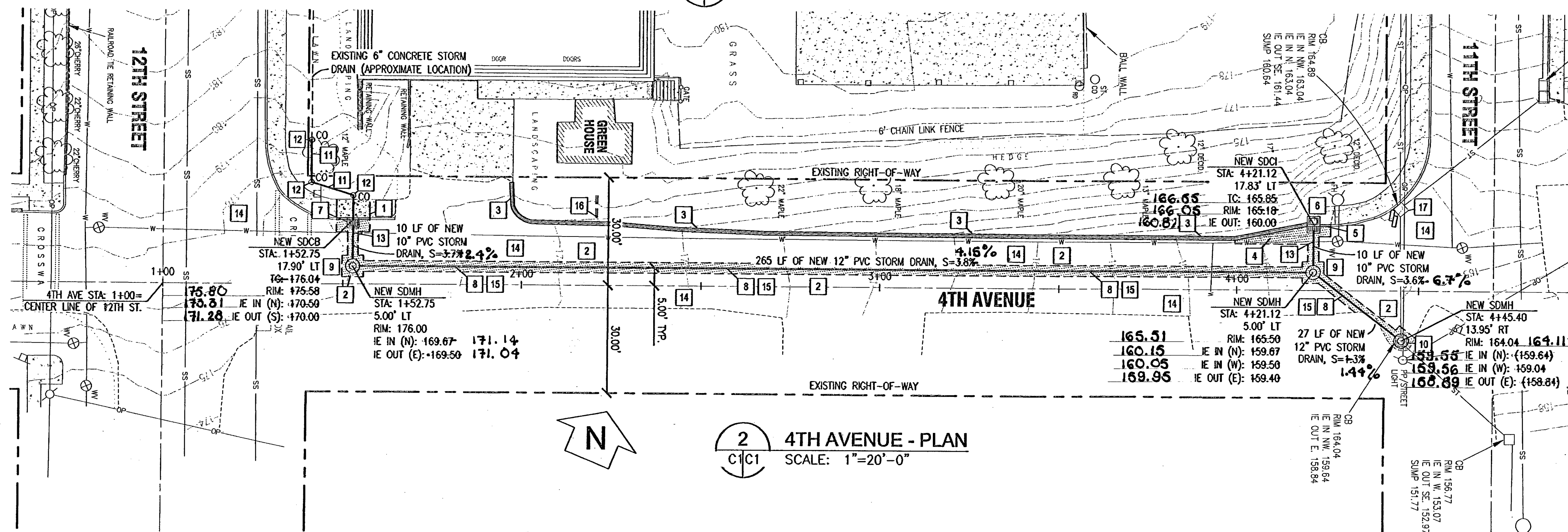
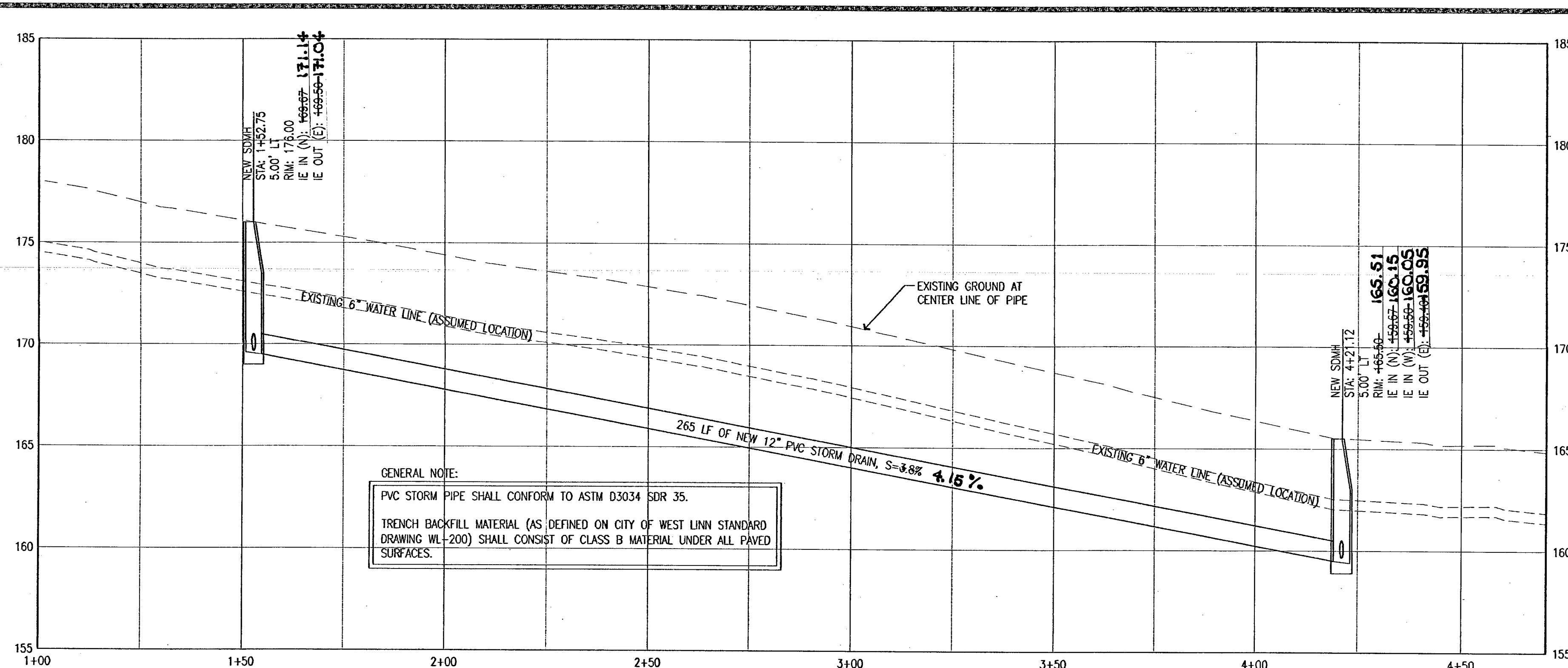


