STORM WATER SEWER TO SERVE
LOT 4, ROCK ISLAND INDUSTRIAL PARK
Private Project Number
1055 PPS (007861)
CITY OF WICHITA, KANSAS

Michael L. Lindebak, P.E. City Engineer

August, 2000

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Storm Sewers VRH 8/21/00

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
2. EXISTING UTILITIES AND THEIR LOCATIONS AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR PLANS. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
3. CONTRACTOR SHALL PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

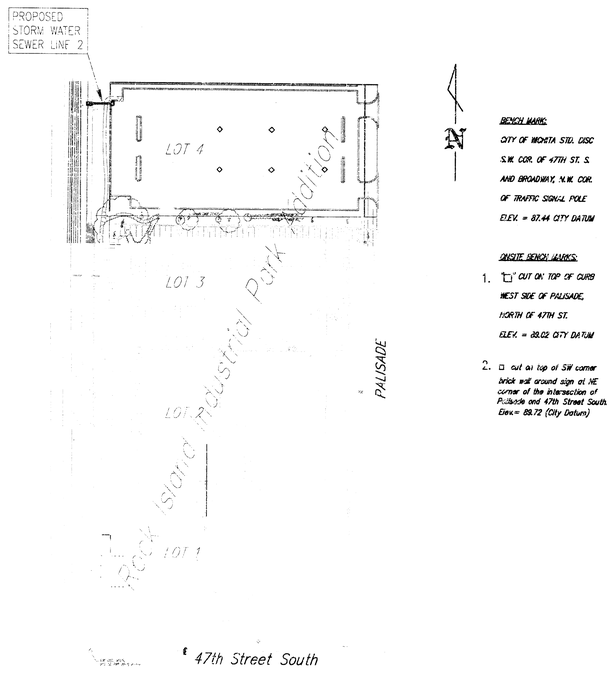
KANSAS ONE CALL	1-800-344-7233 OR 307-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

SOUTHWESTERN BELL TELEPHONE CO.	1-800-734-7630
CABLEVISION	262-0661
KG&E (GAS & ELECTRIC)	363-8600
CITY OF WICHITA WATER & SEWER MAINTENANCE	258-4908

IF THE CONTRACTOR DAMAGES EITHER GAS OR ELECTRIC LINES, HE SHALL IMMEDIATELY INFORM EMERGENCY PERSONNEL THROUGH 911.

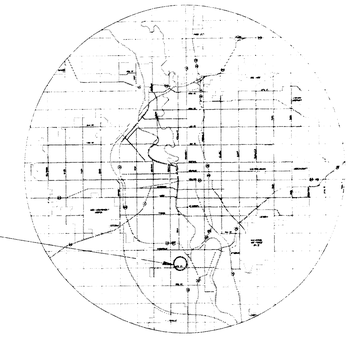
4. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIROMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL PLACED INTO WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEER PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCK-PILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED LOCATION.
5. COST OF EXCAVATION, HAULING, AND DUMPING OF EXCESS EXCAVATION SHALL BE SUBSIDIARY TO THE PROJECT.
6. CONTRACTOR SHALL INSTALL SEDIMENT BARRIERS AS INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLING ALL EROSION CAUSED BY STORM SEWER CONSTRUCTION.
7. PRIOR TO LAYING SEWER LINES CONNECTING TO EXISTING PIPES, THE CONTRACTOR SHALL EXPOSE AND VERIFY THE ELEVATION, GRADE AND ALIGNMENT OF EXISTING PIPES AND NOTIFY THE ENGINEER OF ANY DEVIATION FROM THE PLAN.
8. ALL GRASS AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED WITH RYE GRASS AT A RATE OF 200LBS/ACRE WITHIN 10 DAYS OF CONSTRUCTION. COST SHALL BE SUBSIDIARY TO THE PROJECT.
9. CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED TO THE PROJECT AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION.



