY HOLLOW AND WILLAMETTE DRIVE  
WEST LINN, OREGON

PROJECT  
NUMBER: 1335

DRAWING	DATE	BY
DESIGN	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	12 MAR 2014	SGS
PERMIT	22 AUG 2014	SGS
PLAN CHECKS	21 OCT 2014	CGP
	06 JAN 2015	CGP
	23 JAN 2015	CGP
	25 FEB 2015	CGP
	16 MAR 2015	CGP

SHEET TITLE  
COVER SHEET

SHEET #  
CS1.0

AS-BUILT DEC 16, 2015



GENERAL

1. ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND PROVISIONS OF THE CITY OF WEST LINN MINIMUM DESIGN STANDARDS FOR EXTENSIONS AND IMPROVEMENTS TO THE PUBLIC WATER AND SANITARY SEWER SYSTEM. IMPROVEMENTS DEPICTED ON THESE PLANS FORM THE INTENT OF COMPLYING WITH PUBLIC STREET AND PUBLIC STORM IMPROVEMENTS AS REQUIRED BY CITY OF WEST LINN. SEE SHEET SD4.0 FOR ADDITIONAL APPLICABLE CONSTRUCTION NOTES.
2. THE CONTRACT DOCUMENTS, WHICH INCLUDE THE CITY OF WEST LINN STANDARDS, DRAWINGS, AND ANY OTHER PERTINENT SPECIFICATIONS, PERMITS, REGULATIONS AND REQUIREMENTS UNIQUE TO THE PROJECT, WILL GOVERN THE WORK TO BE DONE. WHEN A PARTICULAR SPECIFICATION, REGULATION, OR REQUIREMENT IS REFERRED TO IN THE CONTRACT DOCUMENTS, SUCH REFERENCE SHALL BE TO CURRENT REVISIONS OR AMENDMENTS. ITEMS MENTIONED IN THE CONTRACT DOCUMENTS AND NOT SHOWN ON THE DRAWINGS OR STANDARD DETAILS SHALL BE OF LIKE EFFECT AS THOUGH SHOWN OR MENTIONED IN BOTH. SPECIFICATIONS AND DRAWINGS REFERRED TO IN ANY OF THE CONTRACT DOCUMENTS SHALL BE CONSIDERED AS BEING INCLUDED IN THE DOCUMENT IN WHICH SUCH REFERENCE IS MADE.
3. IN ORDER TO PROTECT UNDERGROUND FACILITIES, EXCAVATORS PERFORMING THE WORK SET FORTH ON THESE PLANS MUST COMPLY WITH THE PROVISIONS OF OREGON STATE LAW (REQUIRES CONTRACTOR TO NOTIFY UTILITIES AT LEAST 48 HOURS, BUT NO MORE THAN 10 BUSINESS DAYS, PRIOR TO ANY EXCAVATIONS.) THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS IS APPROXIMATE AND SHOWN FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST.
5. VERTICAL DATUM: REFER TO TOPOGRAPHIC SURVEY.
6. TOPOGRAPHIC SURVEY BY: TOWNSHIP SURVEYING, INC., OREGON CITY, OR.
7. THE CONTRACTOR SHALL CONTROL TRAFFIC THROUGH THE PROJECT SITE IN CONFORMANCE WITH THE LATEST EDITION OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "OREGON SUPPLEMENTS". THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN LOCAL ACCESS FOR HOMEOWNERS AND BUSINESSES ALONG THE PROJECT SITE. ROAD CLOSURES ARE NOT ALLOWED.
8. PRIOR TO ANY STREET WORK, THE CONTRACTOR MUST SUBMIT A TRAFFIC PLAN TO THE CITY TO REVIEW AND APPROVE. NO STREET WORK AFFECTING LANES OF TRAFFIC SHALL BEGIN PRIOR TO SUCH APPROVAL.
9. THE CONTRACTOR AND/OR SUB-CONTRACTOR SHALL HAVE A MINIMUM OF TWO (2) SETS OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE AT ALL TIMES DURING THE CONSTRUCTION PHASES. ONE SET SHALL BE DEDICATED TO RECORDING "AS-BUILT" CONDITIONS. THE AS-BUILT MARKED SET SHALL BE RETURNED TO THE ENGINEER.
10. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL EARTHWORK, TRENCH BACKFILL AND ROAD CONSTRUCTION COMPACTION TESTS AND GEOTECHNICAL REVIEWS WITH THE PROJECT GEOTECHNICAL ENGINEERING OFFICE AS REQUIRED FOR ACCEPTANCE OF PROJECT WORK BY CITY OF WEST LINN AND AS REQUIRED BY THESE PLANS.
11. CONTRACTOR SHALL CAREFULLY MAINTAIN BENCHMARKS, PROPERTY CORNERS, MONUMENTS, AND OTHER REFERENCE POINTS. IF SUCH POINTS ARE DISTURBED OR DESTROYED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PAY FOR THEIR REPLACEMENT BY EMPLOYING THE PROJECT'S PROFESSIONAL LAND SURVEYOR TO RESET PROPERTY CORNERS AND OTHER SUCH MONUMENTS.
12. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL PRESENT A LIST AT THE PRECONSTRUCTION MEETING OF SUBCONTRACTORS, A PROJECT SCHEDULE, A TRAFFIC CONTROL PLAN AND A 24 HOUR PHONE NUMBER FOR CONTRACTOR CONTACT FOR EMERGENCIES.
13. FINAL CLEANUP – PRIOR TO FINAL ACCEPTANCE AND PAYMENT, THE CONTRACTOR SHALL CLEAN THE WORK SITE AND ADJACENT AREAS OF ANY DEBRIS, DISCARDED ASPHALTIC CONCRETE MATERIAL OR OTHER ITEMS DEPOSITED BY THE CONTRACTOR'S PERSONNEL DURING THE PERFORMANCE OF THIS WORK. THE CONTRACTOR SHALL, AS A MINIMUM, COORDINATE THE PROPOSED CONSTRUCTION ACTIVITIES WITH THE OWNER, NEIGHBORS AND THE LOCAL PUBLIC AGENCIES, UTILITIES AND COMPANIES DURING CONSTRUCTION TO AVOID DAMAGE AND TO PREVENT THE INTERRUPTION OF SERVICES AND UTILITIES TO RESIDENTS AND BUSINESSES.
15. THE CONTRACTOR SHALL PROVIDE SUBMITTALS OF ALL MATERIALS AND ACCESSORIES TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO SITE DELIVERY.
16. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON DRAWINGS AND IN FIELD. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
17. EXISTING UTILITIES AND SITE INFORMATION SHOWN HEREON ARE BASED ON RECORD DRAWINGS PROVIDED BY OR MADE AVAILABLE BY THE OWNER. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY THE LOCATION OF EXISTING FEATURES AND UTILITIES PRIOR TO CONSTRUCTION, AND SHALL ARRANGE FOR THE RELOCATION OF ANY IN CONFLICT WITH THE PROPOSED WORK. MINOR ADJUSTMENTS BASED ON FIELD CONDITIONS SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
17. ALL CONSTRUCTION ACTIVITY SHALL BE DONE IN A SAFE AND NEAT MANNER AND UNDER OBSERVATION BY CITY FORCES.
18. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL CONSTRUCTION SAFETY, HEALTH AND OTHER RULES AND REGULATIONS OF STATE AND LOCAL REGULATING AGENCIES FOR SAFETY AND INSTALLATION OF THE WORK INCLUDING BUT NOT LIMITED TO SHORING, BRACING, ERECTION / INSTALLATION, FALL PROTECTION, GUARDRAILS, ETC.
19. ALL TRENCH EXCAVATIONS SHALL BE PROPERLY SHORED AND BRACED TO PREVENT CAVING. UNUSUALLY DEEP EXCAVATIONS MAY REQUIRE EXTRA SHORING AND BRACING. ALL SHEETING, SHORING, AND BRACING OF TRENCHES SHALL CONFORM TO OREGON STATE REGULATIONS AND CITY OF THE DALLES CONSTRUCTION STANDARDS.
20. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, RETAINING WALLS, OR PAVEMENT.
21. CONTRACTOR TO REMOVE FROM SITE EXCESS SOIL OR OTHER MATERIALS NOT REUSABLE FOR THIS PROJECT, AND COMPLY WITH ALL RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT.
22. APPROPRIATE BENCHING OF FILLS IS REQUIRED FOR FILLS OVER 5 FEET IN HEIGHT ON SLOPES IN EXCESS OF 5 HORIZONTAL TO 1 VERTICAL. THE CONTRACTOR SHALL ARRANGE FOR THE GEOTECHNICAL ENGINEER TO INSPECT EXCAVATED BENCHES PRIOR TO FILL PLACEMENT.
23. CUT AND FILL SLOPES SHALL BE PROTECTED FROM EROSION. SUCH CONTROL MAY CONSIST OF APPROPRIATE REVEGETATION OR OTHER ACCEPTABLE MEANS AND METHODS. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTHWORK OR SITE STRIPPING.
24. CRUSHED ROCK BASE MATERIAL AND PIPE ZONE MATERIAL SHALL BE CRUSHED ROCK CONFORMING TO OREGON DEPARTMENT OF TRANSPORTATION AND BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D1557.

25. 3/4 " - 0" CRUSHED ROCK PIPE ZONE AND BACKFILL MATERIAL IS REQUIRED FOR ALL UTILITY LINES, CONDUITS AND LEVELING COURSES BELOW PAVEMENTS AND IN RIGHT-OF-WAYS. REFER TO THE TYPICAL TRENCH AND PAVEMENT DETAILS.
26. ASPHALTIC CONCRETE (A.C.) PAVEMENT SHALL BE A 12.5MM DENSE GRADED HOT MIX WITH A 5.8% MINIMUM ASPHALT CONTENT PER OREGON DOT CLASSIFICATION FOR ALL LIFTS. PAVEMENT SHALL BE PLACED ONLY ON DRY, CLEAN AND PROPERLY PREPARED SURFACES, AND WHEN CONDITIONS MEET THE SPECIFICATIONS AS SET FORTH IN THE MOST RECENT EDITION OF THE OREGON DOT SPECIFICATIONS. ALL NEW PAVEMENT AREAS SHALL CONFORM TO THE TYPICAL PAVEMENT SECTION DETAIL. ALL A.C. PAVEMENT TO BE COMPACTED TO 92% OF MAXIMUM DENSITY PER ASTM D2041 FOR SINGLE AND FIRST LIFTS AND 92% COMPACTION SHALL BE REQUIRED FOR SUBSEQUENT LIFTS.
27. ALL JOINTS BETWEEN A.C. AND CONCRETE STRUCTURES MUST BE TACKED WITH BITUMASTIC. NO EXCEPTIONS ALLOWED.
28. ALL PORTLAND CEMENT CONCRETE PAVEMENT SHALL HAVE A 28 DAY MINIMUM ULTIMATE STRENGTH OF 4000 PSI. PROVIDE A MINIMUM OF (4) TEST CYLINDERS IN ACCORDANCE WITH CURRENT IBC AT EACH POUR.
- A. MINIMUM MIX REQUIREMENTS:
- I. CEMENT CONTENT PER YARD: 5 SACKS.
- II. MAXIMUM WATER/CEMENT RATIO: 0.45. FLY ASH MEETING ASTM C618 AND WITH LOSS ON IGNITION LESS THAN 3% MAY BE ADDED TO THE CEMENT, BUT NOT MORE THAN 15% BY WEIGHT.
- III. SLUMP: 3 INCH TO 4 INCH. DEVIATING FROM DESIGN SLUMP +1/2 INCH TO -1 INCH. WHEN CONCRETE IS TO BE PUMPED, ADD PLASTICIZERS MEETING ASTM C494 AND PROVIDE A NEW MIX DESIGN. DO NOT ADD WATER.
- IV. ADMIX: PROVIDE WATER REDUCING ADMIX (MASTER BUILDERS) AND REDUCE WATER USED BY 10% MINIMUM FOR ALL SLABS.
- V. AIR ENTRAINMENT: PER ACI 301 AND 308 AT ALL EXTERIOR SLABS AND FLAT WORK.
- VI. ALL ADMIXTURES TO BE COMPATIBLE FROM SAME MANUFACTURER.
- B. PLACE AND CURE ALL CONCRETE PER ACI CODES AND STANDARDS

02.0 CLEARING AND GRUBBING

1. ALL CONSTRUCTION AND MATERIALS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THESE PLANS AND THE APPLICABLE REQUIREMENTS OF CITY OF WEST LINN, STATE OF OREGON.
2. NOTIFY ARCHITECT 2 BUSINESS DAYS BEFORE COMMENCING WORK.
3. CONTRACTOR SHALL REMOVE ALL TREES, SHRUBS, RUBBISH, AND MAN-MADE STRUCTURES INCLUDING BUT NOT LIMITED TO CONCRETE SLABS, WALLS, VAULTS, FOOTINGS, ASPHALTIC PAVED SURFACES, GRAVELED AREAS, SHED OR OTHER FREE-STANDING BUILDINGS (CONSTRUCTED OF WOOD, CONCRETE, METAL, ETC.). FOUNDATIONS, FENCES, RAILINGS, MACHINERY, ETC. WITHIN THE CLEARING LIMITS. THE ITEMS LISTED ABOVE SHALL BE DISPOSED OF OFF-SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE NUMBER AND TYPE OF STRUCTURES TO BE REMOVED. CONTRACTOR SHALL OBTAIN ALL NECESSARY DEMOLITION AND WORK PERMITS.
4. ALL BURIED STRUCTURES (I.E. TANKS, LEACH LINES, DRAIN TILE, AND PIPES) NOT DESIGNATED TO REMAIN ON THE SITE, SHALL BE REMOVED AND THE RESULTING EXCAVATIONS SHALL BE PROPERLY INSPECTED, BACKFILLED AND COMPACTED PRIOR TO ANY GRADING OR FILLING OPERATIONS. THIS IS TO INCLUDE STUMPS AND ROOTBALLS OF TREES TO BE REMOVED FROM THE SITE. NOTIFY CITY FOR INSPECTIONS AS REQUIRED.
5. THE AREA OF THE SITE DESIGNATED ON THE PLAN TO BE REGRADED OR PAVED SHALL BE STRIPPED TO REMOVE ALL ORGANIC MATERIAL DOWN TO FIRM SUBGRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING SUBGRADE SOILS FROM OVERWORKING AND PROVIDE REPAIR TO DAMAGED SUBGRADE AT NO ADDITIONAL COST TO THE OWNER.
6. ALL UNSUITABLE MATERIAL (SOIL AND VEGETATION) REMOVED DURING THE CLEARING AND GRUBBING OPERATIONS SHALL BE REMOVED BY THE CONTRACTOR AND LEGALLY DISPOSED OF IN A SUITABLE LOCATION OFFSITE.
7. EXCAVATORS MUST COMPLY WITH ALL PROVISIONS OF ORS 757.541 TO 757.571 INCLUDING NOTIFICATION OF ALL OWNERS OF UNDERGROUND FACILITIES AT USA LOCATES (681-7044), AT LEAST 48 BUSINESS HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS BEFORE COMMENCING AN EXCAVATION.
8. ALL EMBANKMENTS REQUIRED SHALL BE STRUCTURAL FILL MEETING THE REQUIREMENTS AND SPECIFICATIONS OF IBC CHAPTER 18.
9. ALL EXCESS MATERIAL NOT UTILIZED ON-SITE SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
10. TREES NOT DESIGNATED TO BE REMOVED BY THE ARCHITECT SHALL BE PROTECTED AT ALL TIMES.
11. SAWCUT STRAIGHT LINES TO MATCH EXISTING PAVEMENT WITH THE NEW PAVEMENT.
12. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE TRAFFIC CONTROL ALONG THE EXISTING ROADS AS REQUIRED BY THE CITY OF WEST LINN.

PUBLIC STREET

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE CURRENT REQUIREMENTS OF CITY OF WEST LINN "CONSTRUCTION STANDARDS FOR PUBLIC WORKS FACILITIES", AND THE MOST CURRENT EDITION OF THE OREGON CHAPTER APWA SPECIFICATIONS.
2. CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF WEST LINN 24 HOURS BEFORE STARTING CONSTRUCTION OR RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS, OR HOLIDAYS. CONTRACTOR SHALL ASSIST THE ENGINEER IN PREPARING AS-BUILT DRAWINGS.
3. MARK ALL UTILITIES ON CURB WITH AN "S", "SD", AND "W" FOR SANITARY SEWER, STORM DRAIN AND WATER LATERALS.
4. CONTROL STAKES ARE REQUIRED FOR ALL CURB LINES AND STREET CENTERLINES FOR CONSTRUCTION, AND MUST BE PROVIDED BY A SURVEYOR LICENSED IN THE STATE OF OREGON.
5. SUB-BASE SHALL BE APPROVED BY THE CITY BEFORE PLACING THE BASE ROCK, BY CONDUCTING ON-SITE COMPACTION TESTS AS DEEMED NECESSARY BY THE CITY AND AS REQUIRED BY THE SPECIFICATIONS.
6. THE SUBGRADE SHALL BE APPROVED BEFORE PLACING THE ASPHALT BY CONDUCTING ON-SITE COMPACTION TESTS AS DEEMED NECESSARY BY THE CITY AND AS REQUIRED BY THE SPECIFICATIONS. ALSO, A DEFLECTION TEST(S) PERFORMED WITH A 10 YARD LOADED DUMP TRUCK WILL BE REQUIRED. THIS TEST MUST BE WITNESSED BY THE CITY AND SOILS ENGINEER. NO DEFLECTION IS ALLOWED AND ALL STREETS MUST BE TESTED.

7. COMPACTION TESTS OF AGGREGATE BASE MUST BE IN ACCORDANCE WITH ASSHTO, METHOD T-180 AND ACHIEVE A RELATIVE DENSITY OF 95%. OVER-EXCAVATION AND GEOTEXTILE FABRIC (MIRAFI 500X OR PRE-APPROVED EQUAL) WILL BE REQUIRED IF THE SUBGRADE IS SOFT OR UNSUITABLE OR NOTED ON THE PLANS.
8. ASPHALTIC CONCRETE (A.C.) PAVEMENT SHALL BE A 12.5MM DENSE GRADED MIX PER OREGON DOT CLASSIFICATION (FORMERLY CLASS C) FOR ALL LIFTS. PAVEMENT WILL BE PLACED ONLY ON DRY, CLEAN AND PROPERLY PREPARED SURFACES, AND WHEN THE CONDITIONS MEET THE SPECIFICATIONS AS SET FORTH IN THE MOST RECENT EDITION OF THE OREGON DOT SPECIFICATIONS. ALL A.C. PAVEMENT TO BE COMPACTED TO 92% OF MAXIMUM DENSITY PER ASTM D2041 FOR SINGLE AND FIRST LIFTS AND 92% FOR SUBSEQUENT LIFTS.
9. ALL JOINTS BETWEEN A.C. AND CONCRETE STRUCTURES MUST BE TACKED WITH BITUMASTIC. NO EXCEPTIONS ALLOWED.
10. ALL REQUIRED UTILITIES (SANITARY SEWER, STORM SEWER, WATER LINES, POWER, TELEPHONE, GAS, STREET LIGHTS, ETC.) SHALL BE IN-PLACE AND THEIR LOCATIONS ACCURATELY LOCATED BY THE GENERAL CONTRACTOR ON "AS-BUILT" DRAWINGS. A FINAL INSPECTION BY CITY STAFF WILL BE REQUIRED TO VERIFY UTILITY CONDITION, AND IF DEFICIENCIES ON ANY OF THEM ARE NOTED, THEY MUST BE CORRECTED PRIOR TO PAVING.
11. AT ALL SAWCUT JOINTS OF AC PAVEMENT PROVIDE A CONTINUOUS HOT ASPHALT SEAL COAT WITH FULLY SANDED FINISH.

PUBLIC STORM DRAIN

1. ALL STORM SEWER SYSTEM FITTINGS, EQUIPMENT AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF WEST LINN ENGINEERING DEPARTMENT.
2. PVC STORM DRAIN PIPE SHALL BE ASTM D3034, SDR-35. COMPATIBLE ASTM D3034 FITTINGS MUST BE USED WITH ASTM D3034 PIPE. ALL ASTM D3034 PIPE USED MUST BE OF WATER-TIGHT JOINTS TESTED FOR ROUNDNESS AFTER BACKFILL. PROVIDE PRESSURE TEST, MANDREL TEST AND TV VIDEO TAPE.
3. DUCTILE IRON STORM DRAIN PIPE SHALL BE IN ACCORDANCE WITH AWWA C151, CLASS 52, ASTM 536, AND AWWA C104. JOINTS SHALL BE BELL AND SPIGOT WITH RUBBER GASKETS PER AWWA C111.
4. STORM DRAIN LINES SHALL BE LAID IN A STRAIGHT ALIGNMENT AND UNIFORM GRADE BETWEEN MANHOLES OR OTHER JUNCTION STRUCTURES. CONTROL STAKES ARE REQUIRED FOR LOCATING NEW STORM DRAIN PIPE AND MUST BE PROVIDED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN OREGON.
5. ALL NEW STORM SEWER PIPES AND MANHOLES MUST BE THOROUGHLY CLEANED AND PRESSURE TESTED AS REQUIRED BY THE CITY. ALL TESTS MUST BE WITNESSED AND PASSED BY THE CITY PRIOR TO PLACING INTO OPERATION.
6. ALL CONNECTIONS TO EXISTING STORM SEWER MAINS REQUIRE ISSUANCE OF A PUBLIC WORKS PERMIT AND INSPECTION BY THE CITY PRIOR TO BACKFILLING.
7. ALL OTHER CONSTRUCTION PRACTICES (RELATING TO STORM SEWER) WITHIN THE CITY'S PUBLIC RIGHT-OF-WAY, NOT COVERED IN THESE "GENERAL REQUIREMENTS" AND/OR "CONSTRUCTION DETAILS" SECTIONS, MUST COMPLY WITH THE RULES AND REGULATIONS FOUND IN THE MOST RECENT EDITION(S) OF THE CITY OF WEST LINN CONSTRUCTION STANDARDS.

EARTHWORK SPILLAGE AND DUST CONTROL

1. AVOID SOILS SPILLAGE AND CREATION OF DUST NUISANCE BY COVERING AND SECURING LOADS WHEN HAULING ON OR ADJACENT TO PUBLIC STREETS OR HIGHWAYS.
2. TAKE PRECAUTIONS NECESSARY TO PREVENT EROSION AND TRANSPORTATION OF SOILS DOWNSTREAM.
3. REMOVE SPILLAGE OR DUST AND SWEEP, WASH, OR OTHERWISE CLEAN PROJECT, ADJACENT PROPERTIES, STREETS, HIGHWAYS, AND DOWNSTREAM DRAINAGE SYSTEMS.

CONSTRUCTION INSPECTIONS AND MEETINGS

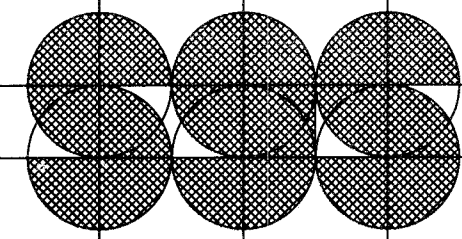
1. THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH CITY PERSONEL, ALL SUBCONTRACTORS, PROJECT ARCHITECT, OWNER'S REPRESENTATIVE, PROJECT GEOTECHNICAL ENGINEER AND PROJECT CIVIL ENGINEER PRIOR TO BEGINNING PUBLIC IMPROVEMENT WORK.
2. THE CITY SHALL BE NOTIFIED TO INSPECT ALL PUBLIC IMPROVEMENTS.
3. THE CITY'S REPRESENTATIVES SHALL BE ALLOWED ACCESS TO ALL PARTS OF THE WORK, INCLUDING THE PLANS OF PRODUCERS AND FABRICATORS AT ALL TIMES; AND SHALL BE FURNISHED WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER OR NOT THE WORK, AS PERFORMED, IS IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL FURNISH, AT THE CONTRACTOR'S OWN EXPENSE, SUCH SAMPLES AS ARE CUSTOMARILY REQUIRED FOR TESTING PURPOSES. THE CITY DOES NOT FURNISH FULL-TIME INSPECTION OF NEW PUBLIC IMPROVEMENTS. FOR THIS REASON, IT IS IMPERATIVE THAT THE OWNER AND/OR THE OWNER'S CONTRACTORS PROVIDE PROMPT AND COMPLETE NOTIFICATION TO THE CITY AS TO THE PROGRESS OF THE CONSTRUCTION OF UTILITY IMPROVEMENTS. NOTIFICATION MUST BE GIVEN TO THE CITY WHEN THE FOLLOWING WORK IS TO BE SCHEDULED AND AT OTHER TIMES AS INSTRUCTED BY CITY PERSONEL:

- A. PLACEMENT OF EROSION/SEDIMENTATION CONTROLS.
- B. UNDERGROUND UTILITY TRENCHING AND CONDUIT PLACEMENT.
- C. COMPACTION TESTING/PROOF ROLL OF TRENCH BACKFILL AND FILL AREAS.
- D. ALL TESTING OF UTILITY CONDUITS AND APPURTENANCES.
- E. CONSTRUCTION OF CONCRETE STRUCTURES (CURBS, INLETS, MANHOLES, SIDEWALKS, DRIVEWAYS, ETC.).
- F. PLACEMENT AND COMPACTION OF ASPHALTIC PAVEMENT.

FAILURE TO GIVE PROPER NOTIFICATION (24 HOURS) OF WORK SCHEDULE MAY INVALIDATE THE WORK PERFORMED AND MAKE NECESSARY REMOVAL OF WORK, AND/OR TESTS AND INSPECTION REPORTS BY AN INDEPENDENT TESTING LABORATORY TO CONFIRM COMPLIANCE WITH THE CONSTRUCTION PLANS AND SPECIFICATIONS. SUCH REMOVAL OF WORK AND TESTS SHALL BE FURNISHED AT THE EXPENSE OF THE CONTRACTOR.

CIVIL ABBREVIATIONS

A. B.	ANCHOR BOLTS	HDPE	HIGH-DENSITY-POLYETHYLENE
ABBR	ABBREVIATION	HORIZ	HORIZONTAL
A. C.	ASPHALT CONCRETE	H. P.	HIGH POINT
ACCORD	ACCORDING	HT	HEIGHT
A. D.	AREA DRAIN	I. E.	INVERT ELEVATION
ADA	AMERICANS WITH DISABILITIES ACT	INFO	INFORMATION
A. F. F.	ABOVE FINISH FLOOR	INT	INTERIOR
AHD	AHEAD	I. R.	IRON ROD
ALT	ALTERNATE	JT	JOINT
APPX	APPROXIMATELY	L	LENGTH
ARCH	ARCHITECTURAL	LBS OR #	POUNDS
A. R. V.	AIR RELIEF VALVE	L. F.	LINEAR FEET
B. C. R.	BEGIN CURB RETURN	LIN	LINEAR
BF	BACKFLOW	LT	LEFT
BLDG	BUILDING	M. B.	MACHINE BOLT
B. O.	BLOW-OFF	MANUF	MANUFACTURER
BOT	BOTTOM	MGR	MEMBER
B. R.	BEGIN RETURN	MAT	MATERIAL
B. S.	BACK OF SIDEWALK	MAX	MAXIMUM
BTWN	BETWEEN	MECH	MECHANICAL
BW	BACKWATER	M. J.	MECHANICAL JOINT
C. B.	CATCH BASIN	MH	MANHOLE
C. I.	CAST IRON OR CURB INLET	MIN	MINIMUM
C. J.	COLD JOINT	(N)	NEW
C. L.	CENTER LINE	N. S.	NON SHRINK
CLR	CLEAR	N. T. S.	NOT TO SCALE
CNTR	CENTER	O. C.	ON CENTER
CO	CLEANOUT	O. C. OR O. P. P.	OPPOSITE HAND
COL	COLUMN	Q. W. S.	OIL WATER SEPARATOR
CONC	CONCRETE	PL	PLATE
CONN	CONNECTION	P. L.	PROPERTY LINE
CONT	CONTINUOUS	P. C.	POINT OF CURVATURE
COP	COPPER	P. C. C.	POINT OF COUNTER CURVATURE
C. O. T. G.	CLEAN OUT TO GRADE	PERF	PERFORATED
CPLG	COUPLING	PLYWD	PLYWOOD
CULV	CULVERT	P. P.	PRIMARY POWER/POWER POLE
DBL	DOUBLE	PROP	PROPOSED
D. C.	DOUBLE CHECK	PSF	POUNDS-PER-SQUARE-FOOT
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	P. T.	POINT OF TANGENCY
DET	DETAIL	PVC	POLYVINYL-CHLORIDE
D. F.	DOUGLAS FIR	P. U. E.	PUBLIC UTILITY EASEMENT
D. I.	DUCTILE IRON OR DITCH INLET	P. W.	PUBLIC WORKS
DIA OR	DIAMETER	R. OR RAD	RADIUS
DIM	DIMENSION	R. D.	ROOF DRAIN
DITTO	DIRECTION	REINF	REINFORCEMENT/REINFORCING
DP	DEPT	REQ'D	REQUIRED
DOM	DOMESTIC	REHAB	REHABILITATION
DEEP	DEEP	REDUC	REDUCER
DRWG OR DWG	DRAWING	ROCR	RADIUS POINT
DS	DRAIN SPOUT	R. P.	RIGHT
D. W.	DRY WELL	RT	RIGHT
D/W	DRIVEWAY	R/W OR R. O. W.	SCHEDULE
EA	EACH	SED	SEDIMENTATION
E. C. R.	END CURB RETURN	SERV	SERVICE
E. G.	EXISTING GRADE	SHT	SHEET
E. J.	EXPANSION JOINT	STM	SIMILAR
EL OR ELEV	ELEVATION	SPECS	SPECIFICATIONS
ELEC	ELECTRIC	SQ	SQUARE
EMBED	EMBEDMENT	STD	STANDARD
E. O. P.	EDGE OF PAVEMENT	S. S.	SANITARY SEWER
E. O. R.	ENGINEER OF RECORD	STA	STATION
EQ	EQUAL	ST. D.	STORM DRAIN
E. R.	END RETURN	STIFF	STIFFENER
E. W.	EACH WAY	STL	STEEL
EX OR EXIST	EXISTING	STRUCT	STRUCTURAL
EXP	EXPANSION	SDWLK	SIDEWALK
EXT	EXTERIOR	T. C.	TOP OF CURB
F. C. A.	FLANGED COUPLING ADAPTER	TELEP	TELEPHONE
FD	FOUND	T. O. F.	TOP OF FOOTING
F. D. C.	FIRE DEPARTMENT CONNECTION	T. O. S.	TOP OF SLAB
FNON	FOUNDATION	T. O. W.	TOP OF WALL
F. F.	FINISH FLOOR	TYP	TYPICAL
F. G.	FINISH GRADE	U. E.	UNDERGROUND ELECTRICAL
F. H.	FIRE HYDRANT	U. O. N.	UNLESS OTHERWISE NOTED
FIN	FINISH	U. P.	UNDERGROUND POWER
F. L.	FLOW LINE	U. R. M.	UNREINFORCED MASONRY
FLG	FLANGE	U. T.	UNDERGROUND TELEPHONE
FLR	FLOOR	V. B.	VALVE BOX
F. P.	FINISH PAVEMENT	VERT	VERTICAL
F. O. C.	FACE OF CURB	VAULT	VAULT
FTG	FOOTING	W	WATER
GA	GAGE OR GAUGE	W. J.	WET JOINT
GALV	GALVANIZED	W. M.	WATER METER
G. B.	GRADE BREAK	W. Q.	WATER QUALITY
GEN	GENERAL	W. W. F.	WELDED WIRE FABRIC
GR	GROUND	W/	WITH
G. S.	GROUND SHOT	W/O	WITHOUT
G. S. P.	GALVANIZED STEEL PIPE		
G. V.	GUTTER		
GUT	GATE VALVE		



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SHADY HOLLOW VILLAGE

SHADY HOLLOW AND WILLAMETTE DRIVE  
WEST LINN, OREGON

PROJECT  
NUMBER: 1335

DRAWING	DATE	BY
DESIGN	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	12 MAR 2014	SGS
PERMIT	22 AUG 2014	SGS
PLAN CHECKS	21 OCT 2014	CGP
	06 JAN 2015	CGP
	23 JAN 2015	CGP
	25 FEB 2015	CGP
	16 MAR 2015	CGP