### CONSTRUCTION NOTES

- SAW CUT AND REMOVE EXISTING CONCRETE CURB AND SIDEWALK. UPON COMPLETION OF INSTALLATION OF NEW STORM DRAIN INFRASTRUCTURE RECONSTRUCT CURB AND SIDEWALK PER CITY OF WEST LINN STANDARD DRAWINGS WL-501 AND WL-508.
- SAW CUT AND REMOVE EXISTING A.C. PAVEMENT WITH STREET T-CUT PER CITY OF WEST LINN STANDARD DRAWING WL-203. FOLLOWING TRENCH BACKFILL AND COMPACTION, RESTORE ASPHALT SURFACE PER WL-203 WITH 4" A.C. MINIMUM COMPACTION IN TWO EQUAL LIFTS.
- INSTALL ASPHALT DIKE ALONG EXISTING EDGE OF PAVEMENT.
- INSTALL NEW A.C. PAVEMENT TO ACCOMMODATE NEW CURB INLET AND ASPHALT DIKE. SAW CUT AND REMOVE EXISTING A.C. PAVEMENT ALONG EDGE OF ROAD TO ADEQUATE SECTION (12" MINIMUM FROM EXISTING EDGE). EXCAVATE AS NECESSARY TO SUBGRADE.
- INSTALL NEW CONCRETE CURB PER CITY OF WEST LINN STANDARD DRAWINGS WL-501.
- INSTALL COMBINATION CURB INLET PER CITY OF WEST LINN STANDARD DRAWING WL-601. CONNECT TO STORM SYSTEM WITH 10" ASTM D3034 PVC STORM PIPE.
- INSTALL CATCH BASIN PER CITY OF WEST LINN STANDARD DRAWING WL-602A. CONNECT TO STORM SYSTEM WITH 10" ASTM D3034 PVC STORM PIPE. TRENCH BACKFILL TO BE COMPACTED TO A MINIMUM OF 95% PER AASHTO T-180.
- INSTALL 12" ASTM D3034 PVC STORM PIPE PER CITY OF WEST LINN STANDARD DRAWING WL-200. TRENCH BACKFILL TO BE COMPACTED TO A MINIMUM OF 95% PER AASHTO T-180.
- INSTALL STANDARD STORM DRAIN MANHOLE PER CITY OF WEST LINN STANDARD DRAWING WL-207, FRAME AND COVER PER WL-605.
- REMOVE EXISTING CATCH BASIN AND INSTALL STANDARD STORM DRAIN MANHOLE PER CITY OF WEST LINN STANDARD DRAWING WL-207, FRAME AND OPEN GRATE PER WL-605. CONNECT NEW AND EXISTING STORM PIPE USING FLEXIBLE CONNECTOR PER CITY OF WEST LINN STANDARD DRAWING WL-212. RECONSTRUCT A.C. BERM AROUND MANHOLE GRATE.
- INSTALL 8" ASTM D3034 PVC STORM PIPE (APPROX. 30 LF). AT CONNECTION TO EXISTING PIPE INSTALL 8"x6" REDUCER AND CONNECT TO EXISTING 6" CONCRETE PIPE WITH FLEXIBLE COUPLING (FERNCO, OR APPROVED EQUAL).
- INSTALL STANDARD CLEANOUT. **ONLY 1 INSTALLED**
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING WATER LINE TO VERIFY LOCATION. NOTIFY OWNER IF LOCATION OF WATER LINE OBSERVED IN THE FIELD VARIES FROM WHAT IS SHOWN ON THESE PLANS.
- SAVE AND PROTECT EXISTING ASPHALT THROUGHOUT CONSTRUCTION ACTIVITIES. AT CITY ENGINEER'S DISCRETION, CONTRACTOR TO REPLACE OR RESTORE ALL ASPHALT DAMAGED BY CONSTRUCTION ACTIVITIES.
- IN THE PRESENCE OF CITY STAFF, CONTRACTOR TO MANDREL TEST AND PROVIDE VIDEO INSPECTION OF STORM LINE TO CITY STANDARDS.
- EXTEND EXISTING STORM OUTFALL TO DAYLIGHT THROUGH NEW A.C. DIKE. SIZE AND MATERIAL TO MATCH EXISTING.
- INSTALL CATCH BASIN INLET PROTECTION, INCLUDING BIOBAGS AND CATCH BASIN INSERT.



### CIVIL ABBREVIATIONS

A.C. ASPHALT CONCRETE  
 IE INVERT ELEVATION  
 LF LINEAL FEET  
 LT LEFT  
 NTS NOT TO SCALE  
 ROW RT RIGHT-OF-WAY  
 RT RIGHT  
 S SLOPE  
 SDCB STORM DRAIN CATCH BASIN  
 SDCI STORM DRAIN CURB INLET  
 SDMH STORM DRAIN MANHOLE  
 STA STATION  
 TC TOP OF CURB

### SURVEY LEGEND

TREE, TYPE AND SIZE AS NOTED  
 FIRE HYDRANT  
 WATER METER  
 SANITARY/STORM SEWER MANHOLE  
 STORM DRAIN CATCH BASIN (CB)  
 UTILITY POLE  
 UTILITY POLE ANCHOR  
 CLEANOUT  
 GAS METER  
 WATER VALVE  
 ROOF DRAIN  
 WATER BOX  
 SPRINKLER VALVE  
 SHRUB

ST STORM SEWER LINE  
 W WATER LINE  
 G GAS LINE  
 SS SANITARY SEWER LINE  
 TEL TELEPHONE LINE  
 OP OVERHEAD POWER LINE  
 F FENCE LINE

ASPHALT (A.C.)  
 CONCRETE

### GENERAL NOTE

ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS.

### ATTENTION EXCAVATORS

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OUR 952-001-0010 THROUGH OUR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BEFORE COMMENCING ANY EXCAVATION. CALL 503-246-6699.

1" = 20'-0" 20' 0 20' 40' 60'

