

PROJECT LOCATION

VICINITY MAP

NOTE 3/2016:
 THESE DRAWINGS WERE FOUND IN CITY HALL BASEMENT (BUILDING DEPT. FILES) AND MARKED: HY 43 MCDONALDS
 THEY ARE NOT MARKED AS APPROVED PLANS. NO COVERSHEET WAS INCLUDED IN ORIGINAL DRAWING SET.
 DRAWING SET WAS RETURNED TO BASEMENT AND NOT RETAINED BY WEST LINN GIS FOR GIS MAPPING, NO DRAWINGS HAD BEEN ENTERED OR RETAINED AT TIME OF DATA ENTRY (BETWEEN 2004-2006).
 SCANNER SETTINGS:
 FORMAT: PDF, COMPRESSION: MAX
 RESOLUTION: HIGH (300 DPI)
 COLOR: BLACK AND WHITE,
 CONTENT TYPE: MIXED
 ORIGINAL PAPER TYPE: OLD/RECYCLED PAPER
 BACKGROUND REMAL: 6
 ONLY PRIVATE STORMWATER FACILITY PAGES WERE SCANNED. ADDITIONAL BUILDING DRAWINGS ARE INCLUDED IN THE ORIGINAL DRAWING SET
 K.A.H.A

- (A) 4" S.S. "GRAY" WASTE LINE
C.O. INV.=173.7
L=6' S=2.0% (MIN)
- (B) 4" S.S. "BLACK" WASTE LINE
C.O. INV.=173.7
L=6' S=2.0% (MIN)
- (C) 1,000 GALLON GREASE INTERCEPTOR
- (D) 6" ROOF DRAIN
INV. IN=173.55 WYE INV.=173.95
L=15' S=2.0%

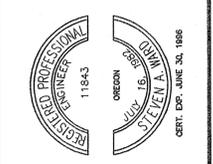
NOTE:
 FOR OFF-SITE IMPROVEMENTS
 SEE ADDITIONAL SHEETS

CONTRACTOR TO INSTALL TWO 1 1/2" W.M.'s CONTRACTOR TO COORD. AND PAY ALL COSTS

CONTRACTOR TO INSTALL A DOUBLE CHECK VALVE ASSY. TO IRRIGATION LINE

CITY TO TAP EXIST'G WATER MAIN. CONTRACTOR TO COORD. & PAY ALL COSTS.

REV	DATE	DESCRIPTION	ISSUE REF



McDonald's
 WESTTECH ENGINEERING, INC.
 CONSULTING ENGINEERS AND PLANNERS

3421 28th ST. S.E. SALEM, OR.
 (503) 966-2474

McDonald's
 THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF MCDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

5000 S.W. MEADOWS ROAD, SUITE 200
 LAKE OSWEGO, OREGON 97035 (503) 684-9934

OFFICE ADDRESS

SCALE:	HORIZ: - 1"=20'
	VERT: -
DESIGNED BY:	- CGB
DRAWN BY:	- CGB
CHECKED BY:	- SAW
DATE:	- MAY, 1995
GRADING, DRAINAGE AND UTILITY PLAN	

PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION

DATE: _____ RECD. BY: _____

WESTTECH
 MAY 16 1995
 PRINTED

WEST LINN/HGWY 43

C3

GENERAL NOTES:

- CONTRACTOR SHALL PROCURE AND CONFORM TO ALL CONSTRUCTION PERMITS REQUIRED BY THE CITY OF WEST LINN.
- CONTRACTOR SHALL PROCURE A RIGHT-OF-ENTRY PERMIT FROM ODOT STATE HIGHWAY DIVISION FOR ALL WORK WITHIN THE STATE RIGHT-OF-WAY AND CONFORM TO ALL CONDITIONS OF THE PERMIT.
- CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.
- CONTRACTOR TO NOTIFY CITY, ODOT AND ALL UTILITY COMPANIES A MINIMUM OF 48 BUSINESS HOURS (2 BUSINESS DAYS) PRIOR TO START OF CONSTRUCTION, AND COMPLY WITH ALL OTHER REQUIREMENTS OF ORS 757.541 TO 757.571.
- ALL MATERIALS AND WORKMANSHIP FOR PUBLIC FACILITIES SHALL CONFORM TO THE CITY AND ODOT STANDARD CONSTRUCTION SPECIFICATIONS WHEREIN EACH HAS JURISDICTION, UNLESS OTHERWISE APPROVED BY THE ENGINEER. CONSTRUCTION OF ALL PUBLIC FACILITIES SHALL BE DONE BETWEEN 7:00 A.M. AND 6:00 P.M.
- CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER CITY AND ODOT REQUIREMENTS IN ACCORDANCE WITH THE MUTCD (INCLUDING OREGON AMENDMENTS). ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON THE CONSTRUCTION SITE AT ALL TIMES WHEREIN HE WILL RECORD ANY APPROVED DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS THE STATION LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE FIELD RECORDED DRAWINGS SHALL BE KEPT UP TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BY THE ENGINEER UPON REQUEST.
- UPON COMPLETION OF CONSTRUCTION OF PUBLIC FACILITIES, CONTRACTOR SHALL SUBMIT A COMPLETE SET OF FIELD RECORDED DRAWINGS CONTAINING ALL AS-BUILT INFORMATION TO THE ENGINEER FOR SUBMITTAL.
- THE CONTRACTOR SHALL SUBMIT A SUITABLE MAINTENANCE BOND PRIOR TO FINAL PAYMENT WHERE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.
- ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED ON THE INVERT ELEVATION OF CITY OF WEST LINN'S SANITARY SEWER MANHOLE #2A-37-2-3 SITUATED ON THE SOUTH SIDE OF WALLING WAY IN THE DRIVEWAY FOR FIRST INTERSTATE BANK. INVERT ELEVATION 161.31.
- SEE ARCHITECTURAL DRAWINGS FOR SITE LIGHTING; SITE DIMENSIONING AND CONTINUATION OF ALL UTILITIES.

