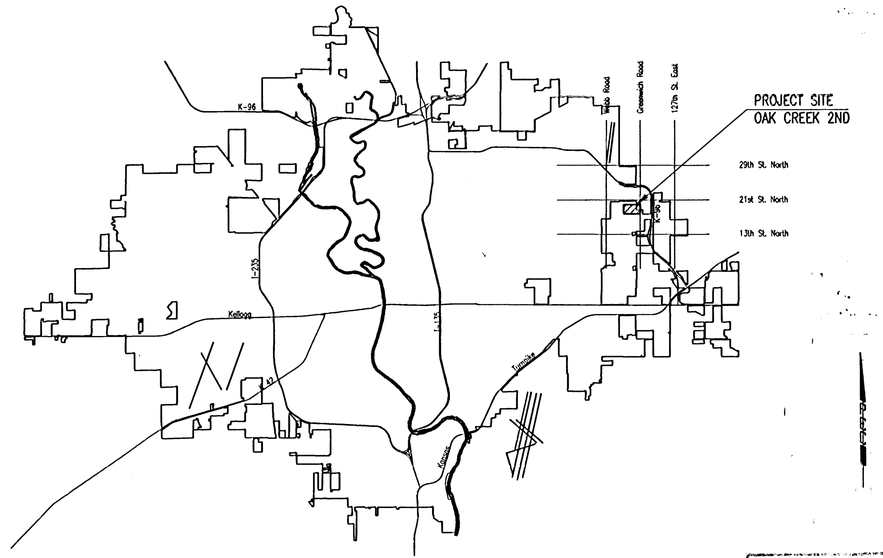
PAVING AND INCIDENTAL DRAINAGE IMPROVEMENTS

TO SERVE

OAK CREEK 2ND-PRIVATE PAVING IMPROVEMENTS

LOTS 1 THRU 17, BLOCK 2, OAK CREEK 2ND

PRIVATE PROJECT NO. 1665 PPS



LOCATION MAP

INDEX OF SHEETS

1.	TITLE SHEET
2.	KEY MAP AND GENERAL NOTES
3.	PLATS AND HORIZONTAL CONTROL
4.	TYPICAL 29' BK.-BK. PAVEMENT DETAILS
5.-10.	PAVING PLANS-RESERVE "B"
11.	ENTRANCE DETAIL
12.	SIDEWALK, RETAINING WALL AND CREEKBED IMPROVEMENTS
13.	VALLEY GUTTER PLANS
14.	VALLEY GUTTER DETAILS
15.	MISCELLANEOUS PAVING DETAILS
16.	PLAN/PROFILE-SWS LINE NO. 1
17.	PLAN/PROFILE-SWS LINE NO. 1A
18.	PLAN/PROFILE-SWS LINE NO. 2
19-21.	PLAN/PROFILE-SWS LINE NO. 1B AND GRADING PLAN
22.	EXISTING TYPE "C" INLET MODIFIED
23.	TYPE "W" CURB INLET (10' OPENING)
24.	STD. TYPE 1A CURB INLET (10' OPENING)
25.	TYPE "C" INLET MODIFIED DETAILS
26.	STD. AREA INLET DETAILS (2 X 2)
27.	STD. TYPE "P" MANHOLE DETAILS
28.	MANHOLE FRAME AND COVER DETAILS
29.	PAVEMENT UNDERDRAIN DETAILS
30-31.	ELECTRICAL SCHEDULES DETAILS
32.	ELECTRICAL SITE PLAN
33.	EROSION CONTROL PLAN
34-37.	EROSION CONTROL DETAILS
38-59.	CROSS SECTIONS

SUBDIVISION BENCH MARKS (SBM)				
NO.	STREET AND STATION	FROM ℄	DESCRIPTION	ELEVATION
1	℄ 1 RES. "B", STA. 11+77.31	14.5' LT.	WEST END, SOUTHWEST RETURN, RES. "B"	
2	℄ RES. "B", STA. 17+18	14.5' LT.	ON SOUTH CURB, NORTHWEST COR. LOT 13, BLOCK 2	
3	℄ RES. "B", STA. 22+06.98	14.5' RT.	SOUTH END, SOUTHWEST RETURN, RES "B"	
4	℄ RES. "B", STA. 28+75	14.5' RT.	ON SOUTH CURB, NORTHEAST COR. LOT 3, BLOCK 2	
5	℄ RES. "B", STA. 32+95	14.5' RT.	ON EAST CURB, NORTHEAST COR. LOT 1, BLOCK 2	

THE COST OF THE BENCH MARK DISC, INCLUDING INSTALLATION, SHALL BE INCIDENTAL TO THE CURB.

