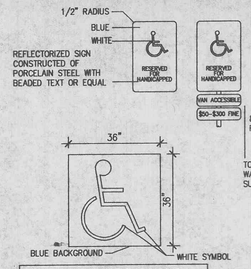
NOTE: SIGN TO BE CENTERED AT THE INTERIOR END OF PARKING SPACE

AREA OF SIGN TO BE A MIN OF 70 SQ. IN.

DESIGNATE FOR "VAN ACCESSIBLE" WHERE APPROPRIATE

EMBLEM MUST BE LOCATED IN STALL SO THAT IT IS VISIBLE BY A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED IN THE SPACE (CENTERED AT ENTRANCE TO STALL RECOMMENDED)

WHERE A FINE IN EXCESS OF $100 IS ESTABLISHED BY AN MUNICIPALITY BY ORDINANCE IN ACCORDANCE WITH THE STATUES, THE ACTUAL AMOUNT OF THE FINES SHOULD BE SHOWN, MOUNT DIRECTLY BELOW HANDICAPPED SIGN.



NOTE: SIGN ON PAVEMENT OF PARKING SPACE. VERIFY DESIGN W/ LOCAL AUTHORITY

HANDICAPPED ACCESSIBLE SIGN

NOT TO SCALE

CURB RAMPS:
- MINIMUM 36" WIDE
- MAXIMUM SLOPE OF RAMP 1:12
- MAXIMUM SLOPE OF FLARES 1:10

ACCESSIBLE ROUTE:
SIDEWALKS ALONG THE ACCESSIBLE ROUTE SHALL NOT HAVE A SLOPE EXCEEDING 1:20. SLOPES GREATER THAN 1:20 MUST BE DESIGNED AS A RAMP.

RAMPS:
- MINIMUM 36" CLEAR WIDTH
- MAXIMUM SLOPE OF RAMP 1:12
- MAXIMUM 30" RISE IN THE RAMP RUN BETWEEN INTERMEDIATE 60" LANDINGS
- LANDINGS REQUIRED AT TOP AND BOTTOM (60" DEEP X MIN. 36" WIDE)
- RAMPS RISING MORE THAN 6" OR A RUN GREATER THAN 72" NEED HANDRAILS ON BOTH SIDES. PROVIDE SPOT ELEVATIONS AT EACH LANDING AND AT THE TOP AND BOTTOM OF RAMP.
- A LEVEL AREA OF 60" X 60" FRONT APPROACH OR 48" X 60" SIDE APPROACH IS REQUIRED OUTSIDE OF THE ENTRANCE DOORS FOR WHEELCHAIR MANEUVERABILITY.
- NO STEP AT ACCESSIBLE ENTRANCE DOORS.

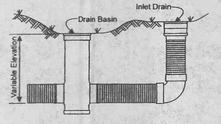
A-2000 PVC Drainage Pipe Fittings and Appurtenances

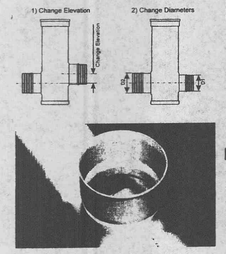
Inline Drains and Drain Basins

The illustrations below show a typical installation of a CONTECH Drain Basin and Inline Drain. Tables 1 and 2 provide details of the fittings.

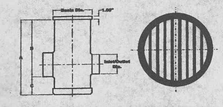
Drain Basin Applications

The most common Drain Basin applications are changing elevations or changing diameter. The illustration below demonstrates typical usage.





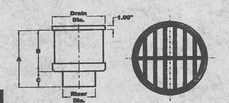
) Elbows, wyes, tees, reducers, and other fittings are readily available.



Drain Basin

Basin Diameter (5)	Inlet/Outlet Diameter (4)	A	B	C (3)
12"	4"-12"	(1)	(1)	4.25
15"	4"-15"	(1)	(1)	4.50
18"	4"-18"	(1)	(1)	5.50
21"	4"-21"	(1)	(1)	5.75
24"	4"-24"	(1)	(1)	5.75
30"	4"-30"	(1)	(1)	7.00

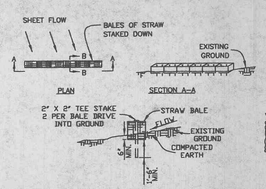
NOTES: (1) Variable elevations available. (2) Values shown are minimum. (3) A, B or C dimensions (for each inlet/outlet) must be provided when ordering. (4) Must be equal to or smaller than basin diameter. (5) Other drain basin sizes, including 36" may be available upon request.