KEY MAP

BENCH MARK:
CITY OF WICHITA STD. DISC S.W. COR. OF 47TH ST. S. AND BROADWAY, N.W. COR. OF TRAFFIC SIGNAL POLE
ELEV. = 87.44 CITY DATUM

ONSITE BENCH MARKS:
1. "□" CUT ON TOP OF CURB WEST SIDE OF PALISADE, NORTH OF 47TH ST.
ELEV. = 88.02 CITY DATUM
2. □ cut at top of SW corner brick wall ground sign at NE corner of the intersection of Palisade and 47th Street South. Elev.= 88.72 (City Datum)



LOCATION MAP

INDEX TO DRAWINGS

DESCRIPTION	SHEET NUMBER
Title Sheet	1
Key Map - Grading	2
Site Plan	3
Plan/Profile	4
Storm Sewer Details	5

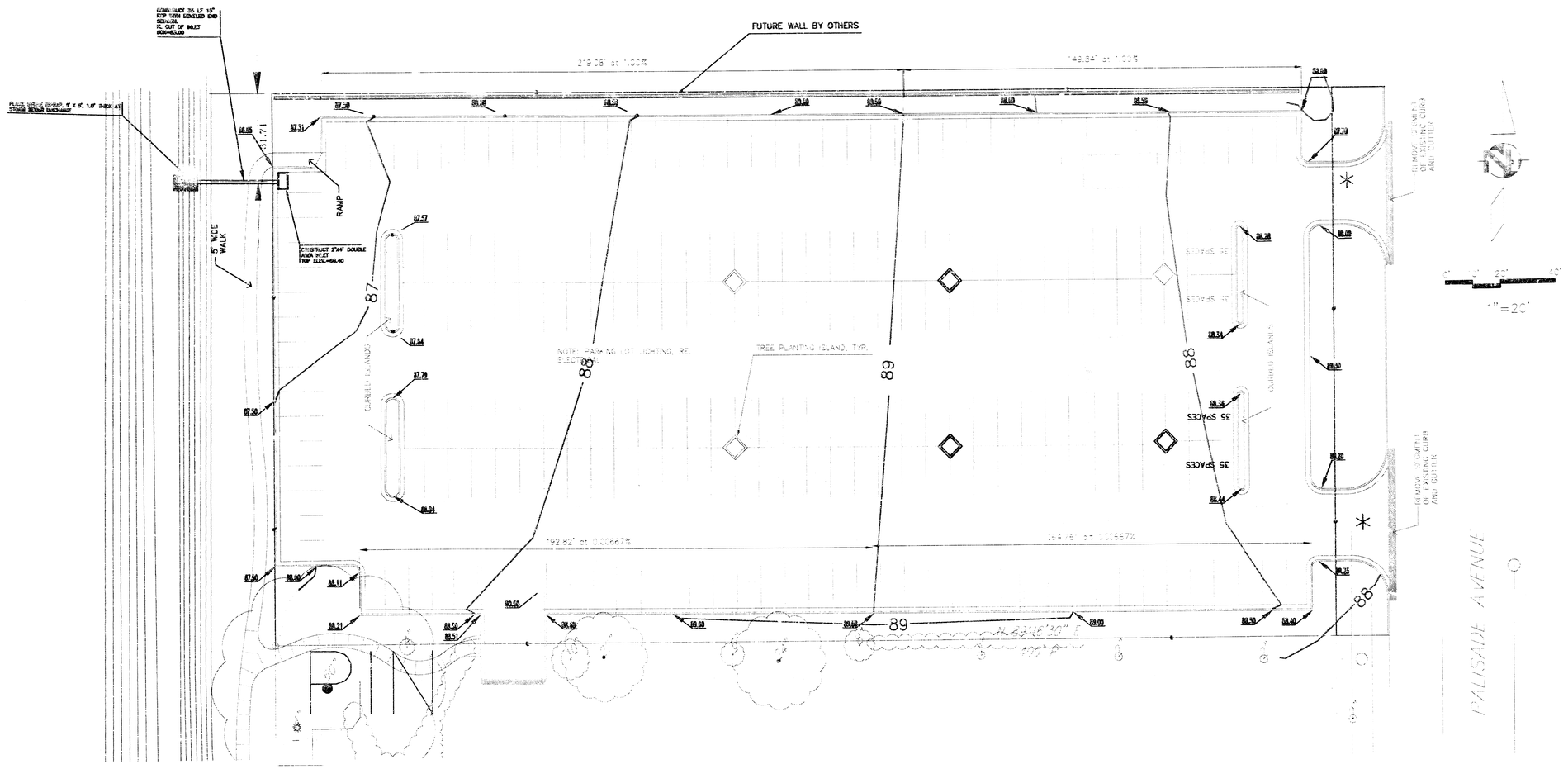
Donald Lynn Moore
8-21-00

INTEGRATED SOLUTIONS, INC.
ENVIRONMENTAL, HEALTH AND SAFETY CONSULTANTS
WICHITA, KS

LOT 4, ROCK ISLAND INDUSTRIAL PARK
STORM WATER SEWER

TITLE SHEET

DATE	JOB NO.	SHEET NO.
08/18/00	000730	1 5



——— proposed final contours

✳ TRANSITION FROM EXISTING STREET ELEVATION TO NEW PARKING PAVEMENT.