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA

Sanitary Sewers _____

Storm Sewers 7-27-06

Driveway Approaches _____

Paving _____

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM CONTRACTED BY 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 PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR UNTIL SUCH INSPECTION IS ARRANGED FOR AND REQUIRED BONDS HAVE BEEN SUBMITTED TO AND APPROVED BY THE CITY NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER. IMPROVEMENTS PERFORMED UNDER THIS PROJECT SHALL NOT BE ACCEPTED BY THE CITY UNTIL ALL APPLICABLE DOCUMENTATION HAS BEEN SUBMITTED TO THE CITY ENGINEER. THIS MAY INCLUDE: RECORD DRAWINGS, INSPECTION LOGS, TEST DOCUMENTATION, TV TAPES, AND A CERTIFICATE OF COMPLETION. THE ABOVE SHALL BE PERFORMED BY THE CONSULTING FIRM CONTRACTED TO INSPECT THIS PROJECT.

AS-BUILT
10/02/06
K.B. MILLER

JULY 2006

PLANS PREPARED BY

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS

WICHITA, KANSAS

BRIAN D. BOUWELL LICENSED 10889 KANSAS PROFESSIONAL ENGINEER

7/10/06

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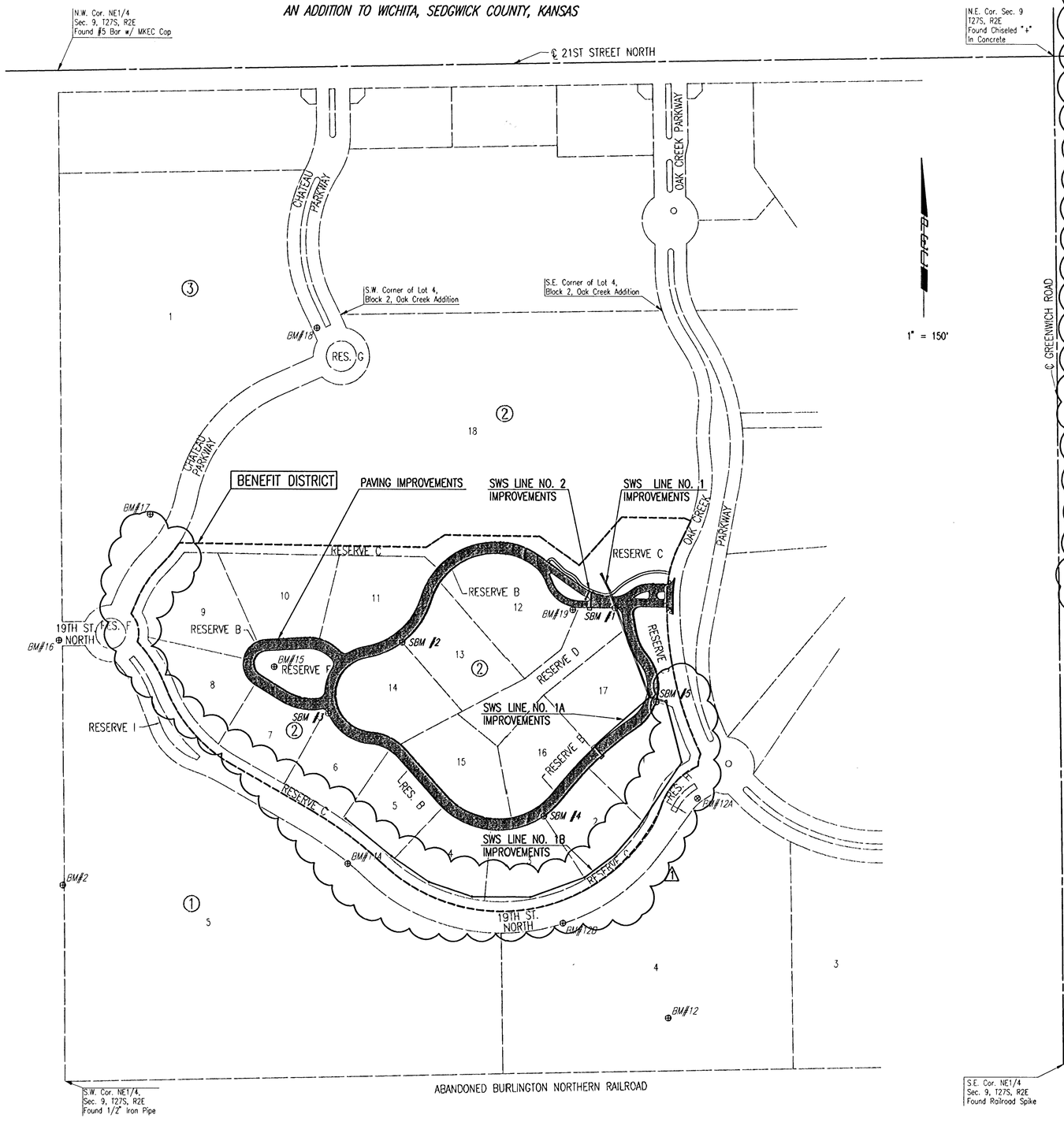
OAK CREEK 2ND