Inline Drain

Drain Diameter	Riser Diameter	B	C
(1)	(4)	(2)	(3)

NOTES: (1) Must be equal to or smaller than drain diameter. (2) Drain depth VARIES depending on drain diameter. (3) This fixed dimension varies depending on drain and riser diameters. (4) Other inline drain sizes, including 36" may be available upon request.

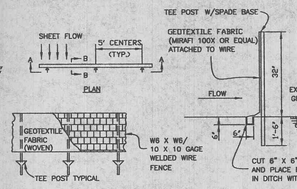


STRAW BALE DETAIL

NOT TO SCALE

MAINTENANCE FOR STRAW BALE BARRIERS

1. FILTER BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE BALES DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE BALES SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH EXISTING GRADE, PREPARED AND SEEDED.



SILTATION FENCE DETAIL

NOT TO SCALE

MAINTENANCE FOR SYNTHETIC FILTER BARRIERS

1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH EXISTING GRADE, PREPARED AND SEEDED.

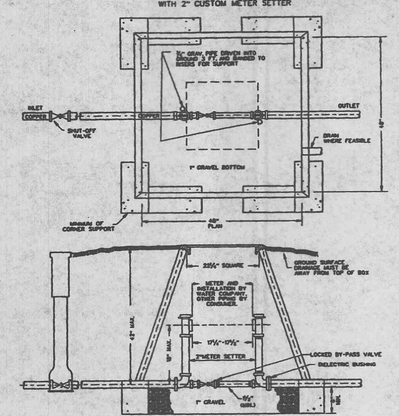
SILTATION CONTROL DETAILS

EROSION AND SEDIMENT CONTROL DEVICES SHALL BE SUFFICIENT TO PROTECT ALL OFF-SITE PROPERTY FROM SILTATION AND SHALL BE INSTALLED PRIOR TO BEGINNING OF ANY GRADING OR CONSTRUCTION. THE SILTATION CONTROL MEASURES SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ISSUANCE OF A BUILDING PERMIT. THESE DEVICES SHALL BE MAINTAINED DURING THE CONSTRUCTION ACTIVITIES. FAILURE TO MAINTAIN THESE DEVICES AUTHORIZES THE PUBLIC WORKS DEPARTMENT TO ISSUE A STOP WORK ORDER FOR THE BUILDING PERMIT UNTIL SUCH DEVICES ARE RESTORED.

NOTE: THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR TO PROTECT OFF-SITE PROPERTY FROM EROSION OR SILTATION. THE ENGINEER SHALL NOT BE LIABLE FOR DAMAGE CAUSED BY EROSION OR SILTATION DUE TO DEFECTIVE SILTATION CONTROL DEVICES.