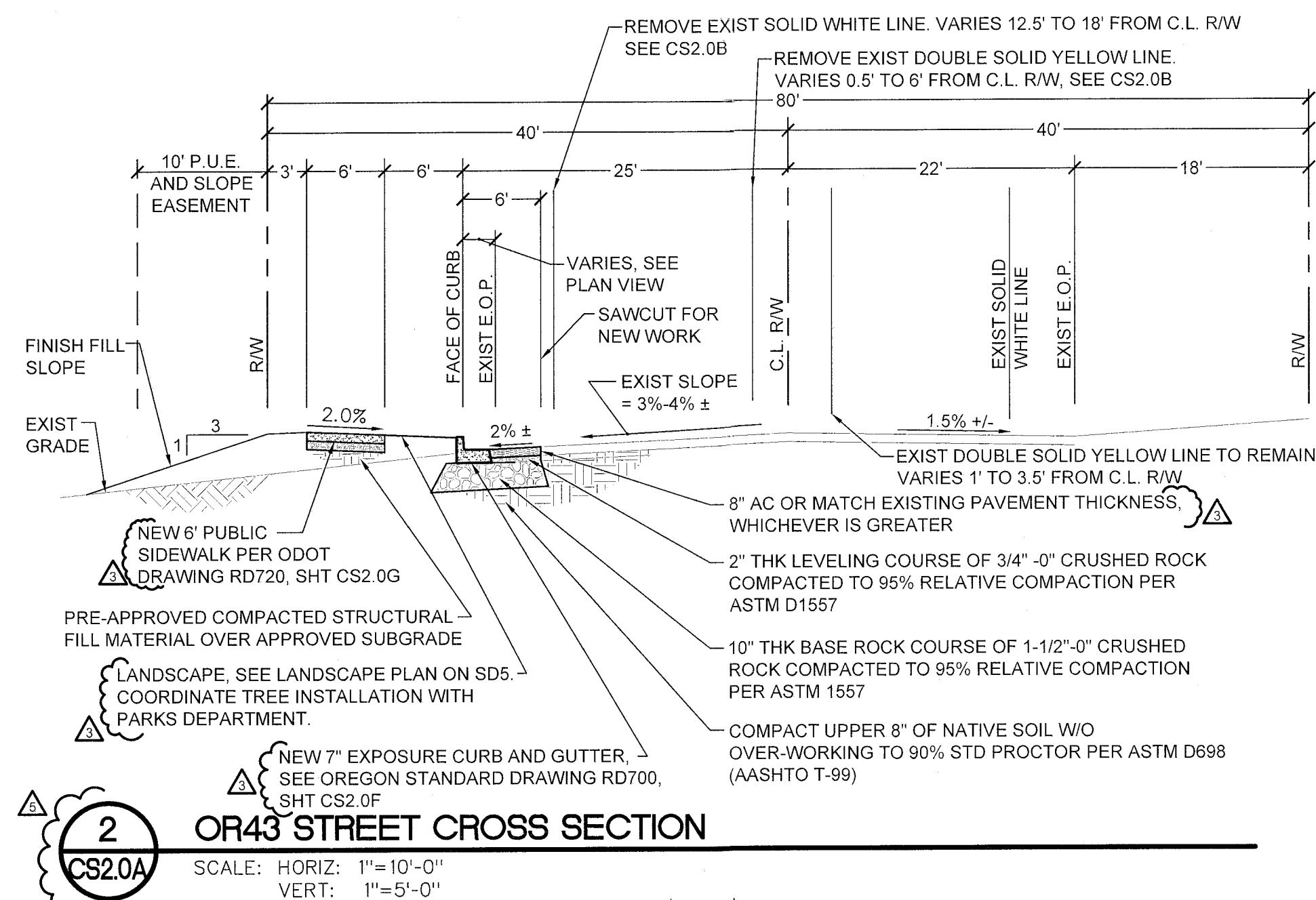
SHEET TITLE

NOTES AND  
ABBREVIATIONS

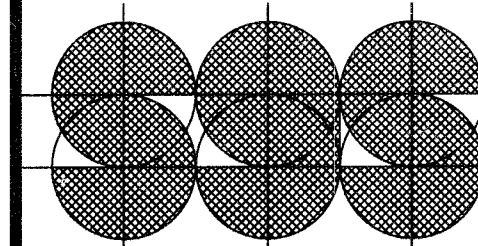
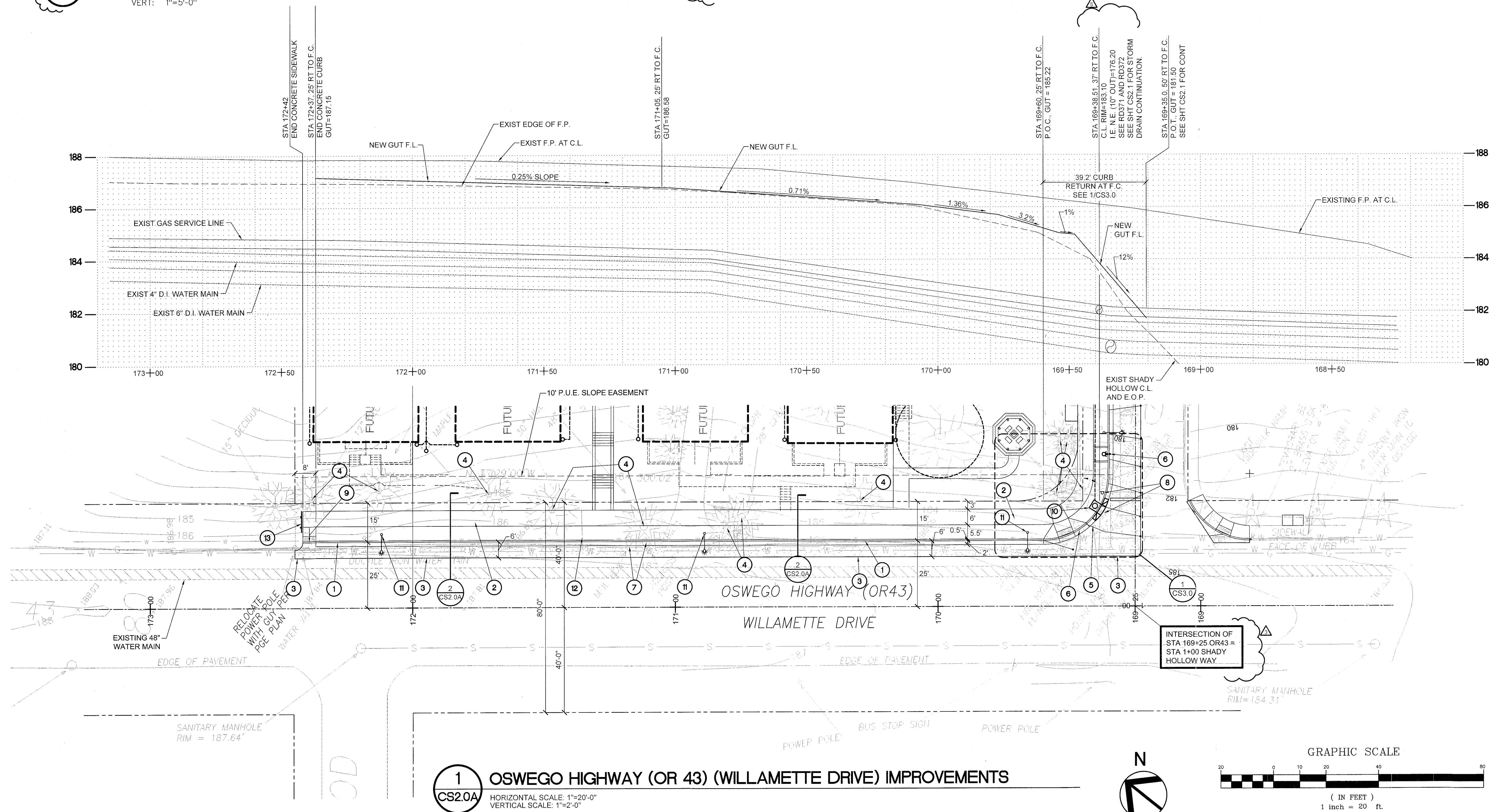
SHEET #

CS1.1





KEYNOTES FOR THIS SHEET	
MARK - DESCRIPTION	MARK - DESCRIPTION
1. INSTALL NEW CURB PER OREGON STANDARD DRAWING RD700 ON SHT CS2.0F, 7" CURB HEIGHT, 30" CURB & GUTTER WIDTH.	11. NEW STREET LIGHTS (STA 169+06, 28' RT; STA 170+88, 28' RT; STA 172+12, 28' RT) TO BE PROVIDED BY OTHERS. SEPARATE PERMIT IS REQUIRED.
2. INSTALL NEW 6" PC CONCRETE SIDEWALK PER OREGON STANDARD DRAWING RD720, SHEET CS2.0G.	12. DECOMMISSION EXIST WATER METER
3. SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT AND PROVIDE NEW PAVEMENT SECTION. STRAIGHT GRADE NEW PAVEMENT FROM EXIST F.P. AT SAWCUT TO NEW GUTTER ELEVATION (TYP). PROVIDE TACK COAT AT ALL SAWCUT EDGES.	13. STA 172+42.50, 33' RT, CENTER OF 8' LONG TEMPORARY TYPE III BARRICADE PER ODOT DWG 820. PROVIDE (2) SUPPORT POSTS PER ODOT DWG TM681, SHT CS2.0E.
4. REMOVE EXISTING TREE FOR NEW WORK.	
5. REMOVE EXISTING POWER POLE. MOVE ALL EXIST OVERHEAD LINES UNDERGROUND PER PGE PLAN, GENERAL CONTRACTOR COORDINATE.	
6. REMOVE EXISTING F.H. COORDINATE VALVE DECOMMISSION WITH CITY PUBLIC WORKS DEPARTMENT, INSTALL NEW F.H. ASSEMBLY WITH VALVE AT SHADY HOLLOW STA 1+57.75, 13' LT, PER WL-401. CONNECT NEW FIRE SERVICE PIPE TO EXIST WATER LINE. PROVIDE MECH RESTRAINED FITTINGS AT ALL JOINTS. CONTRACTOR CONFIRM PIPE DEPTHS AND ALL MATERIAL REQUIREMENTS PRIOR TO ORDERING.	
7. REMOVE EXISTING MAILBOX AND ADDRESS POST	
8. REMOVE EXISTING "STOP" SIGN, PROVIDE NEW 36" x 36" STOP SIGN PER MUTCD SIGN R1-1 ON SQUARE STEEL TUBE SUPPORT. EXTEND TUBE SUPPORT ABOVE STOP SIGN AND MOUNT NEW STREET NAME SIGNS ABOVE PER DETAIL 1/CS2.0C. SEE STREET NAME SIGN DETAILS ON CS2.0B AND STOP SIGN DETAIL ON CS2.0C. SEE ALSO SIGN INSTALLATION, ATTACHMENT, FOUNDATION AND SUPPORT DETAIL ON SHTS CS2.0C, CS2.0E AND CS2.0F (TM200, TM206, TM676, TM681 AND TM687).	
9. CONC. PAVEMENT CONNECTION RAMP WITH TRUNCATED DOME WARNING SURFACE SIM TO RD757 OPTION J - SIDEWALK RAMP. SEE SHT CS2.0G. PROVIDE HOT ASPHALT SEAL AND SANDED FINISH OVER JOINT TO EXIST A.C. EDGE.	
10. NEW CG-3 CURB INLET AT STA 169+38.51, 37' RT (STA 1+36.96, 13.61' LT SHADY HOLLOW), SEE RD371 AND RD372, SHEET CS2.0F	



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SHADY HOLLOW VILLAGE  
 SHADY HOLLOW AND WILLAMETTE DRIVE  
 WEST LINN, OREGON

PROJECT NUMBER: 1335

DRAWING	DATE	BY
DESIGN	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	12 MAR 2014	SGS
PERMIT	22 AUG 2014	SGS
PLAN CHECKS	21 OCT 2014	CGP
	06 JAN 2015	CGP
	23 JAN 2015	CGP
	25 FEB 2015	CGP
	16 MAR 2015	CGP

SHEET TITLE  
 OR43  
 IMPROVEMENTS

SHEET #  
 CS2.0A

AS-BUILT DEC 16, 2015





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SHADY HOLLOW VILLAGE  
SHADY HOLLOW AND WILLAMETTE DRIVE  
WEST LINN, OREGON

PROJECT NUMBER: 1335

DRAWING	DATE	BY
DESIGN		

20 NOV 2013	SGS
11 FEB 2014	SGS

ES REV	
12 MAR 2014	SGS

ERMIT	
22 AUG 2014	SGS
LAN CHECKS	

21 OCT 2014	CGP
06 JAN 2015	CGP

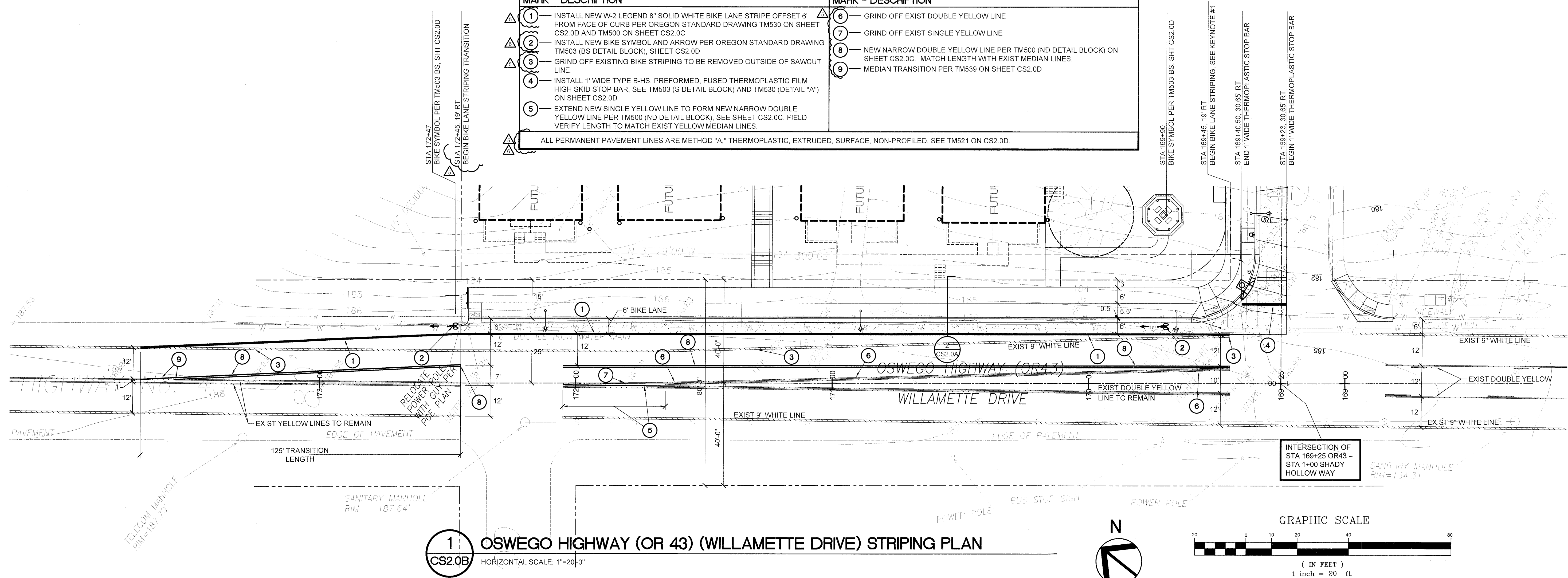
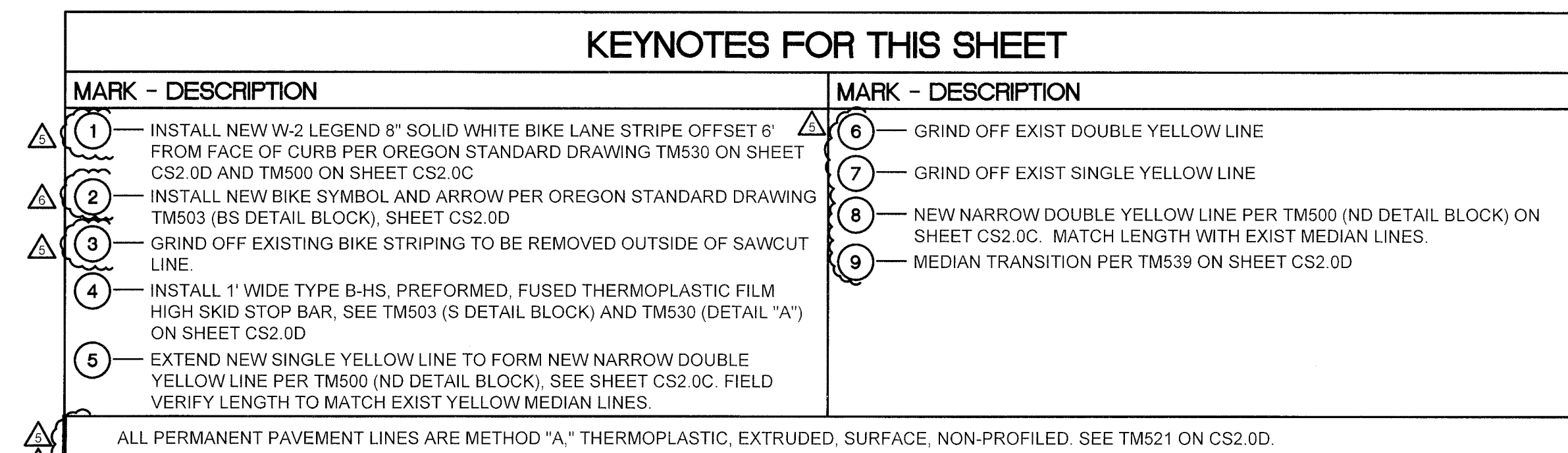
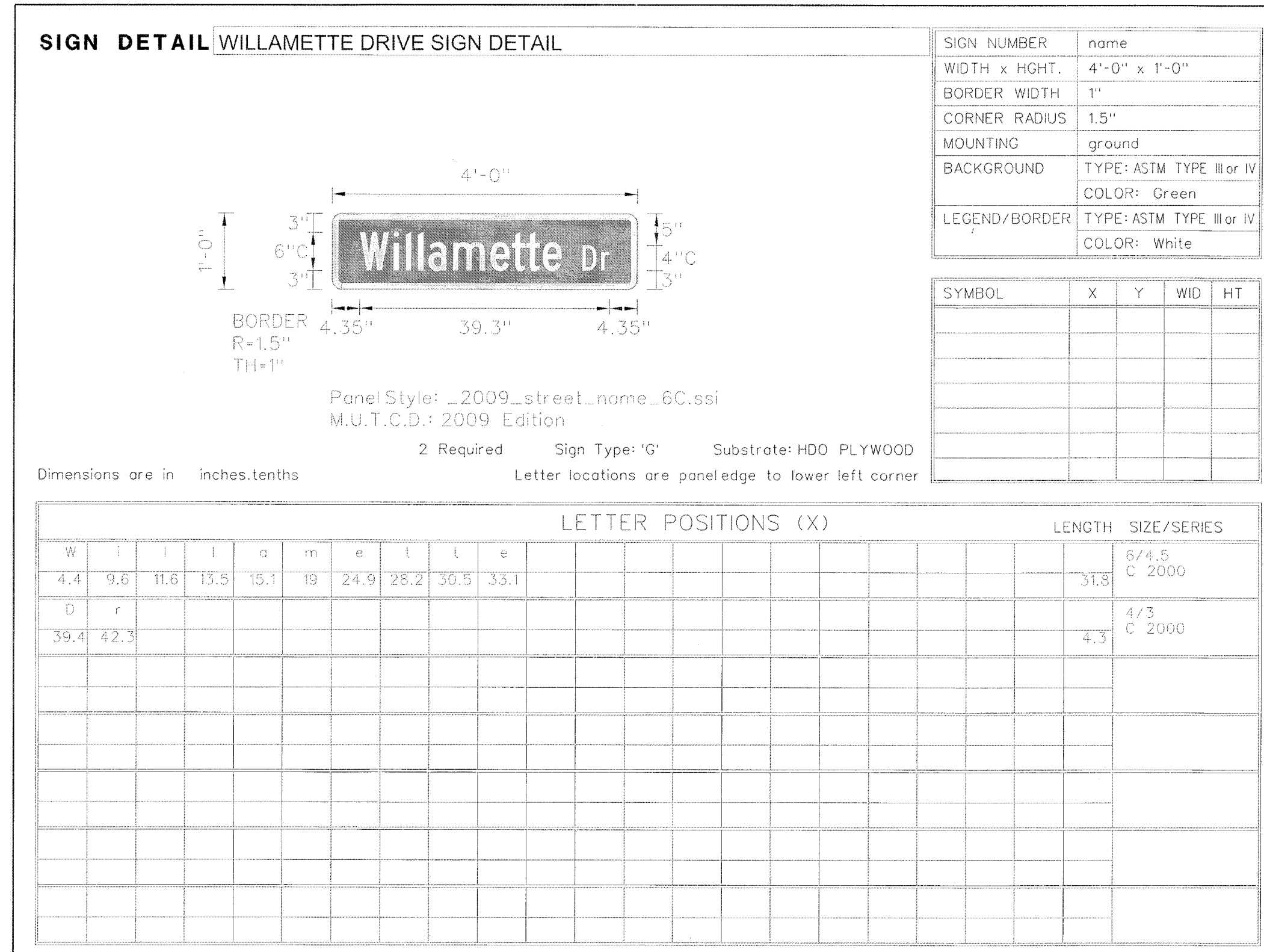
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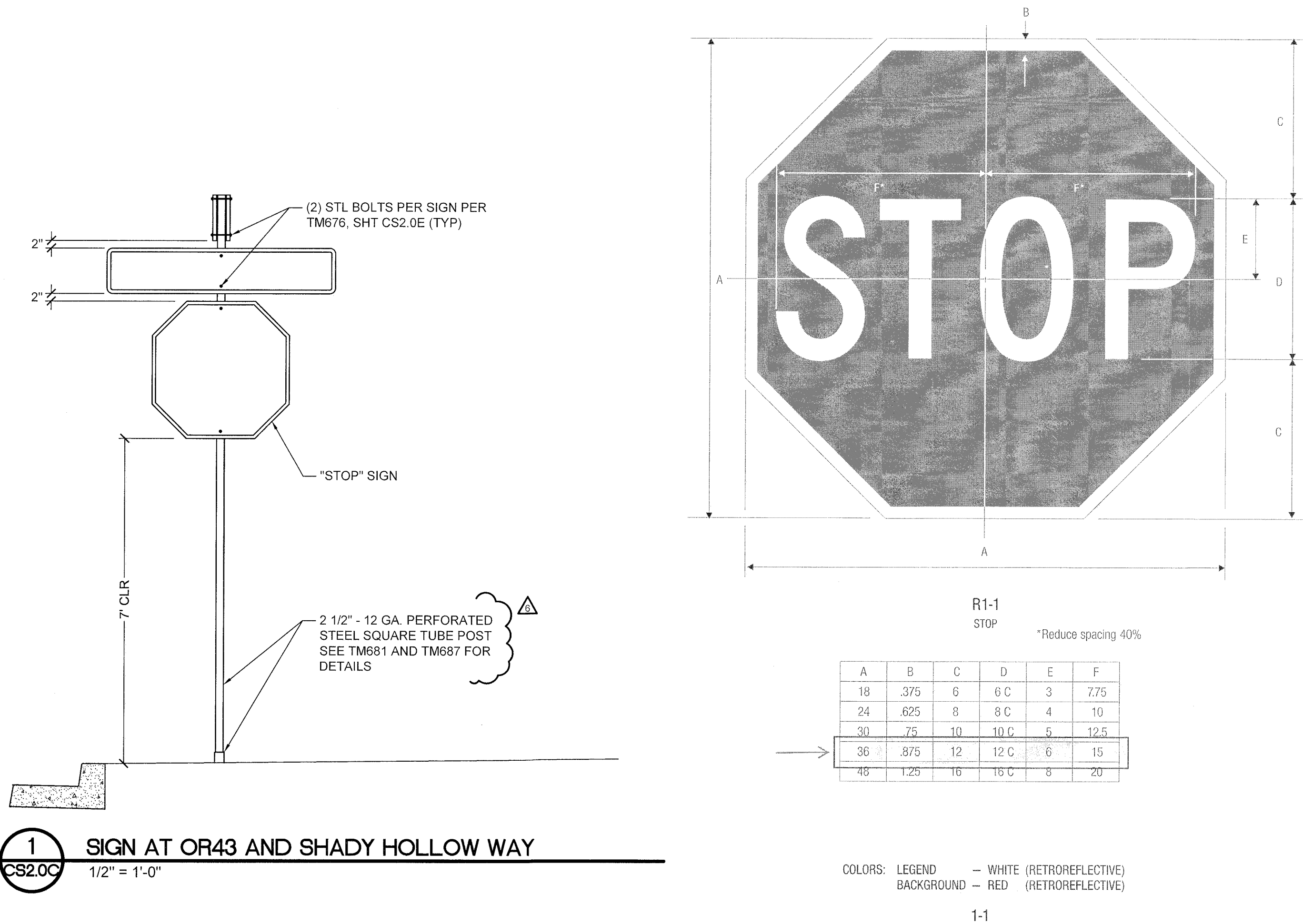
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SHEET # 000000

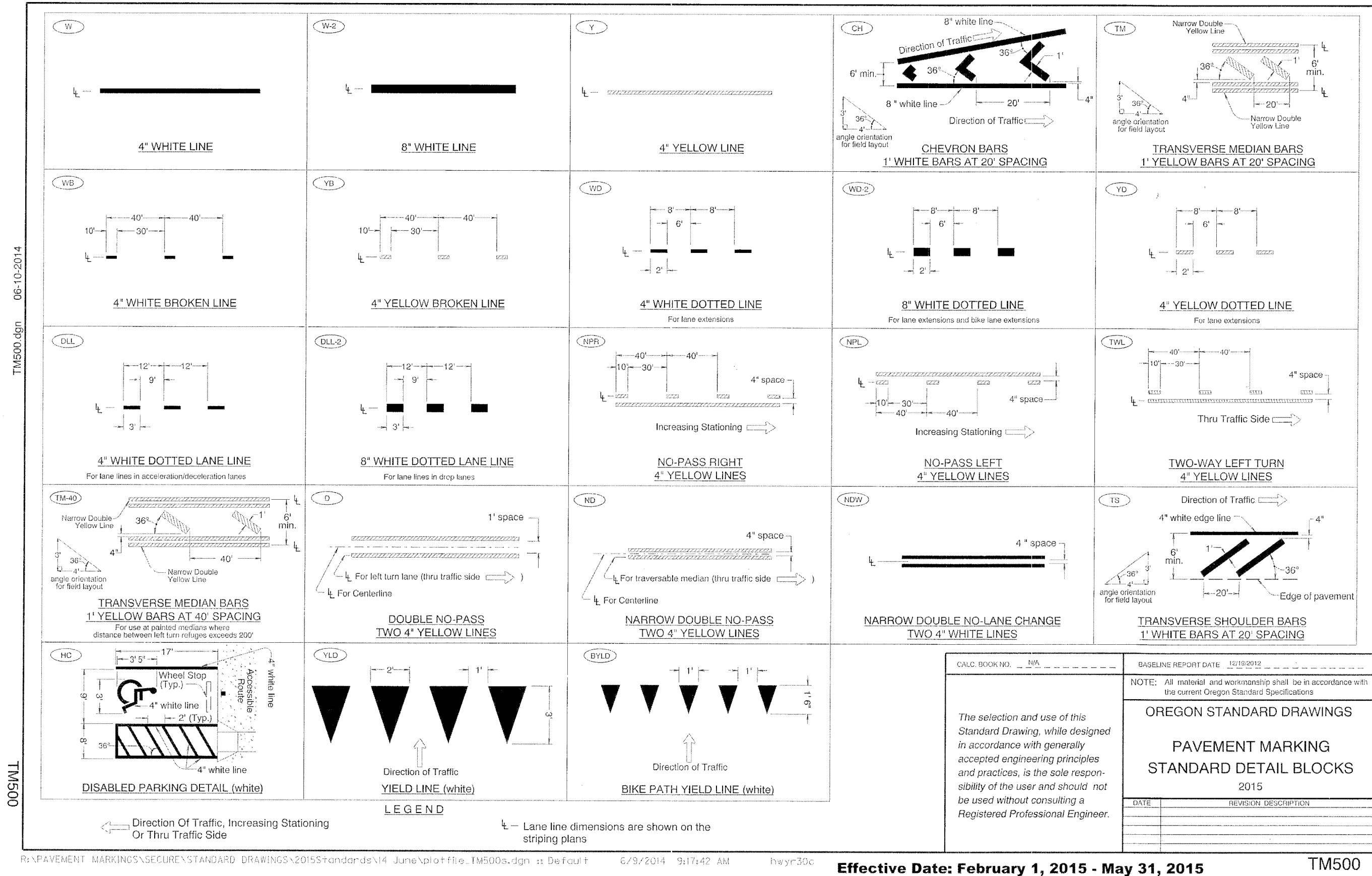
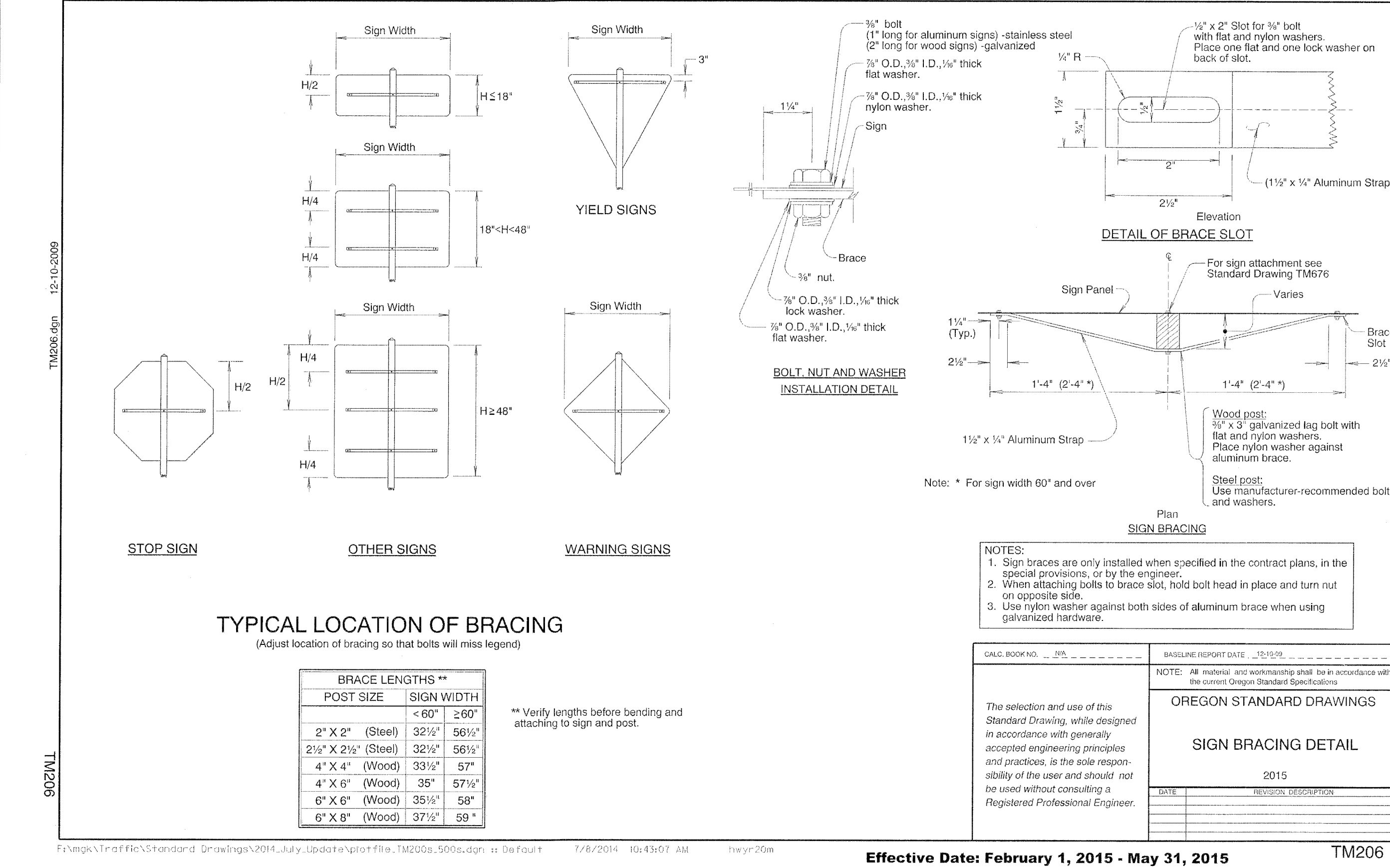
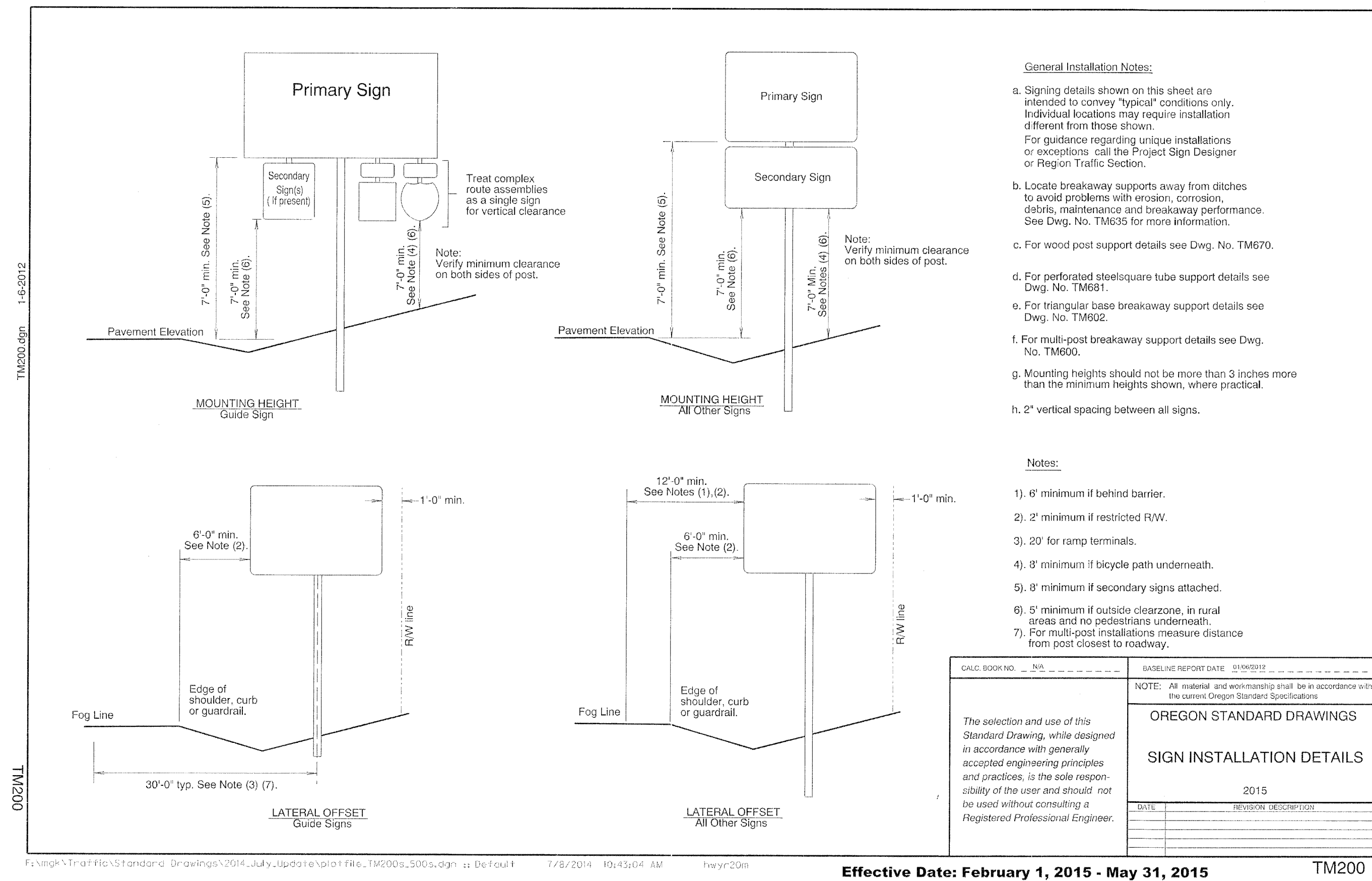
CS2.0B