EXISTING UTILITIES & FACILITIES:

- THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CONFLICT. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY GRADE MODIFICATIONS WITHOUT DELAYING THE WORK. IF GRADE MODIFICATION IS NECESSARY, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CONSTRUCTION. ALL UTILITY CROSSINGS SHALL BE FORMED AS NECESSARY PRIOR TO EXCAVATING OR BORING TO ALLOW THE CONTRACTOR TO PREVENT GRADE OR ALIGNMENT CONFLICTS.
- ALL EXISTING FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
- UTILITIES, OR INTERFERING PORTIONS OF UTILITIES, THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES.
- CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, ETC., AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION AND REPLACE THEM TO EXISTING OR BETTER CONDITION.

GRADING, PAVING & DRAINAGE:

- CONTRACTOR TO REVIEW SOILS REPORT PREPARED BY AGI, AND CONFORM TO ALL RECOMMENDATIONS LISTED IN THE REPORT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO INSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST OR DEBRIS.
- UNLESS OTHERWISE NOTED, ALL GRADING, ROCKING AND PAVING TO CONFORM TO OSHD STANDARD SPECIFICATIONS, 1991 EDITION.
- STRIP WORK LIMITS, REMOVING ALL ORGANIC MATTER WHICH CANNOT BE COMPACTED INTO A STABLE MASS. ALL TREES, BUSHES AND DEBRIS ASSOCIATED WITH CLEARING, STRIPPING OR GRADING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
- IMMEDIATELY FOLLOWING FINE GRADING OPERATIONS, CONTACT SURGRADE TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-150 TEST METHOD. SUBGRADE MUST BE INSPECTED AND APPROVED BY ENGINEER PRIOR TO PLACING EMBANKMENTS OR BASE ROCK.
- FILLS SHALL BE CONSTRUCTED IN 6" LIFTS. EACH LIFT SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-150 TEST METHOD.
- CRUSHED ROCK SHALL CONFORM TO THE REQUIREMENTS OF SECTION 02430 (BASE AGGREGATE) OSHD STANDARD SPECIFICATIONS. CONTACT TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-150 TEST METHOD.
- UNLESS OTHERWISE SHOWN, 6-INCHES NOMINAL CURB EXPOSURE USED FOR DESIGN OF ALL PARKING LOT AND STREET GRADES.
- A.C. PAVEMENT SHALL CONFORM TO SECTION 00745 (ASPHALT CONCRETE PAVEMENT) OSHD STANDARD SPECIFICATIONS FOR STANDARD DUTY MIX. A.C. PAVEMENT SHALL BE COMPACTED TO A MINIMUM OF 91% OF MAXIMUM DENSITY AS DETERMINED BY THE RICE STANDARD METHOD.
- ALL PLANTER AREAS SHALL BE BACKFILLED WITH APPROVED TOP SOIL MINIMUM 8" THICK. STRIPPING MATERIALS SHALL NOT BE USED FOR PLANTER BACKFILL.
- ALL EXISTING OR CONSTRUCTED MANHOLES, CLEANOUTS, MONUMENTS, GAS VALVES, WATER VALVES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO MATCH FINISH GRADE OF THE PAVEMENT, SIDEWALK, LANDSCAPED AREA OR MEDIAN STRIP WHEREIN THEY LIE.
- CONTRACTOR SHALL HYDROSEED ALL EXPOSED SLOPES AND DISTURBED AREAS WHICH ARE NOT SCHEDULED TO BE LANDSCAPED.
- GRADING SHOWN ON THE DRAWINGS IS CRITICAL TO FUNCTIONING OF DRAINAGE SYSTEM AND SHALL BE STRICTLY FOLLOWED.
- CONTRACTOR SHALL COORDINATE AND ENSURE THAT DETENTION FOND VOLUMES ARE INSPECTED AND APPROVED BY PUBLIC AGENCIES HAVING JURISDICTION PRIOR TO PAVING AND LANDSCAPING.

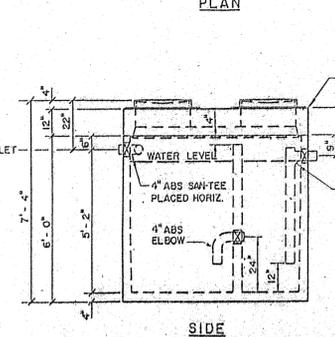
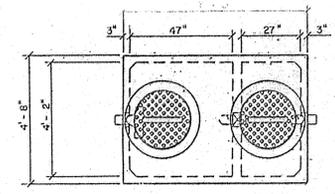
FREED UTILITIES:

- CONTRACTOR SHALL COORDINATE AND PAY ALL COSTS ASSOCIATED WITH CONNECTING TO EXISTING WATER, SANITARY SEWER AND STORM SEWER FACILITIES.
- UNLESS OTHERWISE NOTED, MATERIALS AND WORKMANSHIP FOR WATER, SANITARY SEWER AND STORM SEWER SHALL CONFORM TO CITY OF WEST LINN'S STANDARD SPECIFICATIONS.