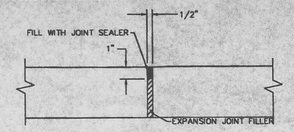
METER BOX FOR 1½"-2" & 2½" SERVICES

WITH 2" CUSTOM METER SETTER



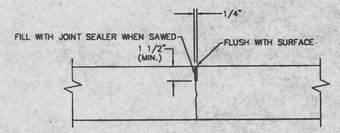
NOTES

1. LIDS AND FRAMES OF OPENING TO BE SET IN PLACE NOT IN CONCRETE.
2. METER SETTER MUST BE STAKED AND BANDED ON EACH END TO PROVIDE ADEQUATE SUPPORT.
3. SERVICE TO BE RUN AT RIGHT ANGLES FROM METER BOX AND TO BE NOT OVER 42" BELOW FINISHED GRADE OF METER BOX.
4. BOX MAY BE CONSTRUCTED SQUARE, 22½" AND 3 1/2" IN HEIGHT INSIDE DIMENSIONS OF CONCRETE HAVING OPENING CENTERED OVER METER.
5. METER BOX TO BE LOCATED IN AREA OTHER THAN DRIVEWAY OR WHERE SURFACE WATER WILL NOT DRAIN INTO IT.
6. STANDARD PRECAST TRAPEZOIDAL SIDES AVAILABLE.
7. SHUT-OFF VALVE TO BE LOCATED AS NEAR TO BOX AS PRACTICAL.
8. COPPER MUST EXTEND A MIN OF 6" FROM BOTTOM OF METER BOX.
9. FUTURE TIES MUST BE MADE BEFORE METER PIT AND PIPING ARE COMPLETE AND PROPERTY LINE VALVE INSTALLED, UNLESS APPROVED BY CUSTOMER SERVICE SUPERVISOR.



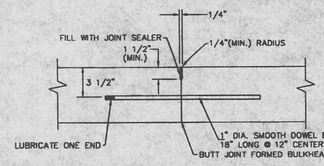
EXPANSION JOINT

NO SCALE



TRANSVERSE CONSTRUCTION JOINT

NO SCALE



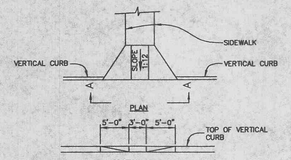
TYPE D TRANSVERSE CONSTRUCTION JOINT

NO SCALE

JOINT DETAILS

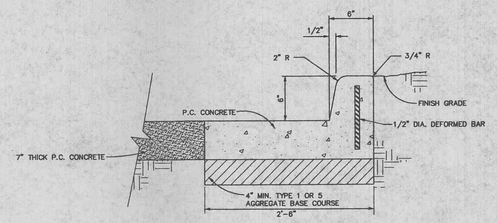
CONCRETE JOINT NOTES:

1. INSTALL TRAVERSE CONSTRUCTION JOINTS AT ALL LOCATIONS WHERE NEW CONCRETE WILL ABUT EXISTING CONCRETE.
2. EXPANSION JOINTS SHALL BE PROVIDED BETWEEN EXISTING STRUCTURES (BUILDINGS, MANHOLES, VALVES, ETC.) AND NEW CONCRETE.