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



GENERAL NOTES

1. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
2. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR, ONLY AS SPECIFICALLY APPROVED BY THE ENGINEER. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
3. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR AND APPROVED AS NOTED BELOW.

   ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
4. CONTRACTOR SHALL SATISFY HIMSELF OF SURFACE AND SUBSURFACE CONDITIONS PRIOR TO BIDDING.
5. TEMPORARY SURFACING MATERIAL (ROCK, ASPHALT, ETC.) MAY HAVE BEEN PLACED WITHIN STREET RIGHTS-OF-WAY FOR HAUL ROADS AND TEMPORARY ACCESS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE EXTENT, IF ANY, OF SUCH SURFACING. CONTRACTOR SHALL REMOVE SAID TEMPORARY SURFACING IN THE SAME MANNER AS NOTED ABOVE FOR RUBBLE. THIS REMOVAL SHALL BE SUBSIDIARY TO "EXCAVATION".
6. CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY-TWO (72) HOUR ADVANCE NOTICE (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO BEGINNING ANY EXCAVATION, TO KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316) 687-2470 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ALL EXISTING LINES WITHIN THE PROJECT AREA: KANSAS GAS SERVICE, WESTAR ENERGY, SBC, COX COMMUNICATIONS, CITY OF WICHITA SEWER MAINTENANCE AND CITY OF WICHITA WATER DEPARTMENT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS OR WHICH ARE COVERED BY 12" OR MORE OF FILL MATERIAL WITH THIS PROJECT. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
8. THE WATER DEPARTMENT SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, WATER VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
9. THE CONTRACTOR SHALL ADJUST WATER VALVE BOXES AS DIRECTED BY THE ENGINEER. THIS WORK TO BE SUBSIDIARY TO OTHER BID ITEMS.
10. INLET HOOKUPS AND INLET PROTECTION SHALL BE BID PER EACH REGARDLESS OF INLET SIZE.
11. THIS PROJECT DOES NOT INCLUDE ANY PROVISIONS FOR CONSTRUCTION OF DRIVEWAYS.
12. THE CONTRACTOR SHALL APPLY TEMPORARY SEED AND MULCH TO ALL UNPAVED AREAS DISTURBED BY HIS CONSTRUCTION OPERATIONS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. SEED SHALL BE ANNUAL RYE APPLIED AT THE RATE OF 4 LBS. PER 1,000 SQUARE FEET. MULCH SHALL BE PRAIRIE HAY APPLIED AT THE RATE OF 15 BALES PER ACRE. THIS WORK SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE BID FOR "TEMPORARY PROJECT SEEDING".
13. IN PROPER SEASON, CONTRACTOR SHALL APPLY PERMANENT SEED, FERTILIZER, AND MULCH TO ALL UNPAVED AREAS DISTURBED BY CONSTRUCTION WITHIN RESERVES "B" AND ADJACENT ROAD RIGHT-OF-WAY. SEED SHALL BE A PREMIUM TURF TYPE FESCUE BLEND WELL SUITED TO SOUTH CENTRAL KANSAS AND APPLIED AT THE RATE OF 8 LBS. PER 1000 SQ. FT. FERTILIZER SHALL BE 12-24-12 APPLIED AT THE RATE OF 350 LB. PER ACRE.
14. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE, ERECT AND MAINTAIN ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AS SPECIFIED IN THE "WORK ZONE TRAFFIC CONTROL" SECTION OF THE CITY OF WICHITA STANDARD SPECIFICATIONS.
15. EROSION CONTROL (BMP'S)
    THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE EROSION CONTROL PLAN CONTAINED HEREIN. THE FOLLOWING QUANTITIES ARE ESTIMATED, AND SHOULD BE CONSIDERED THE MINIMUM EFFORT REQUIRED. INSTALLATION OF THESE BMP'S DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.