# **1 SIGN AT OR43 AND SHADY HOLLOW WAY** 1/2" = 1'-0"



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SHADY HOLLOW VILLAGE  
SHADY HOLLOW AND WILLAMETTE DRIVE  
WEST LINN, OREGON

PROJECT  
NUMBER: 1335

DRAWING DATE BY  
DESIGN 20 NOV 2013 SCS  
11 FEB 2014 SCS

DES REV 12 MAR 2014 SCS

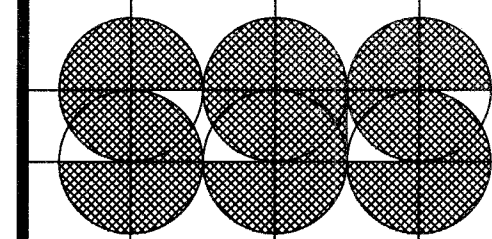
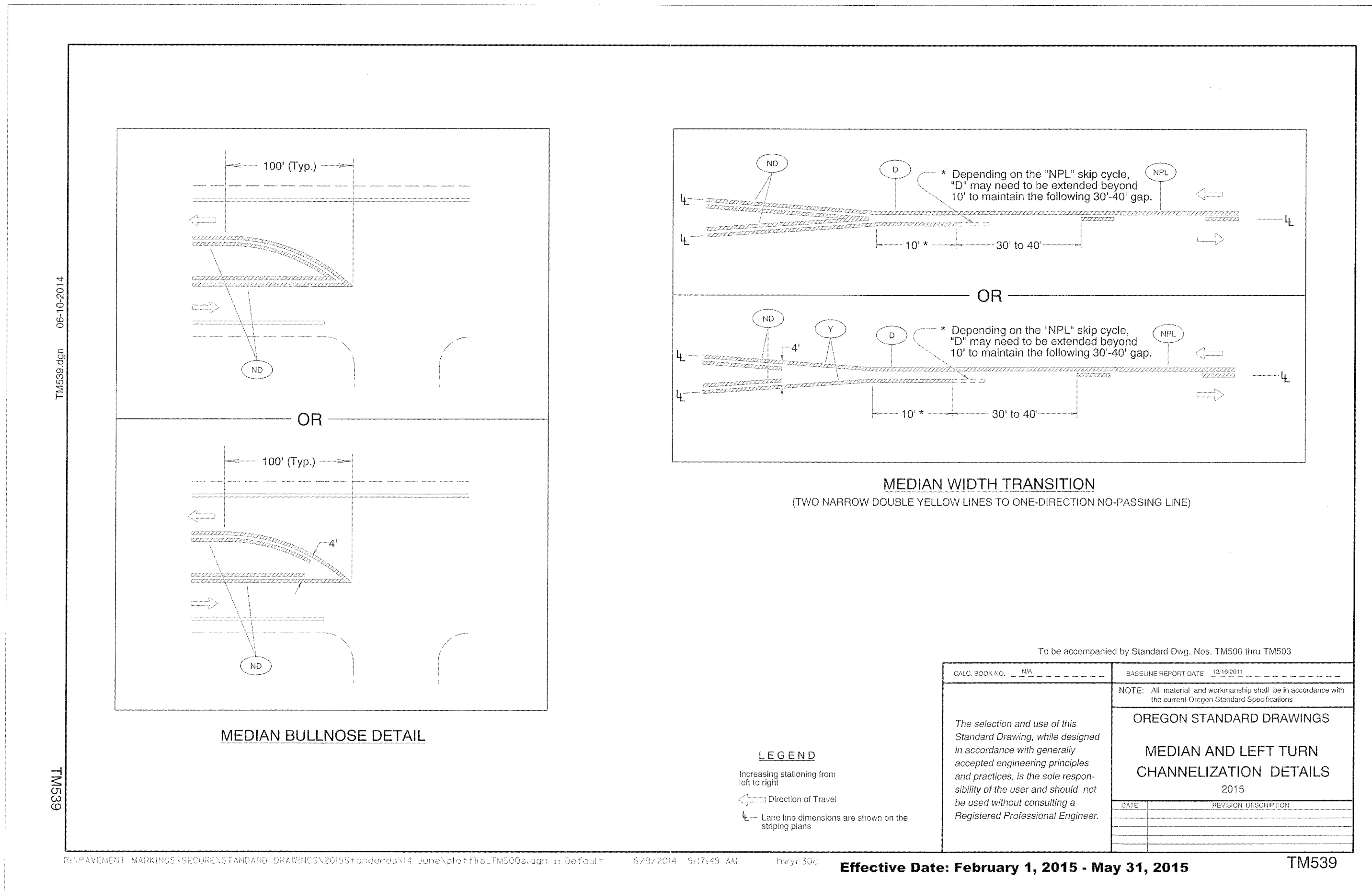
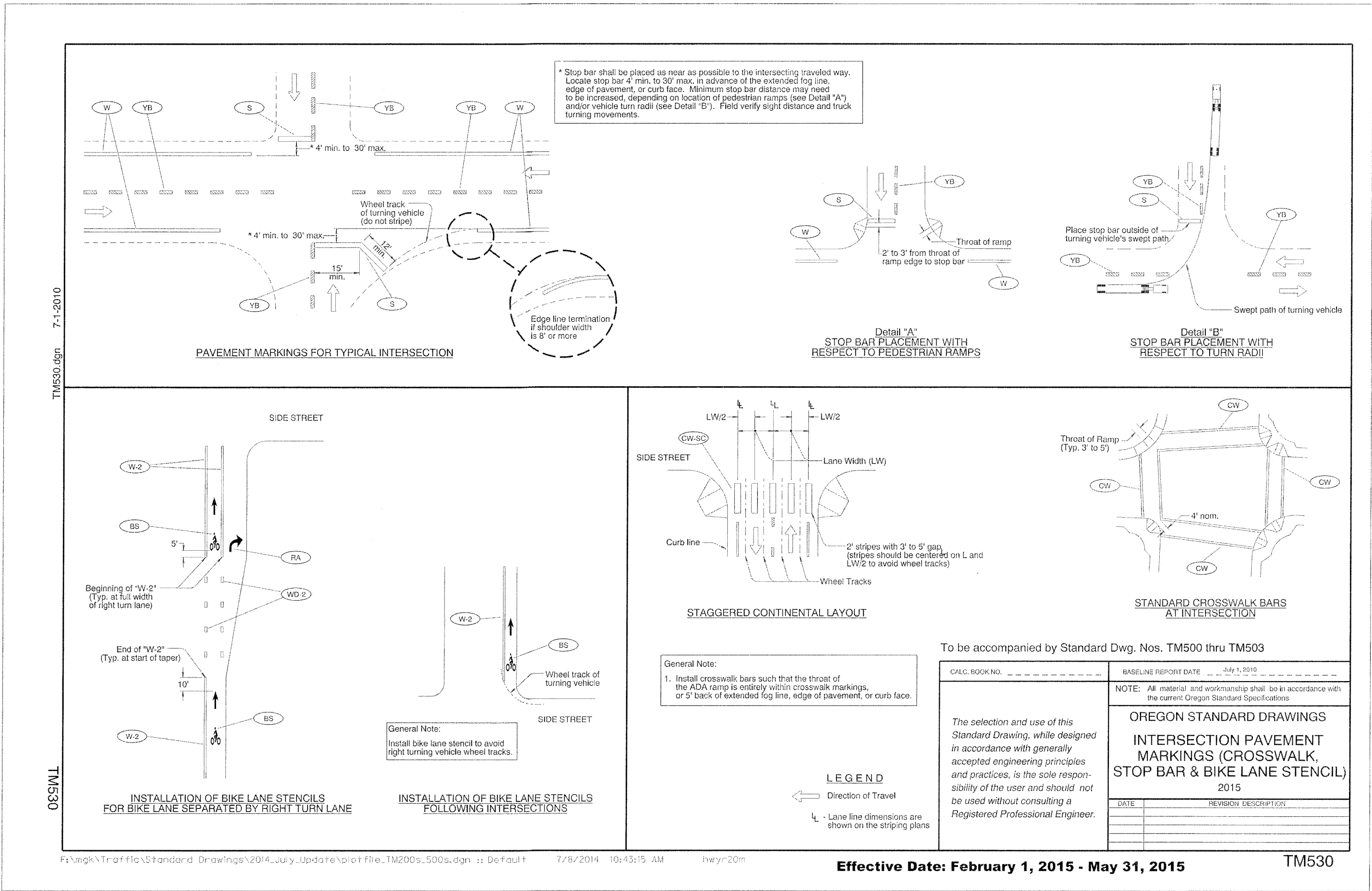
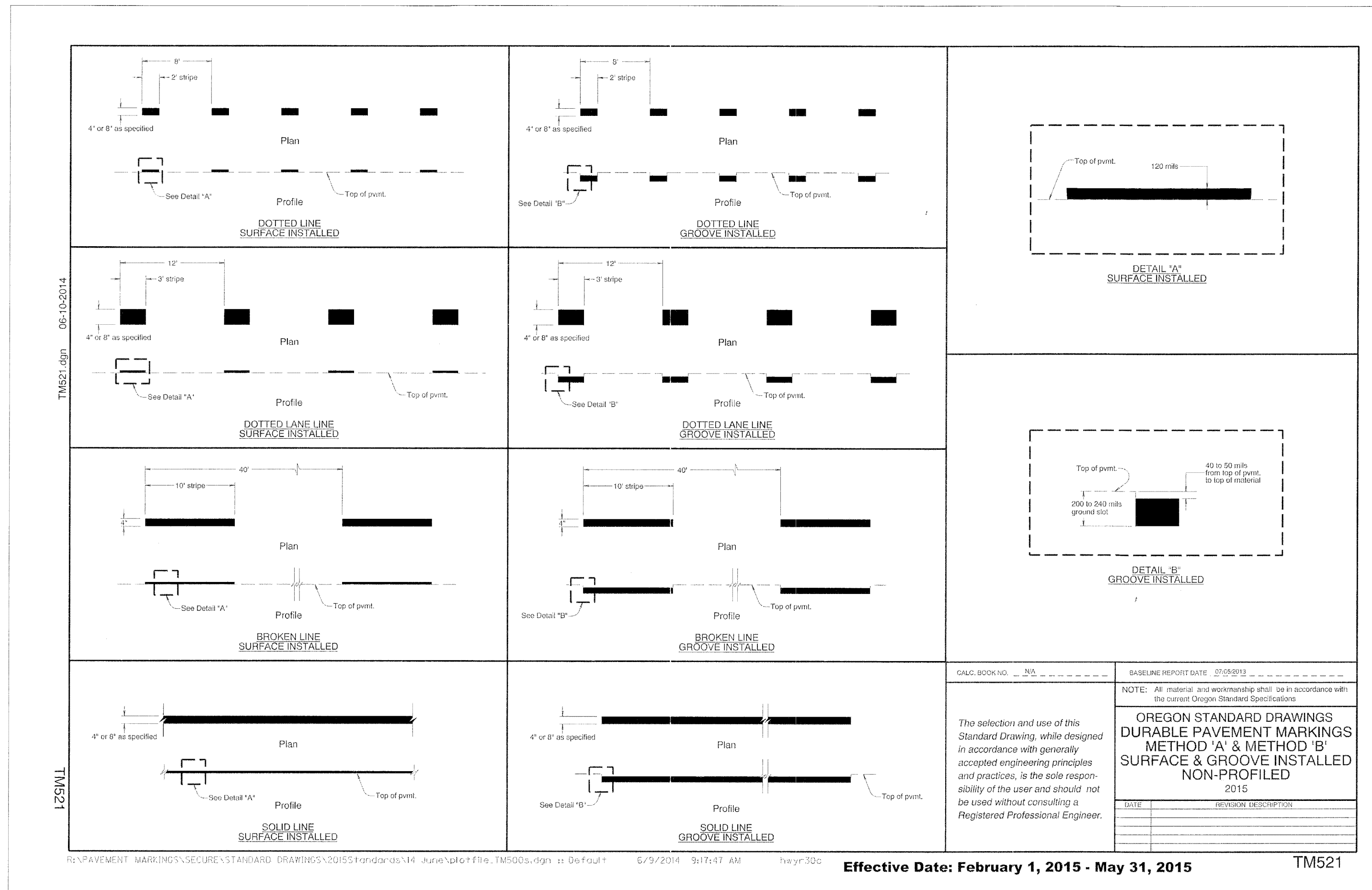
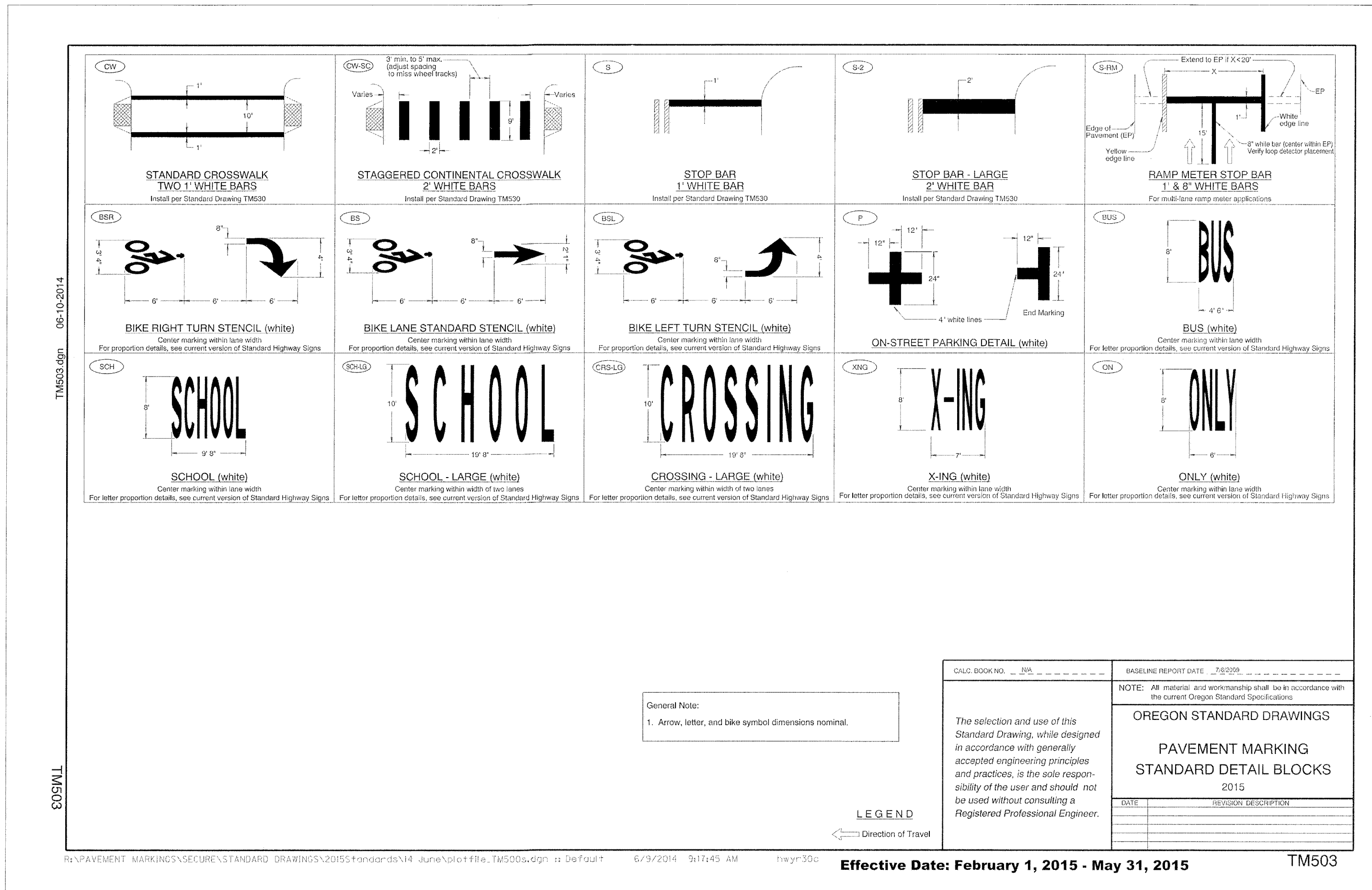
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PLAN CHECKS  
21 OCT 2014 CGP  
06 JAN 2015 CGP  
23 JAN 2015 CGP  
25 FEB 2015 CGP  
16 MAR 2015 CGP

SHEET TITLE  
ODOT DETAILS

SHEET #  
CS2.0C





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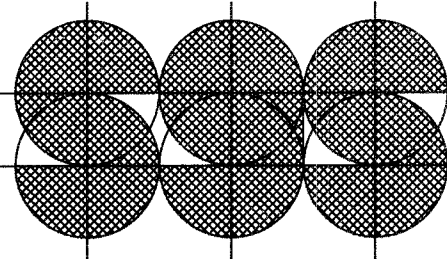
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SHADY HOLLOW VILLAGE  
SHADY HOLLOW AND WILLAMETTE DRIVE  
WEST LINN, OREGON

PROJECT NUMBER:		1335
DRAWING	DATE	BY
DESIGN	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	12 MAR 2014	SGS
PERMIT	22 AUG 2014	SGS
PLAN CHECKS		
▲	21 OCT 2014	CGP
▲	06 JAN 2015	CGP
▲	23 JAN 2015	CGP
▲	25 FEB 2015	CGP
▲	16 MAR 2015	CGP

SHEET TITLE  
ODOT DETAILS  
SHEET #  
CS2.0D





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SHADY HOLLOW VILLAGE  
SHADY HOLLOW AND WILLAMETTE DRIVE  
WEST LINN, OREGON

PROJECT  
NUMBER: 1335

DRAWING DATE BY  
DESIGN 20 NOV 2013 SCS  
11 FEB 2014 SCS

DES REV 12 MAR 2014 SCS

PERMIT 22 AUG 2014 SCS

PLAN CHECKS  
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16 MAR 2015 CGP

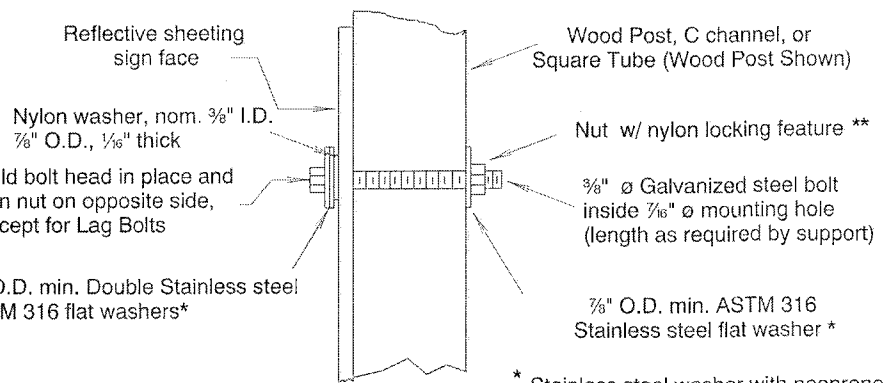
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ODOT DETAILS

SHEET #  
CS2.0E

AS-BUILT NOV 18, 2015

TM676.dgn 11-JUL-2014

9.49WLT



Note:  
1) When signs are placed on opposing sides of post, 3/4\"/>

SIGN ATTACHMENT DETAIL

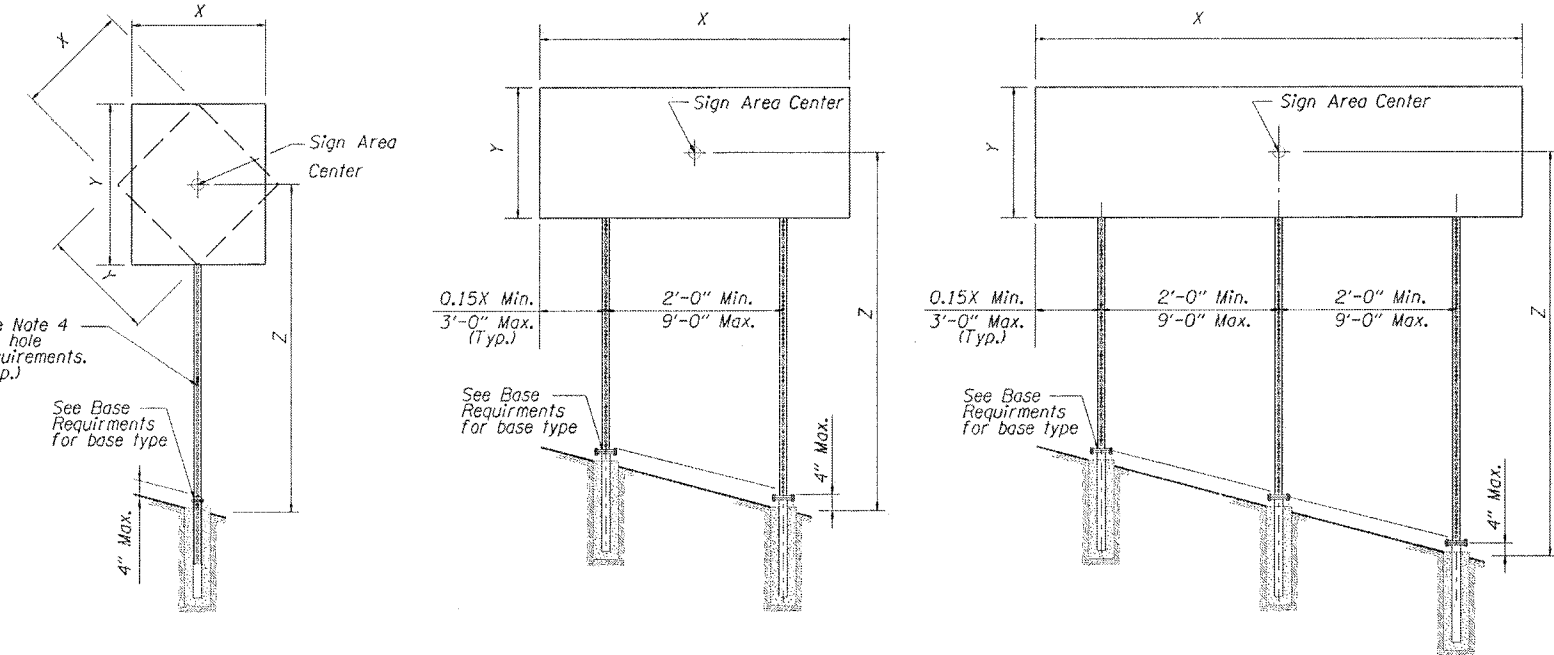
DESIGNER	DATE	REVISION	DATE	REVISION
TM676	11-JUL-2014			
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.				
OREGON STANDARD DRAWINGS				
SIGN ATTACHMENTS				
2015				
DATE	REVISION	DATE	REVISION	DATE

Effective Date: February 1, 2015 - May 31, 2015

TM676

TM681.dgn 11-JUL-2014

TM681



### SINGLE POST ELEVATION

No scale

### TWO POST ELEVATION

No scale

$$(X * Y * Z) \text{ in ft }^3$$

3 Second Gust Wind Speed (TM671)

	85 MPH			95 MPH			105 or 110 MPH		
	Number of Posts			Number of Posts			Number of Posts		
	1	2	3	1	2	3	1	2	3
Square Tube Size									
2"–12 ga.	79	158	237	63	126	189	57	114	171
2½"–12 ga.	136	272	408	109	218	327	98	196	294
3½"–10 ga.	165	330	495	132	264	396	119	238	357
2½" & 2½"–12 ga.	231	462	693	185	370	555	167	334	501

( X * Y * Z ) in ft <sup>3</sup>									
3 Second Gust Wind Speed (TM671)									
85 MPH			95 MPH			105 or 110 MPH			
Number of Posts			Number of Posts			Number of Posts			
Square Tube Size	1	2	3	1	2	3	1	2	3
2 1/2" - 12 ga.	125	250	375	100	200	300	90	180	270
2 1/2" - 10 ga.	215	430	645	172	344	516	155	310	465
2 1/4" - 12 ga.	261	522	783	209	418	627	189	378	567
2 1/4" & 2 1/2" - 12 ga.*	364	728	1092	292	584	876	263	526	789

TEMPORARY PERFORATED STEEL SQUARE TUBE TABLE

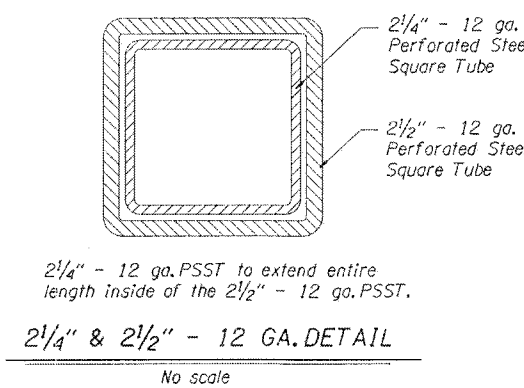
Square Tube Size	Number of Posts		
	1	2	3
2"-12 ga.	Anchor	Anchor	N/A
2½"-12 ga.	Anchor	Slip	Slip
2½"-10 ga.	Slip	Slip	Slip
2¼" & 2½"-12 ga.*	Slip	Slip	Slip

1. Anchor - See Drawing TM687 for PSST anchor foundation details.  
2. Slip - See Drawing TM688 for PSST slip base foundation details.  
3. N/A - Do not use this option.

BASE REQUIREMENTS

\* - See 2 1/4\"/>

- GENERAL NOTES:
1. Perforated Steel Square Supports are designed in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals 4th Edition, 2001, 2002, 2003, and 2008, interim revisions.
  2. The design basic wind speed (3 second gust) shall be according to the wind map shown on TM671.
  3. Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing.
  4. Use 1/4\"/>
  5. Steel post shall have a minimum yield stress of 50 ksi.
  6. Steel shall be galvanized according to ASTM A653 with coating designation G140.
  7. General design parameters are K<sub>z</sub> = 0.87, C<sub>d</sub> (sign) = 1.20, and G = 1.14.
  8. Permanent signing uses an I<sub>r</sub> = 0.71 for a recurrence interval of 10 years.
  9. Temporary signing uses an I<sub>r</sub> = 0.45 for a recurrence interval of 1.5 years.
  10. The sign width to sign height or sign height to sign width ratio shall not exceed 5.0.
  11. For horizontal and vertical clearances of permanent signs refer to TM680 and of temporary signs refer to TM681.
  12. Posts protected by barrier or guardrail do not require slip bases.



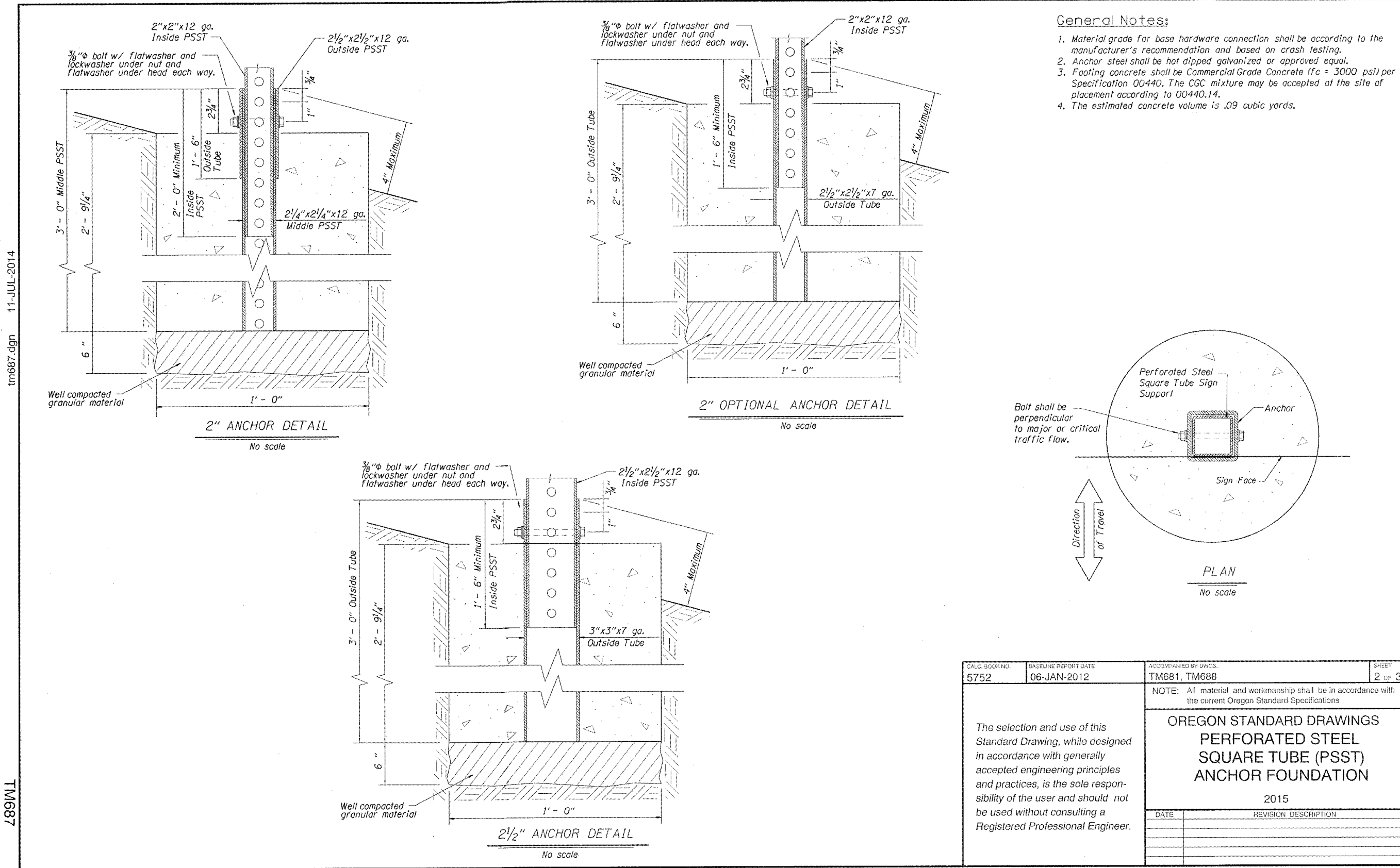
DESIGNER	DATE	REVISION	DATE	REVISION
TM681	11-JUL-2014			
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.				
OREGON STANDARD DRAWINGS				
PERFORATED STEEL SQUARE TUBE (PSST) SIGN SUPPORT INSTALLATION				
2015				
DATE	REVISION	DATE	REVISION	DATE