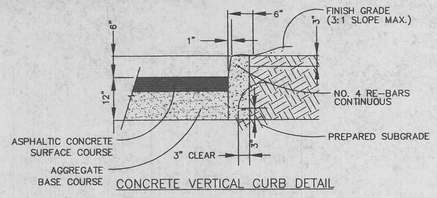
CONCRETE ACCESSIBLE RAMP DETAIL

NOT TO SCALE

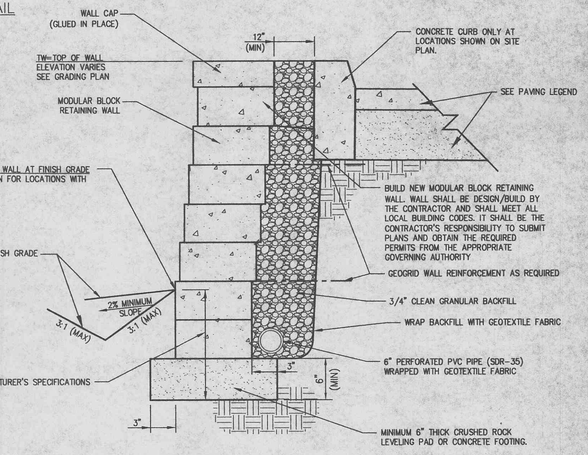


PAVEMENT AND CONCRETE VERTICAL CURB & GUTTER DETAIL AT ENTRANCES

NO SCALE



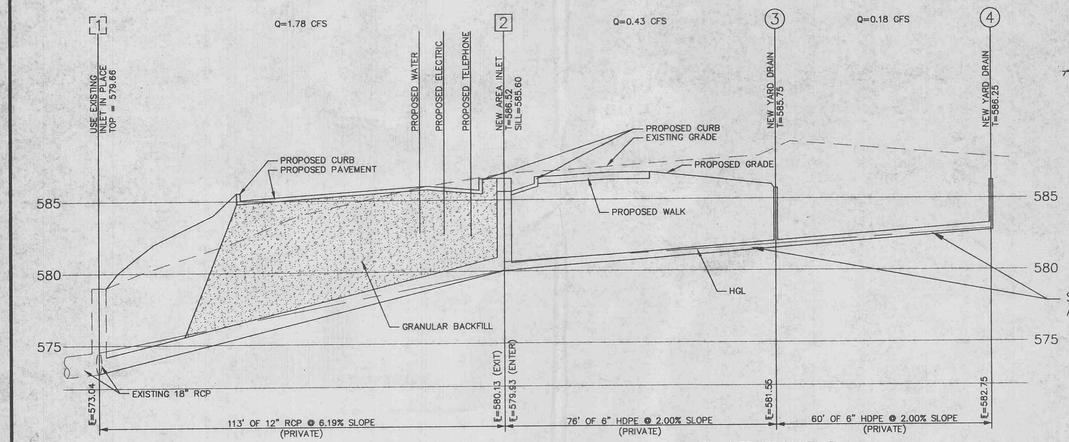
CONCRETE VERTICAL CURB DETAIL



NOTE:
IT SHALL BE THE DESIGN BUILD CONTRACTOR'S RESPONSIBILITY TO DETERMINE BOTTOM OF FOOTING ELEVATIONS.

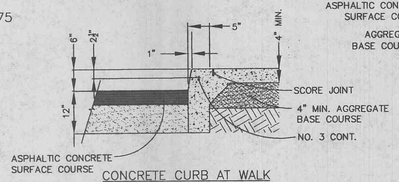
TYPICAL MODULAR BLOCK RETAINING WALL DETAIL

NOT TO SCALE



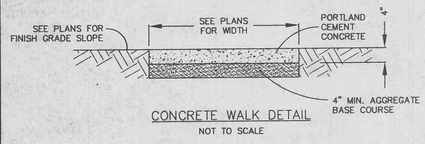
STORM SEWER PROFILE

SCALE: 1"=5' VERTICAL
1"=20' HORIZONTAL



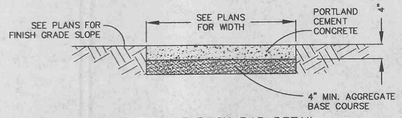
CONCRETE CURB AT WALK

NOT TO SCALE



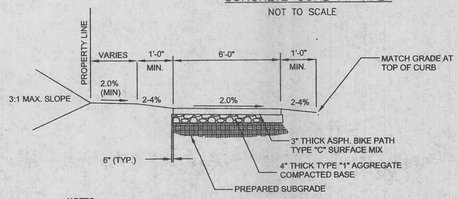
CONCRETE WALK DETAIL

NOT TO SCALE



BICYCLE RACK PAD DETAIL

NOT TO SCALE



NOTES:
PROVIDE CONCRETE HANDICAP RAMP WHERE TRAIL INTERSECTS ACCESS DRIVES OR STREETS OR WHERE TRAIL INTERSECTS WITH CURBING (SEE PLAN).

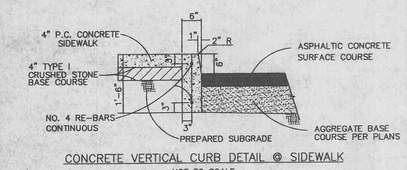
PROVIDE STRIPING OR A COLORED TEXTURED PAVEMENT THROUGH THE ACCESS DRIVES OR STREETS INTO THE DEVELOPMENT.

MAXIMUM SLOPE OF THE PATH SHALL NOT EXCEED 8% AND 2% CROSS SLOPE PER CITY OF OFALLON SPECIFICATIONS.