CURB INLET PROTECTION	4 EACH
AREA INLET PROTECTION	8 EACH
CONSTRUCTION ENTRANCE	1 EACH
BACK OF CURB PROTECTION	5,918 L.F.
SILT FENCE PROTECTION	1,374 L.F.
DITCH CHECKS PROTECTION	270 L.F.

16. ALL ELEVATIONS GIVEN IN THE PLANS ARE BASED ON USGS DATUM. (USGS - 1187.4 = CITY OF WICHITA DATUM)
17. STORM WATER SEWERS ON THIS PROJECT, EXCEPT THOSE INSTALLED UNDER PAVEMENT, MAY BE CONSTRUCTED OF ONE OF THE FOLLOWING ALTERNATE PIPE MATERIALS:

    REINFORCED CONCRETE PIPE (RCP)
    HIGH DENSITY POLYETHYLENE PIPE (HDPE)
    POLY VINYL CHLORIDE PIPE (PVC)
    ALUMINIZED STEEL SMOOTH-FLOW PIPE (SFP)

    ONLY RCP WILL BE ALLOWED UNDER PAVEMENT.

    RCP SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS FOR STORM SEWERS AND DRAINAGE.

    HDPE PIPE, JOINTS, AND FITTINGS SHALL BE MANUFACTURED FROM VIRGIN HDPE RESIN, IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M294 TYPE S. INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM D-2321.

    SFP SHALL BE ALUMINIZED STEEL TYPE 2 SPIRAL RIB PIPE MANUFACTURED IN ACCORDANCE WITH AASHTO M36, EXCEPT THAT THE EXTERNAL HELICAL CORRUGATION PATTERN OF THE PIPE SHALL BE 3/4 IN. X 3/4 IN. X 7 1/2 IN. AS DESCRIBED IN AASHTO M196. ALL PIPES TO BE MANUFACTURED FROM 16 GAUGE MATERIAL AND SHALL CONFORM TO THE TYPE IR CLASSIFICATION. CONNECTING BANDS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH REQUIREMENTS FOR CORRUGATED METAL PIPE IN CITY OF WICHITA STANDARD SPECIFICATIONS FOR STORM SEWERS AND DRAINAGE.

    PVC PIPE FOR DIAMETERS 12 INCHES THROUGH 18 INCHES INCLUSIVE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS FOR SANITARY SEWERS. PVC PIPE FOR DIAMETERS 21 INCHES THROUGH 48 INCHES INCLUSIVE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH "SUPPLEMENTAL SPECIFICATIONS TO CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS FOR CLOSED PROFILE PVC PIPE FOR SANITARY SEWER CONSTRUCTION".

    THE CONTRACTOR SHALL PROVIDE A MATERIAL CERTIFICATION TO THE ENGINEER FOR APPROVAL PRIOR TO PIPE INSTALLATION STATING THAT ALL MATERIALS USED CONFORM TO THE APPLICABLE SPECIFICATIONS

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BENCHMARKS

BM #2- "T" POST ON WEST PROPERTY LINE OF LOT 5 BLOCK 1 OAK CREEK 2ND ADDITION OPPOSITE OF 6TH HOUSE SOUTH OF 19TH STREET IN REMINGTON PLACE ADDITION.
ELEV. = 1396.82

BM #11- NOT SHOWN - "T" POST NORTH OF 5TH ELECTRIC "H" STRUCTURE WEST OF GREENWICH ROAD 40' NORTH OF NORTH EDGE OF SHELTERBELT ON SOUTH PROPERTY LINE.
ELEV. = 1393.97

BM #11A- "T" POST 10' EAST AND 10' NORTH OF 15" OAK ON SOUTH RIGHT-OF-WAY ON 19TH STREET NORTH OPPOSITE MIDDLE LOT 5, BLK 2 OAK CREEK 2ND ADDITION.
ELEV. = 1395.67