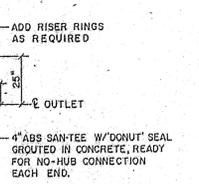
- ALL PIPES SHALL BE BEDDED WITH MINIMUM 4-INCHES OF 3/4" MINUS CRUSHED ROCK BEDDING AND BACKFILLED WITH COMPACTED 3/4" MINUS CRUSHED ROCK IN THE PIPE ZONE. CRUSHED ROCK SHALL EXTEND A MINIMUM OF 12-INCHES OVER THE TOP OF THE PIPE IN ALL CASES. CRUSHED ROCK TRENCH BACKFILL SHALL BE USED UNDER ALL IMPROVED AREAS.
- ALL NON-METALLIC WATER, SANITARY AND STORM SEWER PIPING SHALL HAVE AN ELECTRICALLY CONDUCTIVE INSULATED 17 GA COPPER TRACER WIRE THE FULL LENGTH OF THE INSTALLED PIPE USING BLAZE WIRE FOR WATER AND GREEN FOR STORM AND SANITARY PIPING. TRACER WIRE SHALL BE EXTENDED UP INTO ALL VALVE BOXES, AND MANHOLES AND CATCH BASINS. TRACER WIRE PENETRATIONS INTO MANHOLES SHALL BE WITHIN 18 INCHES OF THE RIM ELEVATION AND ADJACENT TO MANHOLE STEPS. THE TRACER WIRE SHALL BE TIED TO THE TOP MANHOLE STEP OR OTHERWISE SUPPORTED TO ALLOW RETRIEVAL FROM THE OUTSIDE OF THE MANHOLE.
- NO TRENCHES IN ROADS OR DRIVEWAYS SHALL BE LEFT IN AN OPEN CONDITION OVERNIGHT. ALL SUCH TRENCHES SHALL BE CLOSED BEFORE THE END OF EACH WORK DAY AND NORMAL TRAFFIC FLOWS RESTORED.
- WATER
- CITY FORCES TO OPERATE ALL VALVES ON EXISTING PUBLIC MAINS.
- WATER SERVICE PIPE SHALL BE TYPE K 2 INCH SOFT COPPER TUBING CONFORMING TO ASTM B 88.
- DOMESTIC AND FIRE BACKFLOW PREVENTION DEVICES AND VAULTS SHALL CONFORM TO REQUIREMENTS OF PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.
- WHERE SANITARY SEWER LINES CROSS ABOVE OR WITHIN 18-INCHES VERTICAL SEPARATOR BELOW A WATERLINE, SEWER MAINS AND/OR LATERALS SHALL BE REPLACED WITH DUCTILE IRON PIPE AT THE CROSSING. CENTER ONE FULL LENGTH OF CLASS 50 DI PIPE COMFORMING TO AWWA C-151 AND C-154 AT POINT OF CROSSING. CONNECT TO EXISTING SEWER LINES WITH ENGINEER APPROVED RUBBER COUPLINGS.
- SANITARY SEWER
- UNLESS OTHERWISE SHOWN, SANITARY SEWER PIPE SHALL BE PVC IN CONFORMANCE WITH ASTM D-3034, SDR 35. ALL OTHER APPURTENANCES AND INSTALLATION TO CONFORM TO THE CITY SPECIFICATIONS.
- STORM SEWER
- CATCH BASINS AND JUNCTION BOXES SHALL BE SET SQUARE WITH BUILDINGS OR WITH THE EDGE OF THE PARKING LOT OR STREET WHEREIN THEY LIE.
- UNLESS OTHERWISE NOTED OR SHOWN, STORM SEWER PIPE MATERIALS TO CONFORM TO THE TABLES BELOW. CONTRACTOR SHALL USE UNIFORM PIPE MATERIAL ON EACH PIPE RUN BETWEEN STRUCTURES UNLESS OTHERWISE DIRECTED OR APPROVED.

COVER DEPTH	4" - 18" DIAMETER
LESS THAN 1" COVER	CLASS 50 DUCTILE IRON PIPE WITH BELL AND SPIGOT JOINTS AND RUBBER GASKET
1" TO 24" COVER	PIPE SPECIFIED FOR LESSER COVER DEPTHS -OR- CLASS 3, ASTM C-14 NON-REINFORCED CONCRETE PIPE WITH RUBBER BELL AND SPIGOT JOINTS AND RUBBER GASKET
24" TO 15' COVER	PIPE SPECIFIED FOR LESSER COVER DEPTHS -OR- PVC PIPE CONFORMING TO ASTM D-3034 SDR 35 (14"-15") OR ASTM F-407 (14") WITH BELL AND SPIGOT JOINTS AND RUBBER GASKET -OR- HDPE (HIGH DENSITY POLYETHYLENE) PIPE CONFORMING TO AASHTO M-252 (14"-15") OR AASHTO M-251 (12"-14"). HDPE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M-294 TYPE B WITH PRESSURE TIGHT FITTINGS AND G-FLANG GASKETS CONFORMING TO ASTM F-1336 AND ASTM F-477 RESPECTIVELY.

- SWEEP STORM SEWER PIPE INTO CATCH BASINS AND MANHOLES AS REQUIRED.
- UNLESS OTHERWISE SHOWN OR DIRECTED, INSTALL STORM SEWER PIPE IN ACCORDANCE WITH MANUFACTURERS INSTALLATION GUIDELINES.
- PRIVATE UTILITIES
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED BY JURISDICTION HAVING AUTHORITY, ALL NEW PRIVATE UTILITIES (POWER, CABLE TV, TELEPHONE & GAS) SHALL BE INSTALLED UNDERGROUND. INSTALLATION OF PRIVATE UTILITIES IN A COMMON TRENCH WITH WATER, SANITARY SEWER OR STORM SEWER IS PROHIBITED.
- CONTRACTOR SHALL COORDINATE WITH POWER, TELEPHONE, AND CABLE TV COMPANY FOR LOCATION OF VAULTS, PEDESTALS, ETC. ALL ABOVE-GRADE FACILITIES SHALL BE PLACED IN A LOCATION OUTSIDE THE PROPOSED SIDEWALK LOCATION.
- POWER, TELEPHONE AND TV TRENCHING AND CONDUITS SHALL BE INSTALLED PER UTILITY COMPANY REQUIREMENTS WITH BULL WIRE. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY FOR SIZE AND TYPE OF CONDUIT PRIOR TO CONSTRUCTION. ALL CHANGES IN DIRECTION OF UTILITY CONDUIT RUNS SHALL HAVE LONG RADIUS STEEL BENDS.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WITH PRIVATE UTILITIES FOR RELOCATION OF POWER POLES, VAULTS, ETC.