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3/18/11	PERMIT SET	
3/16/11	PERMIT SET	
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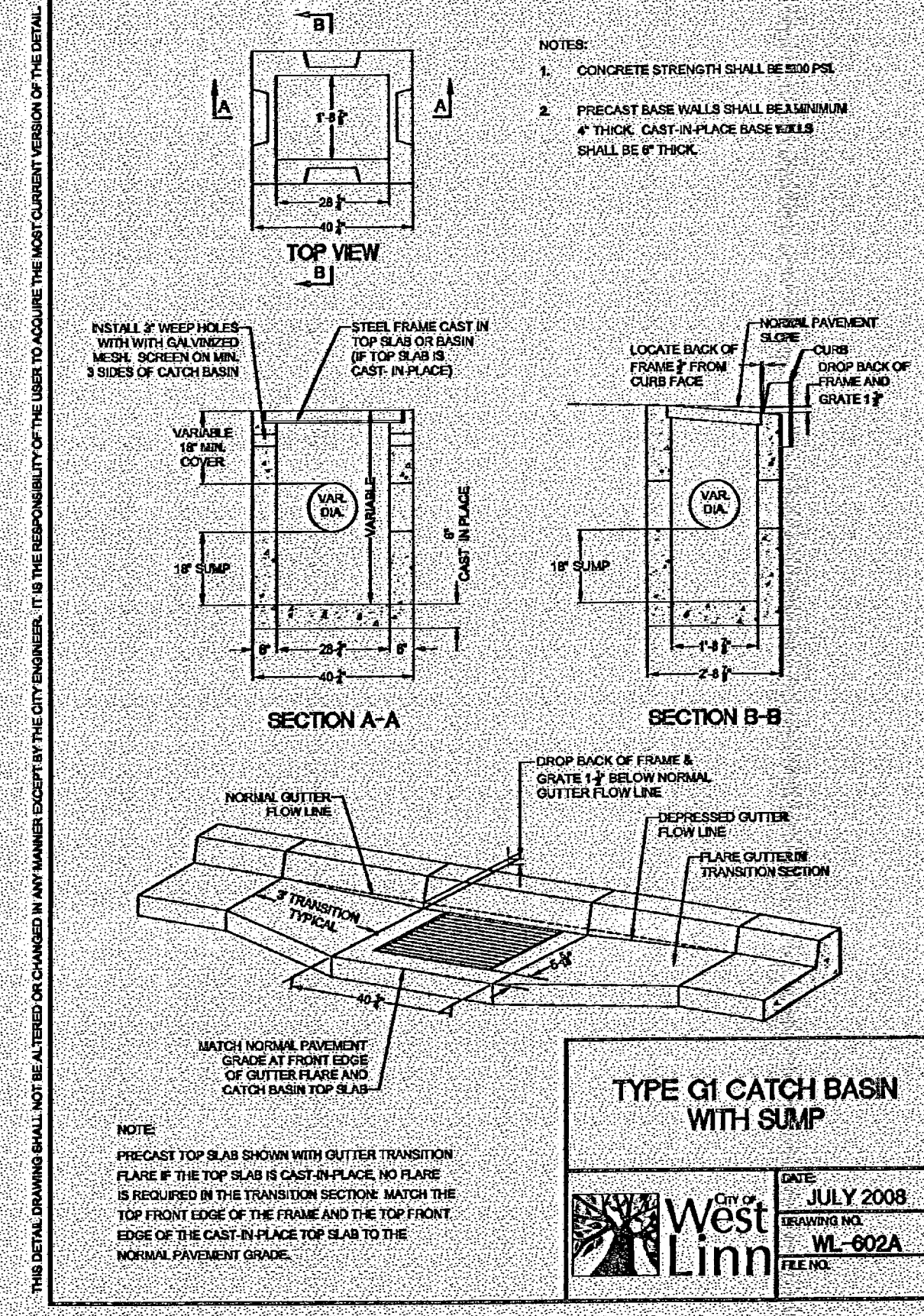