BM #12- "T" POST NORTH OF 3RD ELECTRIC "H" STRUCTURE WEST OF GREENWICH ROAD 35' NORTH OF NORTH EDGE OF SHELTERBELT ON SOUTH PROPERTY LINE.
ELEV. = 1380.94

BM #12A- CHISELED "d" CENTER FACE OF CURB INLET ON SOUTH CURB LINE OF 19TH STREET NORTH 100'± WEST OF OAK CREEK PARKWAY, WEST OF ROUNDABOUT CIRCLE.
ELEV. = 1380.09

BM #12B- "T" POST ON SOUTH RIGHT-OF-WAY LINE OF 19TH STREET NORTH OPPOSITE THE CENTER OF LOT 3, BLOCK 2 OAK CREEK 2ND ADDITION.
ELEV. = 1388.83

BM #15- "T" POST MIDWAY BETWEEN 2- 20" OAKS IN THE WEST RESERVE E OAK CREEK 2ND ADDITION.
ELEV. = 1399.38

BM #16- CHISELED "d" SOUTH TOP OF CURB OF 19TH STREET NORTH, 10' WEST OF EAST END OF EXISTING CURB IN REMINGTON PLACE ADDITION. NEAR THE NW CORNER OF LOT 5, BLOCK 1 OAK CREEK 2ND ADDITION. 100' WEST OF CRANBROOK STREET.
ELEV. = 1394.74

BM #17- CHISELED "d" EAST END OF OLD CONCRETE SOIL SAVER LOCATED EAST OF OLD POND NEAR WEST RIGHT-OF-WAY CHATEAU PARKWAY IN LOT 1, BLOCK 3 OAK CREEK 2ND ADDITION.
ELEV. = 1386.84

BM #18- CHISELED "d" CENTER FACE OF CURB INLET ON WEST SIDE OF CHATEAU PARKWAY NORTH OF ROUNDABOUT ON EAST SIDE OF LOT 1, BLOCK 3 OAK CREEK 2ND ADDITION.
ELEV. = 1378.64

BM #19- "T" POST 20' SOUTH AND 20' WEST OF EASTERLY CORNER OF LOT 12, BLOCK 2 OAK CREEK 2ND ADDITION.
ELEV. = 1375.46

NOTE:
CONTRACTOR SHALL NOT REMOVE ANY TREES FROM THE PROJECT SITE WITHOUT SPECIFIC APPROVAL OF THE OWNER AND/OR ENGINEER.

BRIAN D. BOUTWELL LICENSED 10389 PROFESSIONAL ENGINEER 9/8/06

No.	Revision	By	Date
1	REVISED BACKYARD DRAINAGE AND GENERAL NOTES		6-26-2006

OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

KEY MAP AND GENERAL NOTES

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BDB, BMM	Job No.	35-05731-000
Drawn by	BJS, JMU	Date	October 2004