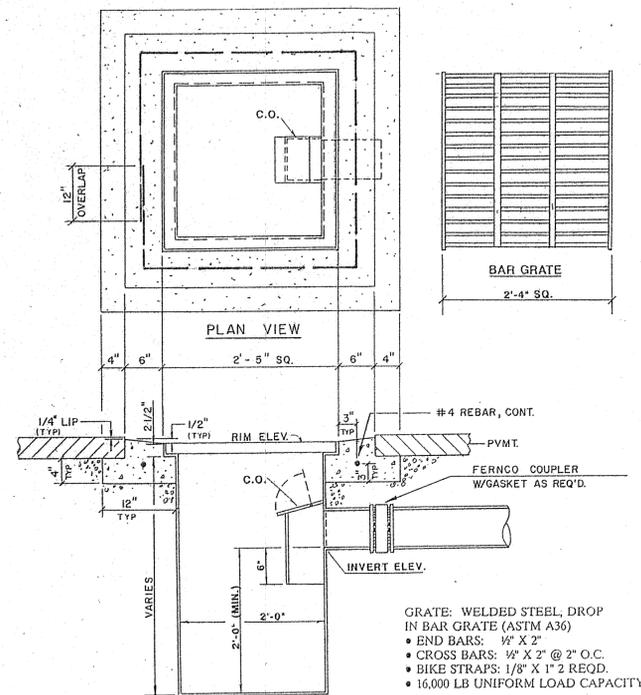


NOTE:
CONTRACTOR TO VERIFY DIMENSIONS FOR DISTANCE FROM GRADE TO CENTERLINE.



UTILITY VAULT COMPANY
P.O. BOX 383
WILSONVILLE, OREGON
(503)-682-2811
(503)-682-2657 FAX

1000 GALLON GREASE INTERCEPTOR



FOR JUNCTION BOX, REPLACE GRATE WITH 3/4" STEEL PLATE; DRILL ONE, 1-INCH LIFTING HOLE, CENTERED IN ONE END OF THE PLATE. ATTACH SHIMS TO RIM AS REQUIRED TO RAISE PLATE TO RIM ELEVATION.

BASEIN: WELDED 1/4" STEEL, COATED ALL SURFACES WITH ASPHALTIC PAINT.

OUTLET: SIZE AS REQUIRED FOR INDICATED PIPE SIZE.

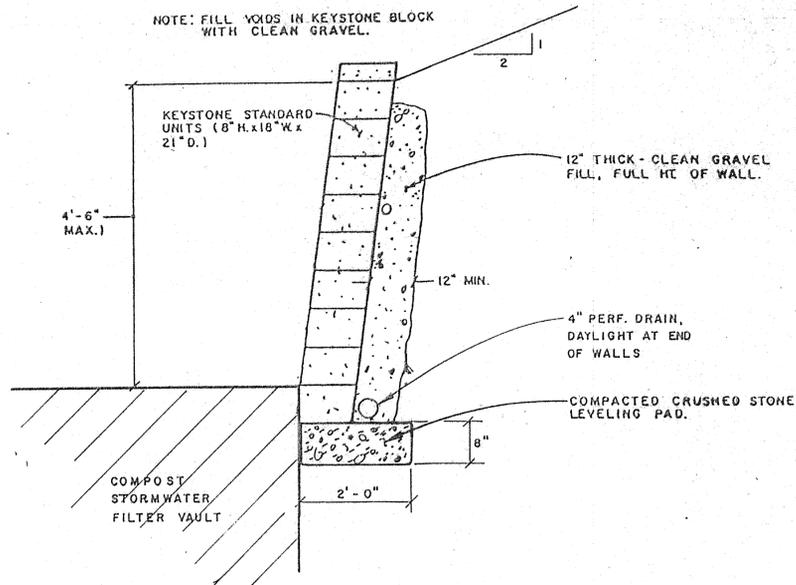
- GRATE: WELDED STEEL, DROP IN BAR GRATE (ASTM A36)
- END BARS: 1/2" X 2"
- CROSS BARS: 1/2" X 2" @ 2" O.C.
- BIKE STRAPS: 1/8" X 1" 2 REQ'D.
- 16,000 LB UNIFORM LOAD CAPACITY

CATCH BASIN DETAIL

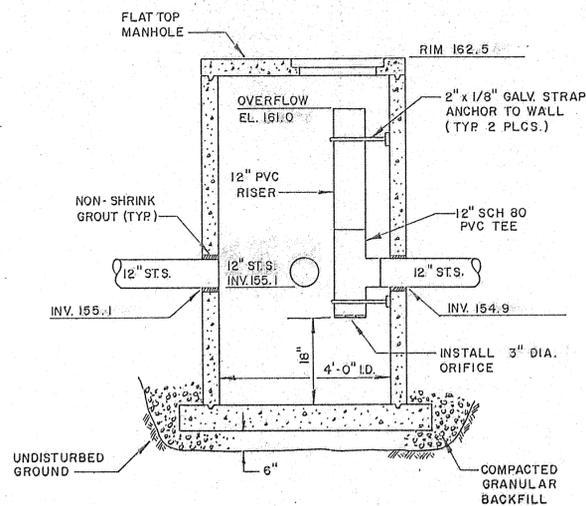
STRUCTURAL NOTES:

- CONCRETE: 28 DAY COMPRESSIVE STRENGTH f'c = 4500 PSI
- REBAR: ASTM A-615 GRADE 60
- MESH: ASTM A-185 GRADE 65
- STEEL: ASTM A-36 GRADE 36
- GALVANIZING: ASTM A-123-89 & A-153-87 (HOT DIPPED)
- STEEL DESIGN: ALSO MANUAL OF STEEL CONSTRUCTION 9TH EDITION.
- CONCRETE DESIGN: ACI-318-89 BUILDING CODE
ASTM C-897 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES"
- LOADS AASHTO H-20 16 KIP WHEEL LOAD w/ 30% IMPACT (10" X 20" FOOTPRINT)
AASHTO LIVE LOAD SURCHARGE (2' SOIL) TO 8' DEPTH
EFFECTIVE SOIL PRESSURE BELOW WATER TABLE = 80 p.c.f.
EFFECTIVE SOIL PRESSURE ABOVE WATER TABLE = 45 p.c.f.
- SOIL COVER: 1' - 6" MIN. w/ WATER TABLE 3' - 0' BELOW FINISHED GRADE
5' - 0" MAX. w/ WATER TABLE 3' - 0' BELOW FINISHED GRADE
0' MIN. w/ WATER TABLE BELOW BOTTOM OF VAULT
5' 0" MAX. w/ WATER TABLE BELOW BOTTOM OF VAULT

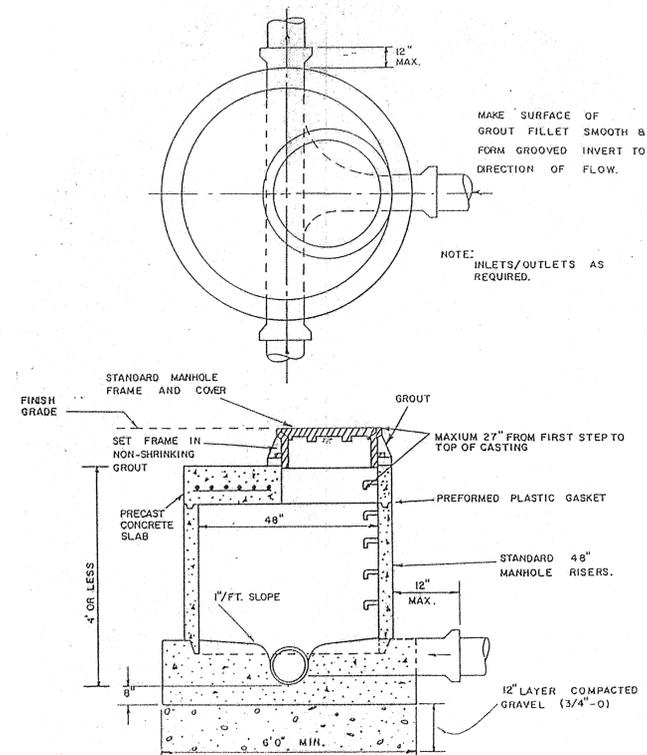
BY	ISSUE REF
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McDonald's <small>THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF McDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.</small>	
OFFICE ADDRESS 5000 S.W. MEADOWS ROAD SUITE 200 LAKE OSWEGO, OREGON 97035 (503)684-9334	
SCALE:	HORIZ: - 1"=20'
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DETAILS	
WEST LINN/HGWY 43 C3-A	