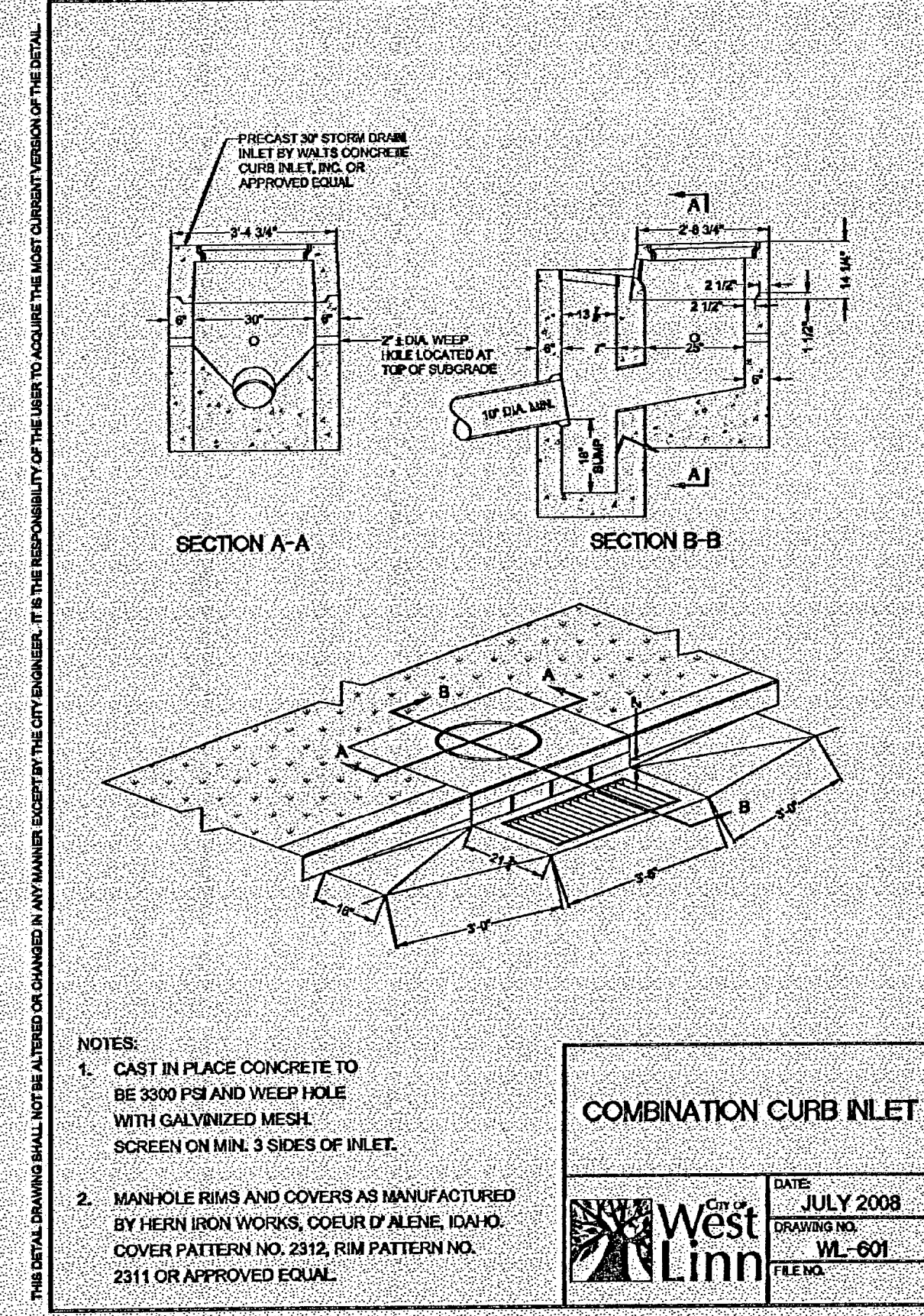
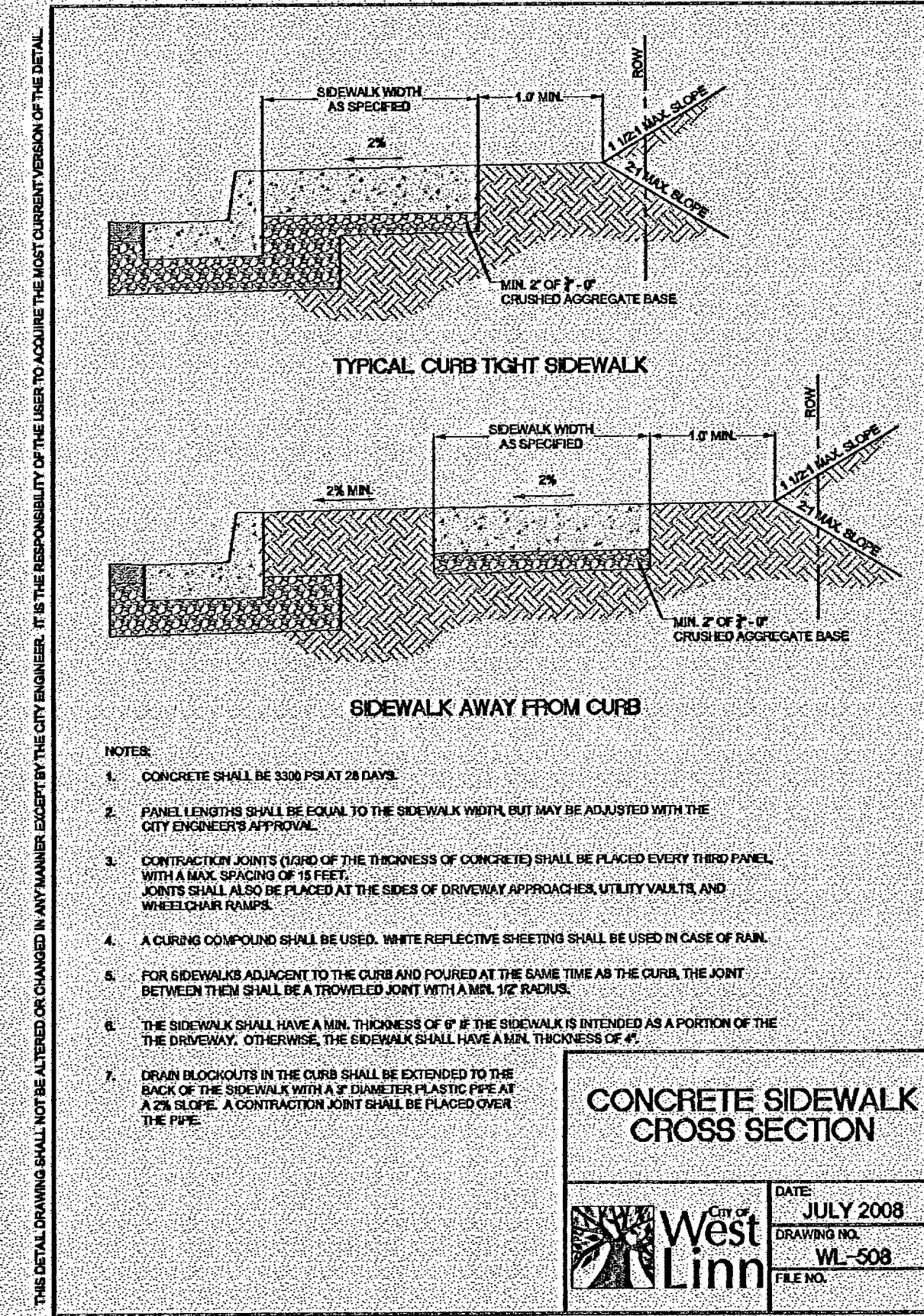
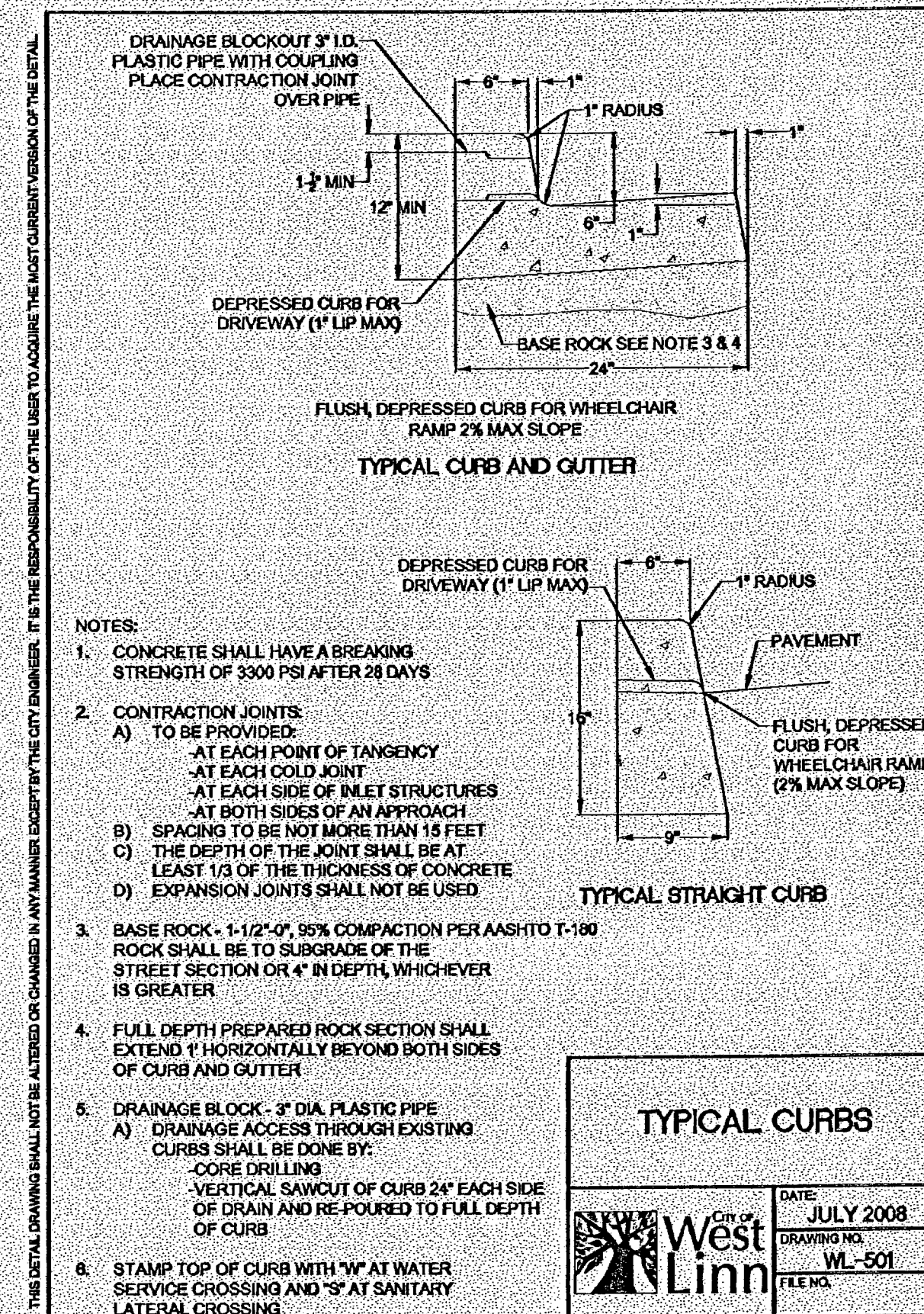
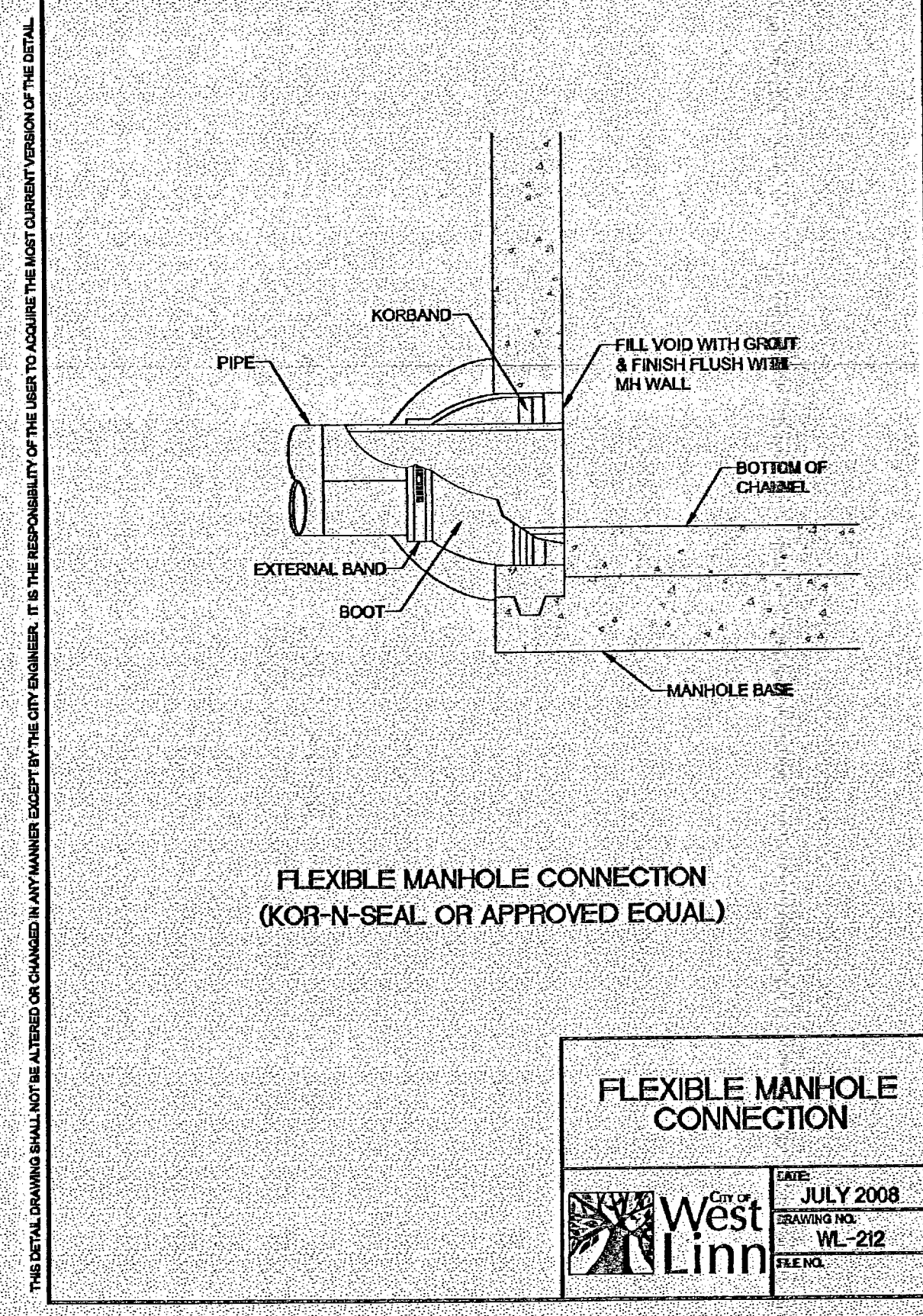
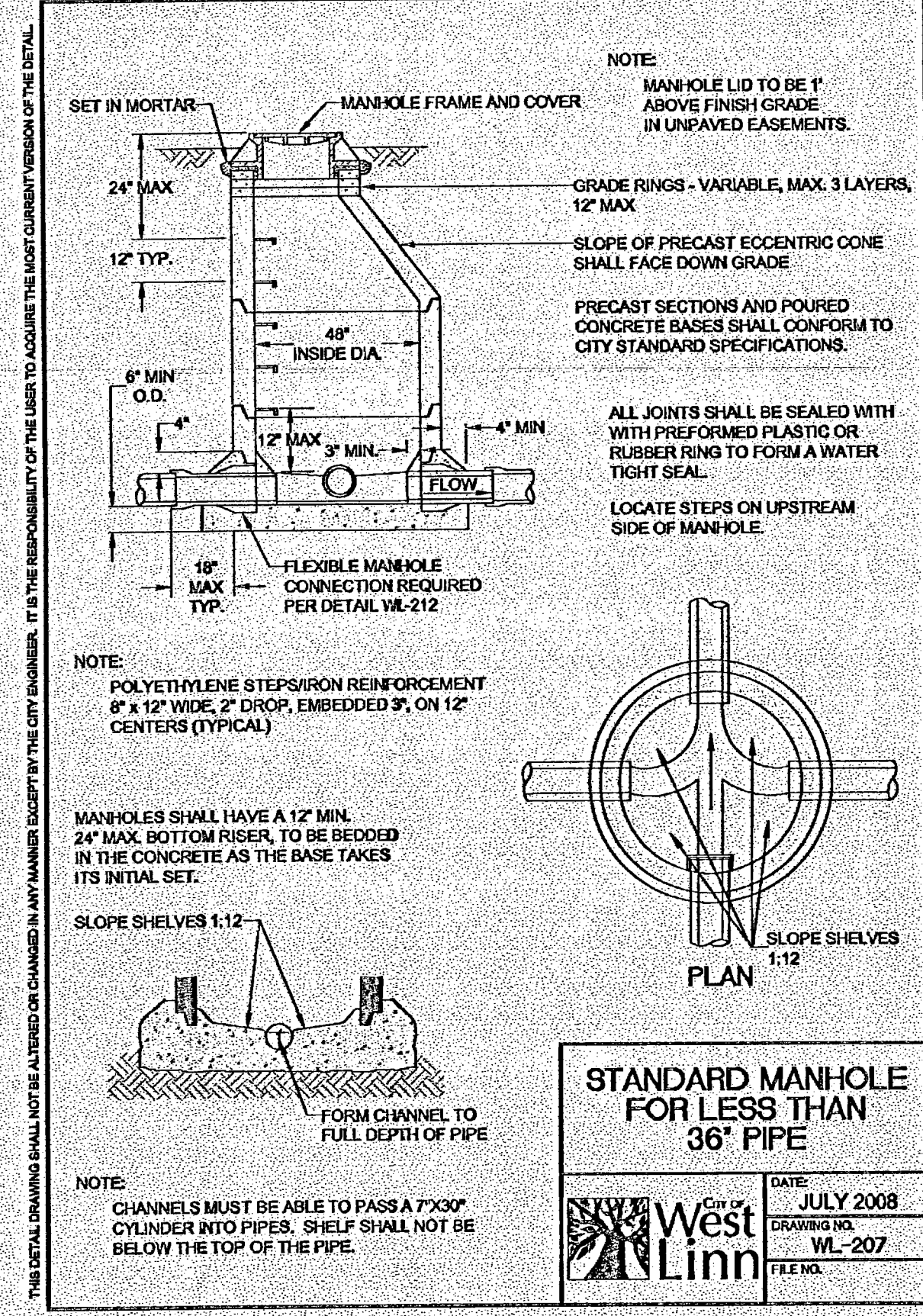