Sheet 2 of 59

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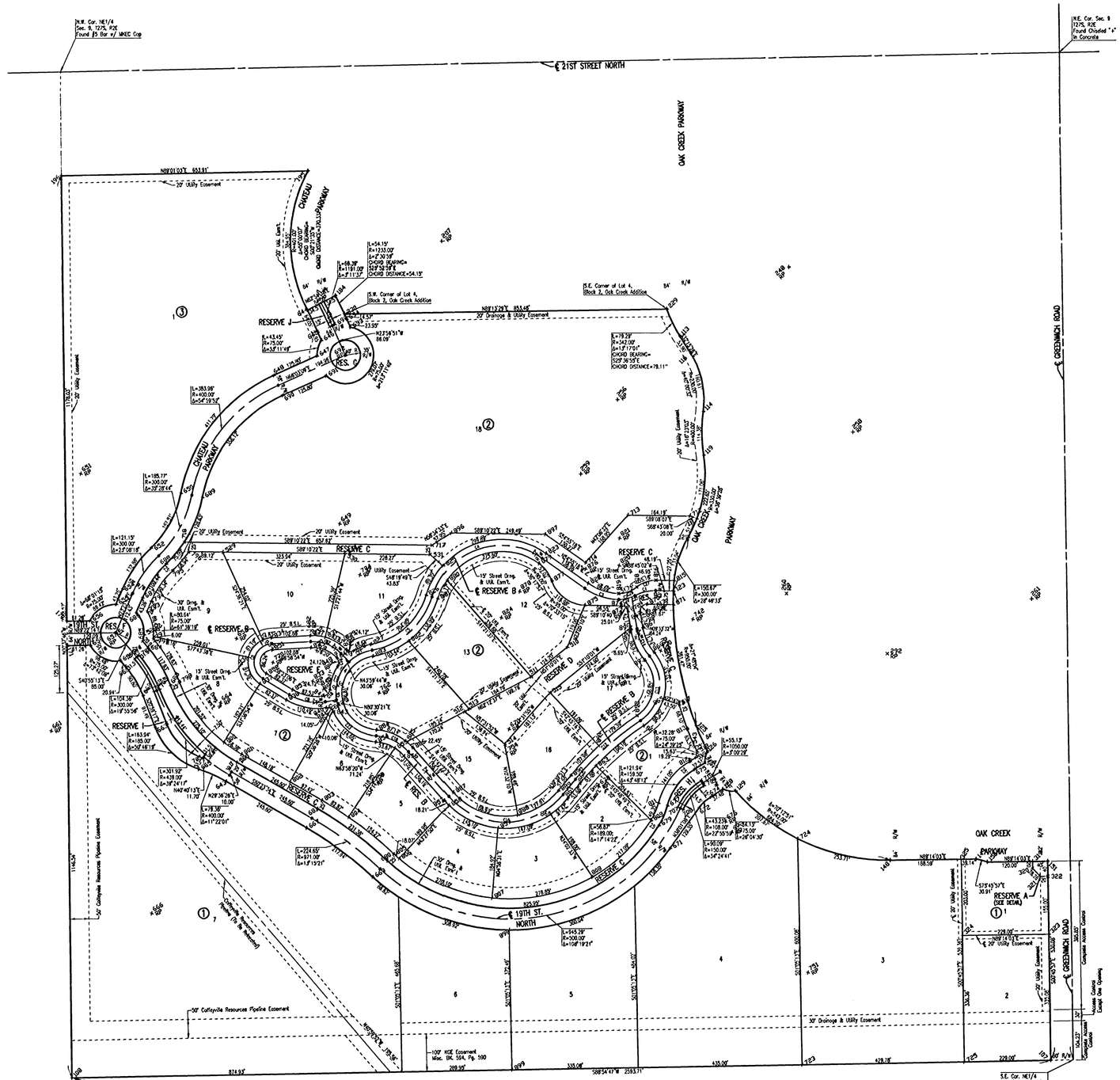
OAK CREEK 2ND

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



COORDINATE LIST		
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123	385876.199490	2373056.660103
125	385521.987165	2373116.896110
126	385455.247940	2373147.211183
127	385423.915499	2373140.575936
128	385354.616204	2373188.097969
129	385349.641854	2373221.568572
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259	386184.898899	2372811.131609
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518	385453.483247	2373119.896372
519	385438.232780	2373116.535439
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674	385334.737211	2373156.323538
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COORDINATE LIST		
POINT	NORTH	EAST
677	385311.735108	2373041.305580
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679	385259.887267	2373018.472028
680	385166.945590	2372300.344478
681	385303.397073	2372114.146897
682	385772.507303	2372098.237936
683	385629.238160	2371724.775819
684	385729.865158	2371664.422613
685	385745.686022	2371650.708370
686	385820.513141	2371633.357248
687	385960.216903	2371650.534386
688	385949.296769	2371712.825561
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694	386594.284605	2372192.769274
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697	386633.705906	2372119.087199
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770	385689.269256	2371996.338075
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800	385477.411103	2371866.843829
801	385446.469987	2371912.968757
802	385373.263775	2372041.797292
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806	385173.247341	2372330.843746
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809	385273.278591	2372997.361073
811	385318.268250	2373017.174313
812	385428.121431	2373100.108214
813	385513.210865	2373093.487211
815	385903.415972	2373058.494109
816	385904.466559	2373010.320327
817	385827.484863	2373008.641486
818	385886.645633	2372959.356567
819	385869.740633	2372911.584405
820	385942.733117	2372912.631903
821	386014.725704	2372913.665051
822	385896.062673	2372830.333874
823	385974.772277	2372718.251933
824	385806.188937	2372599.864191
825	385943.145088	2372445.984326
826	385865.795684	2372402.676372
827	385737.510864	2372256.620445
828	385720.906491	2372211.205962