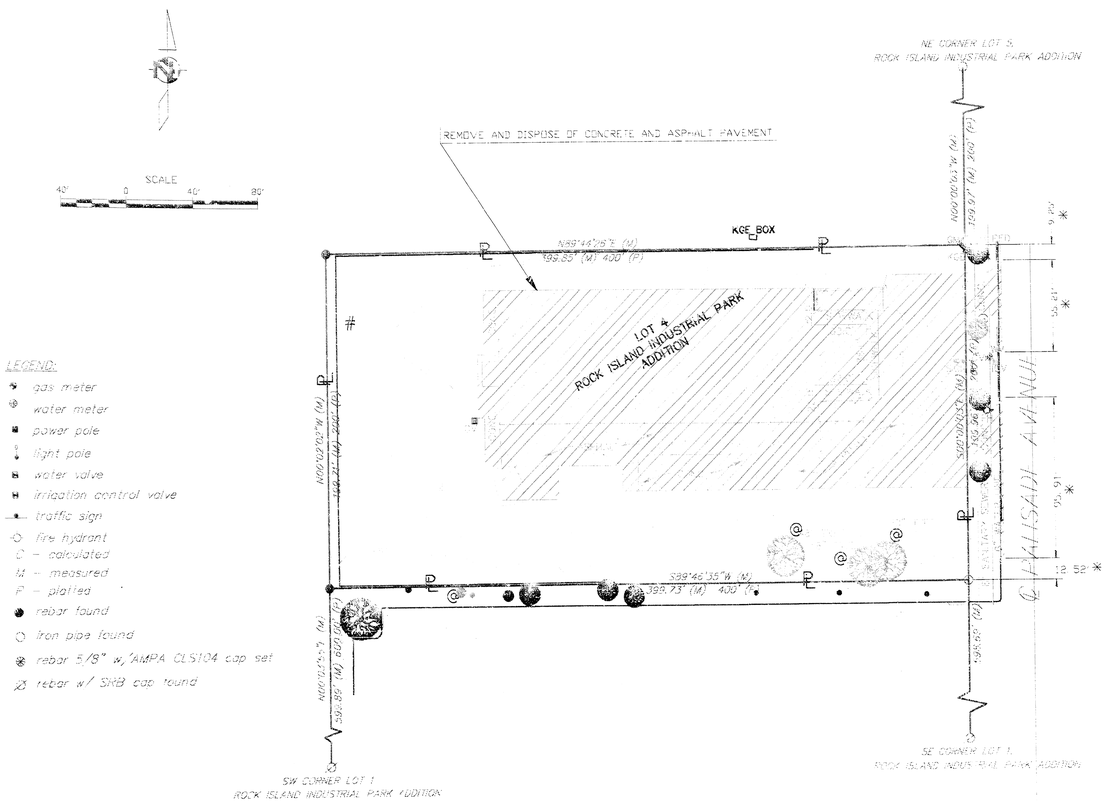
Daniel Lyman Moore
8-21-00

INTEGRATED SOLUTIONS
ENVIRONMENTAL, HEALTH AND SAFETY CONSULTANTS
WICHITA, KS

LOT 4, ROCK ISLAND INDUSTRIAL PARK
GRADING AND DRAINAGE

KEY MAP - GRADING

D.M.	D.M.	D.M.
08.17.00	000730	2 5



LEGEND:

- gas meter
- water meter
- power pole
- light pole
- water valve
- irrigation control valve
- traffic sign
- fire hydrant
- C – calculated
- M – measured
- P – platted
- rebar found
- iron pipe found
- rebar 5/8" w/AMPA CLS104 cap set
- rebar w/ SKB cap found