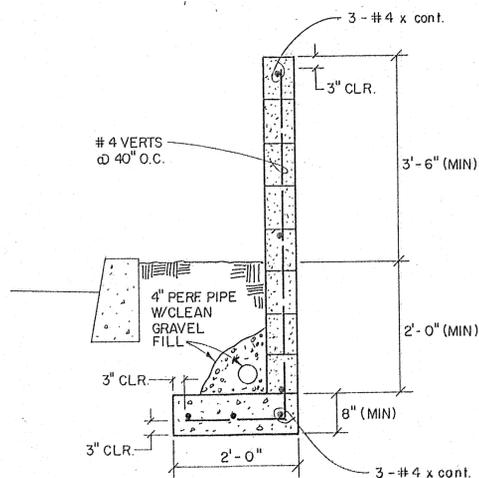
**KEYSTONE RETAINING WALL
AT COMPOST STORMWATER FILTER VAULT**



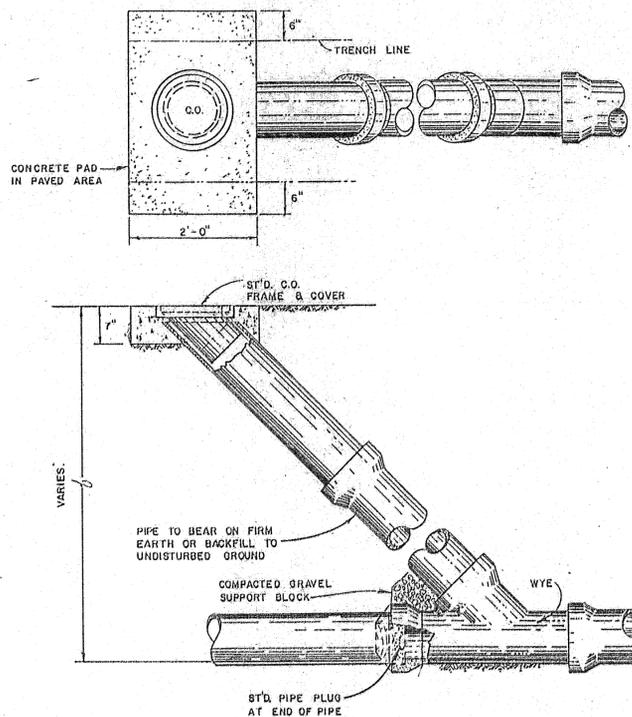
FLAT TOP FLOW CONTROL MANHOLE



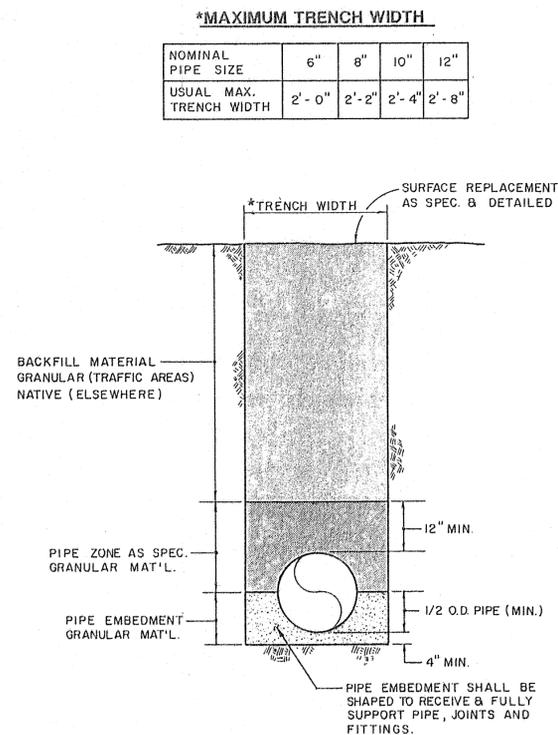
FLAT TOP STORM SEWER MANHOLE



SCREEN WALL DETAIL



STD. CLEANOUT



PIPE TRENCH

***MAXIMUM TRENCH WIDTH**

NOMINAL PIPE SIZE	6"	8"	10"	12"
USUAL MAX. TRENCH WIDTH	2'-0"	2'-2"	2'-4"	2'-8"

REV.	DATE	DESCRIPTION	BY	ISSUE REF.



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CONSULTING ENGINEERS AND PLANNERS

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LAKE OSWEGO, OREGON 97035 (503) 664-9334

OFFICE ADDRESS

SCALE: - 1" = 20'

HORIZ. -

VERT. -

DESIGNED BY: - CGB

DRAWN BY: - CGB

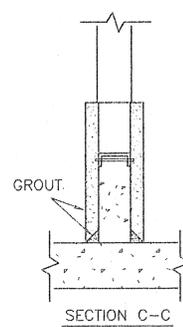
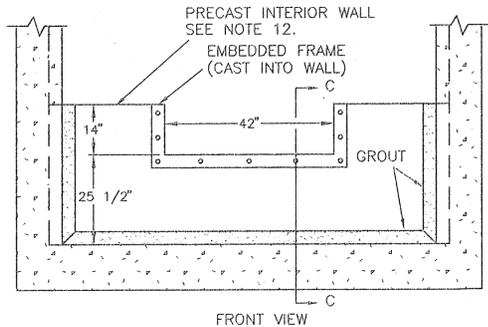
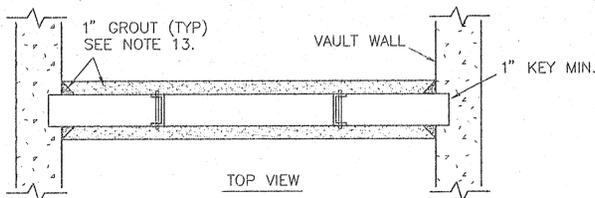
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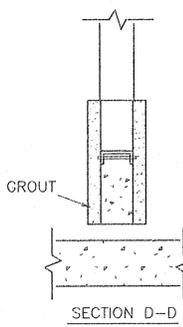
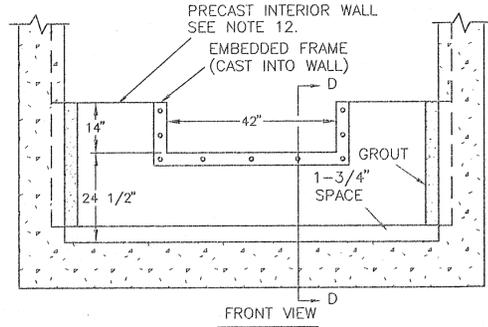
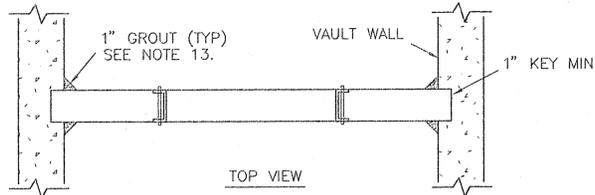
DETAILS

WEST LINN/HGWY 43 C3-B

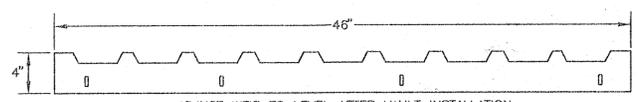
PEN WTS: 1 2 3 4 1 3 1 8 8 8 8 8 8 8 8 8