COORDINATE LIST		
POINT	NORTH	EAST
829	385736.374191	2372201.999372
830	385723.871316	2372189.050914
831	385756.263813	2372134.910683
832	385760.652639	2372095.563129
833	385639.824211	2372102.004466
834	385755.175672	2371992.824618
835	385749.275995	2371968.857330
836	385703.298769	2371931.846426
837	385633.064326	2371961.740302
838	385589.886730	2372031.883366
839	385721.031566	2372112.611502
840	385569.140971	2372138.013215
841	385551.387525	2372140.982246
842	385566.088399	2372151.368982
843	385558.342451	2372157.584324
844	385600.702653	2372132.734937
845	385618.456099	2372129.765906
846	385617.281501	2372147.727540
847	385679.398630	2372168.216833
848	385689.141107	2372153.081307
849	385701.643982	2372166.030366
850	385728.698014	2372097.266623
851	385723.221046	2371994.528112
852	385660.315201	2371978.514980
853	385617.137605	2372048.658044
854	385478.546804	2372269.387976
855	385462.248103	2372319.951446
856	385442.300225	2372343.613056
857	385324.203409	2372448.855591
858	385311.135193	2372461.528907
859	385252.723867	2372591.381308
860	385288.927633	2372731.033058
861	385330.040440	2372776.391277
862	385369.805350	2372809.362619
863	385415.834107	2372850.698469
864	385521.877505	2372978.241308
865	385591.006572	2373030.392685
866	385715.515789	2373065.623992
867	385779.841140	2373129.536104
868	385820.975451	2372968.851492
869	385823.964564	2372986.601568
870	385841.960285	2372986.994023
871	385840.443317	2373056.553386
872	385822.627180	2372936.122776
873	385819.638067	2372918.372700
874	385837.636214	2372918.639387
875	385839.021675	2372822.088274
876	385934.011894	2372823.451456
877	385903.673395	2372733.426040
878	385874.931658	2372648.139804
879	385948.584574	2372699.861604
880	385904.314381	2372456.172169
881	385856.536383	2372433.307490
882	385746.177609	2372356.068674
883	385705.941160	2372261.850531
884	385510.477866	2372271.487327
885	385479.092660	2372351.299139
886	385463.590089	2372367.503257
887	385345.493274	2372472.745791
888	385287.012201	2372643.759473
889	385350.465559	2372751.757672
890	385390.230469	2372784.729014
891	385468.554345	2372858.938294
892	385548.509651	2372960.500710
893	385694.846980	2372981.194495
894	385774.500162	2372844.227366
895	385781.060856	2372943.122545
896	386029.131555	2372466.904021
897	386025.529991	2372716.366366
898	384983.179810	2372620.741627
899	384610.754259	2372627.807675

× 1000 = COORDINATE POINT NO.

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	57.59'	113.14'	29°09'44"
C2	44.54'	89.00'	28°41'06"
C3	94.39'	161.00'	34°13'23"
C4	358.00'	190.00'	108°13'35"
C5	232.61'	200.00'	63°48'27"
C6	333.60'	114.50'	166°59'34"
C7	88.99'	105.00'	48°33'23"
C8	126.83'	50.00'	145°20'01"
C9	99.01'	138.00'	41°06'35"
C10	87.19'	125.00'	44°36'32"
C11	344.28'	200.00'	98°37'46"
C12	232.72'	800.00'	16°40'01"
C13	193.82'	113.00'	98°16'31"
C14	80.31'	150.00'	30°40'27"
C15	24.12'	18.00'	76°46'26"
C16	24.12'	18.00'	76°46'26"
C17	24.12'	18.00'	76°46'26"
C18	24.12'	18.00'	76°46'26"
C19	31.87'	18.00'	100°48'36"
C20	25.01'	18.00'	79°37'08"
C21	98.12'	114.50'	54°48'21"
C22	110.81'	114.50'	55°28'04"
C23	153.31'	114.50'	76°44'46"
C24	35.50'	89.00'	22°51'09"
C25	8.41'	89.00'	5°24'34"
C26	51.79'	73.00'	40°37'08"
C27	55.16'	77.00'	41°02'49"

No.	Revision	By	Date

OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

PLAT

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BDB, BMM	Job No.	35-05731-000
Drawn by	BJS, JMU	Date	October 2004

Sheet 3 of 59

Saved 05-02-2006 5:07:00 PM by BJS
Plot Scale 1:150 05-02-2006 5:07:46 PM by BJS
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SCALE: 1"=20'

@ 1 Sta. 11+05, 10' Lt. to 34' Lt.
Install (2) Class-200 8" PVC Pipe Sleeves.
See Sheet No. 15 for Details.