BENCHMARKS

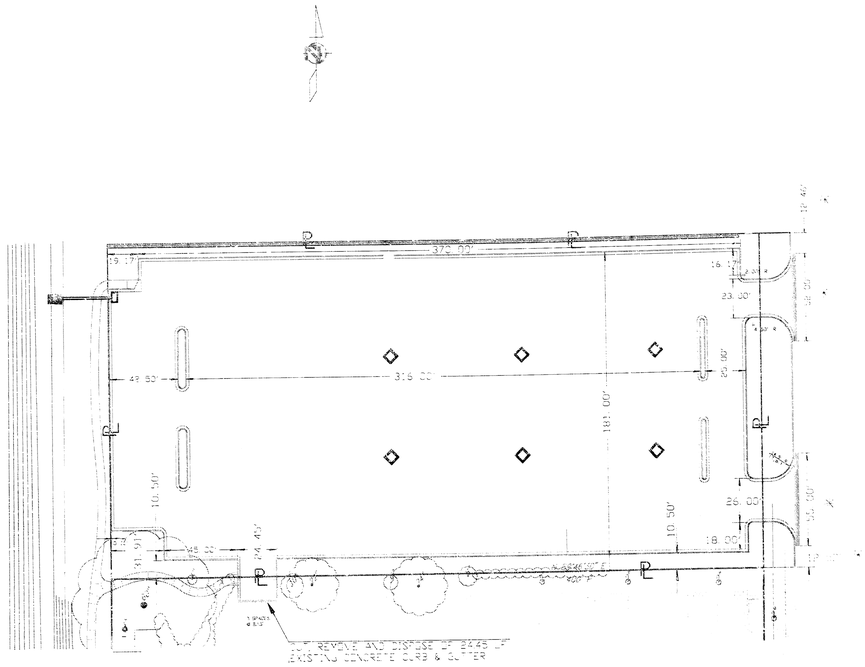
□ cut on top of SW corner brick wall around sign at NE corner of the intersection of Palisade and 47th Street South. Elev.= 89.72 (City Datum)

EXISTING TOPOGRAPHY

* CUT AND REMOVE CONCRETE CURB AND GUTTER TO THESE DIMENSIONS

@ REMOVE AND DISPOSE OF TREES INDICATED

\# REMOVE AND DISPOSE OF CHAIN LINK FENCE



PAVING DIMENSIONS

CONSTRUCT NEW CURB AND GUTTER WITH NEW DRIVE APPROACHES TO THE INDICATED DIMENSIONS. ALL DIMENSIONS ARE TO BACK OF CURB OR TO PROPERTY LINE

FILL, COMPACTION, SUBGRADE PREPARATION AND PAVEMENT SHALL BE AS RECOMMENDED IN THE 1999 SOILS REPORT

Darrel Lynn Moore
8-21-00

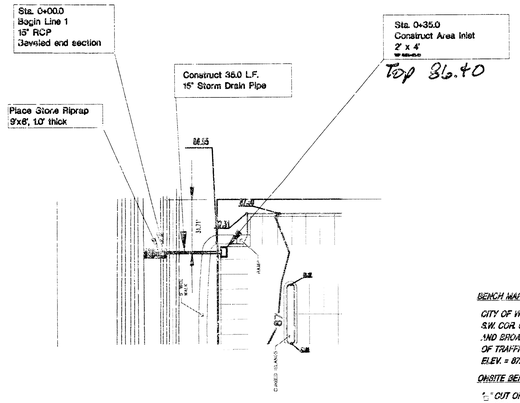
HEALTH SAFETY ENVIRONMENT

INTEGRATED SOLUTIONS™
ENVIRONMENTAL, HEALTH AND SAFETY CONSULTANTS
WICHITA, KS

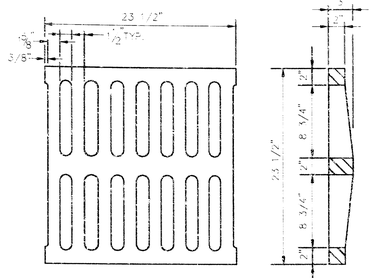
LOT 4, ROCK ISLAND INDUSTRIAL PARK STORM WATER SEWER