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

Effective Date: February 1, 2015 - May 31, 2015

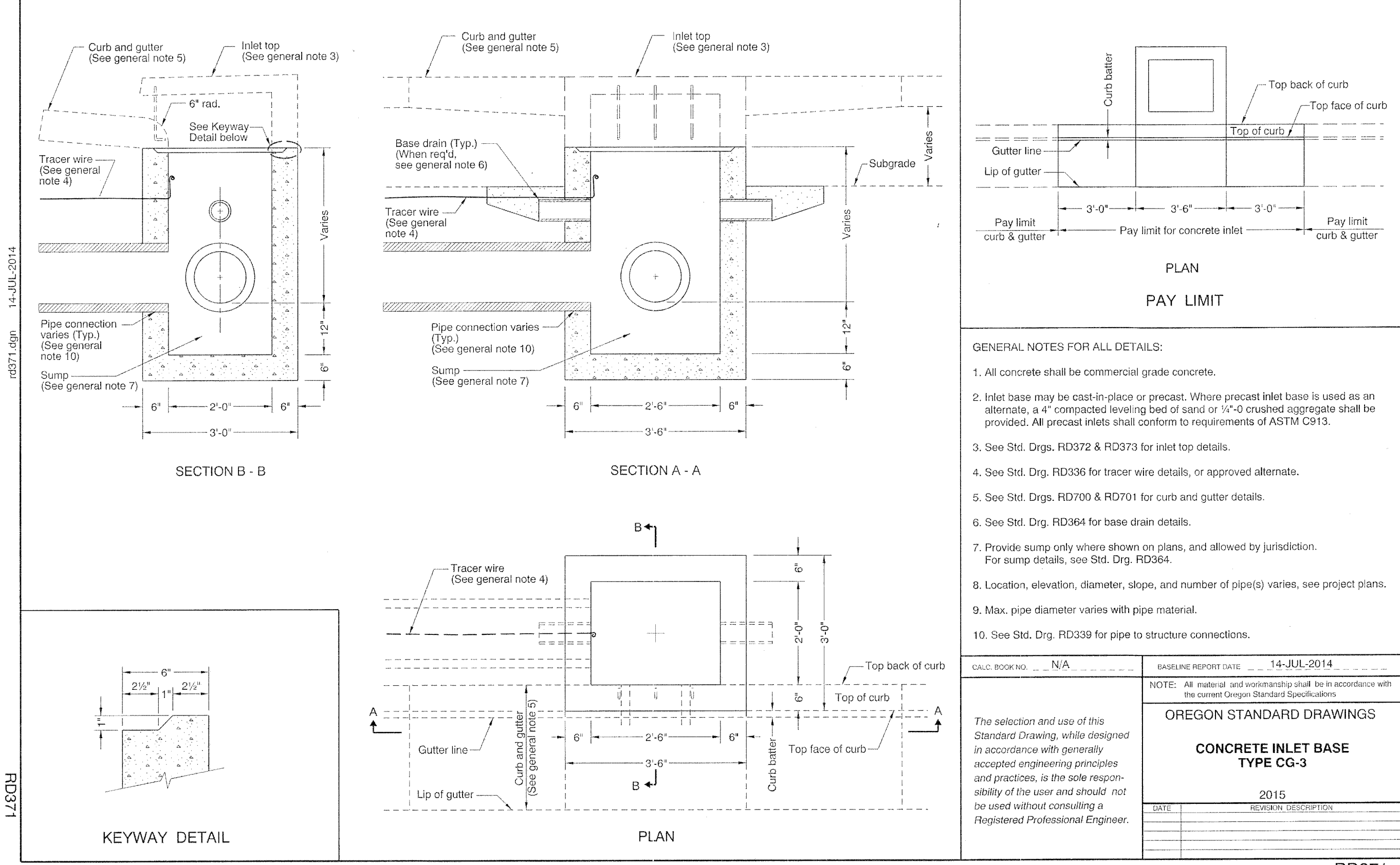
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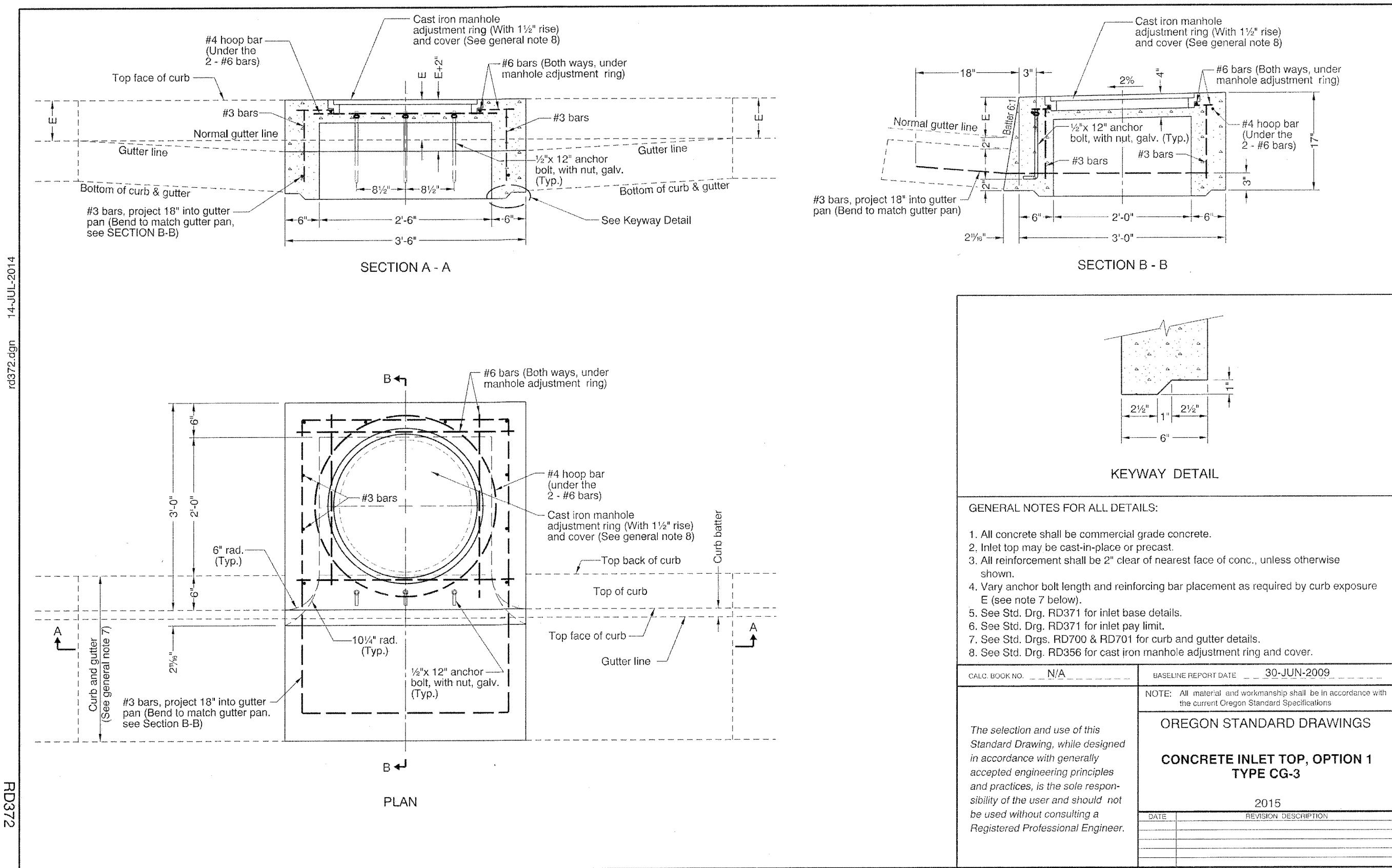


Effective Date: February 1, 2015 - May 31, 2015

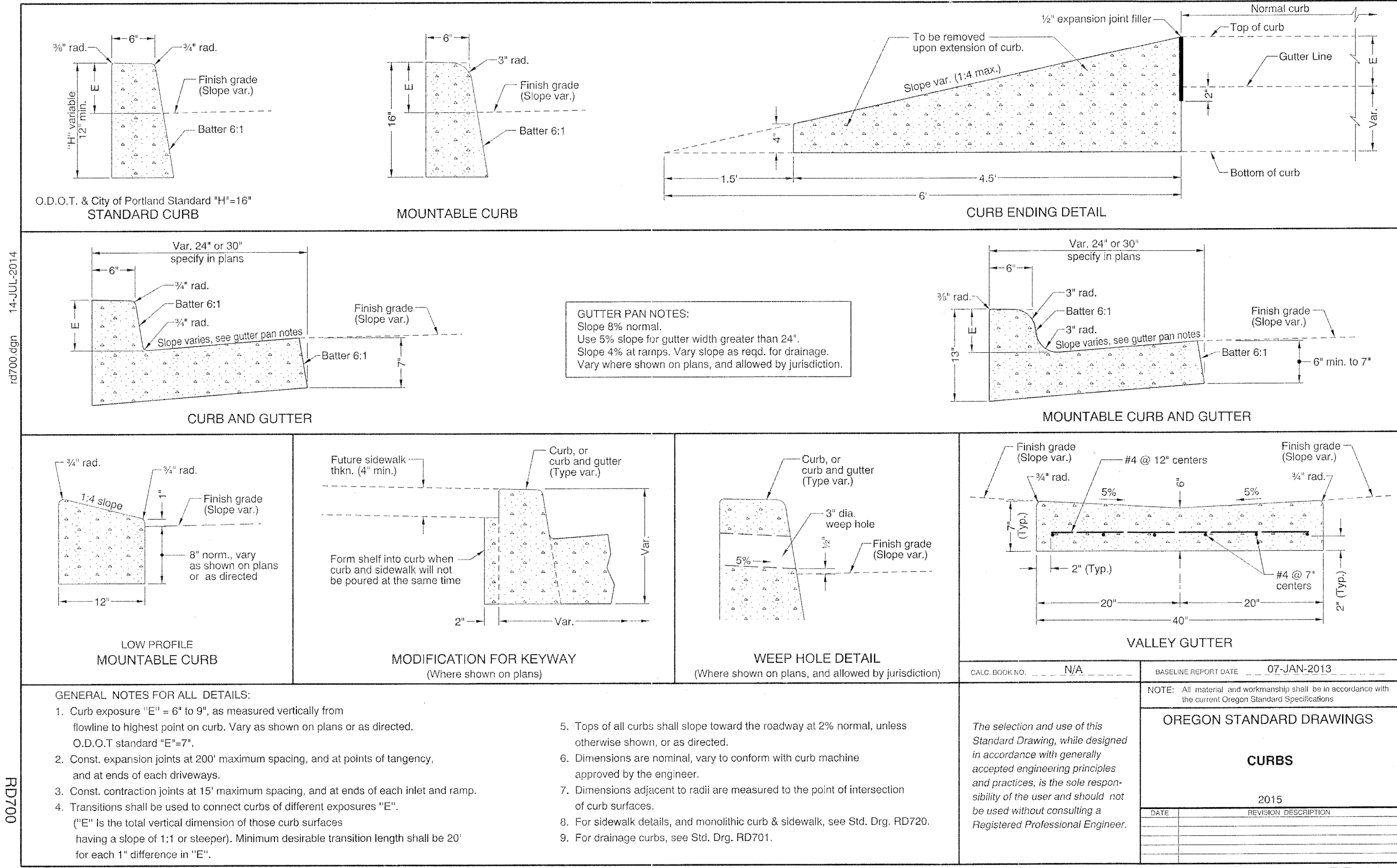
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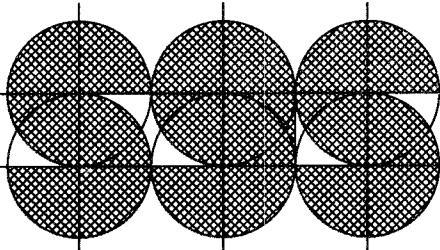
RD371



RD372



RD700



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SHADY HOLLOW VILLAGE  
SHADY HOLLOW AND WILLAMETTE DRIVE  
WEST LINN, OREGON

PROJECT  
NUMBER: 1335

DRAWING DATE BY

DESIGN 20 NOV 2013 SCS

11 FEB 2014 SCS

DES REV 12 MAR 2014 SCS

PERMIT 22 AUG 2014 SCS

PLAN CHECKS

21 OCT 2014 CGP

06 JAN 2015 CGP

23 JAN 2015 CGP

25 FEB 2015 CGP

16 MAR 2015 CGP

SHEET TITLE

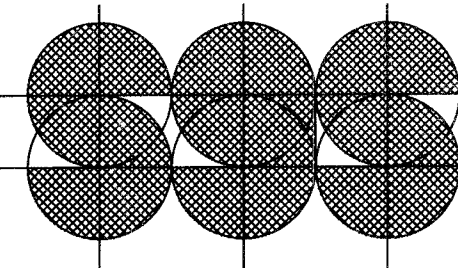
ODOT DETAILS

SHEET #

CS2.0F

AS-BUILT NOV 18, 2015





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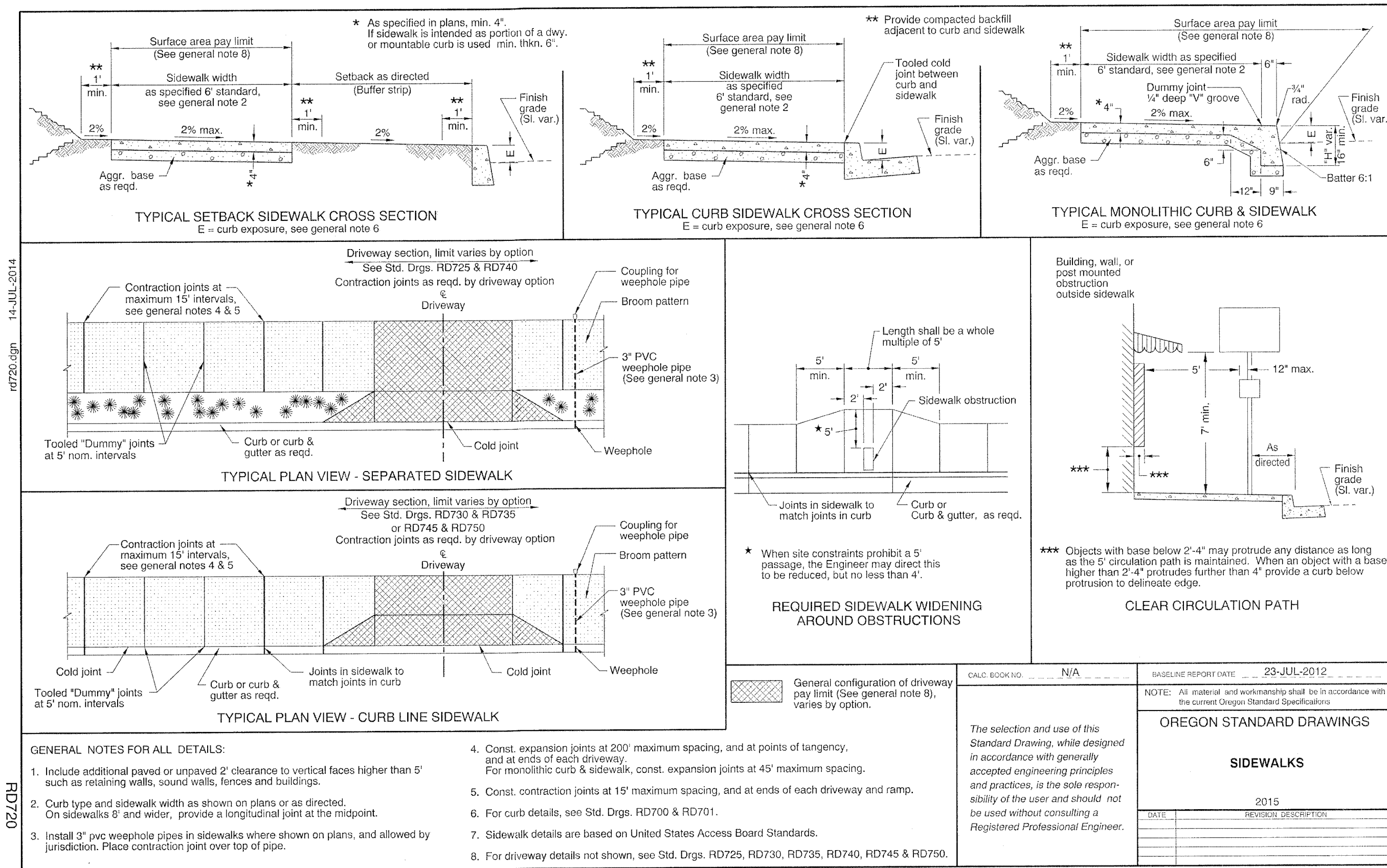
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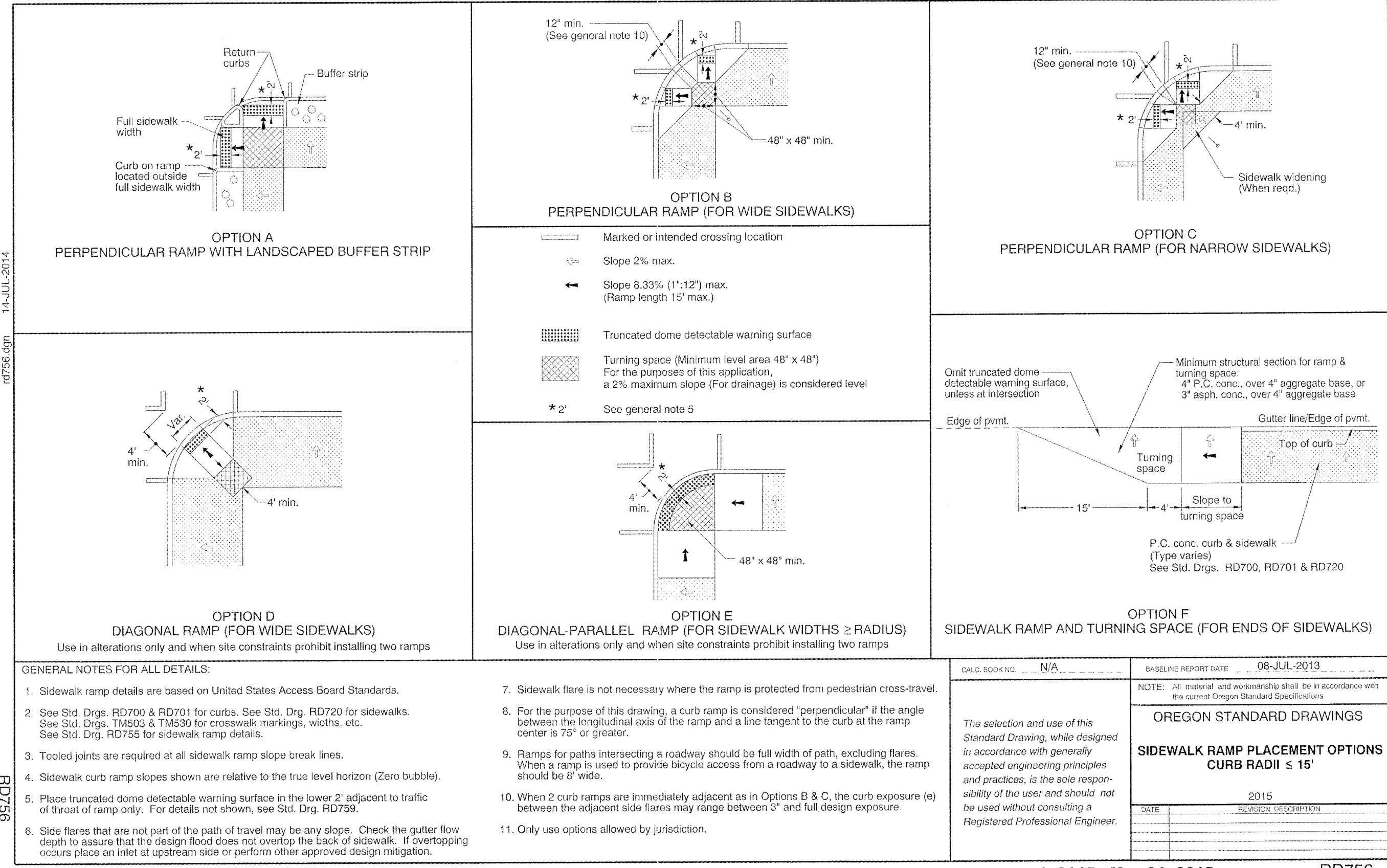
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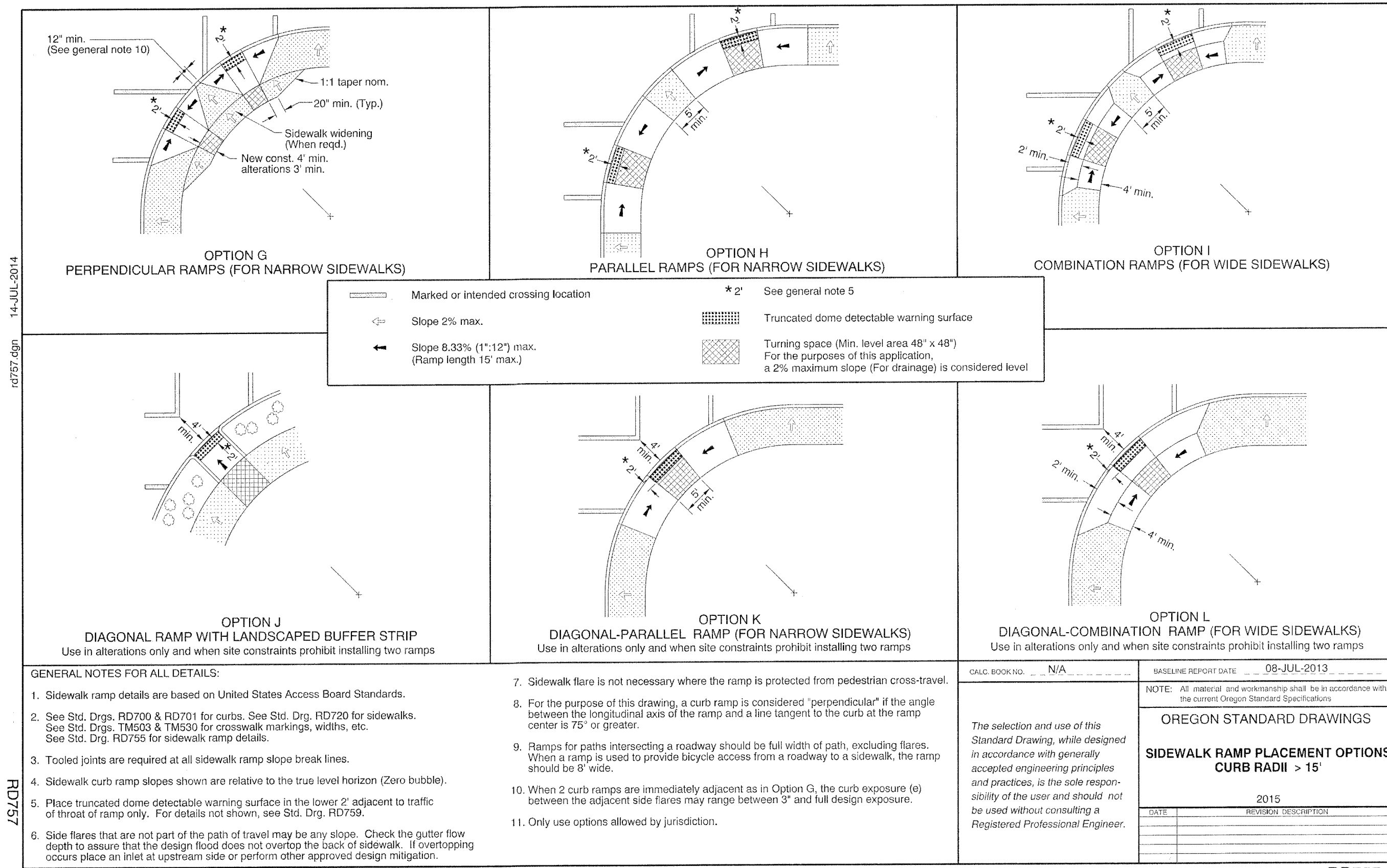
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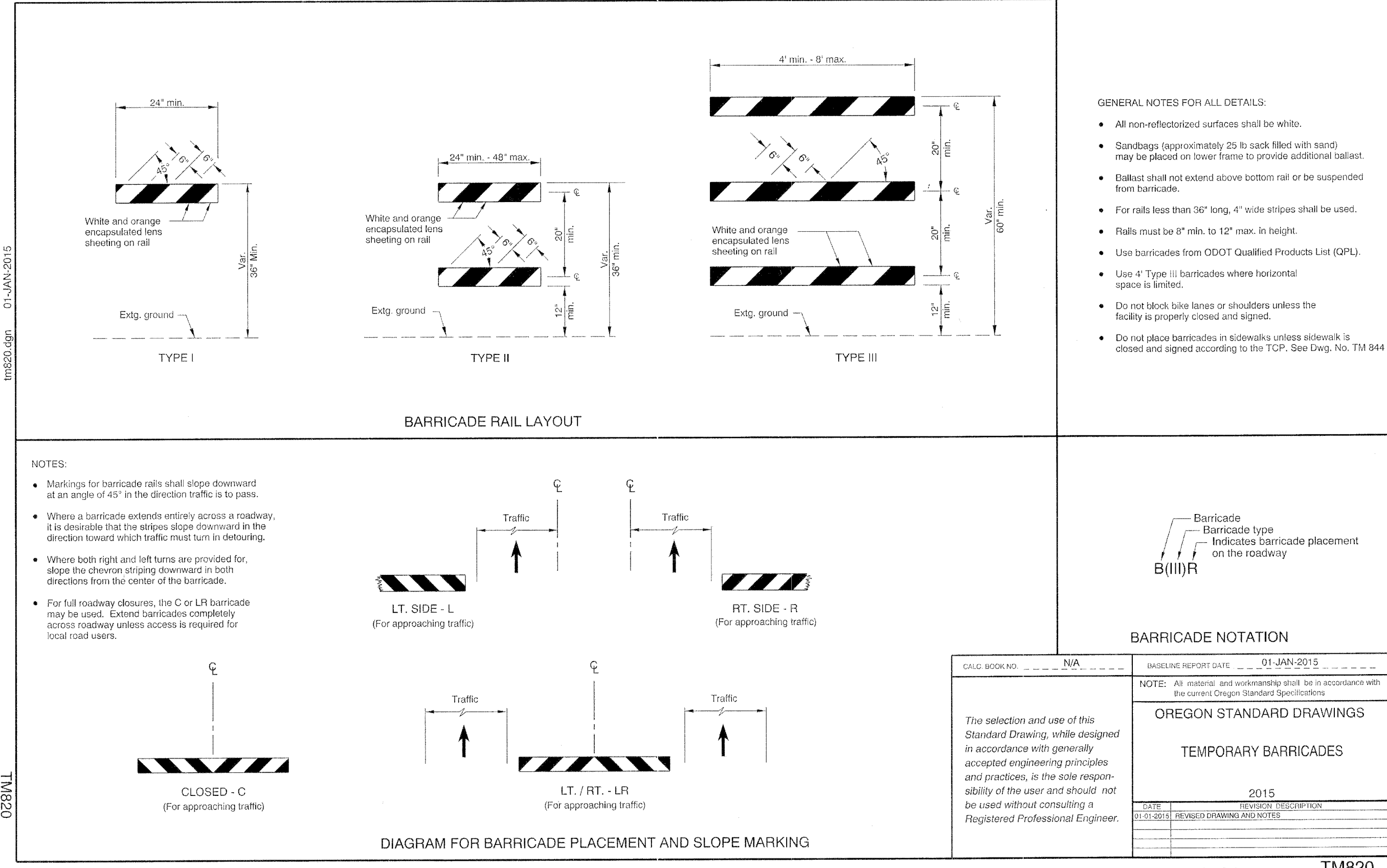
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Effective Date: February 1, 2015 - May 31, 2015

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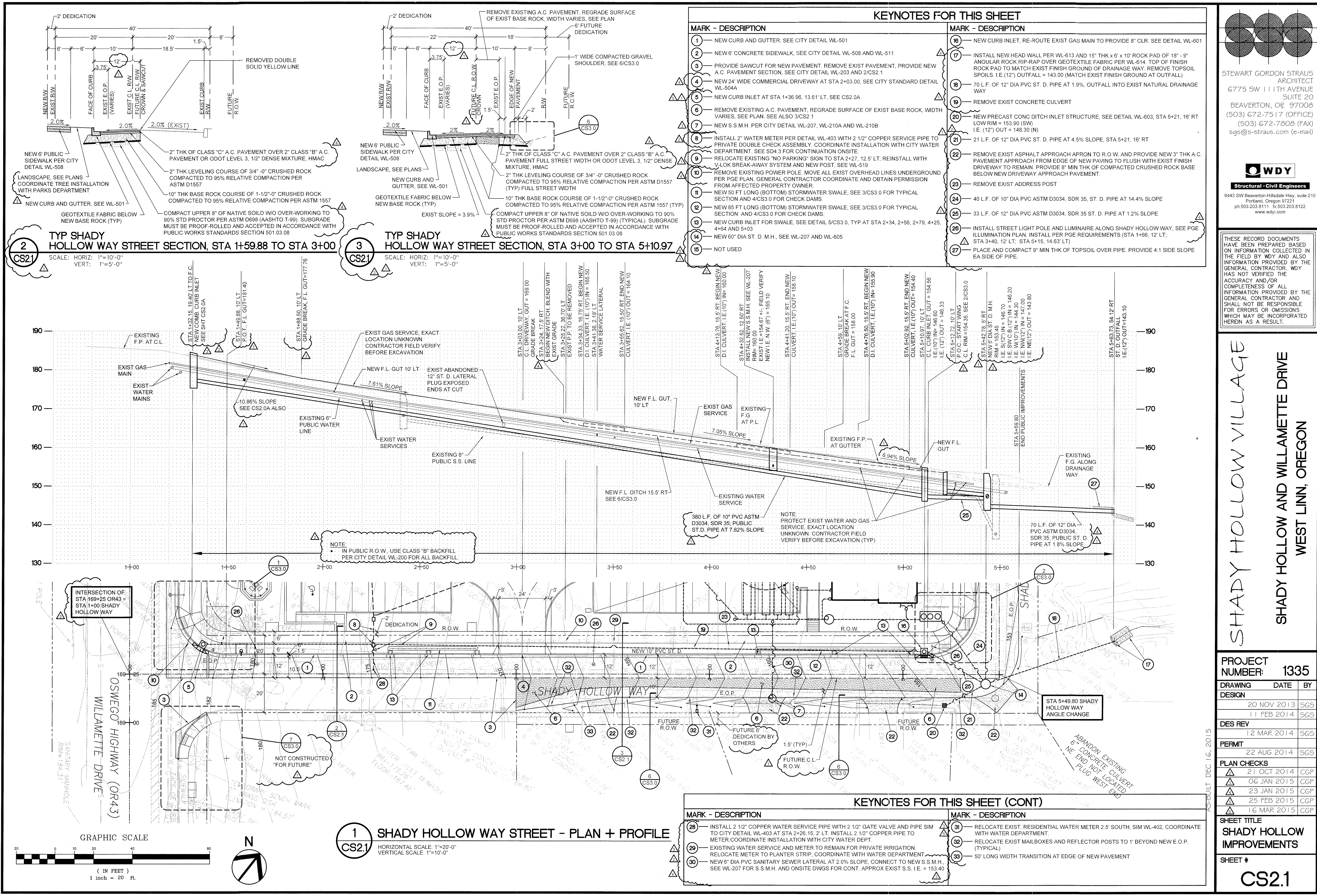


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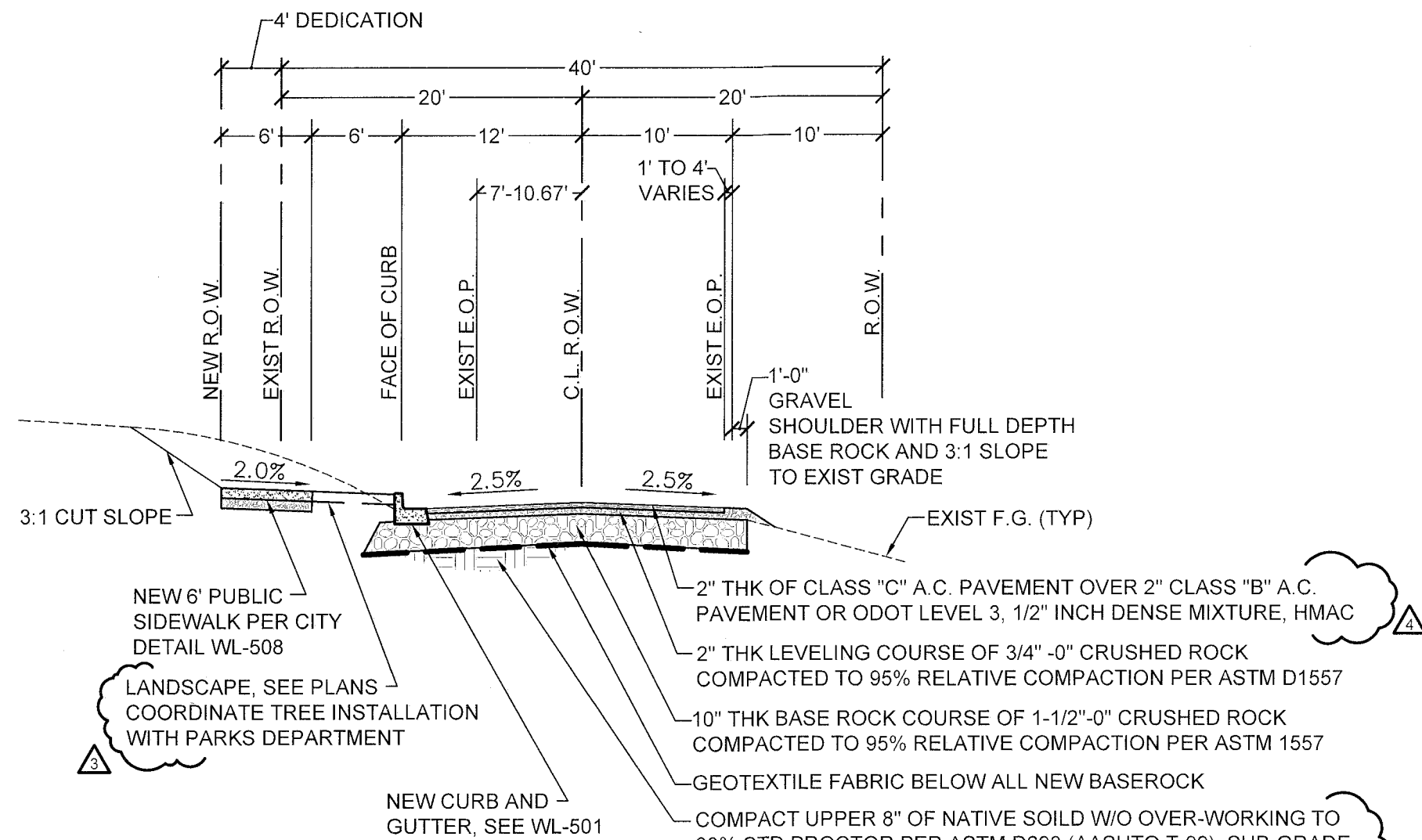
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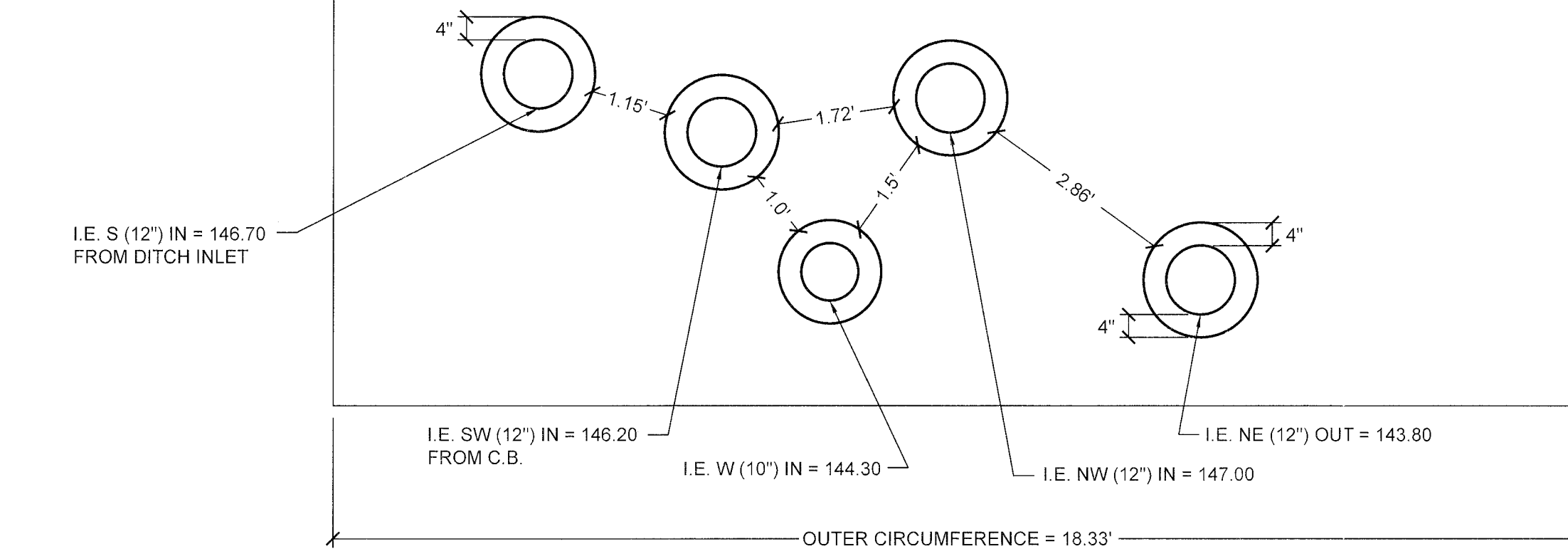