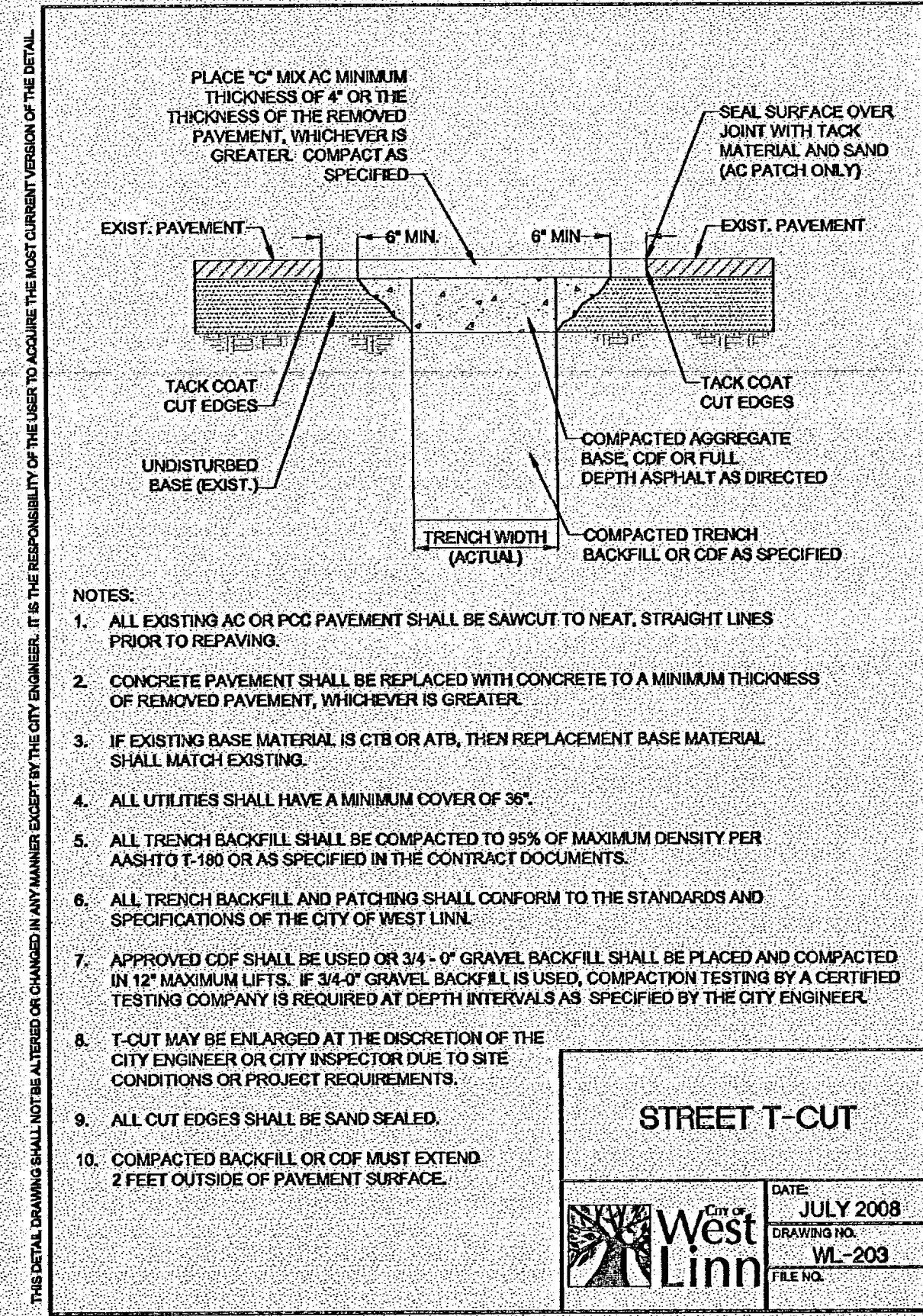
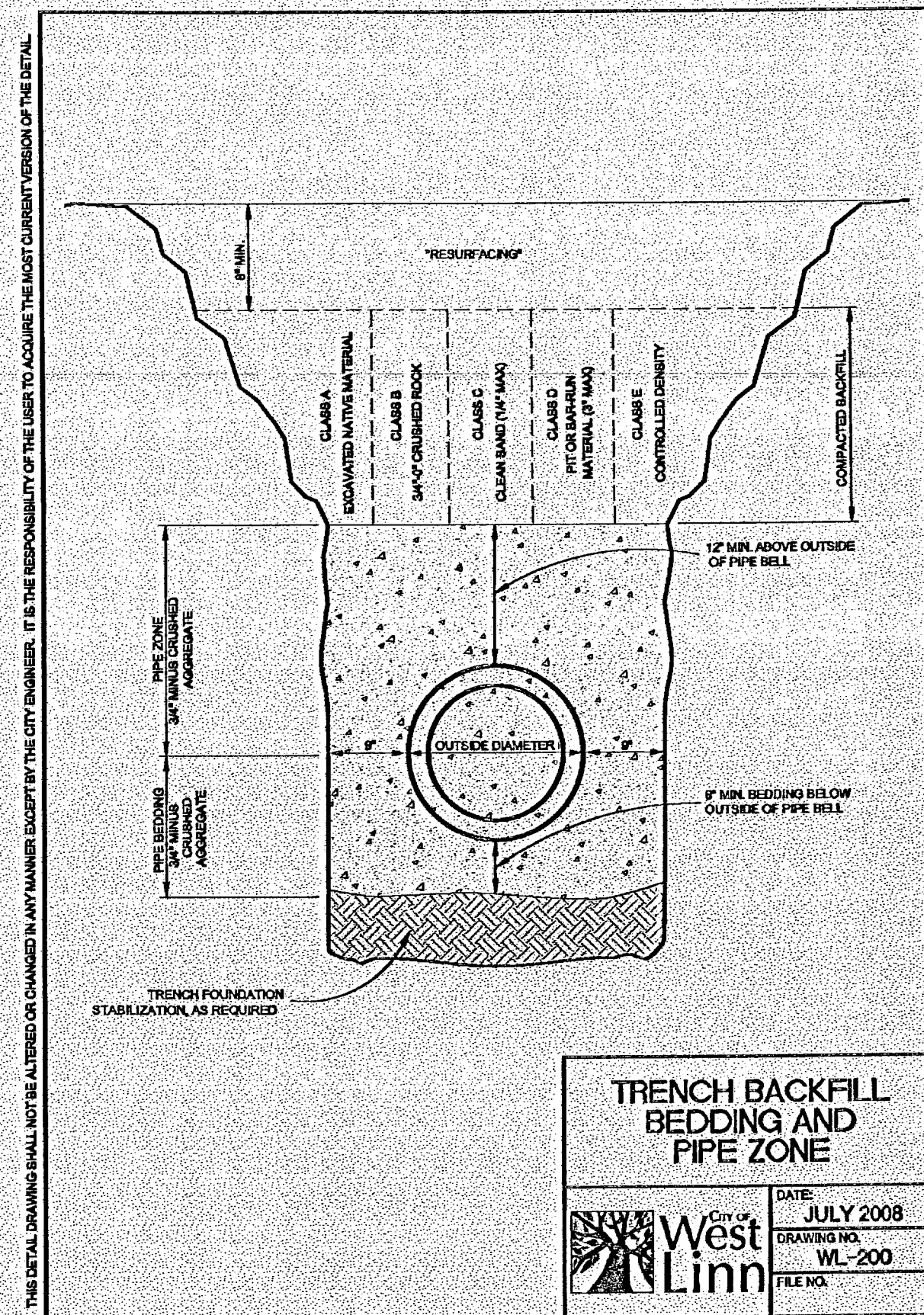
**WLWSD**  
**WILLAMETTE PRIMARY SCHOOL**  
**4TH AVENUE IMPROVEMENTS**  
**SURFACE AND UNDERGROUND IMPROVEMENTS**