UPSTREAM INTERIOR WALL
N.T.S. 3 C3-D



DOWNSTREAM INTERIOR WALL
N.T.S. 4 C3-D

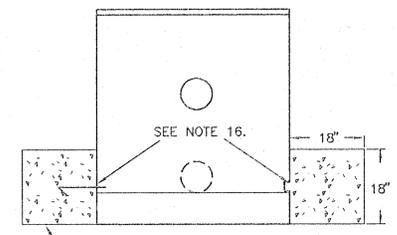


TRAPEZOIDAL WEIR DETAIL
N.T.S. 2 C3-D

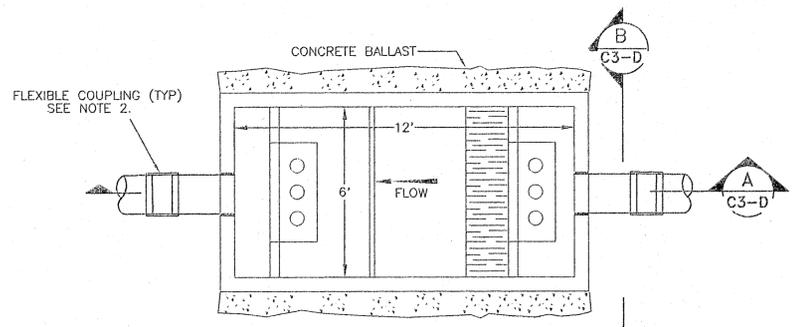
NOT IN CONTRACT

MAINTENANCE:

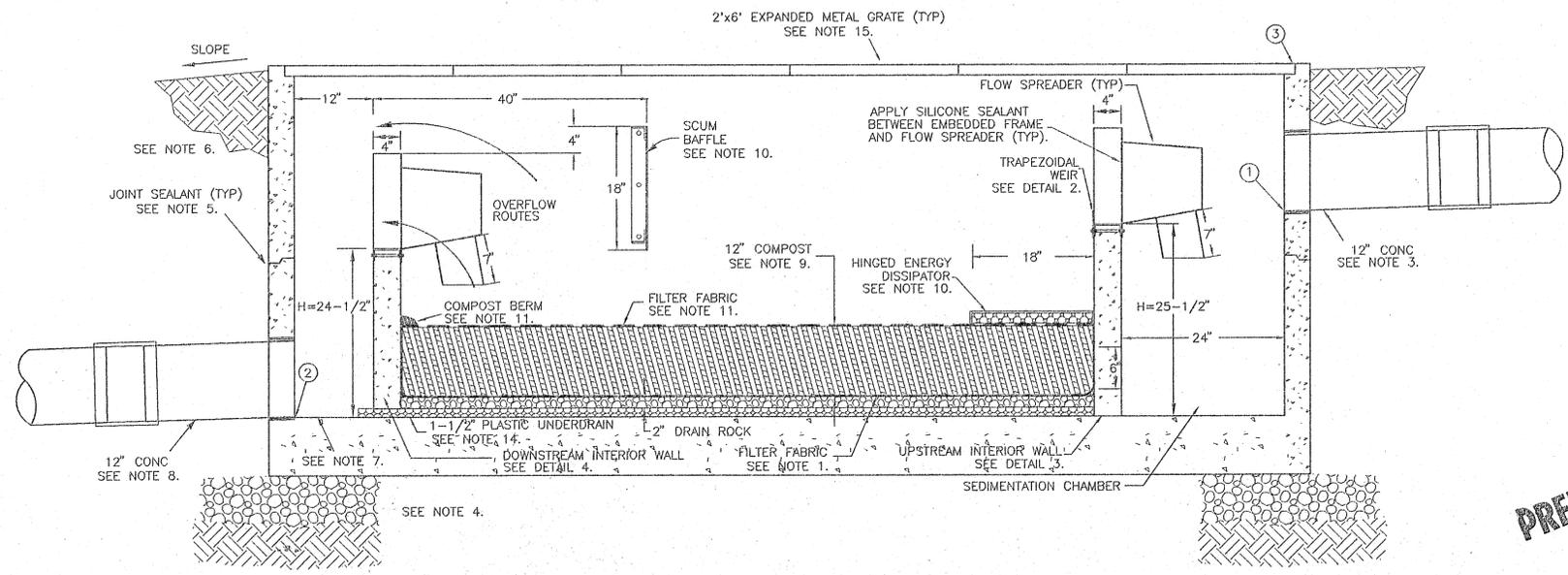
THE CSF™ MUST BE MAINTAINED. REFER TO THE OPERATIONS AND MAINTENANCE MANUAL FOR DETAILS.



BALLAST DETAIL
N.T.S. B C3-D



PLAN VIEW
N.T.S. 1 C3-D



12'x6' "DROP IN" SECTION VIEW
N.T.S. A C3-D

MATERIALS LIST:

- a.) VAULT: PRECAST CONCRETE VAULT TO MEET OR EXCEED THE APPLICABLE REQUIREMENTS OF ASTM C858-83. CONTRACTOR TO SUBMIT SHOP DRAWING TO CSF TREATMENT SYSTEMS, INC'S ENGINEER.
- b.) COMPOST: CSF TREATMENT SYSTEMS, INC. PORTLAND, OREGON OR ENGINEER APPROVED. MOISTURE CONTENT (WET WEIGHT BASIS) BETWEEN 15% AND 19%. SCREENED TO 5/8" MINUS.
- c.) DRAIN ROCK: 5/8" TO 3/4" OPEN GRADED, CLEAN & WASHED
- d.) INTERIOR APPURTENANCES:
 PLASTIFAB "FLOW KIT" COMPONENTS (PLASTI-FAB, INC., TUALATIN, OREGON OR ENGINEER APPROVED)
 FLOW SPREADER 46" - 2 (MODEL FS-1)
 EMBEDDED FRAME - 2 (OPTIONAL FOR PRE-CASTERS)
 TRAPEZOIDAL WEIR 46" - 1 (MODEL TW46)
 SCUM BAFFLE 18" - 1 (MODEL SBB6)
 HINGED ENERGY DISSIPATOR 18" - 1 (MODEL HED6)
 FILTER FABRIC - 122 S.F. - 6.5'x8.5' AND 7'x9.5'. (AMOCO 4545 OR ENGINEER APPROVED)
 UNDERDRAIN - 51 S.F. - 6'x8.5'. (ADS AdvanEDGE OR ENGINEER APPROVED)
 (ALL COMPONENTS CONSTRUCTED FROM FIBERGLASS AND PVC PLASTIC)