THE TRAIL SHALL BE CONSTRUCTED WITH A CONSISTENT SLOPE WITH VERTICAL CURVES A MINIMUM OF 50' IN LENGTH. AFTER FINAL COMPRESSION, THE SURFACE SHALL BE SMOOTH AND TRUE TO THE ESTABLISHED CROWN AND GRADE. ANY LOW OR DEFECTIVE PLACES SHALL IMMEDIATELY BE REMEDIED BY CUTTING OUT THE COURSE AT SUCH SPOTS AND REPLACING IT WITH FRESH HOT MIXTURE, WHICH SHALL BE IMMEDIATELY COMPACTED TO CONFORM WITH THE SURROUNDING AREA AND SHALL BE THOROUGHLY BONDED TO IT. THE FINISHED PAVEMENT SHALL BE SET FREE FROM DEPRESSIONS EXCEEDING ONE-EIGHTH INCH AS MEASURED WITH A TEN-FOOT STRAIGHT EDGE PARALLELING THE CENTERLINE OF THE TRAIL.

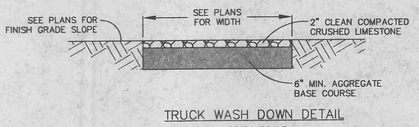
MULTI-USE PATH DETAIL

NOT TO SCALE



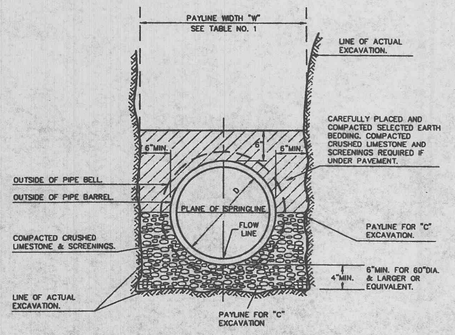
CONCRETE VERTICAL CURB DETAIL @ SIDEWALK

NOT TO SCALE



TRUCK WASH DOWN DETAIL

NOT TO SCALE



PIPE BEDDING CLASS "C" (MODIFIED FOR REINFORCED CONCRETE PIPE)

NO SCALE

UTILITY LOCATION NOTE

THE UNDERGROUND UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NONEXISTENCE, SIZE, TYPE, NUMBER OR LOCATION OF THESE OR OTHER UTILITIES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319, RSMO.

PLANING & ZONING FILE #0604

POEHLMAN & PROST, INC.
Land Surveying and Civil Engineering

P.O. Box 8340
9393 Dielman Industrial Drive
St. Louis, Missouri 63132
(314) 997-5777
FAX 997-0407
E-Mail: pp@poehlman-prost.com

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DRAWN BY: B. URBAN II	DATE: 1-16-04	
CHECKED BY: T. HAMILTON	DATE: 1-16-04	
PROOFED #: 2045MH	DATE: 1-16-04	

Project: RELIANCE BANK (NORTHWEST CORNER OF MISSOURI STATE HIGHWAY K & HUTCHINGS FARM)

Prepared For:
RELIANCE BANK
11781 MANCHESTER ROAD
DES PERES, MISSOURI
314-965-5300

Seal: STATE OF MISSOURI THOMAS E. PROST NUMBER E-23601 6-17-04 REGISTERED PROFESSIONAL ENGINEER

Sheet Title: STORM SEWER PROFILE AND DETAILS

Project Number: 203-078

Sheet: C5 OF 8

ENGINEERING/SURVEYING AUTHENTICATION

THE RESPONSIBILITY FOR PROFESSIONAL ENGINEERING/SURVEYING LIABILITY ON THIS PROJECT IS HEREBY LIMITED TO THE SET OF PLANS AUTHENTICATED BY THE SEAL, SIGNATURE AND DATE HERE UNDER ATTACHED. RESPONSIBILITY IS DISCLAIMED FOR ALL OTHER ENGINEERING/SURVEYING PLANS INVOLVED IN THE PROJECT AND SPECIFICALLY EXCLUDES REVISIONS AFTER THIS DATE UNLESS RE-AUTHENTICATED.

ENGINEERING/SURVEYING RELEASE

THE ORIGINAL OF THIS DRAWING IS ON FILE AT THE OFFICE OF POEHLMAN & PROST, INC. ANY MODIFICATIONS TO THIS DRAWING SHALL RELEASE SAID POEHLMAN & PROST, INC., THE ENGINEER AND/OR SURVEYOR WHOSE SEAL APPEARS HEREON FROM ANY LIABILITY RESULTING FROM SAID UNAUTHORIZED MODIFICATIONS.

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