PROJ NO: 11456-11003  
 DRWN: STS CHKD: MBW

**C1**

SHEET - OF -





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SUBCONSULTANT

**REGISTERED PROFESSIONAL**  
SETH T. STEVENS  
EXPIRES 6/30/12

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**WLWSD WILLAMETTE PRIMARY SCHOOL 4TH AVENUE IMPROVEMENTS**

**DETAILS**

PROJ NO: 11456-11003  
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SHEET - OF -

**C2**



## GENERAL SITE NOTES

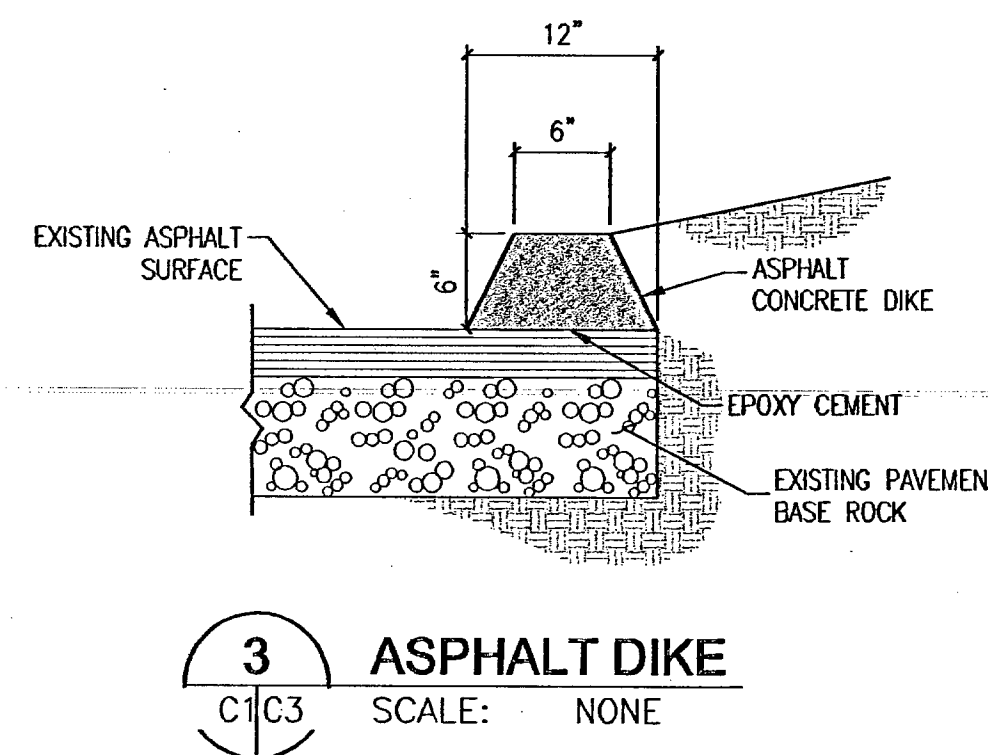
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND BECOMING FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING.
- CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT NEW FEATURES TIE INTO EXISTING SITE DEVELOPMENT, PAVEMENT JOINTS MATCH CORRECTLY, AND THAT GENERAL DESIGN ELEVATIONS FOR NEW CONSTRUCTION PROVIDE PROPER PAVEMENT AND DRAINAGE SLOPES FROM EXISTING TIE IN POINTS. REPORT DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- IN AREAS WHERE ASPHALT PAVING IS BEING REWORKED, PROVIDE NEW PAINT STRIPING FOR ALL REVISED PAVING WORK AND PARKING STALLS. EXISTING STRIPING TO BE GROUND OFF IN RECONFIGURED AREAS AS REQUIRED.
- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH CITY INSPECTOR(S). CONTRACTOR SHALL NOTIFY CITY INSPECTOR(S) 48 HOURS PRIOR TO START OF CONSTRUCTION.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL HAVE A MINIMUM OF ONE (1) SET OF PERMIT APPROVED PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- UPON COMPLETION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL. ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO CITY OF WEST LINN STANDARDS AND SPECIFICATIONS.
- SURVEY OF EXISTING CONDITIONS PREPARED BY COMPASS ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING RIGHT-OF-WAY LINES, SLOPE BASEMENTS, AND ALL HORIZONTAL AND VERTICAL CONTROL PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND SHALL ARRANGE FOR STAKING WITH A LICENSED SURVEYOR. STAKING WILL BE REVIEWED BY OWNER FOR CONFORMANCE TO DESIGN PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION. ADEQUATE SHORING BRACINGS, TIES, AND SUPPORTS SHALL BE USED TO PROVIDE PROPER TEMPORARY INTEGRITY DURING ALL PHASES OF CONSTRUCTION.
- ALL DITCHES, SWALES, GUTTERS, ETC. SHOULD BE CONSIDERED ACTIVE STORM CONVEYANCES UNLESS OTHERWISE INDICATED. CONTRACTOR IS RESPONSIBLE FOR ADDRESSING STORM WATER DRAINAGE AND DETERIORATION OF WORK AREAS DURING CONSTRUCTION.
- ALL EXISTING LANDSCAPED AND UNPAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION OR EARTHWORK OPERATIONS SHALL BE HAND RAKED SMOOTH AND RETURNED TO ORIGINAL EXISTING CONDITIONS. DISTURBED LANDSCAPED AREAS SHALL RECEIVE BARK DUST AND REPLACEMENT PLANTINGS. DISTURBED NATURAL AREAS SHALL BE HYDROSEEDING TO REPLACE NATIVE COVER. DISTURBED GRAVEL AREAS SHALL RECEIVE REPLACEMENT GRAVEL OR CRUSHED ROCK SURFACING.
- ALL EXISTING MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. IF ANY MONUMENTS ARE DISTURBED OR DESTROYED DURING CONSTRUCTION, CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR TO RESTORE THE MONUMENT TO ITS ORIGINAL CONDITION AND FILE THE NECESSARY SURVEYS AS REQUIRED BY STATE LAW.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS. CONTRACTOR TO SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY OF WEST LINN FOR REVIEW - PLAN TO BE APPROVED BY CITY OF WEST LINN PRIOR TO START OF ANY CONSTRUCTION OPERATIONS IN 4TH AVENUE. A MINIMUM OF ONE TRAFFIC LANE IS TO REMAIN OPEN ALONG 4TH AVENUE AT ALL TIMES.