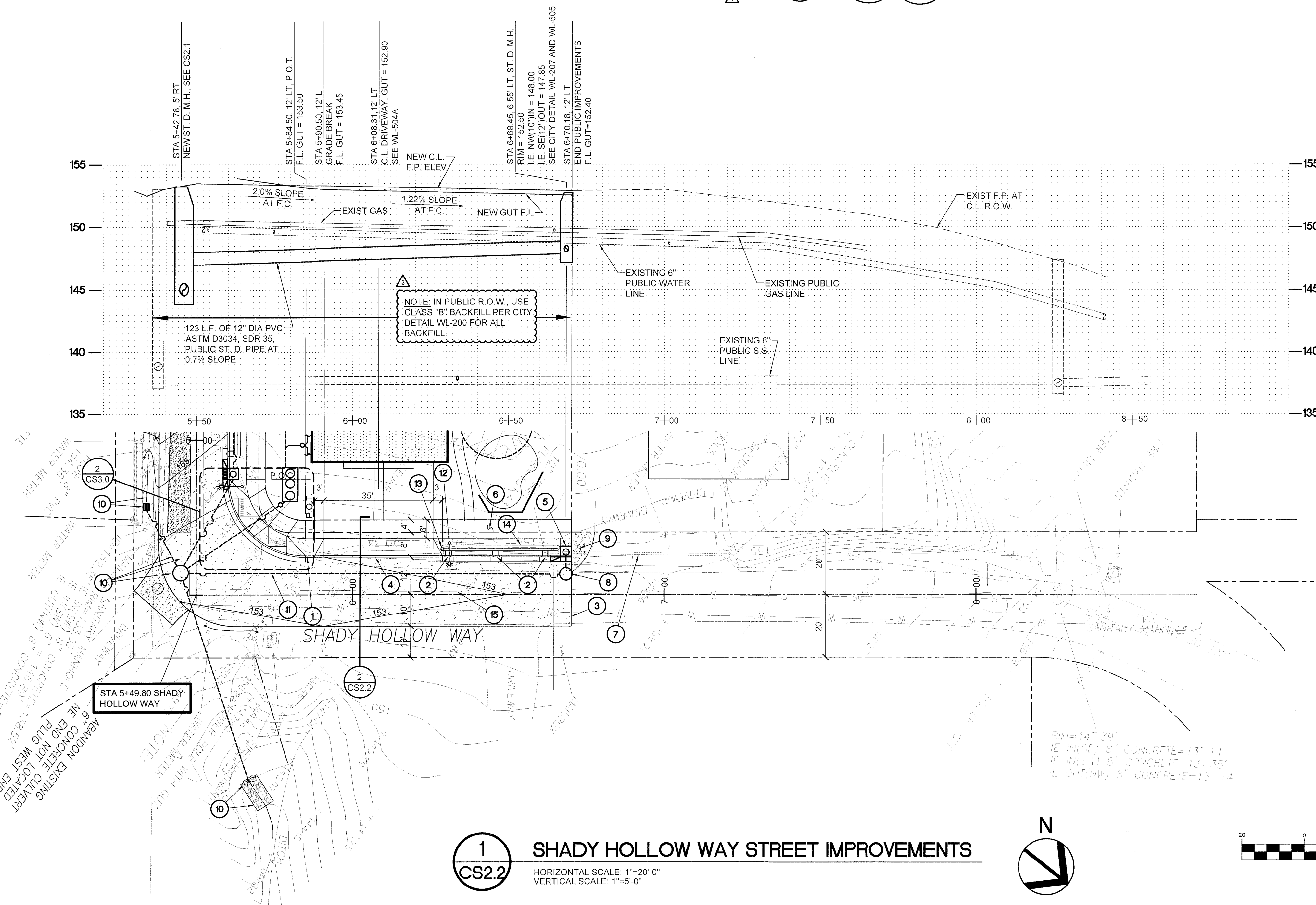




**2**  
**CS2.2**  
**TYP SHADY HOLLOW WAY STREET SECTION, STA 5+49.80 TO STA 6+70.18**  
SCALE: HORIZ: 1"=10'-0"  
VERT: 1"=5'-0"

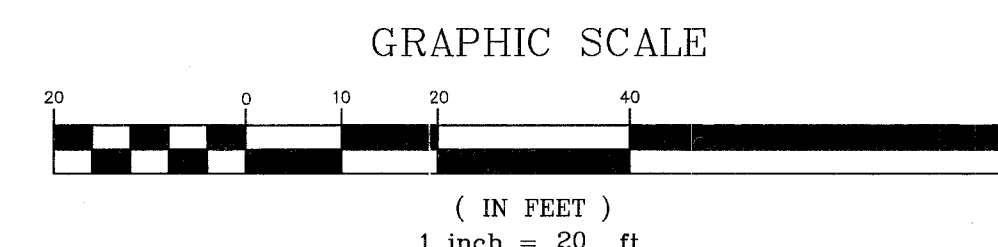


**3**  
**CS2.2**  
**SHADY HOLLOW 60" ST. D. M.H. AT STA 5+42.78, 5' RT**  
SCALE: 1/2"=1'-0"



**1**  
**CS2.2**  
**SHADY HOLLOW WAY STREET IMPROVEMENTS**  
HORIZONTAL SCALE: 1"=20'-0"  
VERTICAL SCALE: 1"=5'-0"

KEYNOTES FOR THIS SHEET	
MARK	DESCRIPTION
1	NEW CURB AND GUTTER, SEE DETAIL WL-501 AND 2/CS2.2
2	CURB INLET AT SWALES, SEE 5/CS3.0 (TYP), AT STA 6+32.00, STA 6+47.00 AND STA 6+61.00
3	PROVIDE SAWCUT FOR NEW PAVEMENT AND REMOVE EXISTING PAVEMENT. PROVIDE NEW A.C. PAVEMENT SECTION PER 2/CS2.2, SEE ALSO CITY DETAIL WL-203
4	NEW 35' WIDE COMMERCIAL DRIVEWAY AT STA 6+08.31, SEE CITY STANDARD DETAIL WL-504A
5	NEW CURB INLET AT STA 6+68.45, SEE DETAIL WL-600, C.L. RIM = 152.40 I.E. (10") OUT = 148.60
6	NEW 6" CONCRETE SIDEWALK, SEE CITY DETAIL WL-508 AND WL-511
7	ABANDON IN PLACE EXIST 8" CONCRETE CULVERT
8	NEW ST. D. M.H., SEE WL-207 AND WL-605 FOR DETAIL
9	INSTALL 2 1/2" THICK A.C. PAVEMENT CONNECTION PATH OVER 8" MIN. THICK OF 3/4" - 0" COMPACTED BASE ROCK OVER GEOTEXTILE FABRIC AT SUBGRADE. PROVIDE HOT ASPHALT SEAL AND SANDED FINISH OVER JOINT TO NEW AND EXIST A.C. EDGES
10	SEE SHT CS2.1 FOR NEW ST. D. IMPROVEMENTS AT INTERSECTION.
11	123 L.F. OF 12" DIA PVC ASTM 3034, SDR 35, ST. D. PIPE AT 0.7% SLOPE
12	INSTALL STREET LIGHT POLE AND LUMINAIRE ALONG SHADY HOLLOW DRIVE PER PGE REQUIREMENTS, SEE ILLUMINATION PLAN. (STA 6+31, 16.5' LT)
13	INSTALL 30" x 30" YELLOW RIGHT TURN ARROW SIGN WITH V-LOK BREAK-AWAY SYSTEM SIM TO MUTCD SIGN W1-1R AND W13-1 AT STA 6+28.80, 14.5' LT. SEE WL-519 FOR V-LOK DETAIL.
14	NEW 37 FT LONG (BOTTOM) STORMWATER SWALE, SEE 3/CS3.0 FOR TYPICAL SECTION AND 4/CS3.0 FOR CHECK DAMS.
15	NEW 6" DIA PVC SCHEDULE 40 S.S. LATERAL, CONNECT TO EXISTING 8" CONCRETE SANITARY LINE, SEE DETAIL WL-218, SCHEME 1 AND ONSITE DRAWINGS FOR CONTINUATION. APPROX I.E. (6") IN = 137.62



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**SHADY HOLLOW VILLAGE**  
**SHADY HOLLOW AND WILLAMETTE DRIVE**  
**WEST LINN, OREGON**

**PROJECT NUMBER: 1335**

**DRAWING DATE BY**

**DESIGN**  
20 NOV 2013 SCS  
11 FEB 2014 SCS

**DES REV**  
12 MAR 2014 SCS

**PERMIT**  
22 AUG 2014 SCS

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21 OCT 2014 CGP  
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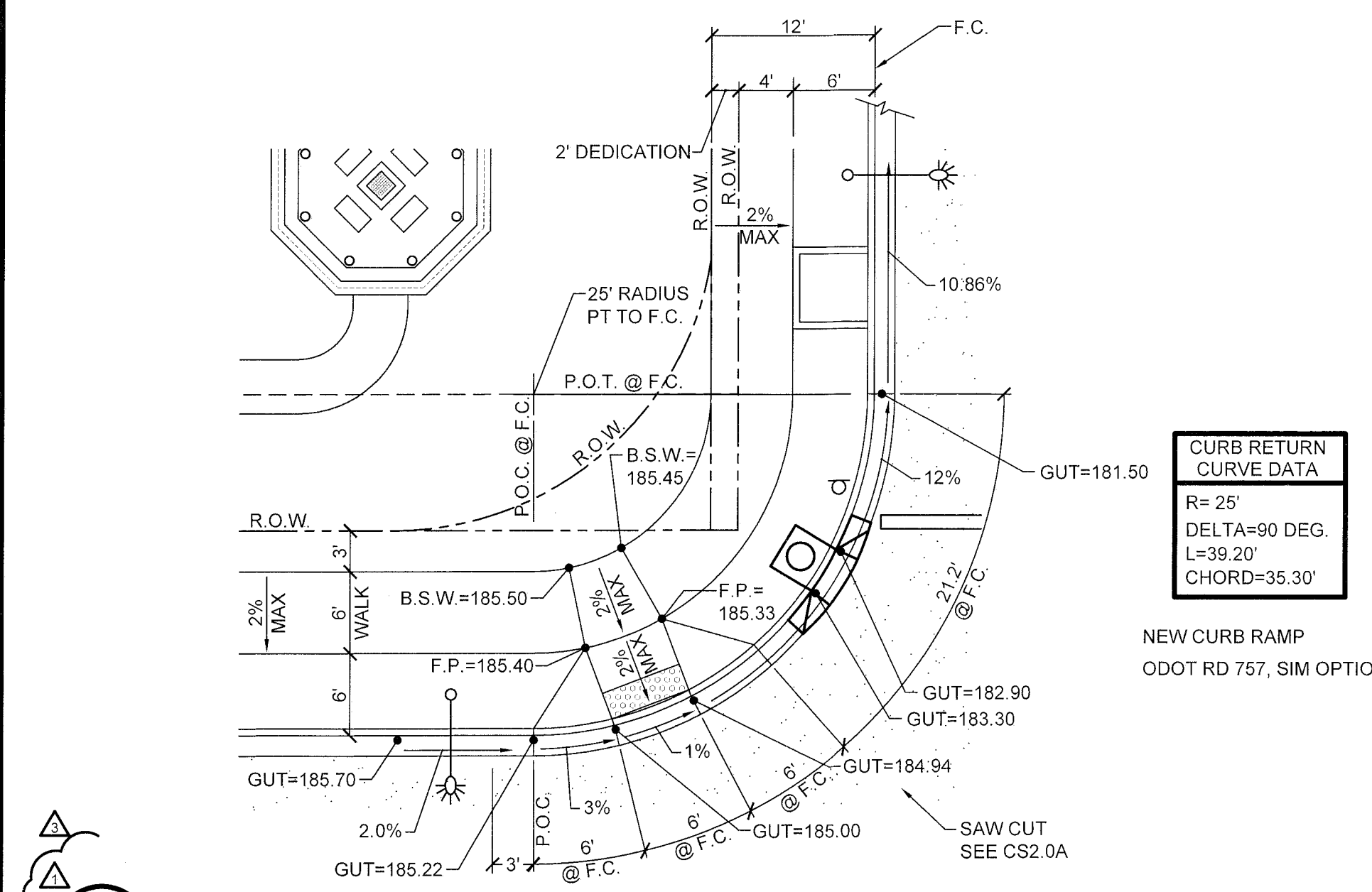
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**SHEET #**

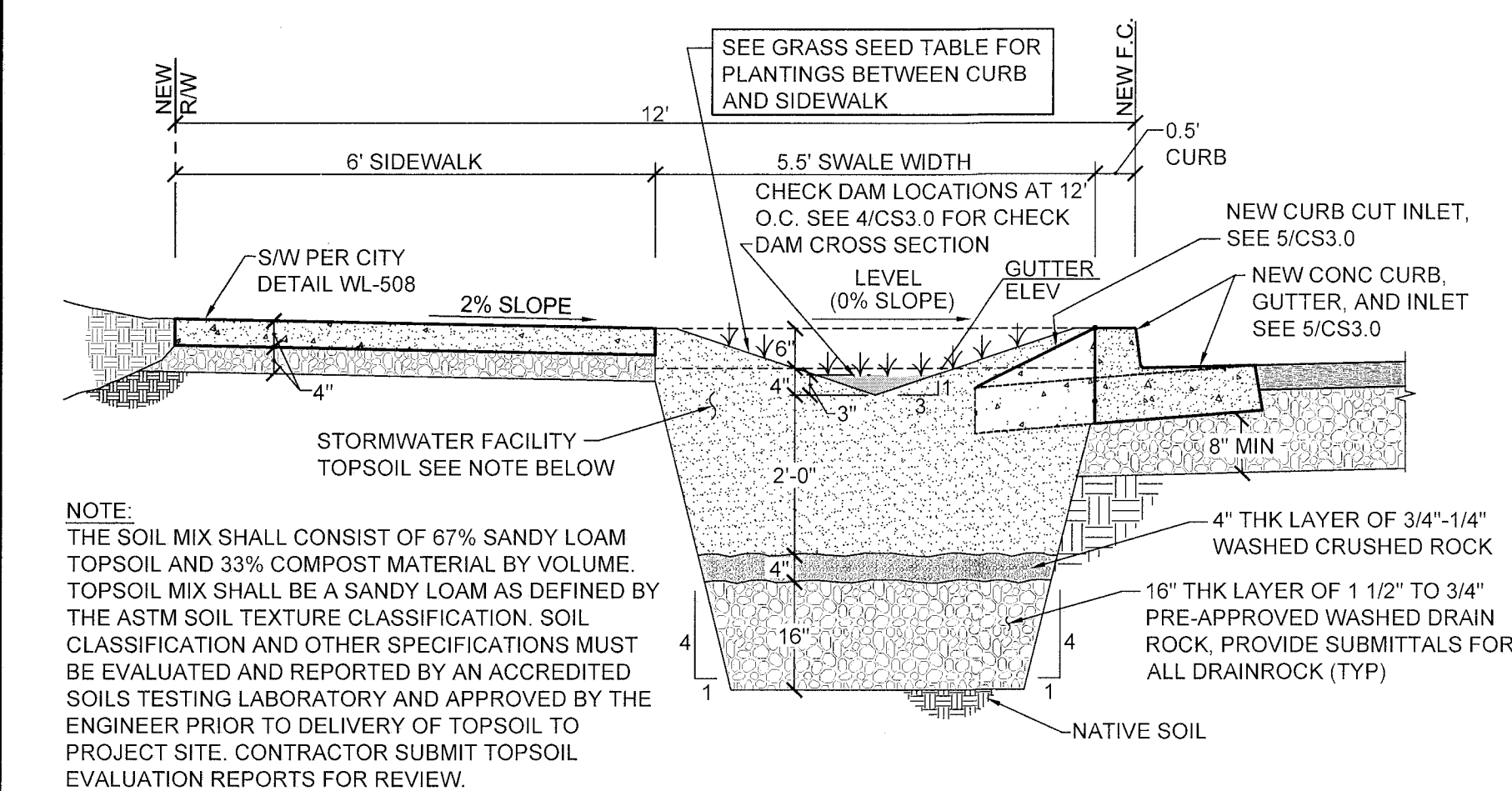
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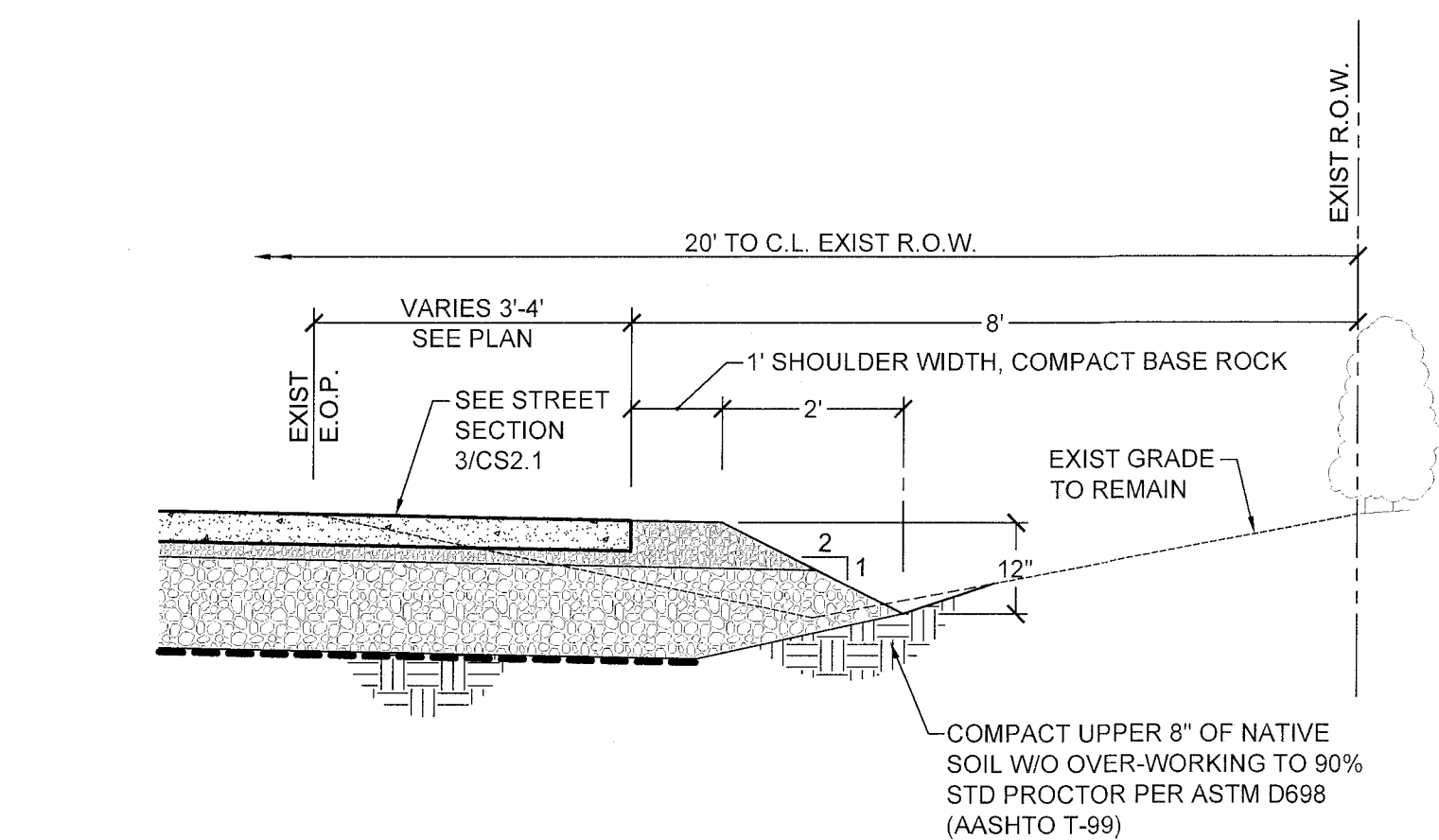




**1** OR43 AND SHADY HOLLOW WAY CURB RETURN AND RAMP (N.E. CORNER)  
1" = 10'-0"



**3** TYPICAL STREET SWALE SECTION  
1/2" = 1'-0"

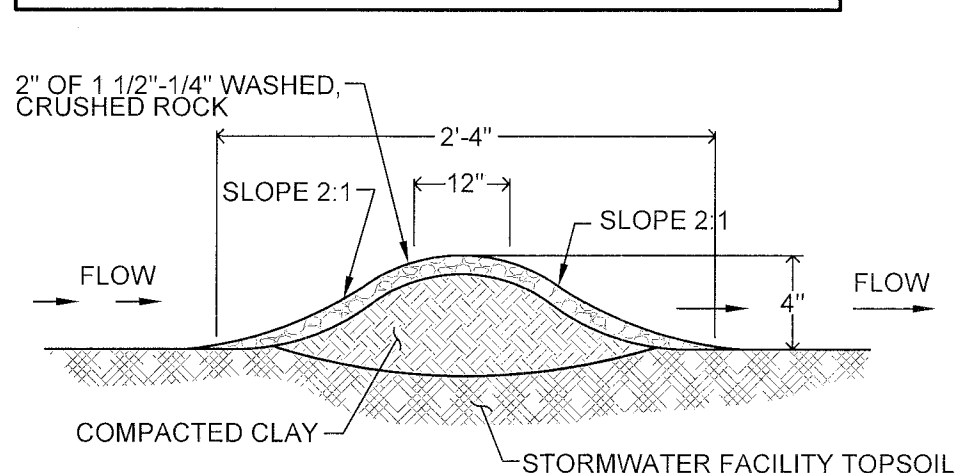


**6** TYPICAL STREET DITCH SECTION  
1/2" = 1'-0"

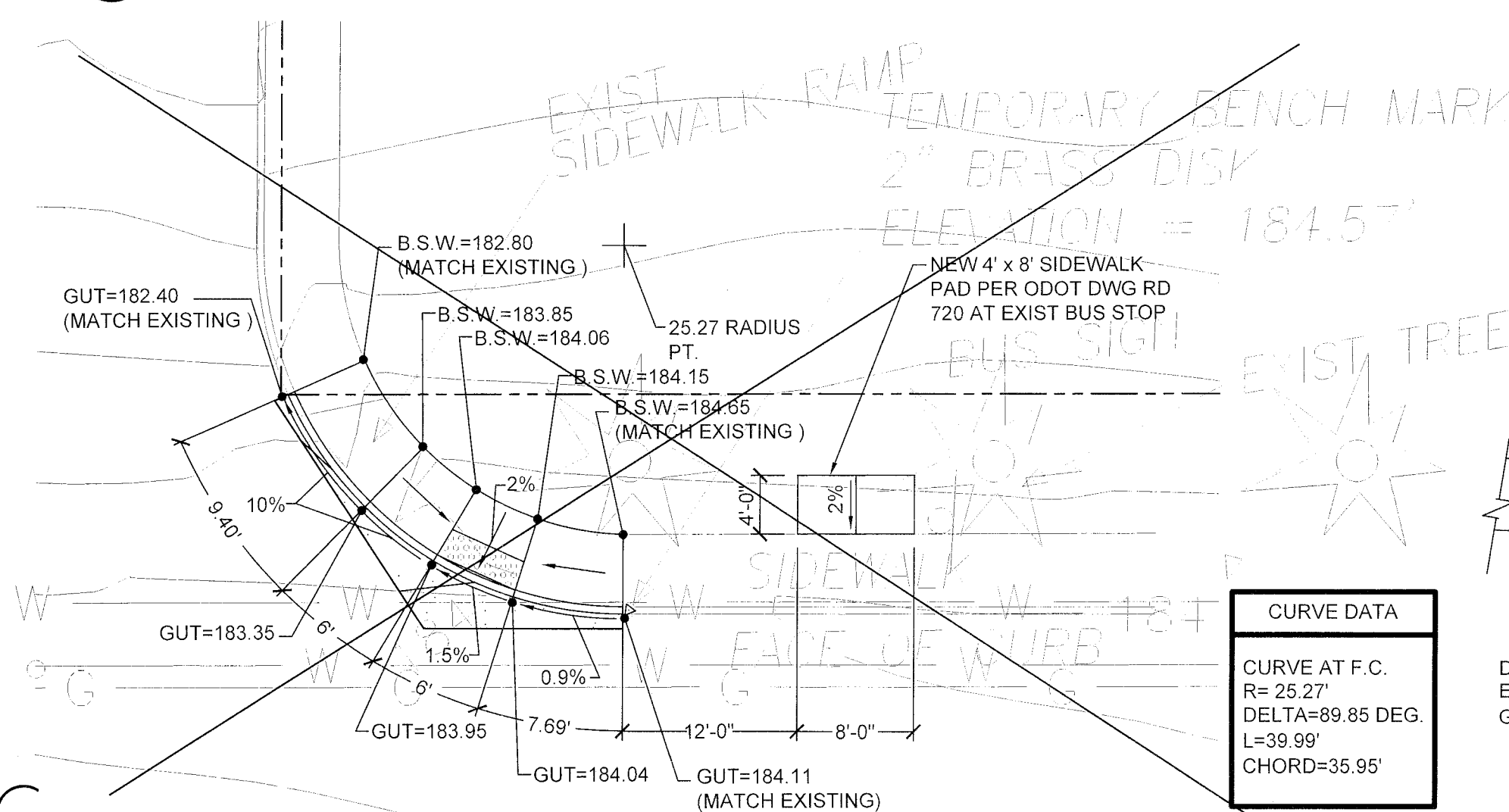
CURB RETURN CURVE DATA
R=25'
DELTA=90 DEG.
L=39.20'
CHORD=35.30'

NEW CURB RAMP  
ODOT RD 757, SIM OPTION "L"

SWALE GRASS SEED PLANTING	
HORDEUM BRACHYANTHERUM (MEADOW BARLEY)	25%
ELYMUS GLAUCUS (BLUE WILD RYE)	25%
BROMUS CARINATUS (CALIFORNIA BROME)	10%
FESTUCA ROMERII (ROEMER'S FESCUE)	10%
DESCHAMPSIA CESPITOSA (TUFTED HAIRGRASS)	10%
AGROSTIS EXARATA (SPIKE BENTGRASS)	10%
ALOPECURUS GENICULATUS (WATER FOXTAIL)	5%
DESCHAMPSIA ELONGATA (SLENDER HAIRGRASS)	5%