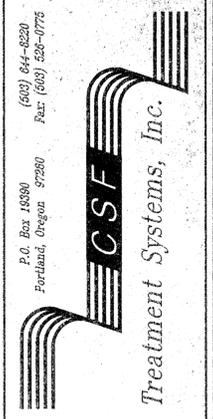
NOTES:

- 1.) FILTER FABRIC SHALL EXTEND 6" ABOVE THE BASE OF THE COMPOST ON ALL FOUR SIDES. TAPE FILTER FABRIC TO VAULT WALL PRIOR TO COMPOST INSTALLATION TO PREVENT COMPOST FROM GETTING BETWEEN FABRIC AND VAULT WALL.
- 2.) PROVIDE FLEXIBLE COUPLINGS TYPICAL ALL PIPES. COUPLING TO BE SET 18" OUTSIDE FACE OF WALL. FERNOD OR ENGINEER APPROVED.
- 3.) INSTALL ALL PIPES FLUSH WITH VAULT WALL.
- 4.) SUB-BASE TO BE 6" (MIN) OF 3/4" MINUS DRAIN ROCK, 95% COMPACTION. COMPACT UNDISTURBED SUBGRADE MATERIALS TO 95% OF MAX. DENSITY AT ±2% OF OPTIMUM MOISTURE. UNSUITABLE MATERIAL BELOW SUBGRADE SHALL BE REPLACED TO ENGINEER'S APPROVAL.
- 5.) JOINT SEALANT TO BE CONSEAL CS-101 OR ENGINEER APPROVED. APPLY NON-SHRINK GROUT TO INTERIOR FACE AFTER SEALING.
- 6.) MATCH TOP OF VAULT TO EXISTING GRADE TO FACILITATE DRAINAGE AWAY FROM VAULT.
- 7.) VAULT FLOOR SHALL BE LEVEL WITHIN 1/4" ACROSS THE WIDTH. LENGTH SHALL BE LEVEL OR SLOPING DOWNSTREAM TO A MAX. OF 1" PER 12'.
- 8.) GROUT ALL PIPES IN PLACE.
- 9.) CONTRACTOR MUST NOTIFY CSF TREATMENT SYSTEMS (503-644-8220) 48 HOURS PRIOR TO COMPOST INSTALLATION. COMPOST INSTALLATION: INSTALL 12" OF COMPOST. DO NOT COMPACT. SLOWLY AND UNIFORMLY WET COMPOST AFTER INSTALLATION TO THE POINT WHERE WATER DRAINS FROM OUTLET AND STOP. COMPOST MAY SETTLE SOME DURING THE WETTING PROCESS.
- 10.) DRILL 1/2" HOLE AND SET THREADED ANCHOR. USE RAWL STAINLESS STEEL DROP-IN OR ENGINEER APPROVED. INSTALL WITH 3/8" STAINLESS STEEL BOLTS & WASHERS. EMBEDDED UNI-STRUT ALTERNATIVE ACCEPTABLE.
- 11.) INSTALL 6' X 8.33' FILTER FABRIC ON TOP OF COMPOST BED. PLACE A BERM OF COMPOST AROUND THE EDGE OF THE FABRIC TO HOLD THE FABRIC IN PLACE. BERM SHALL BE ABOUT 4 INCHES IN WIDTH AND DEPTH. BERM NOT SHOWN IN ITS ENTIRETY ON DRAWING FOR CLARITY.
- 12.) INTERIOR WALLS SHALL BE 3,000 PSI MIN. CONTRACTOR SHALL SUBMIT SHOP DRAWING TO CSF TREATMENT SYSTEMS, INC'S ENGINEER.
- 13.) CONTRACTOR SHALL SEAL ALL JOINTS, BOTH SIDES, WITH NON-SHRINK GROUT.
- 14.) UNDERDRAIN SHALL EXTEND A MINIMUM OF 1" BEYOND THE DOWNSTREAM INTERIOR WALL.
- 15.) EXPANDED METAL GRATE TOP WITH FRAME AND SUPPORTS. GRATE SHALL BE MADE OF SIX 2'x6' PANELS. SUBMIT SHOP DRAWING TO CSF TREATMENT SYSTEMS, INC'S ENGINEER FOR APPROVAL.
- 16.) TO ATTACH BALLAST CAST A 1" DEEP X 2" WIDE CONTINUOUS KEYWAY OR EMBED 9" J-HOOKS AT AN 18" SPACING ALONG ENTIRE LENGTH OF FILTER.

ELEVATIONS:

- ① IE IN 12" CONC PIPE = 163.5
- ② IE OUT 12" CONC PIPE AND VAULT FLOOR = 161.25
SEE NOTE 7.
- ③ TOP OF VAULT = 165.7±

PROJECT NO. 88-1958-001
CADD DWG. OSP-DJWMS



McDONALDS CORPORATION
PORTLAND, OREGON
WEST LINN SITE
COMPOST STORMWATER FILTER
SERIAL No. 88-1995-0101

Plot Date: 05/16/95
Design: MOM
Drawn: MOM
Checked:

Revisions:

REGISTERED PROFESSIONAL
ENGINEER
17,626
MICHAEL OWEN MYERS
OREGON
JAN 17, 1988
EXPIRES: 12/31/96

Sheet Number
C3-D

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