## UTILITY NOTES

- LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM RECORD DRAWINGS AND INTERPOLATION OF PHYSICAL EVIDENCE ON THE SITE AND ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR.
- ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION UNDER THIS SECTION OR ANY OTHER SECTION.
- THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, OR FITTING REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM. ALL ADDITIONAL WORK OR PARTS TO CONFORM TO CITY OF WEST LINN STANDARDS AND APPROVAL.
- CONTRACTOR SHALL COORDINATE A UTILITY LOCATE 48 HOURS PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION FOR LOCATION MARK-UP OF ALL EXISTING UTILITIES BOTH IN THE RIGHT-OF-WAY AND ON PRIVATE PROPERTY. CONTRACTOR SHALL COORDINATE THE UTILITY LOCAL WITH MUNICIPALITY HAVING JURISDICTION FOR ALL UTILITY WORK WITHIN A PUBLIC RIGHT-OF-WAY. INFORM ENGINEER IMMEDIATELY IF LOCATE INDICATES THAT EXISTING UTILITIES ARE DIFFERENT THAN SHOWN ON DRAWINGS. PRE-SURVEY LOCATING REQUESTS SHALL BE 14 DAYS IN ADVANCE.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, FEATURES, AND STRUCTURES LOCATED ON THE SITE. LOCATE, PROTECT, AND AVOID DISRUPTION OF ALL ABOVE AND BELOW GRADE UTILITIES DURING CONSTRUCTION.
- ALL UTILITY CONSTRUCTION ON PRIVATE PROPERTY SHALL CONFORM TO THE LATEST EDITION OF THE OREGON PLUMBING SPECIALTY CODE. ALL UTILITY CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE STANDARD REQUIREMENTS OF THE MUNICIPALITY HAVING JURISDICTION.
- ALL BURIED LINES TO HAVE 3 FEET MINIMUM COVER, UNLESS NOTED OTHERWISE.
- ALL EXISTING UTILITIES AND TIE-IN POINTS SHOULD BE CONSIDERED ACTIVE UTILITIES UNLESS OTHERWISE INDICATED.

## GENERAL EROSION CONTROL NOTES:

- ALL EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN (ESPCP) MEASURES SHALL BE INSTALLED AS PER THE DETAIL DRAWINGS IN THE CITY OF WEST LINN EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- ESCP MEASURES SHALL NOT BE REMOVED UNTIL FINAL INSPECTION HAS BEEN REQUESTED AND APPROVED BY A CITY OF WEST LINN INSPECTOR.
- INSPECTIONS MAY BE REQUESTED BY TELEPHONING CITY OF WEST LINN ONE DAY PRIOR TO THE TIME OF INSPECTION.
- THE IMPLEMENTATION OF THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF ESCP FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR MAY BE REQUIRED TO IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXISTS THE SITE OR ENTERS THE EXISTING STORMWATER SYSTEM.
- THE ESCP FACILITIES SHALL BE INSPECTED DAILY BETWEEN OCTOBER 1 AND APRIL 30 BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. ALL INSPECTIONS SHALL BE NOTED IN AN INSPECTION LOG WHICH SHALL BE MADE AVAILABLE TO THE CITY OF WEST LINN INSPECTOR UPON REQUEST.
- ESCP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF EVERY TWO WEEKS OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
- EXPOSED SOILS THAT REMAIN UNWORKED FOR 14 DAYS OR MORE SHALL BE IMMEDIATELY PROTECTED BY APPROPRIATE GROUND COVER. DISTURBED LAND THAT WILL REMAIN UNWORKED FOR 2 MONTHS OR LONGER SHALL ALSO BE SEEDING WITH AN APPROVED SEED MIXTURE.
- PUBLIC STREETS WILL BE SWEEPED DAILY, IF NECESSARY, TO ALLEVIATE SEDIMENT DISCHARGE TO THE STORM WATER MANAGEMENT SYSTEM. UNFILTERED WASH WATER CANNOT BE DISCHARGED TO STORM DRAINS.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THEY ARE NO LONGER NEEDED.



## SILTSACK®

SPECIFICATIONS  
(MANUFACTURED BY)