SITE PLAN

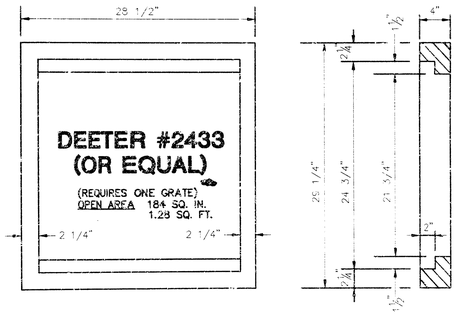
3 5


Sta. 0+00.0
Begin Line 1
15" RCP
Beveled end section
Construct 35.0 L.F.
15" Storm Drain Pipe
Sta. 0+35.0
Construct Area Inlet
2' x 4'
Top 86.40
Place Stone Riprap
9'x6', 1.0' thick
84.55
87.44
87.31
87.31
84.55
87.44
87.31
87.31
84.55
87.44
87.31
87.31

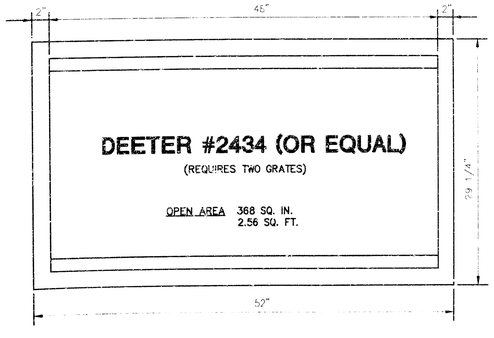
NOTE: GRATES SHALL BE IMPRINTED ON THE TOP SURFACE WITH "CITY OF WICHITA" USING LETTERS AT LEAST 1" IN HEIGHT. OTHER MARKING METHODS MAY BE USED ONLY IF APPROVED BY THE ENGINEER.