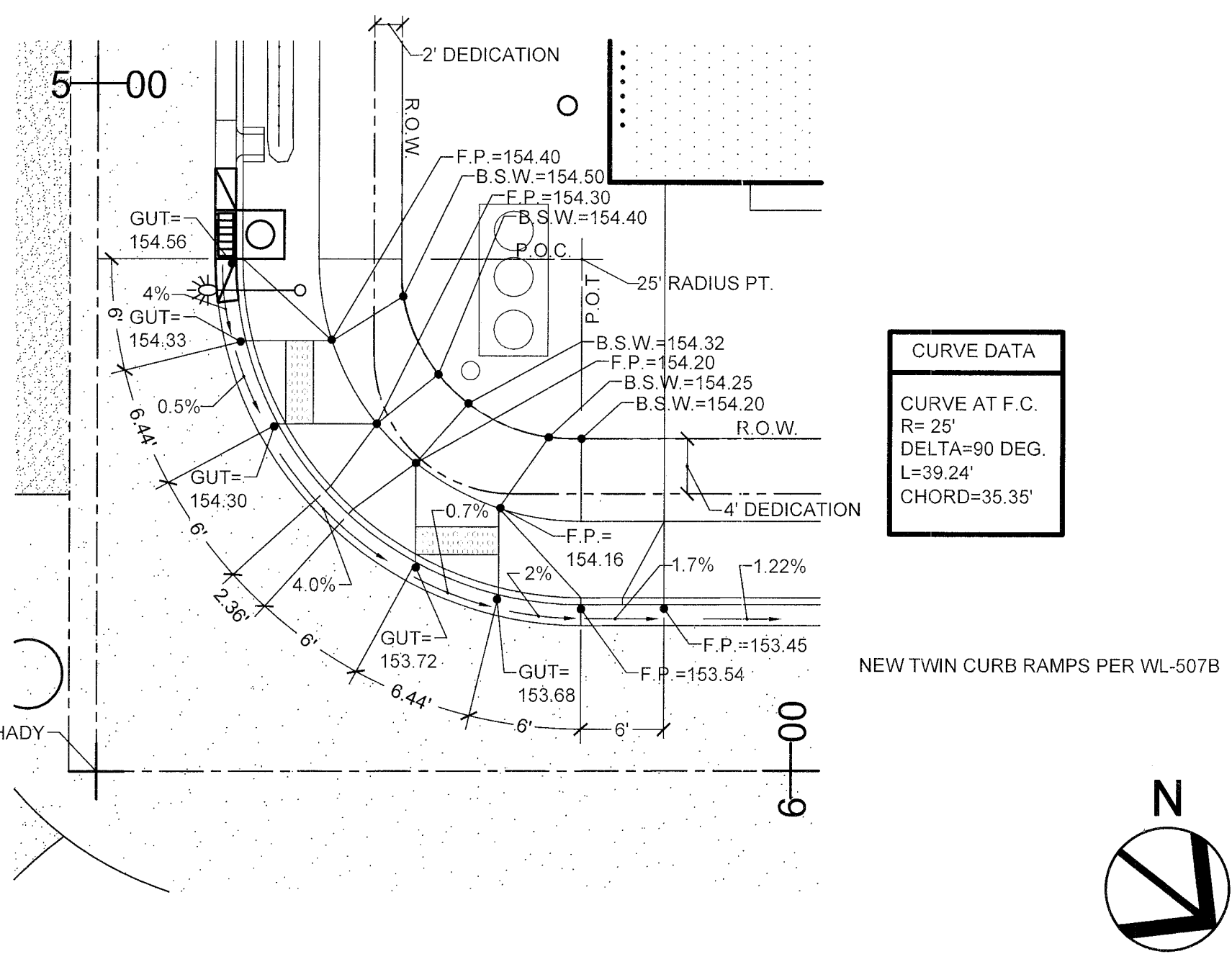


**4** SWALE CHECK DAM DETAIL  
N.T.S.



**7** BURGERVILLE CURB RAMP - ODOT STD DWG RD 757, OPTION K  
(SE CORNER OF OR43 AND SHADY HOLLOW WAY)  
1" = 10'-0"

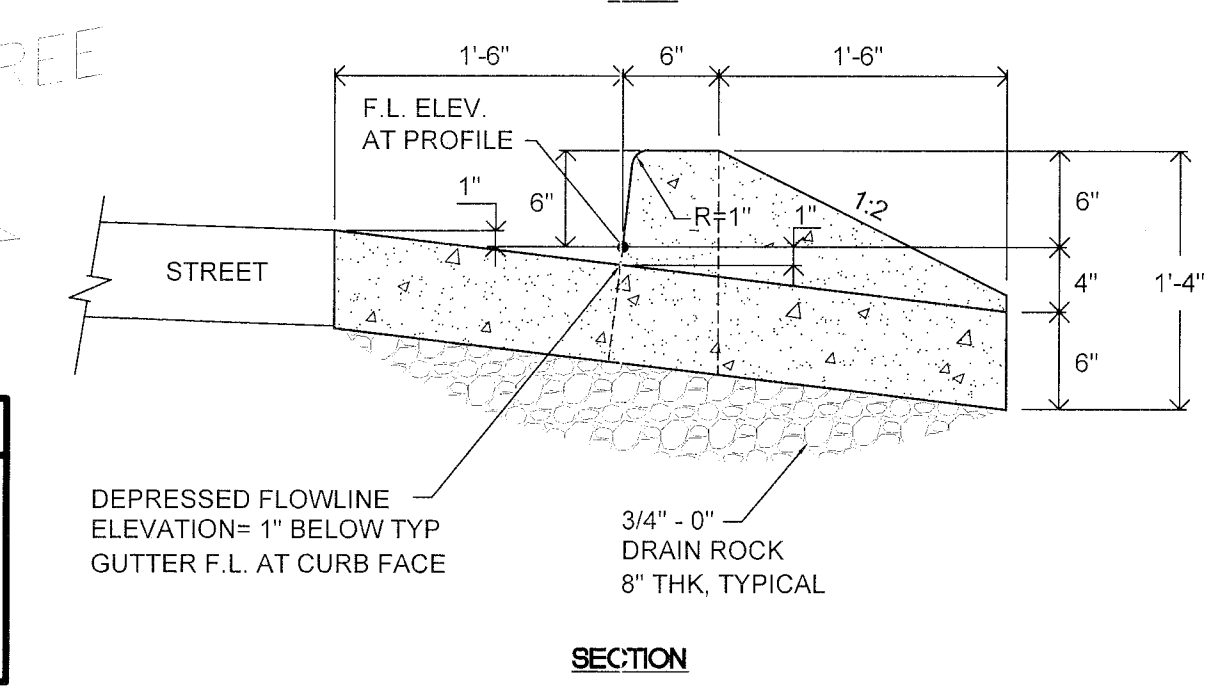
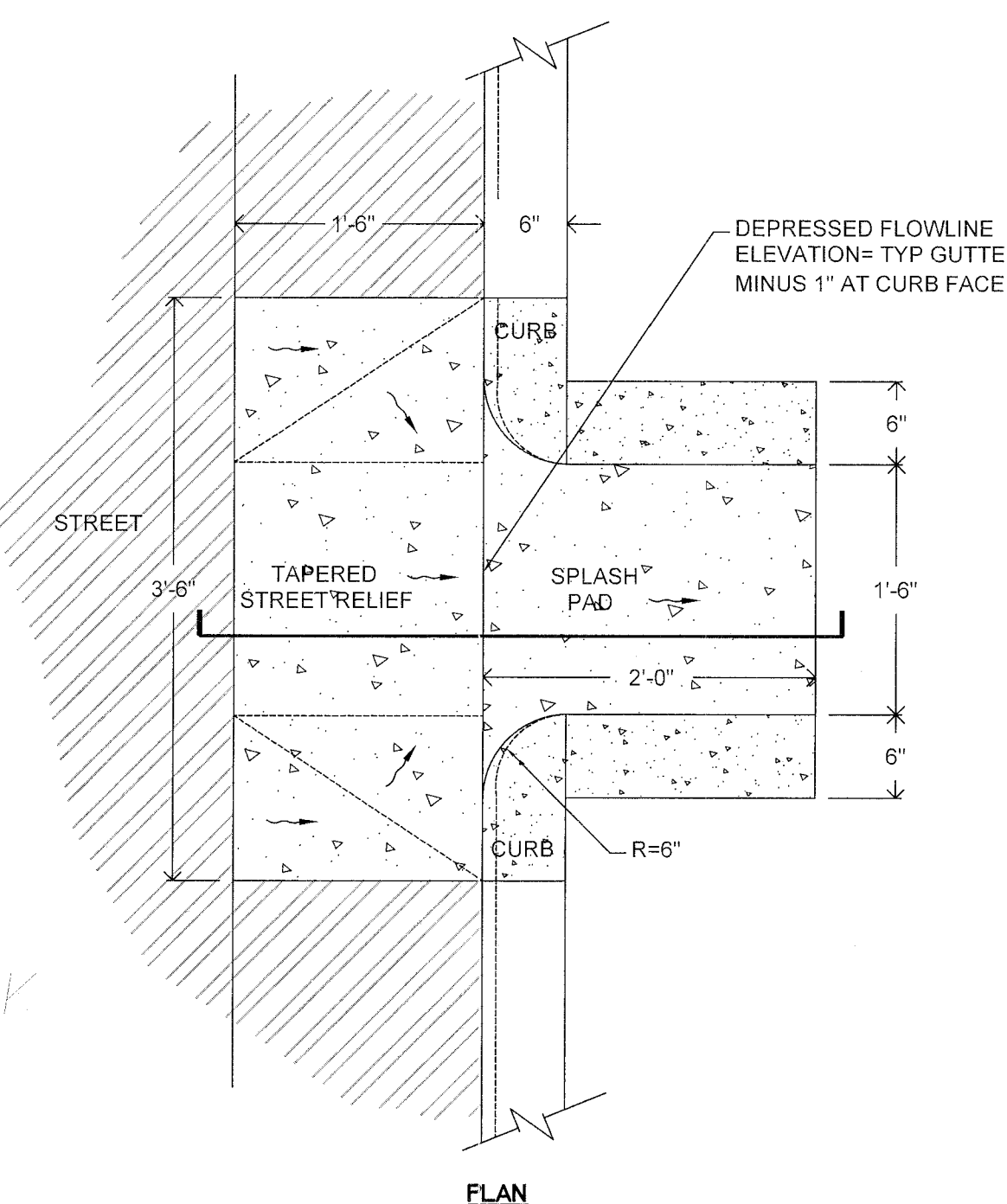
NOT CONSTRUCTED  
"FOR FUTURE"



**2** SHADY HOLLOW WAY CURB RAMP  
1" = 10'-0"

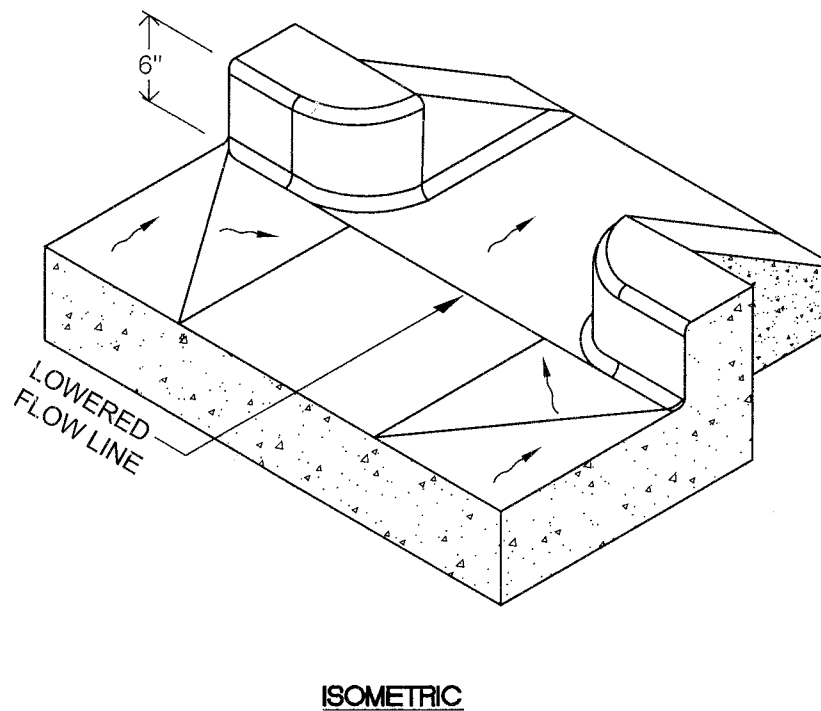
CURVE DATA
CURVE AT F.C.
R=25'
DELTA=90 DEG.
L=39.24'
CHORD=35.35'

NEW TWIN CURB RAMPS PER WL-507B



**5** CURB INLET AT SWALES  
1" = 1'-0"

CURVE DATA
CURVE AT F.C.
R=25.27'
DELTA=89.85 DEG.
L=39.99'
CHORD=35.95'



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SHADY HOLLOW AND WILLAMETTE DRIVE  
WEST LINN, OREGON

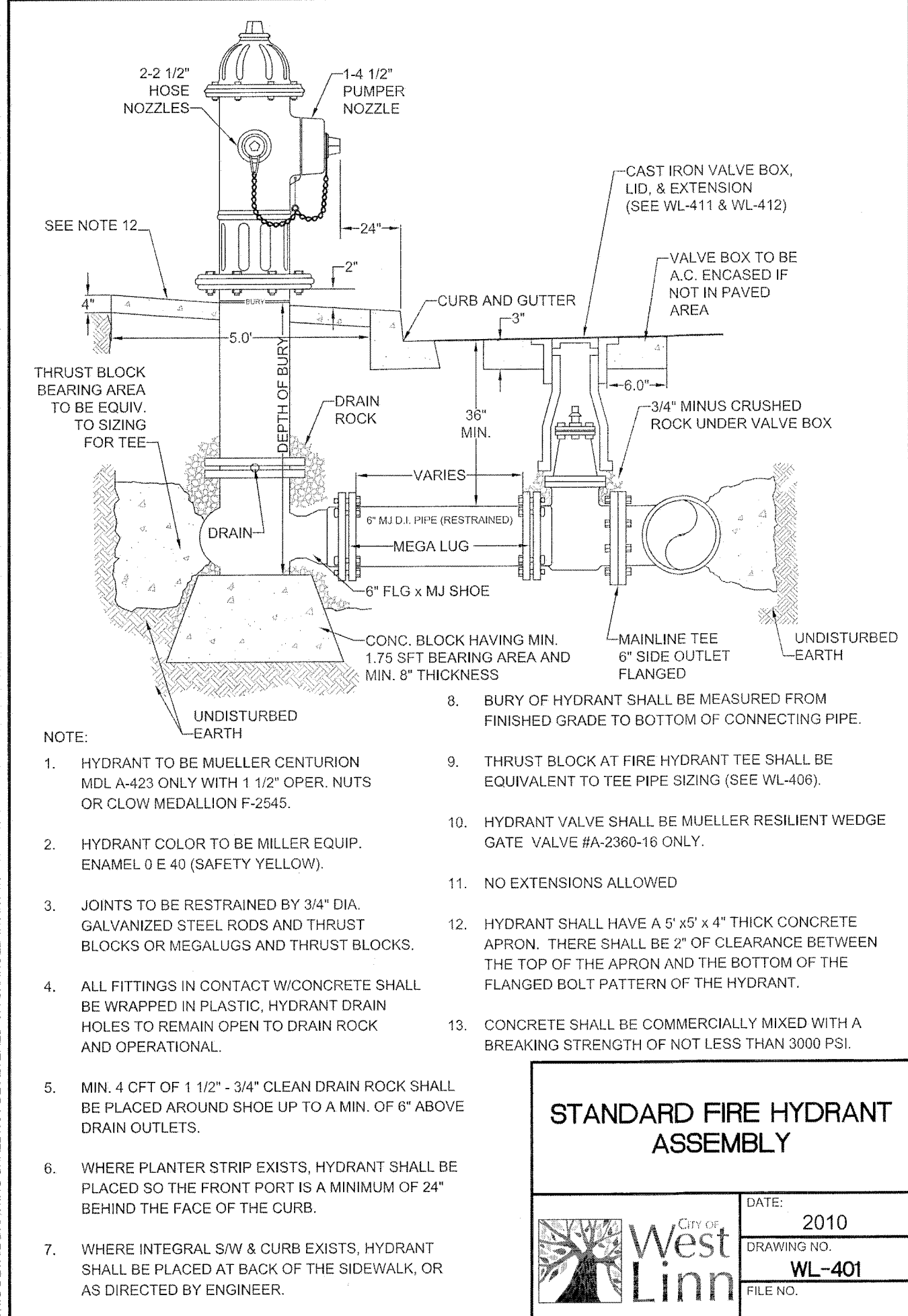
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	11 FEB 2014	SGS
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	12 MAR 2014	SGS
PERMIT		
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PLAN CHECKS		
▲	21 OCT 2014	CGP
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SHEET #  
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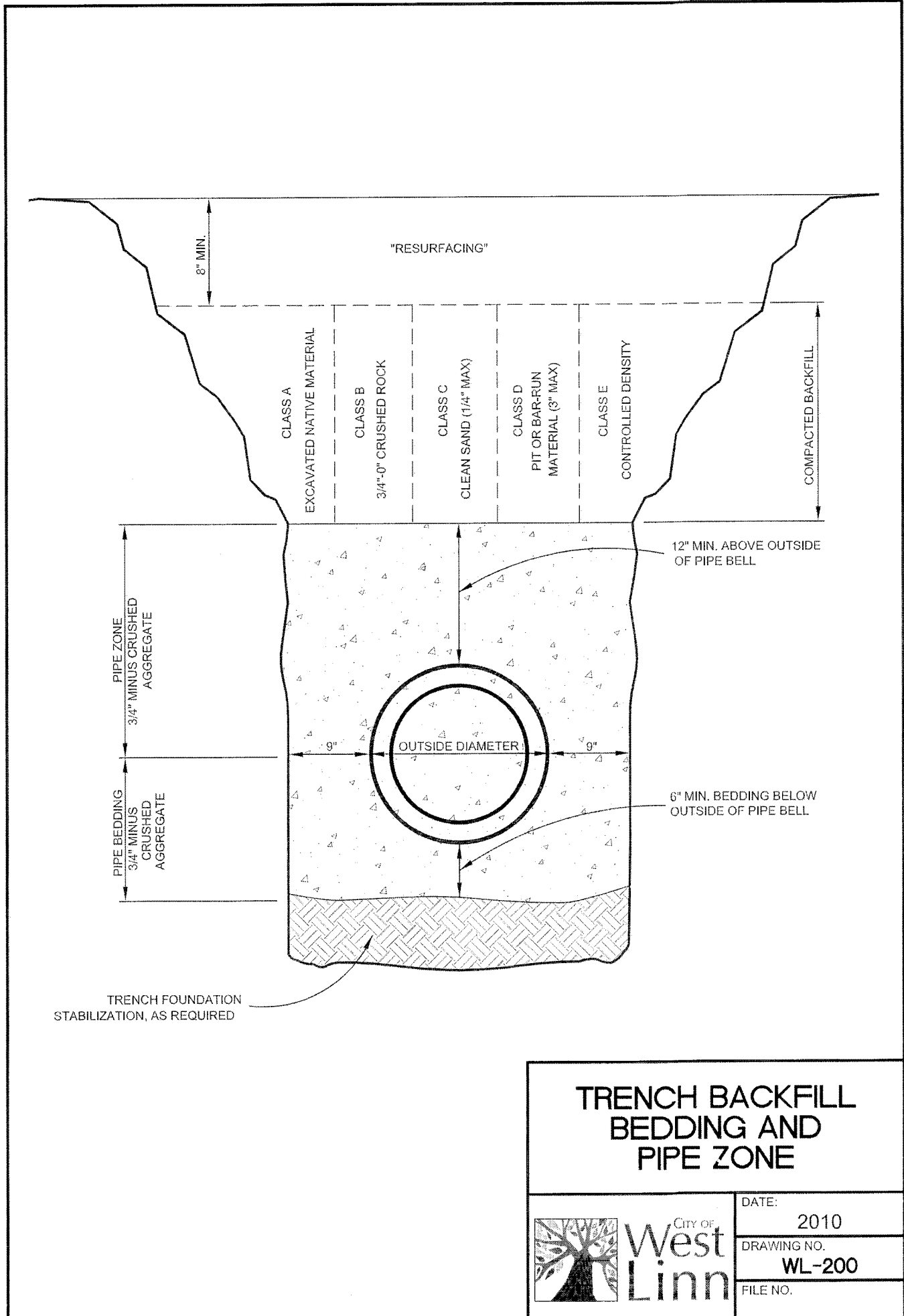
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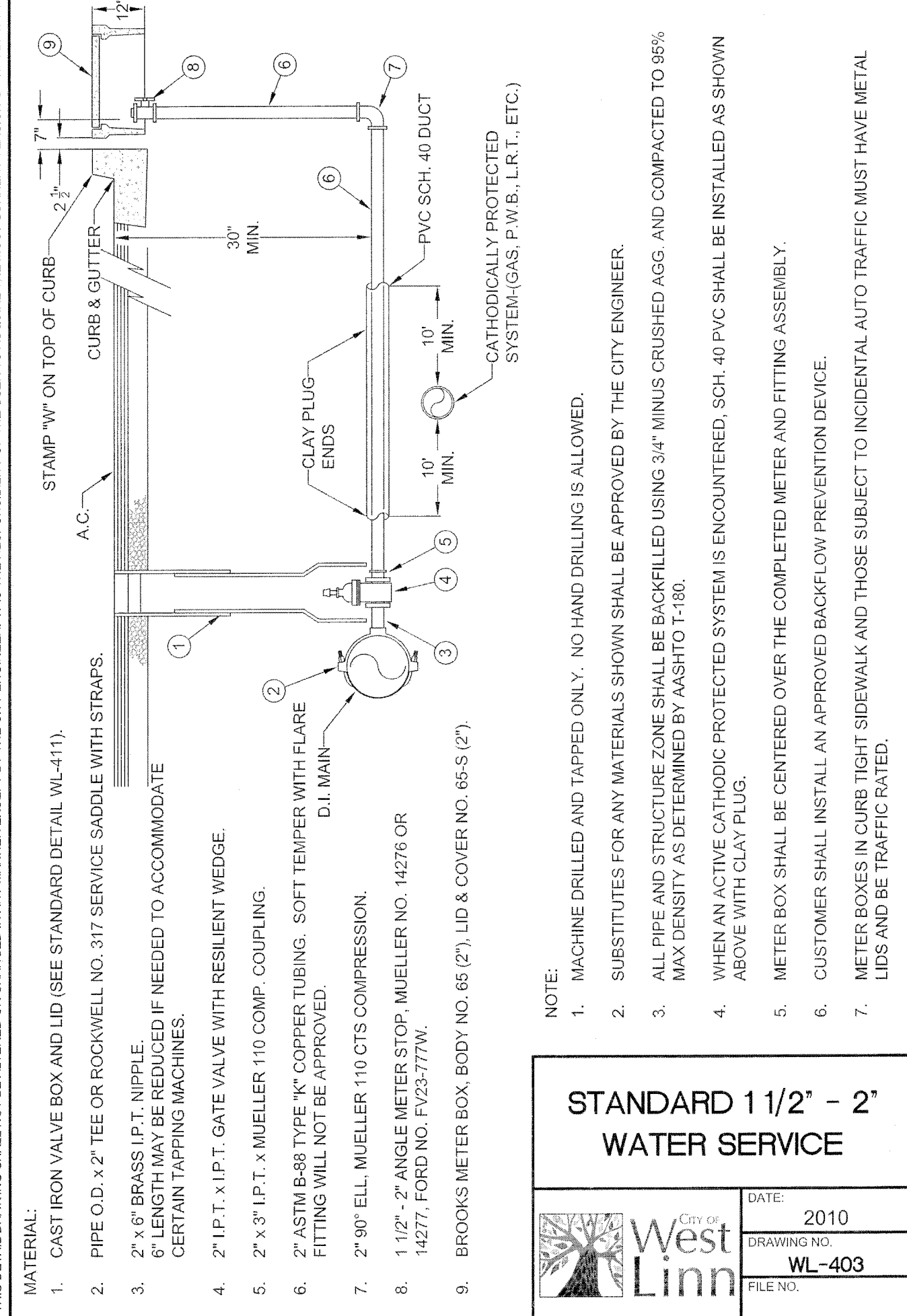
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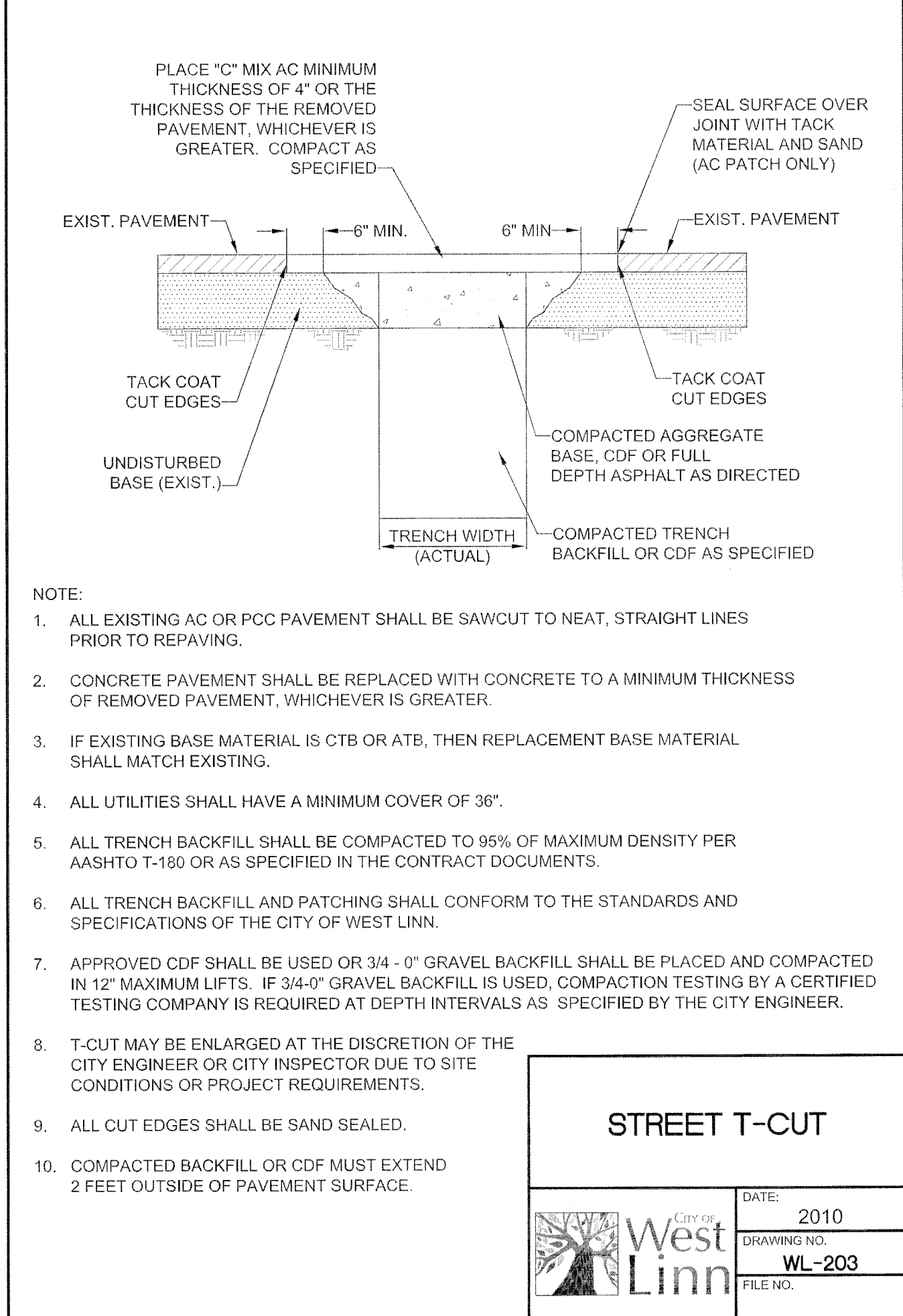
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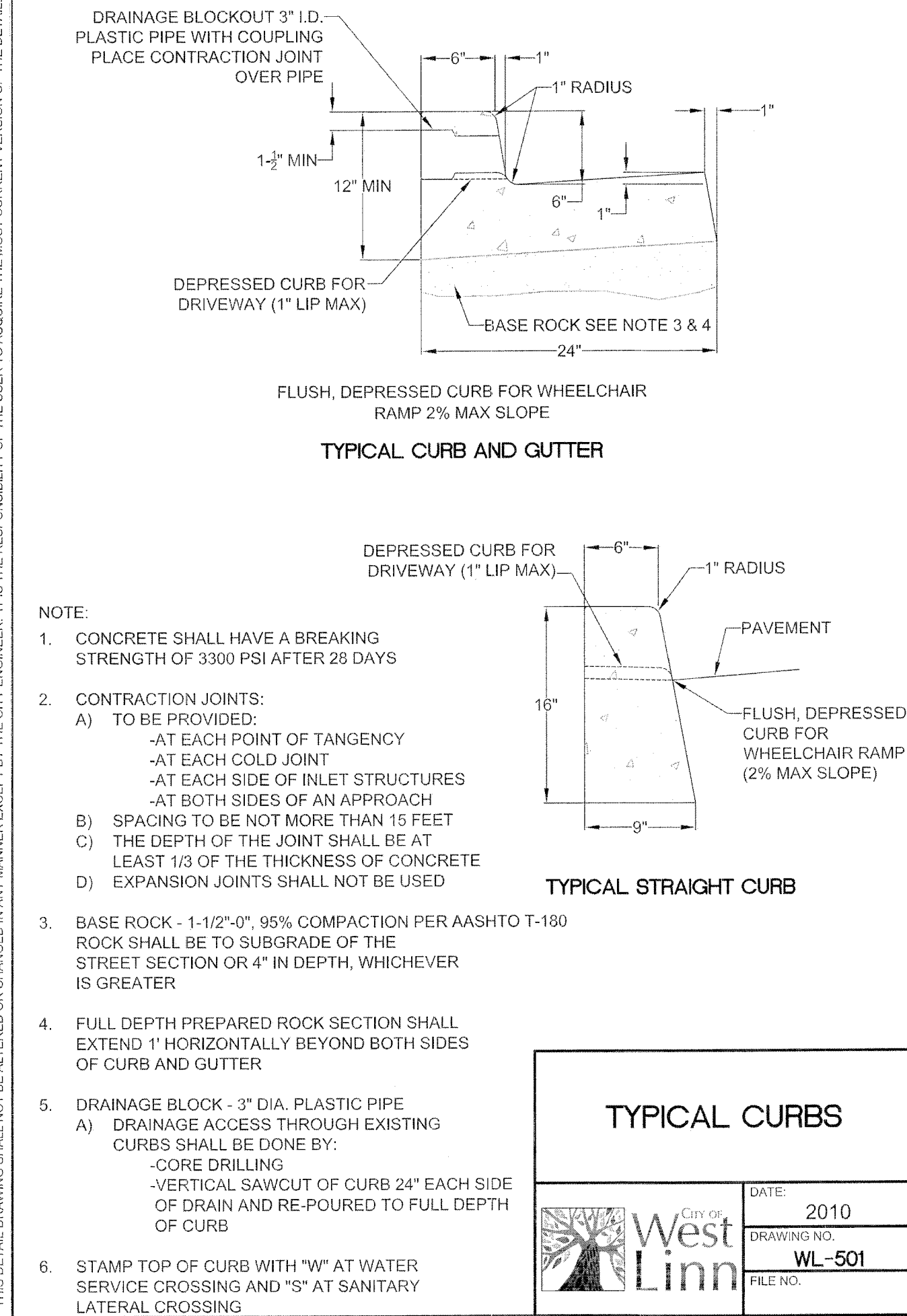
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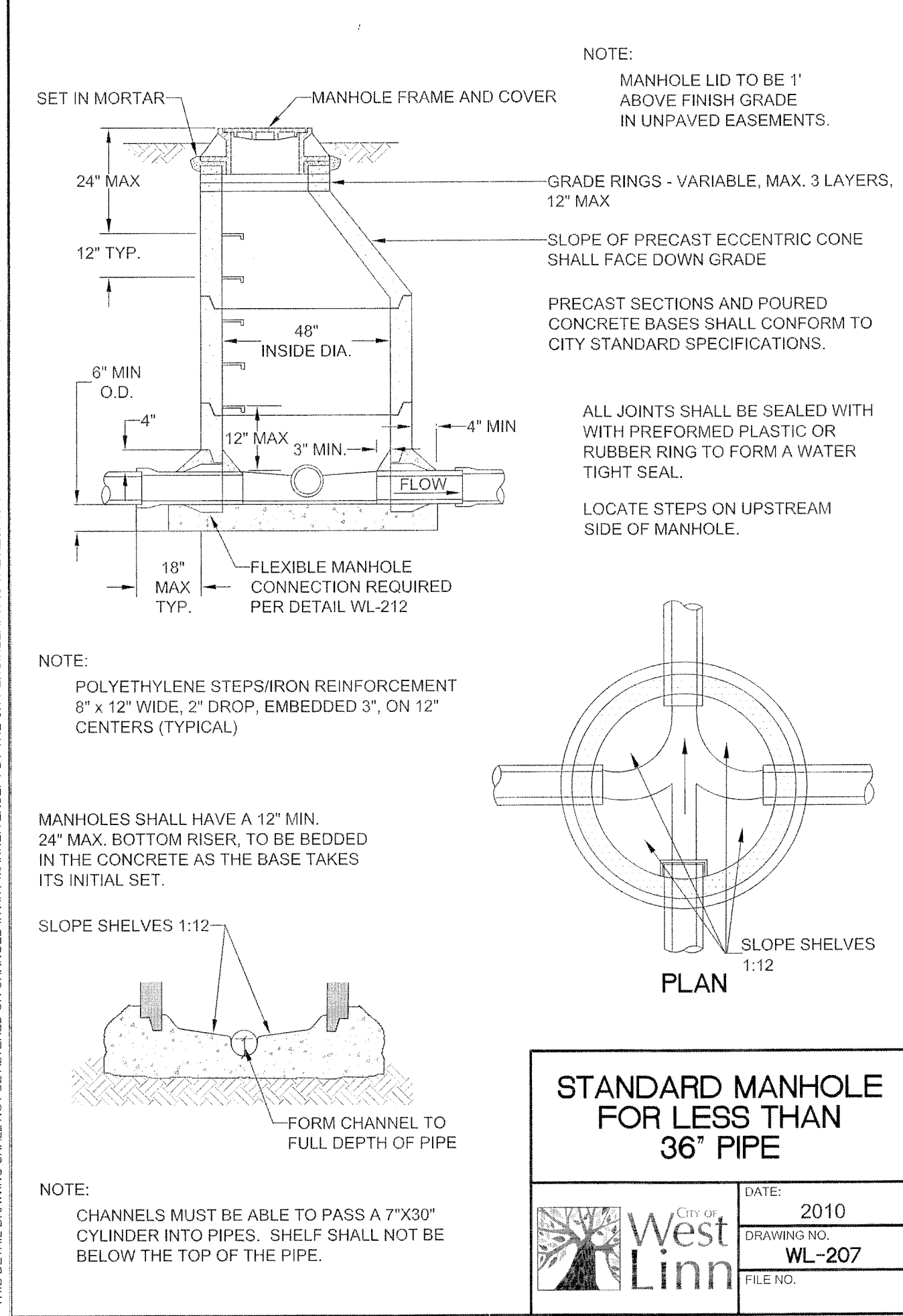
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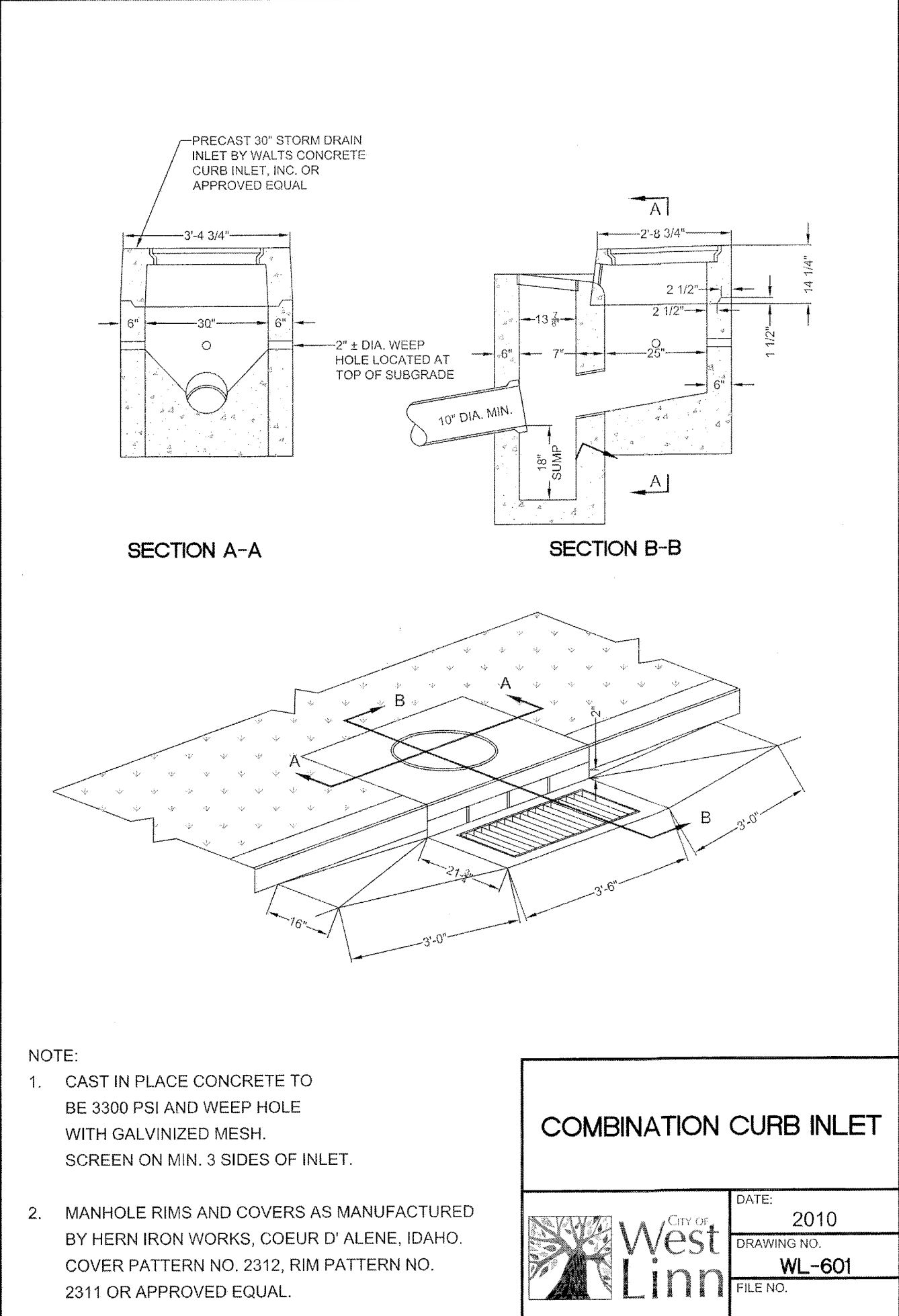
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**WEST LINN, OREGON**