NOTE: THE SILTSACK® WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

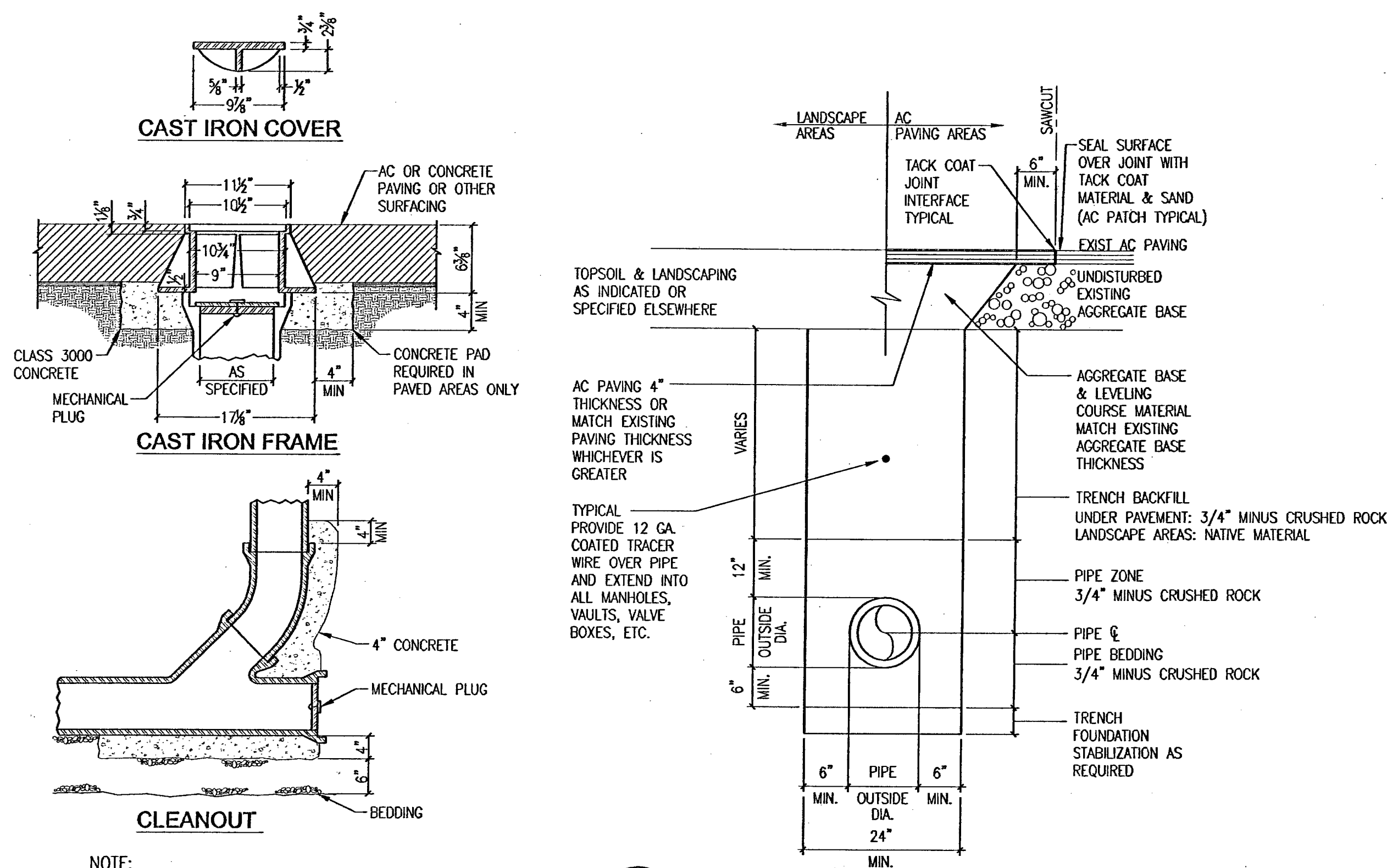
## REGULAR FLOW SILTSACK®

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	50 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT 0.55 SEC -1

## 4 CATCH BASIN INSERT

SCALE: NONE



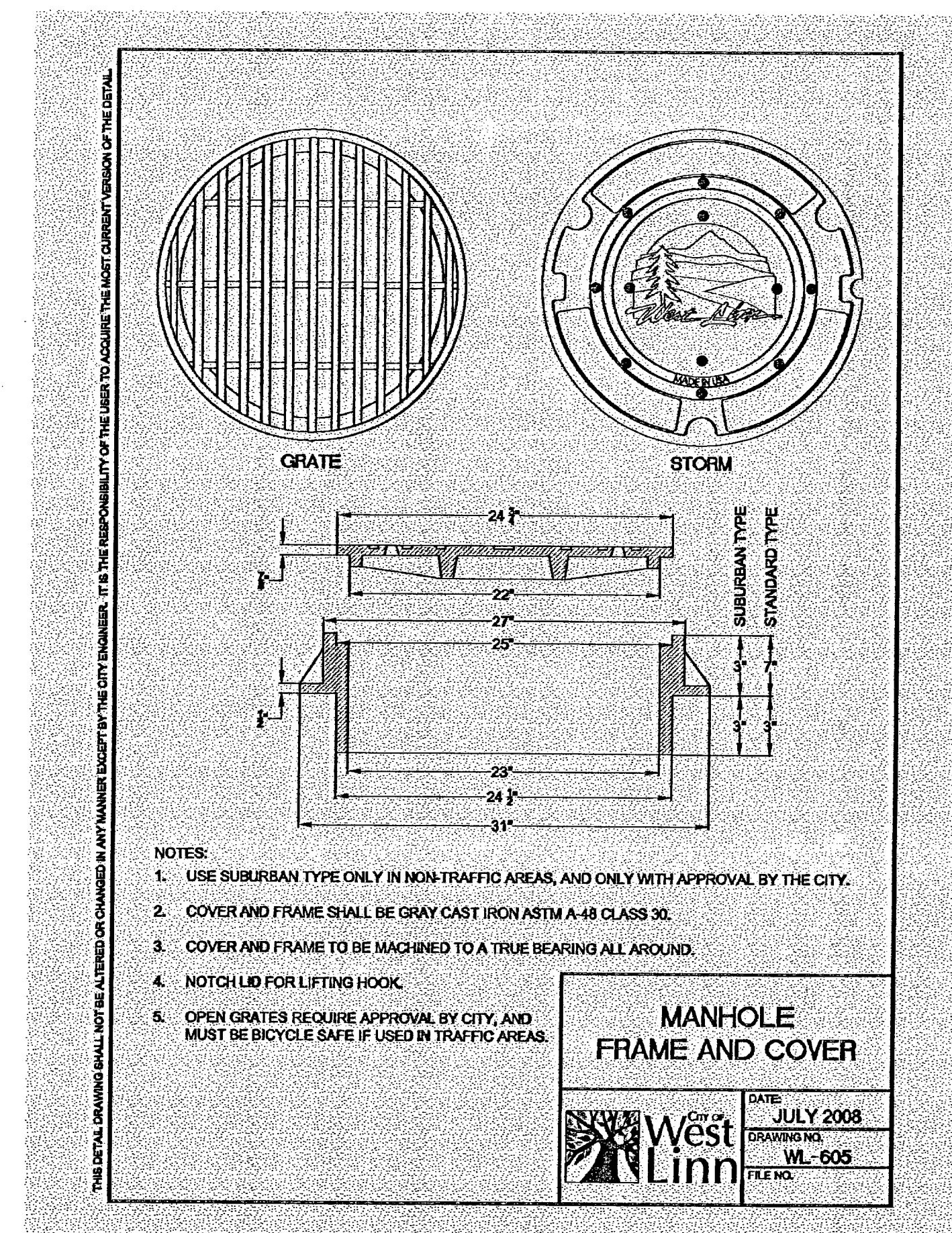
NOTE:  
ALL CLEANOUT MATERIAL TO BE SAME AS CARRIER PIPE.

## 1 STANDARD CLEANOUT

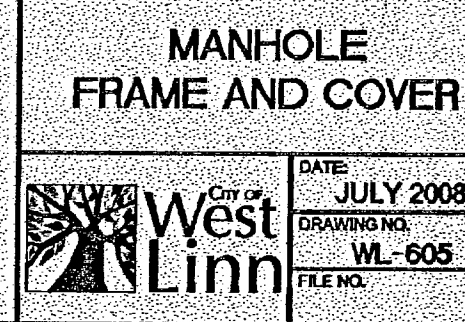
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## 2 PRIVATE UTILITY TRENCH SECTION

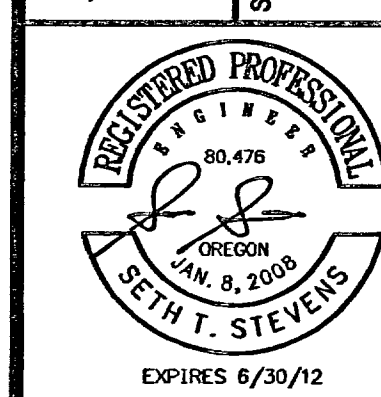
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- NOTES:
- USE SUBURBAN TYPE ONLY IN NON-TRAFFIC AREAS, AND ONLY WITH APPROVAL BY THE CITY.
  - COVER AND FRAME SHALL BE GRAY CAST IRON ASTM A-18 CLASS 30.
  - COVER AND FRAME TO BE MACHINED TO A TRUE BEARING ALL AROUND.
  - NOTCH LID FOR LIFTING HOOK.
  - OPEN GRATES REQUIRE APPROVAL BY CITY, AND MUST BE BICYCLE SAFE IF USED IN TRAFFIC AREAS.



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WLWSD  
WILLAMETTE PRIMARY SCHOOL  
4TH AVENUE IMPROVEMENTS

GENERAL NOTES AND DETAILS

PROJ. NO: 11456-11003  
DRWN: STS CHKD: MBW

C3

SHEET - OF -