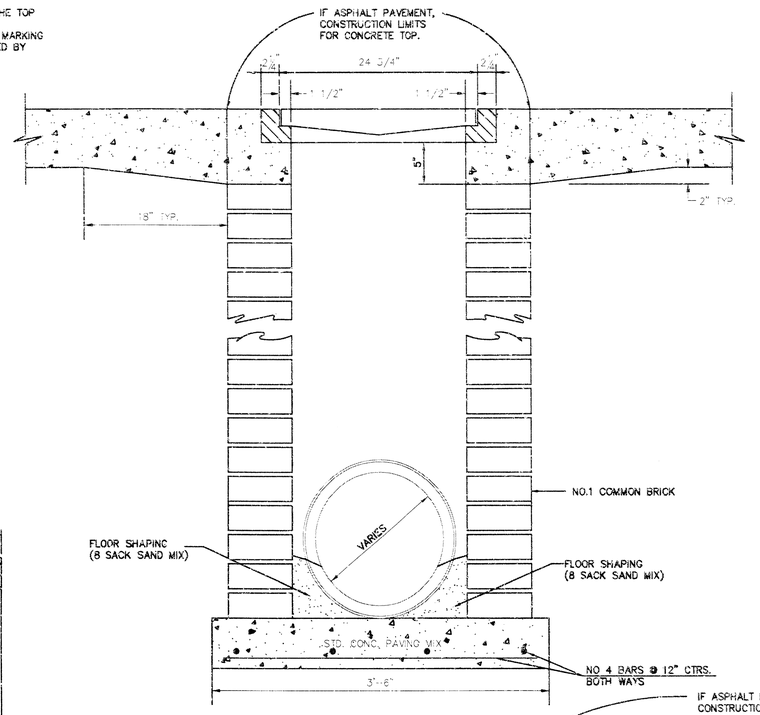
24"x24" GRATE DETAIL

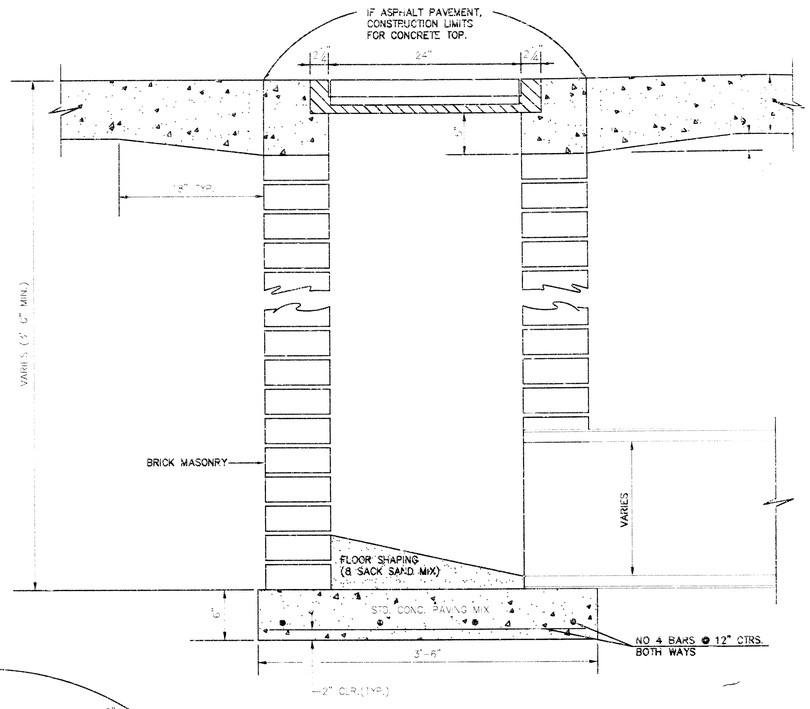


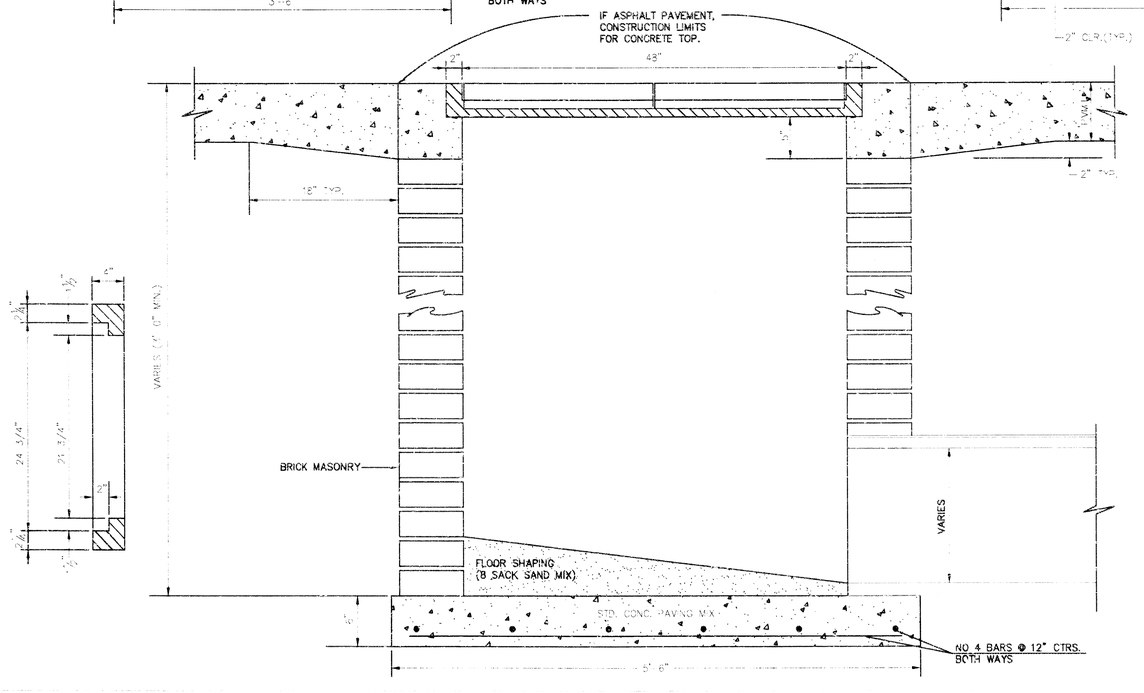
SINGLE 24"x24" FRAME DETAIL



DOUBLE 24"x24" FRAME DETAIL







ORIFICE EQUATION		
$Q=C^*A^*\sqrt{2gh}$ C=0.60		
h (DEPTH)	#2433 (SINGLE)	#2434 (DOUBLE)
0.1	1.95 cfs	3.89 cfs
0.2	2.75 cfs	5.50 cfs
0.3	3.37 cfs	6.74 cfs
0.4	3.89 cfs	7.78 cfs
0.5	4.35 cfs	8.70 cfs
0.6	4.77 cfs	9.53 cfs
0.7	5.15 cfs	10.30 cfs
0.8	5.50 cfs	11.01 cfs
0.9	5.84 cfs	11.67 cfs
1.0	6.15 cfs	12.30 cfs

REVISED: 5-3-20 JNJ

DROP INLET DETAILS

CITY OF WICHITA, KANSAS

Design C.O.W.	Checked by	Checked by	
Drawn by	Date	Date	Job No.