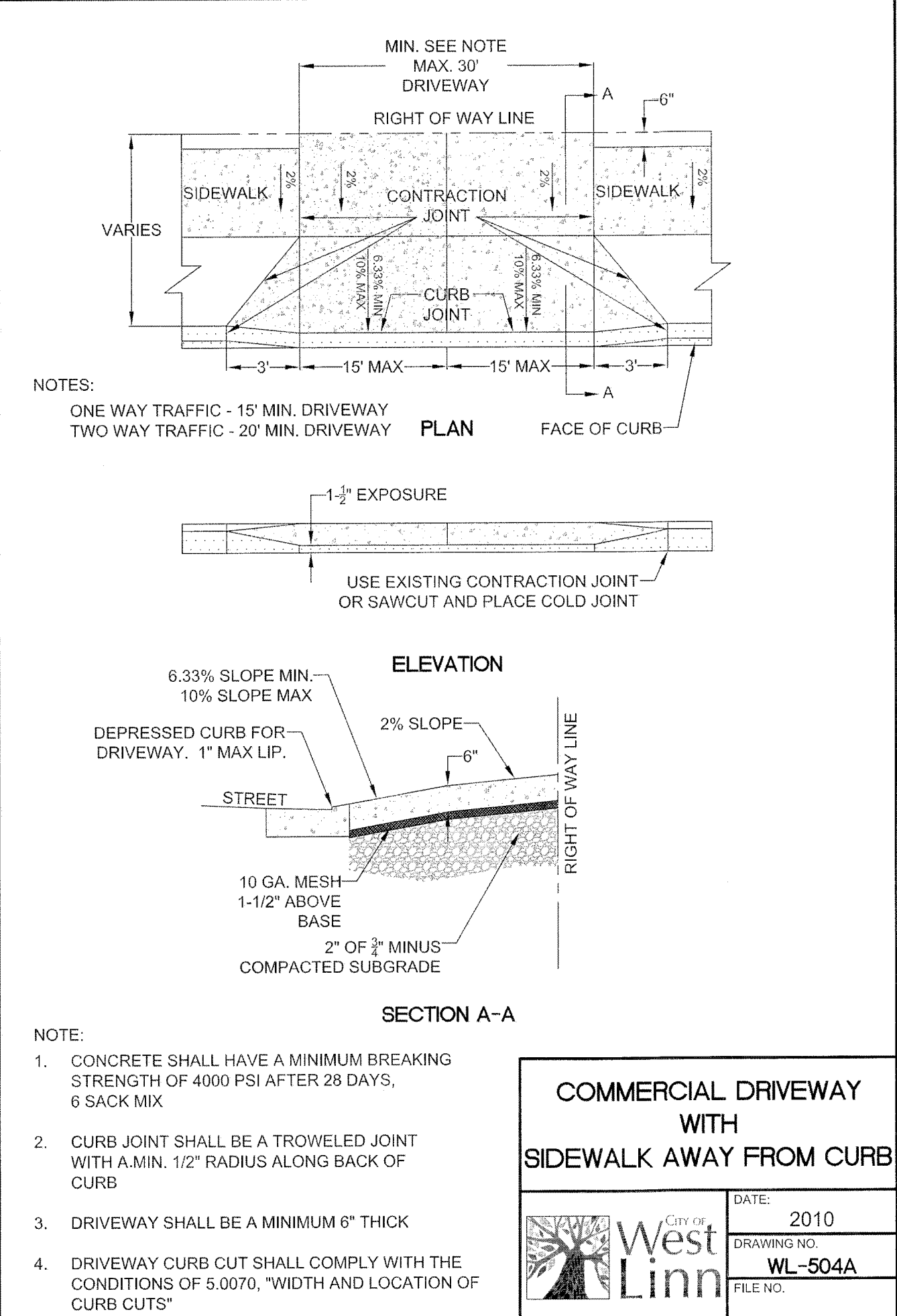
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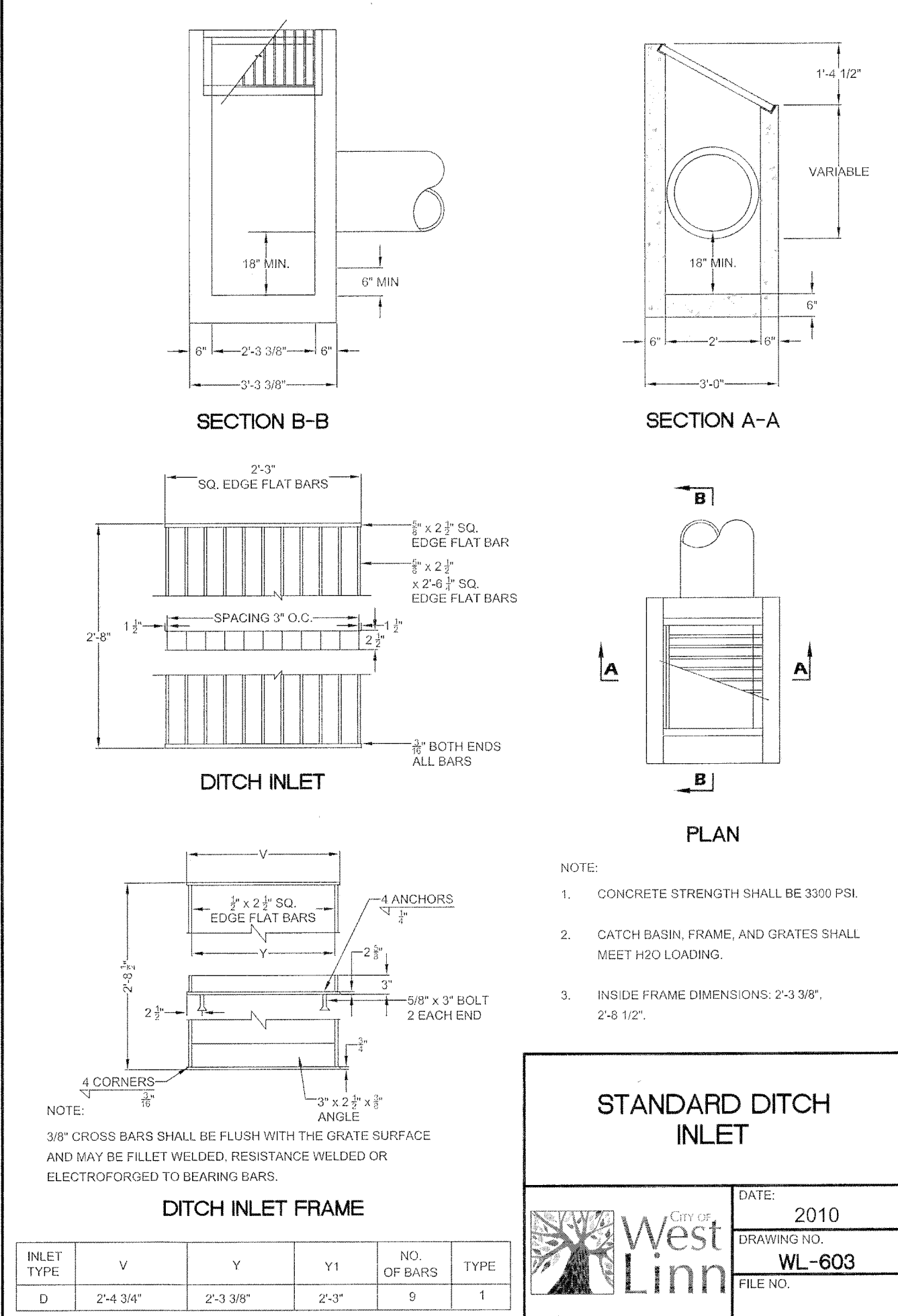
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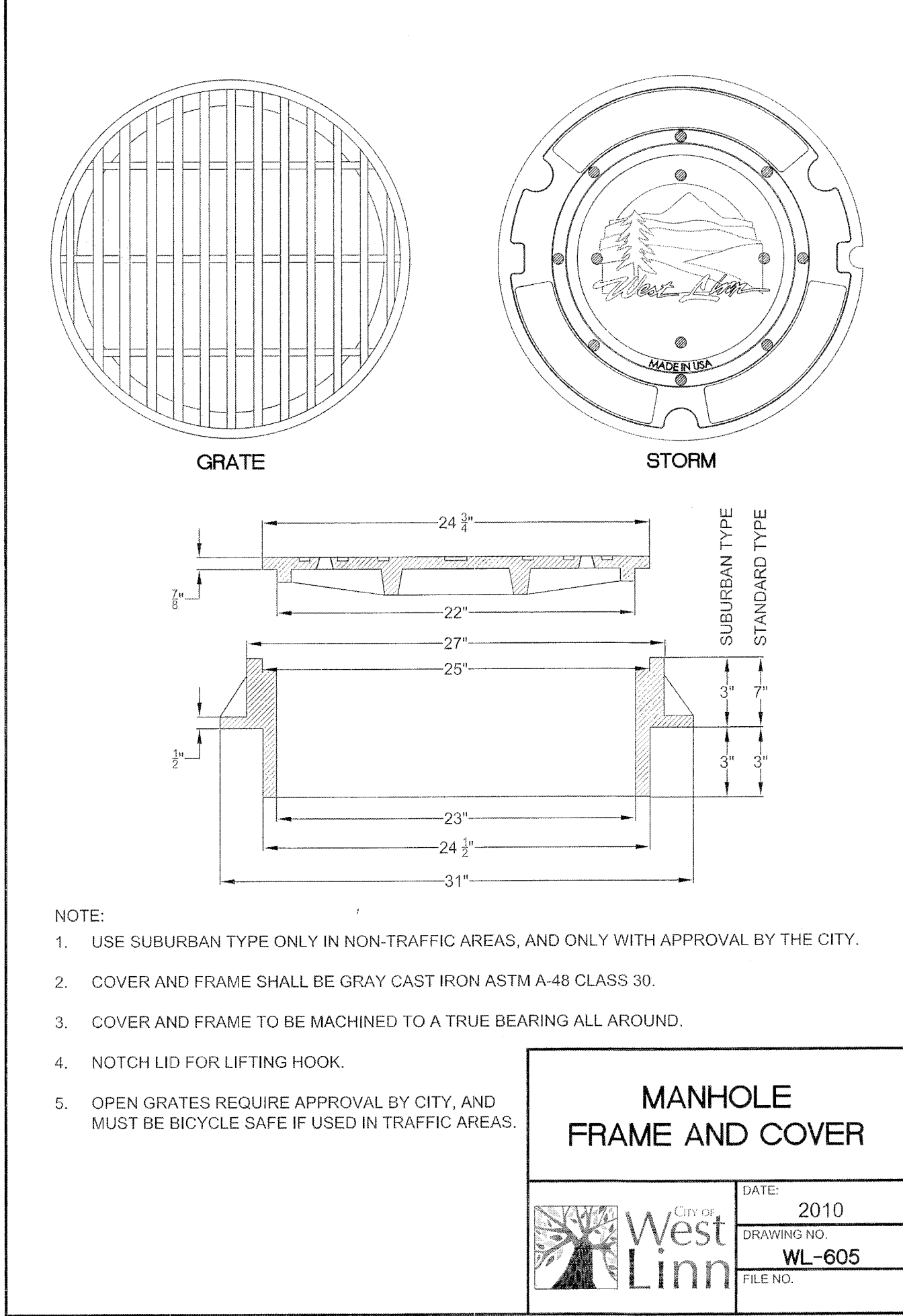
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SHEET TITLE  
CIVIL DETAILS

SHEET #  
CS3.2

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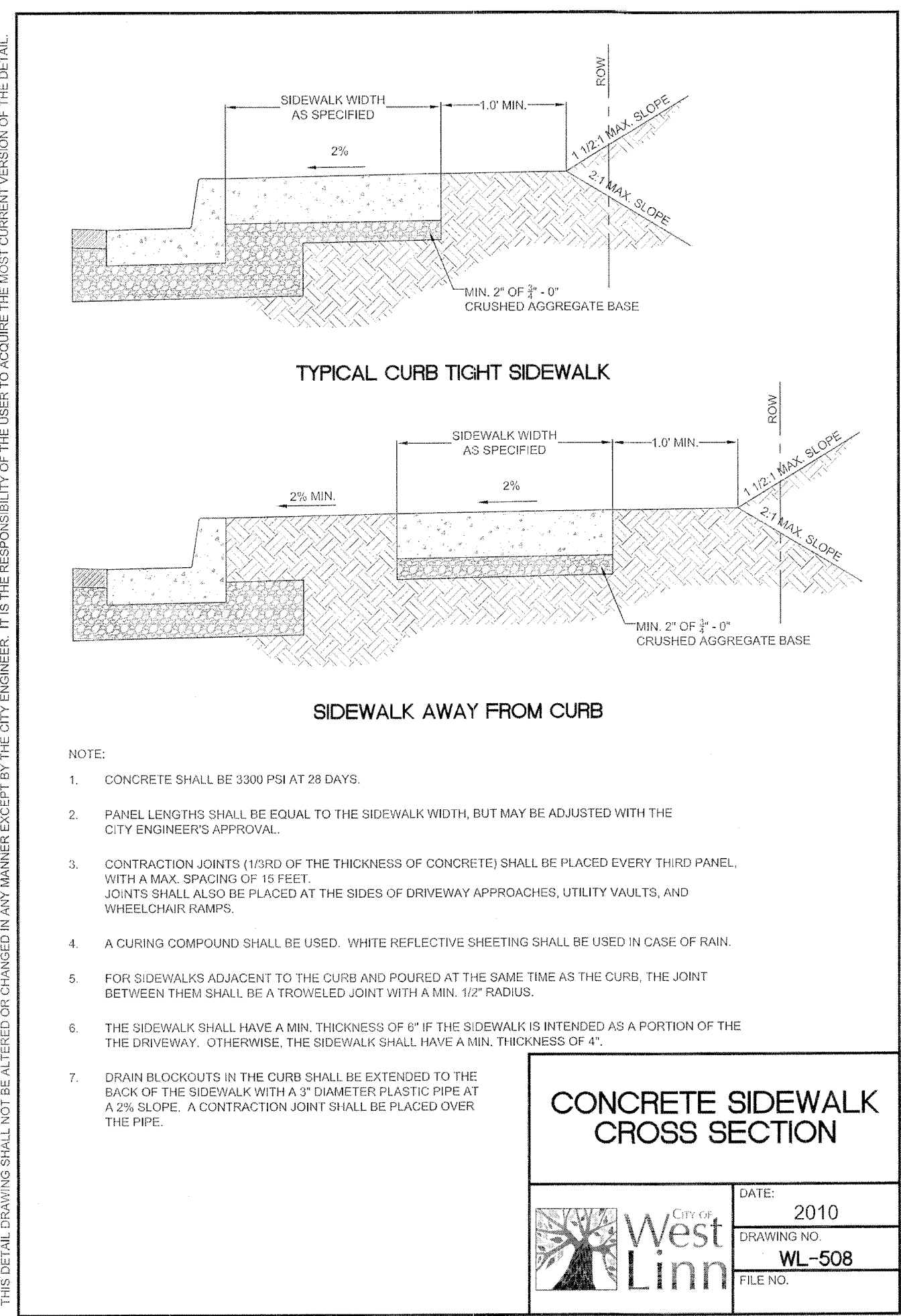
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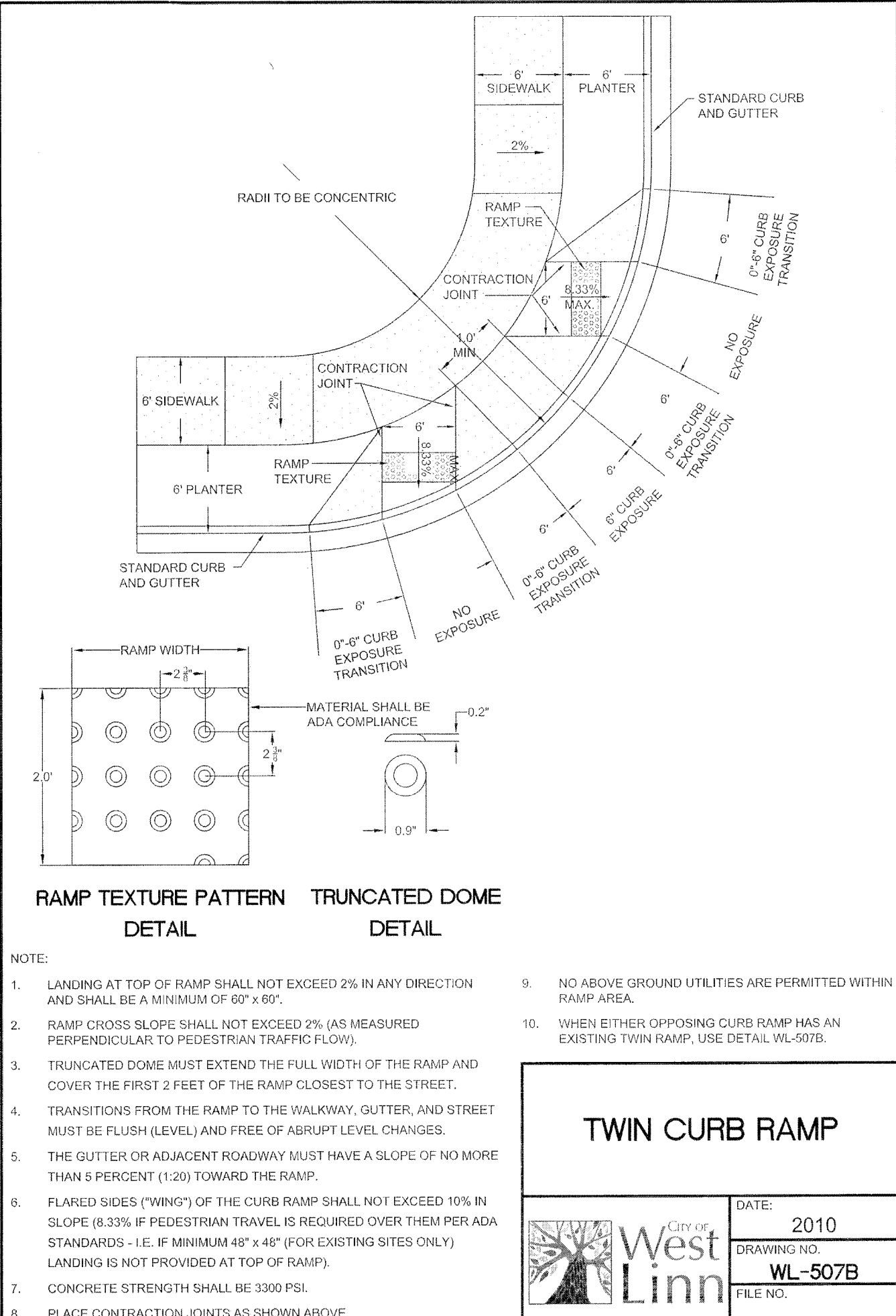
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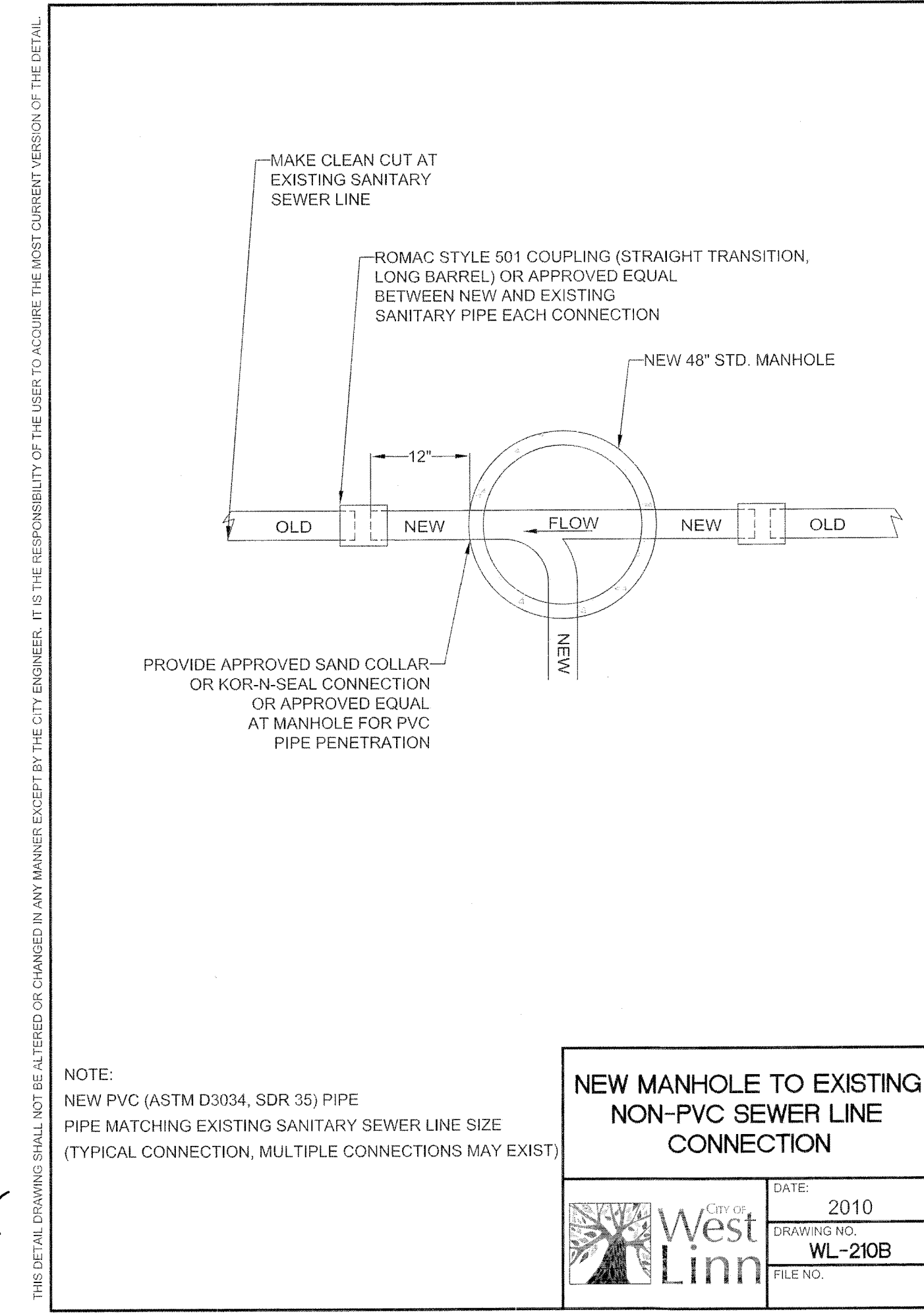
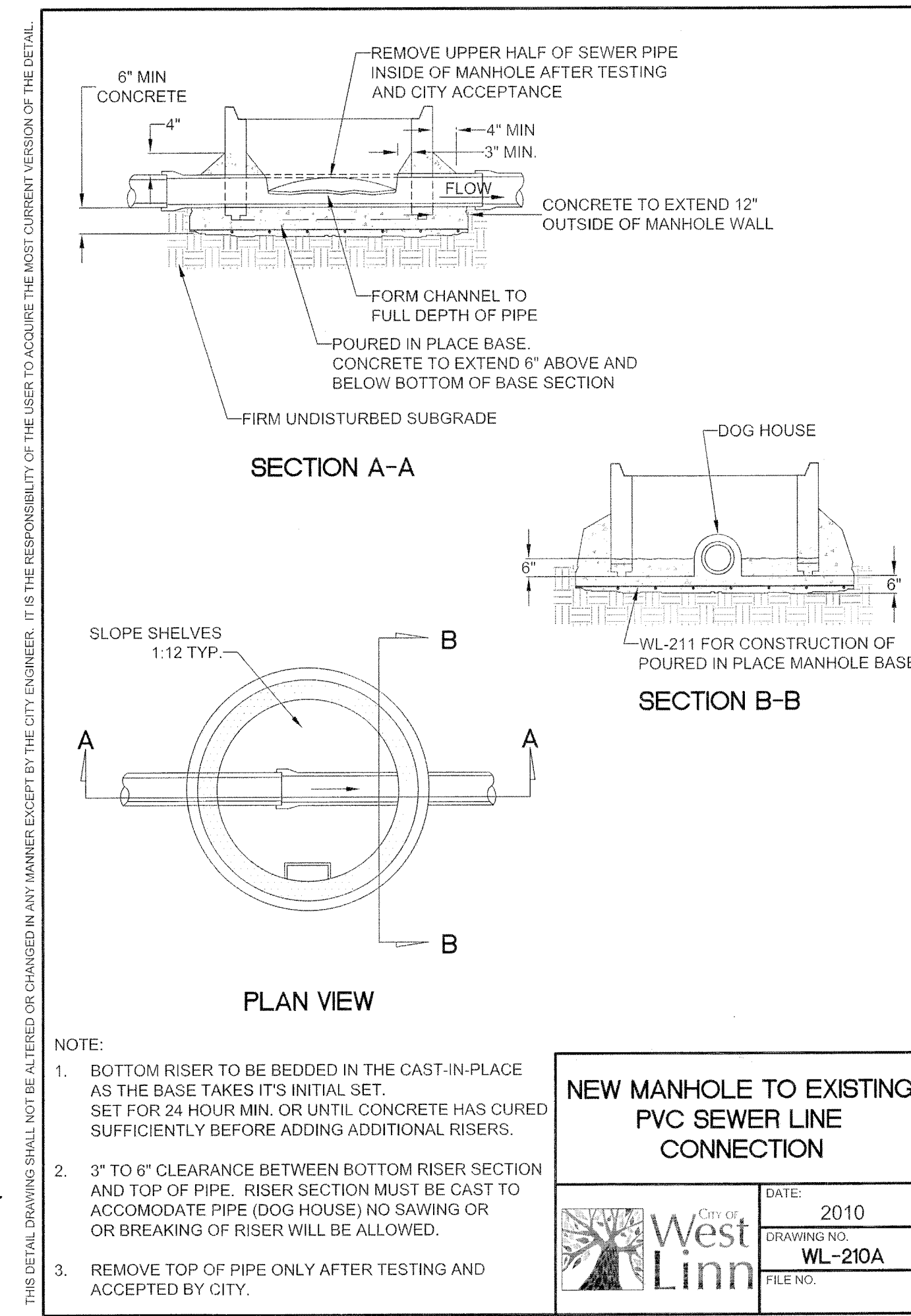
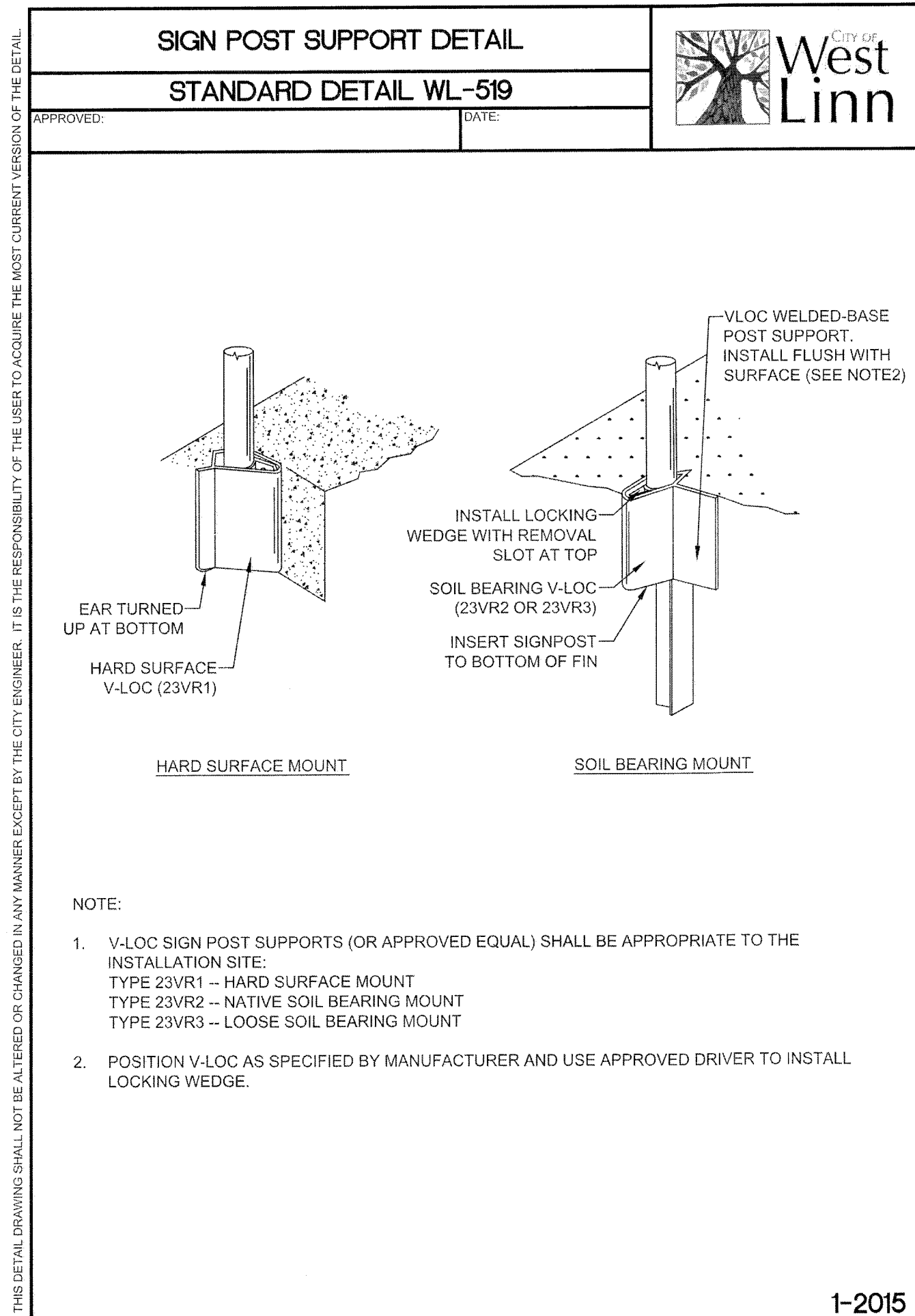
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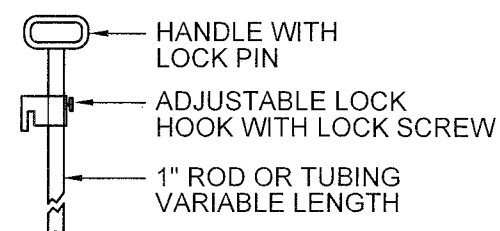
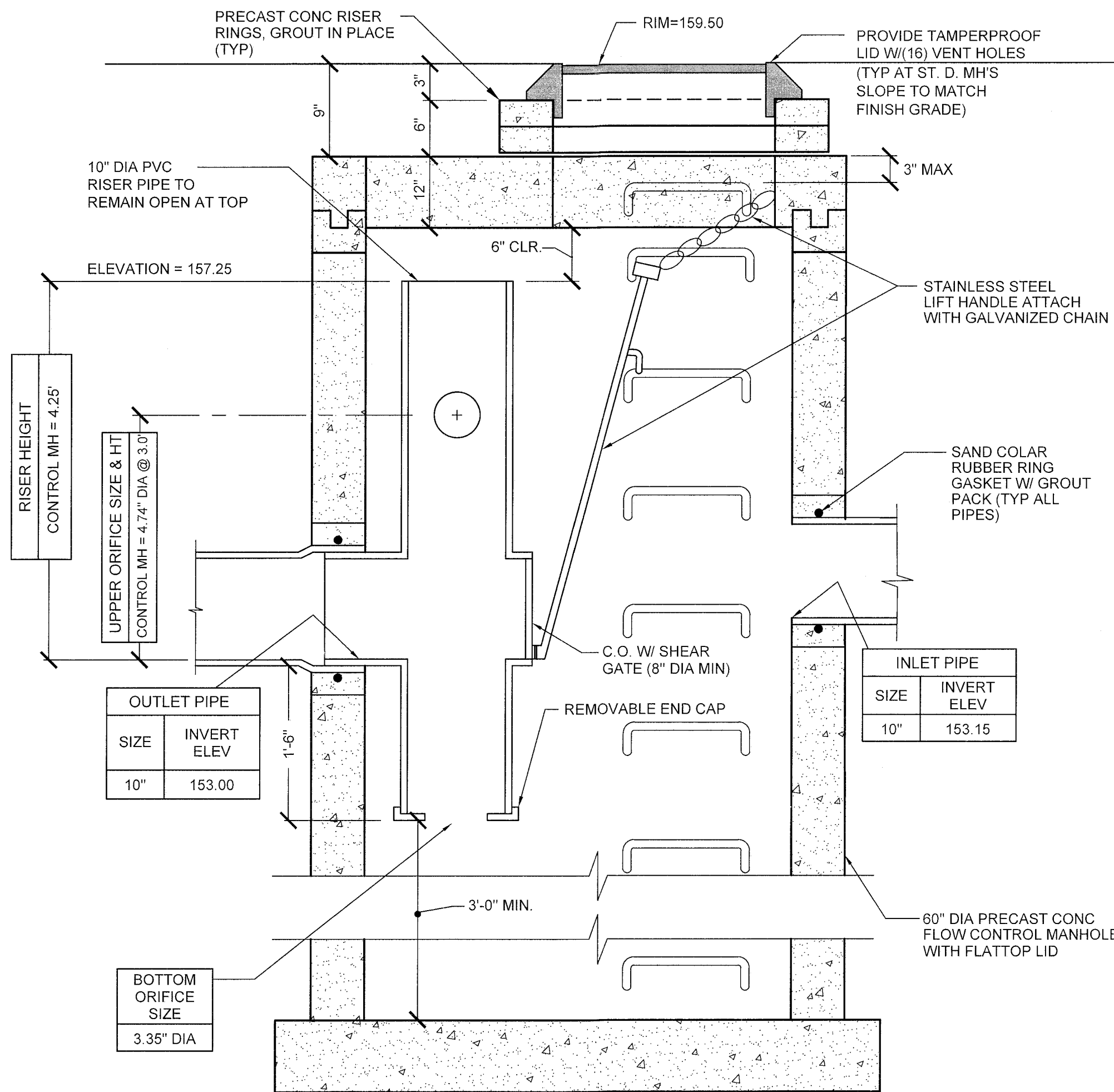




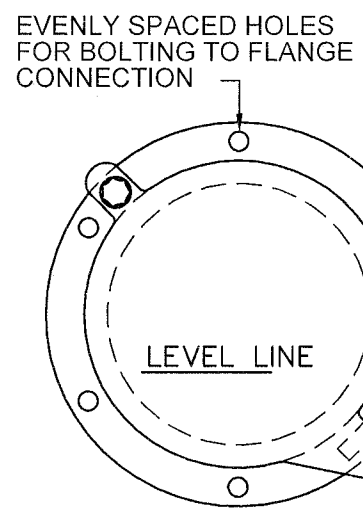
# CS3.3

AS-BUILT DEC 16, 2015

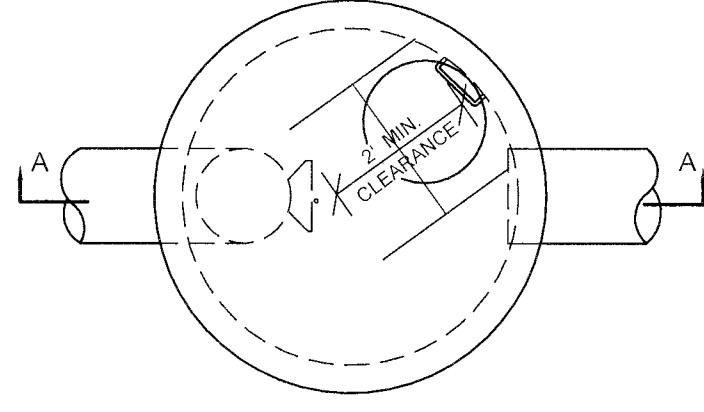




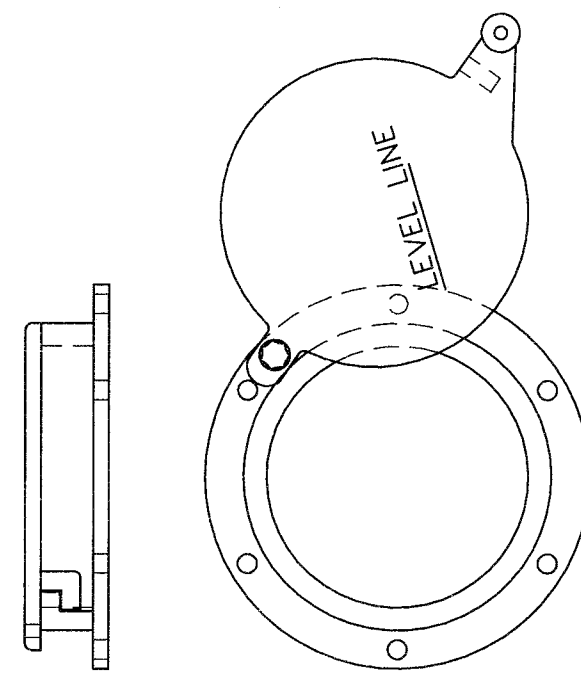
LIFT HANDLE



FRONT  
LIFT HANDLE SHALL BE ATTACHED PER MANUFACTURER'S RECOMMENDATIONS



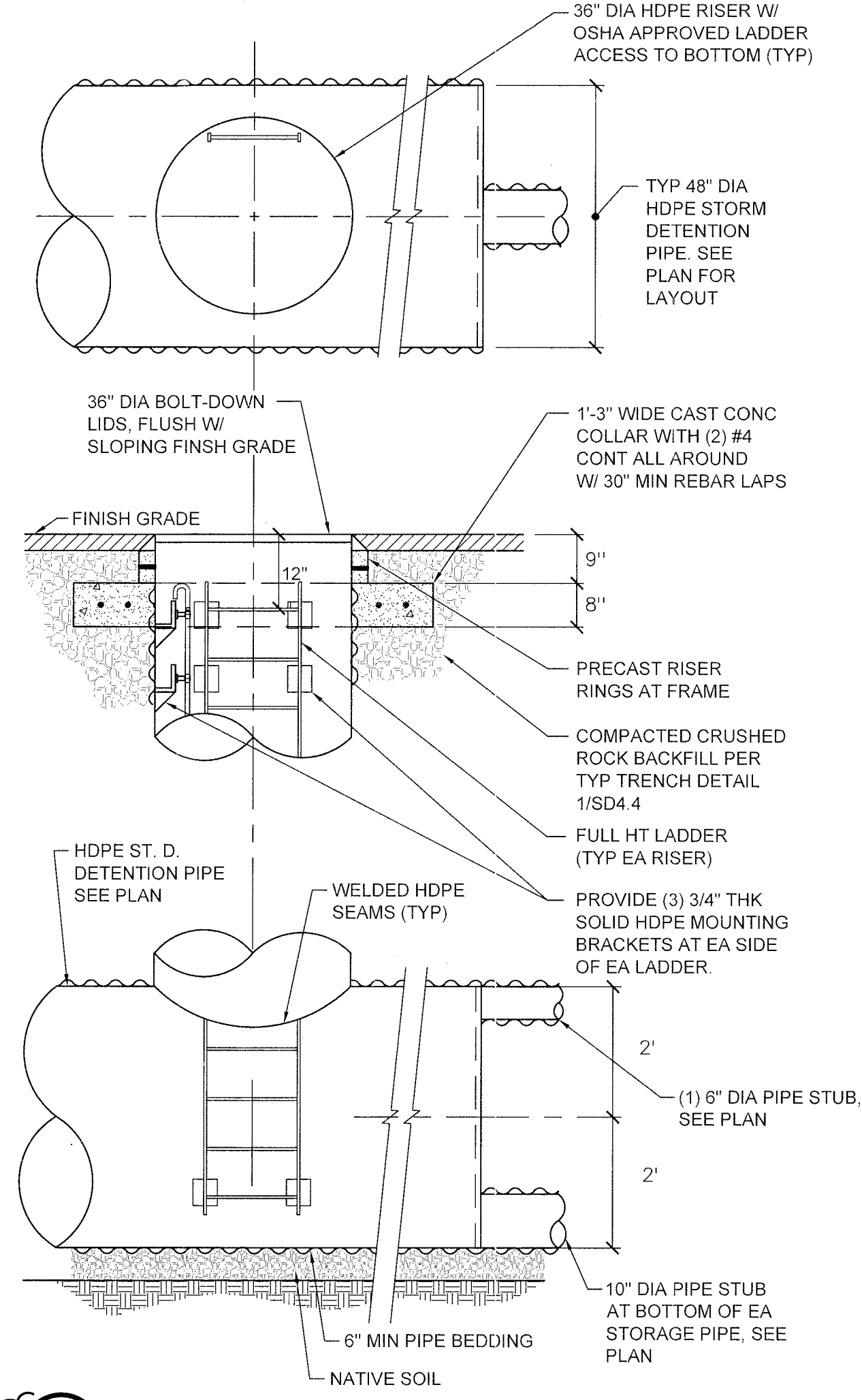
PLAN VIEW



SIDE  
MAXIMUM OPENING OF GATE

CLEANOUT/SHEAR GATE

NOTE:  
ALTERNATES ARE ACCEPTABLE  
PROVIDED MATERIAL SPECIFICATIONS  
ARE MET AND FLANGE BOLT  
PATTERN MATCHES.

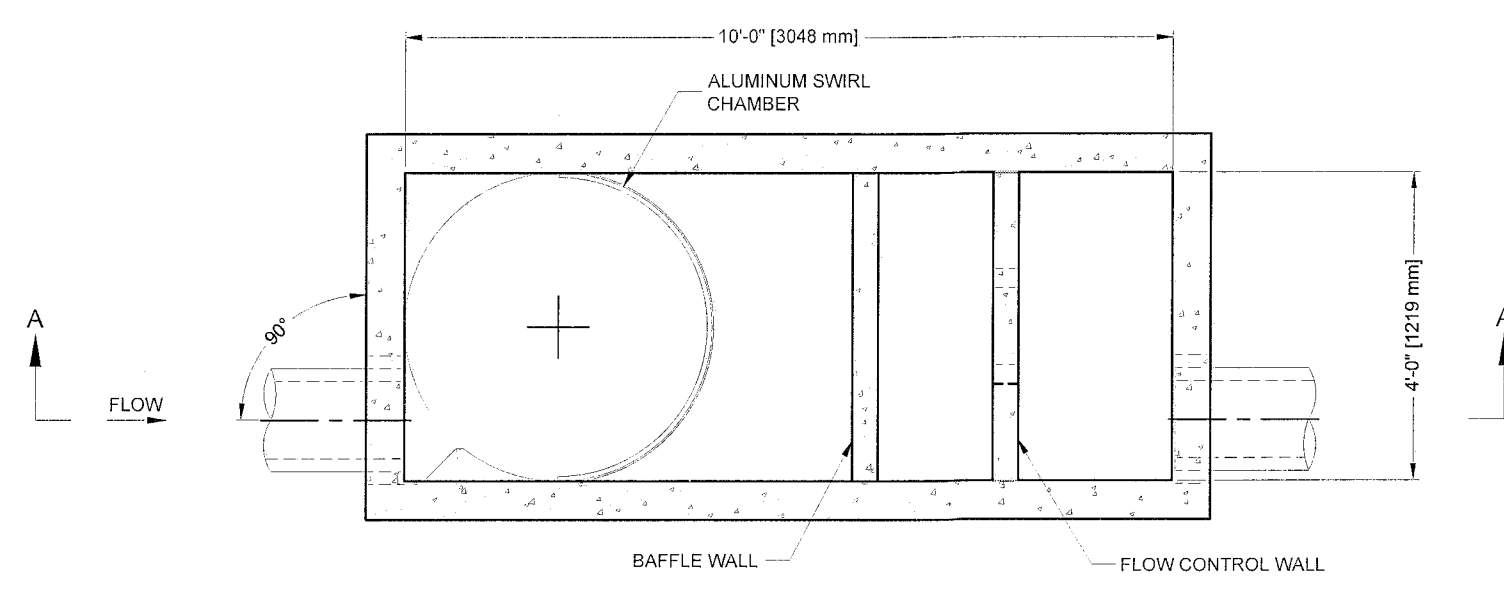


2  
SD4.5  
1/2"=1'-0"

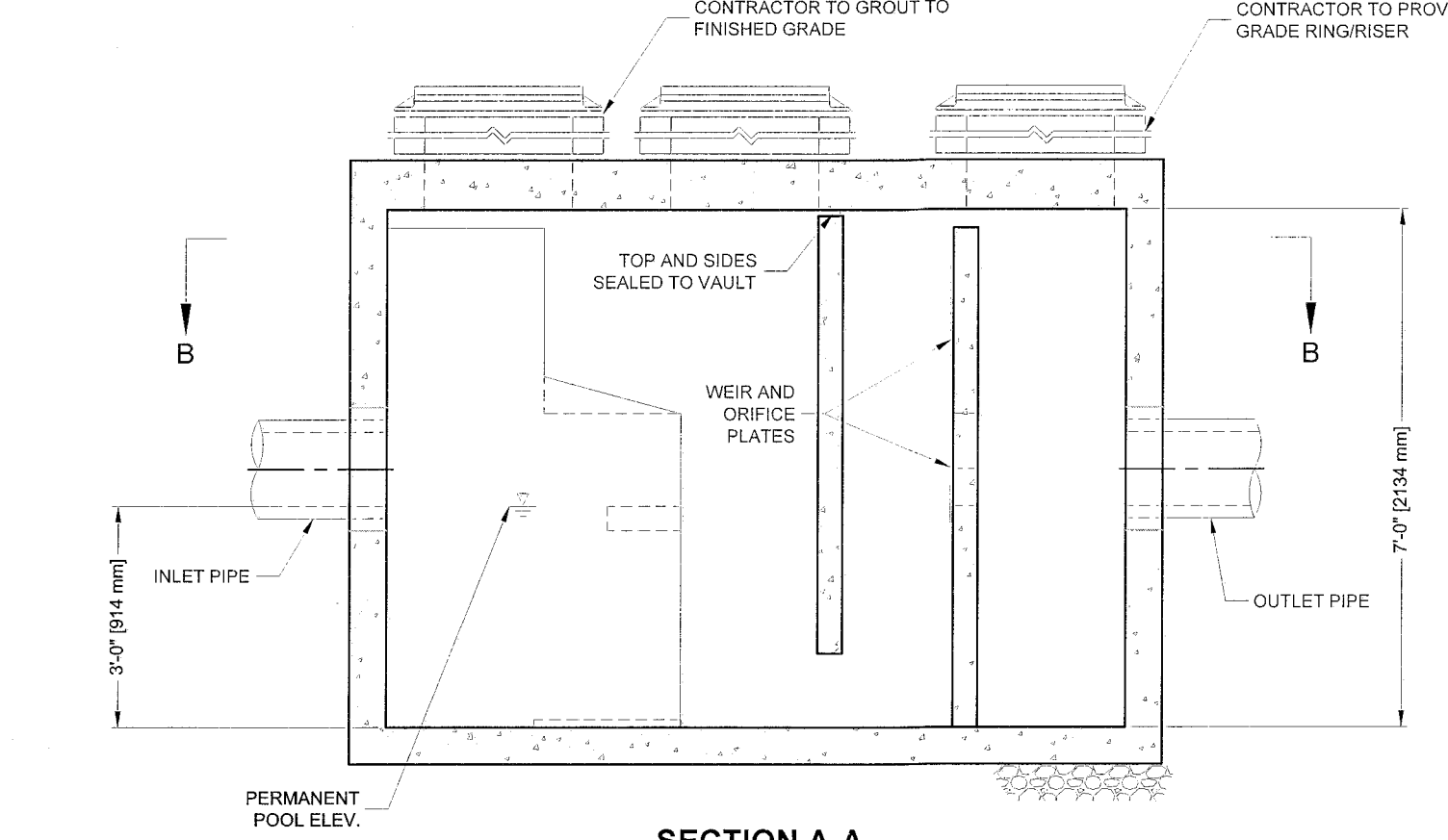
NOTE: ONSITE STORM DETENTION  
AND TREATMENT SYSTEM TO BE  
INSPECTED AND APPROVED BY  
ENGINEERING DEPARTMENT

1  
SD4.5  
60" DIA. STORM DRAIN DETENTION OUTLET CONTROL MANHOLE  
N.T.S.

MH- Detention Control

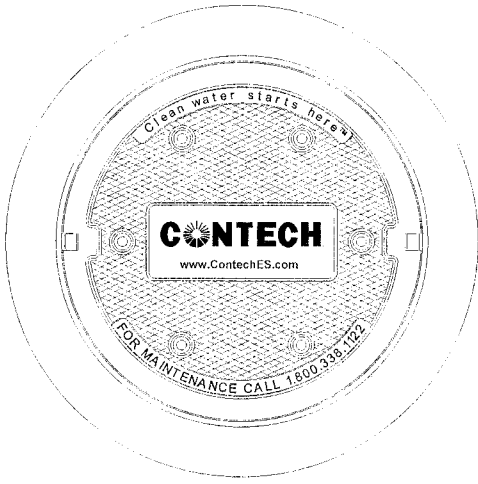


SECTION B-B



SECTION A-A

VORTECHS 2000 DESIGN NOTES  
VORTECHS 2000 RATED TREATMENT CAPACITY IS 2.8 CFS, OR PER LOCAL REGULATIONS. IF THE SITE CONDITIONS EXCEED RATED TREATMENT CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.  
THE STANDARD INLET/OUTLET CONFIGURATION IS SHOWN. FOR OTHER CONFIGURATION OPTIONS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.contechcs.com

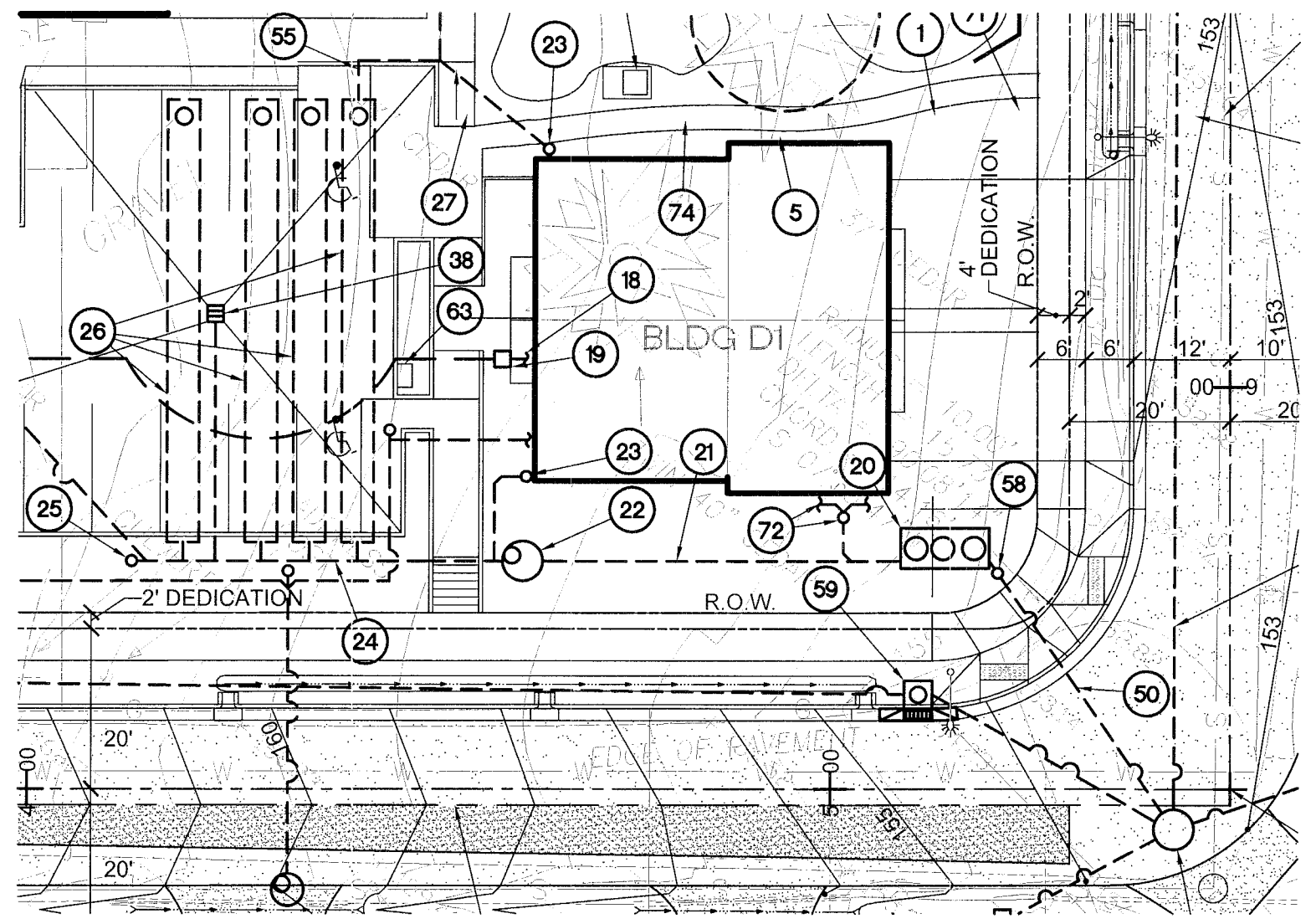


SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID		JD	
WATER QUALITY FLOW RATE (CFS)		0.25	
PEAK FLOW RATE (CFS)		1.88	
RETURN PERIOD OF PEAK FLOW (YRS)		25	
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	149.40	PVC	10"
OUTLET PIPE	149.30	PVC	10"
RIM ELEVATION			155.50
ANTI-FLOTATION BALLAST			
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

GENERAL NOTES  
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.  
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.  
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.contechcs.com  
4. VORTECHS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.  
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.  
6. INLET PIPE(S) MUST BE PERPENDICULAR TO THE VAULT AND AT THE CORNER TO INTRODUCE THE FLOW TANGENTIALLY TO THE SWIRL CHAMBER. DUAL INLETS NOT TO HAVE OPPOSING TANGENTIAL FLOW DIRECTIONS.  
7. OUTLET PIPE(S) MUST BE DOWN STREAM OF THE FLOW CONTROL, SWIRL AND MAY BE LOCATED ON THE SIDE OR END OF THE VAULT. THE FLOW CONTROL WALL MAY BE TURNED TO ACCOMMODATE OUTLET PIPE KNOCKOUTS ON THE SIDE OF THE VAULT.  
INSTALLATION NOTES  
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.  
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTECHS STRUCTURE (LIFTING CLUTCHES PROVIDED).  
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.  
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.  
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



VORTECHS 2000  
STANDARD DETAIL



KEYNOTES FOR DETAIL 3/SD4.5

MARK - DESCRIPTION	MARK - DESCRIPTION
20 - NEW 'CONTECH' VORTECHS STORM TREATMENT VAULT MODEL 2000, SEE DETAIL ON SD4.5 I.E. (10") IN = 150.0, I.E. (10") OUT = 149.9	26 - (4) ROWS OF 55 L.F. OF NEW 48" DIA HDPE ST. D. DETENTION PIPE, SEE 2/SD4.5 FOR TYP ACCESS DETAIL, BOTTOM ELEVATION = 153.30
21 - 46 L.F. OF 10" DIA PVC ST. D. PIPE AT 6.6% SLOPE	50 - SEE SHT CS2.1 FOR 10" DIA ST. D. SERVICE
22 - 5' DIA ST. D. DETENTION MANHOLE, SEE 1/SD4.5 FOR DETAIL I.E. (10") IN = 153.15, I.E. (10") OUT = 153.00, RIM = 159.50	55 - 122 L.F. OF 6" DIA PVC ST. D. PIPE AT 1.0% SLOPE
24 - 46 L.F. OF 10" DIA PVC ST. D. PIPE AT 0.25% SLOPE	58 - C.O. ASSEMBLY AT 100 O.C. MAX SPACING, SEE 5 OR 6 ON SD4.4
25 - ST. D. C.O. ASSEMBLY, SEE 6/SD4.4, I.E. (10") = 153.30	

3  
SD4.5  
1"=20'-0"

(REFERENCE SHEET SD4.3)  
ONSITE UTILITY PLAN

STEWART GORDON STRAUS  
ARCHITECT  
6775 SW 111TH AVENUE  
SUITE 20  
BEAVERTON, OR 97008  
(503) 672-7517 (OFFICE)  
(503) 672-7808 (FAX)  
sgs@s-sStraus.com (e-mail)

WDY  
Structural • Civil Engineers  
6443 SW Beaverton-Hillsdale Hwy, suite 210  
Portland, Oregon 97221  
ph:503.203.8111 fx:503.203.8122  
www.wdy.com

THESE RECORD DOCUMENTS  
HAVE BEEN PREPARED BASED  
ON INFORMATION PROVIDED  
BY OTHERS. THE DESIGN  
PROFESSIONAL HAS NOT VER-  
IFIED THE ACCURACY AND/OR  
COMPLETENESS OF THIS  
INFORMATION AND SHALL NOT  
BE RESPONSIBLE FOR ANY  
ERRORS OR OMISSIONS WHICH  
MAY BE INCORPORATED  
HEREIN AS A RESULT.

SHADY HOLLOW VILLAGE  
SHADY HOLLOW AND WILLAMETTE DRIVE  
WEST LINN, OREGON

PROJECT NUMBER:		1335
DRAWING	DATE	BY
PERMIT	22 AUG 2014	SGS
PLAN CHECK		
△	08 OCT 2014	CGP
△	21 OCT 2014	CGP
△	06 JAN 2015	CGP
△	23 JAN 2015	CGP
△	28 JAN 2015	CGP
AS-BUILT		
△	20 APR 2015	CGP

SHEET TITLE  
ONSITE CIVIL  
DETAILS

SHEET #  
SD4.5



PLANT LIST

TREES (see A1 for existing trees)

TRACHYCARPUS FORTUNEI  
Windmill Palm

CUPRESSUS SEMPERVIRANS  
Italian Cypress

TAXUS BREVIFOLIA  
Oregon Yew

ALNUTUS UNEDO  
Strawberry Tree

QUERCUS PHILLYREOIDES  
Ulm Oak

CARPINUS BETULUS "FASTIGIATA"  
Pyramidal European Hornbeam

SHRUBS AND ORNAMENTAL GRASSES

GAULTHERIA SHALON  
Salal

MAHONIA AQUAFOLIUM  
Oregon Grape

MAHONIA AQUAFOLIUM "COMPACTA"  
Dwarf Oregon Grape

NANDIA DOMESTICA  
Heavenly Bamboo

ANDROPOGON GERARDII  
Big Bluestem Turkeyfoot Grass

ARRHENATHERUM CLATILUS  
BULBOSUM "VARIEGATUM"  
Bulbous Oat Grass

CORTADERIA SELLOANA  
Pampas Grass

PENNISETUM ALOPECUROIDES  
Fountain Grass

RHODODENDRON  
Varieties to be selected

AZALEA  
Varieties to be selected

GROUND COVERS

ASARUM CAUDATUM  
Wild Ginger

COTONEASTER DAMERII  
Bearberry Cotoneaster

ARCTOSTAPHYLOS UVA URSI  
Kinnikinnick

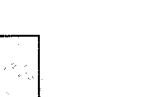
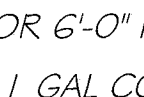
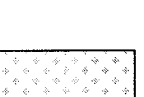
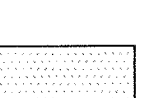
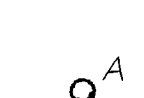
NOTES

1. NEW TREES TO BE 2" CAL DBH AND/OR 6'-0" MIN HEIGHT
2. NEW SHRUBS AND GRASSES TO BE 1 GAL CONTAINER MIN
3. NEW GROUND COVERS TO BE 4" POT @ 18" OC TRIANGULAR
4. TYPICAL GROUND COVER TO BE KINNICKINNICK UNLESS NOTED
5. PROVIDE 2" BARK MULCH IN ALL PLANTER BEDS

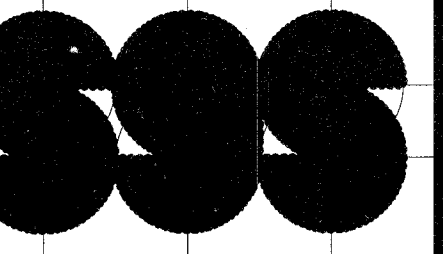
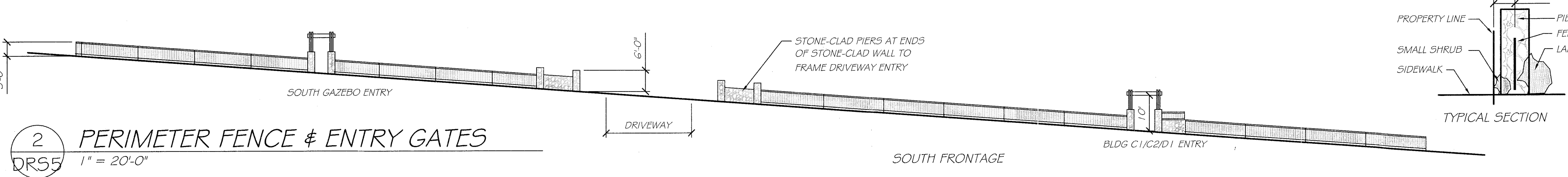
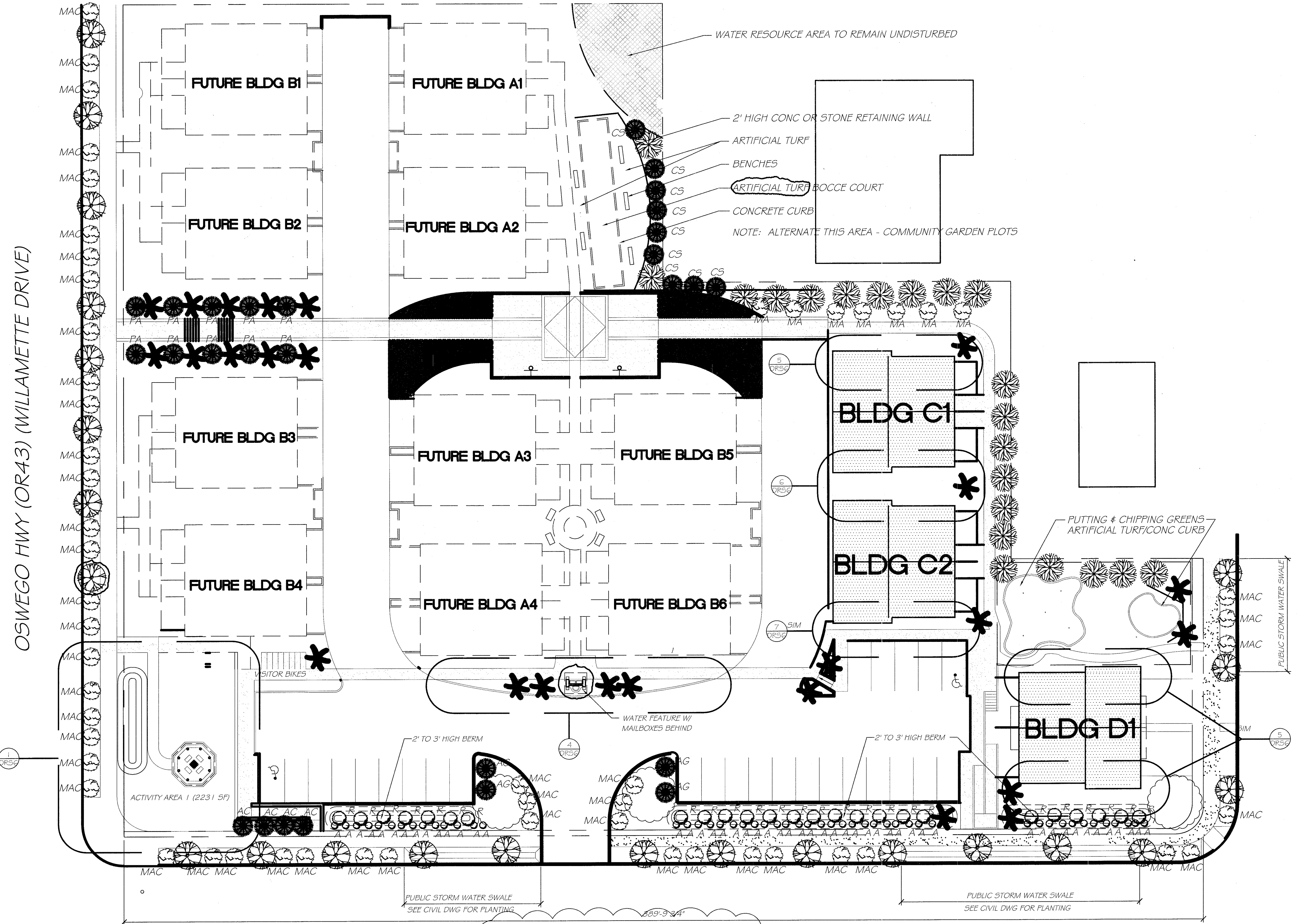
CONCRETE PAVING

SALT OR BROOM, SCORED

WITH COBBLES/ROCKS  
(EMERGENCY ACCESS ONLY)



SIGHTLINE DISTANCE



STEWART GORDON STRAUS  
ARCHITECT  
6775 SW 111TH AVENUE  
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BEAVERTON, OR 97008  
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(503) 672-7808 (FAX)  
sgs@s-strauss.com (e-mail)



SHADY HOLLOW VILLAGE  
PHASE ONE SITE DEVELOPMENT + BUILDINGS  
SHADY HOLLOW AND WILLAMETTE DRIVE  
WEST LINN, OREGON

PROJECT  
NUMBER: 1335

DRAWING	DATE	BY
DESIGN	20 NOV 2013	SGS

NRHD MTG	11 FEB 2014	SGS
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DES REV	12 MAR 2014	SGS
	21 APR 2014	SGS
	14 MAY 2014	SGS

PERMIT	22 AUG 2014	SGS
	24 FEB 2015	SGS
	16 DEC 2015	SGS

SHEET TITLE  
PROPOSED  
LANDSCAPE

SHEET #  
SD5