@ 2 Sta. 13+10, 16.5' Lt. to 26.5' Rt.
Install (2) Class-200 8" PVC Pipe Sleeves.
See Sheet No. 15 for Details.

@ 1 Sta. 10+59.5 to 10+83.5, 4.25' Lt.
Install (2) Class-200 8" PVC Pipe Sleeves.
See Sheet No. 15 for Details.

@ 1 Res. "B" Sta. 11+77.31 Install
"Flat Survey Marker No.
8134-08 3" Top Diameter"
Bench Mark Disc.

Prop. Top Valve Box Elev.= 1375.3

-1.24% @ 2 80' V.C.

Combined Curb & Gutter
(Type I)

Const. Std. Type "W"
Inlet Hookup
See Sheet No. 23.

Prop. Top Valve Box Elev.=1375.0
Prop. FH Bury Line Elev.=1375.1

+0.64% @ 2

Reserve "B" @ 2

Median Curb & Gutter
(6 5/8")

See Sheet No. 11 for
Median Curb Detail.

@ 1 Sta. 11+48.17 Reserve "B"=
℄ Sta. 35+74.69 Reserve "B"

Reserve "B" @ 1

-0.68% @ 1 60' V.C.

Combined Curb & Gutter
(Type I)

5" Asphaltic Conc. Pavt.
(3" Bituminous Base)

Combined Curb & Gutter
(3 5/8" Roll)

Prop. 8" Water
(By Others)

Const. Std. Type "W"
Inlet Hookup
See Sheet No. 23.

@ 1 Sta. 11+05, 0.75' Rt. to 24' Rt.
Install (2) Class-200 8" PVC Pipe Sleeves.
See Sheet No. 15 for Details.

See Sheet No. 11 for Entrance Details

Sta. 10+00 Reserve "B" @ 1=
℄ S. Bd. Oak Creek Parkway

@ 1 Sta. 13+30, 5.5' Lt. to 15.5' Rt.
Install (2) Class-200 8" PVC Pipe Sleeves.
See Sheet No. 15 for Details.

Reserve "B" ℄

+0.68% @ 1

+3.20% ℄

120' V.C.

Brown Line

15' Street Dmg & Util Esmt

RESERVE C

28" ◇ Oak

Ⓐ 5' Transition from Combined Curb and Gutter (Type I) to Combined Curb and Gutter (3 5/8" Roll & 1 1/2"). To be bid and paid for as "Combined Curb and Gutter (Type I).

NOTE: PORTION OF THIS STREET TO BE CONSTRUCTED WITH ROLL-TYPE CURB. TOP OF CURB ELEVATIONS GIVEN ARE FOR FULL HEIGHT CURB.

♦ Construct Std. Wheelchair Ramp

No.	Revision	By	Date
1	REVISED CURB TYPE AND CURB ELEVATIONS		6-26-2006

OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

PAVING PLAN
STA. 10+00 TO STA. 16+00

BRIAN D. BOUTWELL LICENSED 10839 PROFESSIONAL ENGINEER 9/6/06

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BDB, BMM	Job No.	35-05731-000
Drawn by	BJS, JMU	Date	October 2004

Sheet 5 of 59

Saved 09-07-2006 11:58:58 AM by BJS
Plot Scale 1:20 09-07-2006 11:59:2 PM by BJS
Q:\2005\05731\000\05731-000-C-SHT100-1600RCS B

+4.12% ℄

+3.20% ℄ No. V.C.

Prop. Top Valve Box Elev.= 1384.6
Prop. FH Bury Line Elev.= 1384.5

℄ Res. "B" Sta. 17+18 Install "Flat Survey Marker No. 8134-08 3" Top Diameter" Bench Mark Disc.

Combined Curb & Gutter (3 5/8"Roll)

5" Asphaltic Concrete Pavement (3" Bituminous Base)

SCALE: 1"=20'

+4.12% ℄

280' V.C.

Sta. 20+67.62 ℄ Reserve "B"=
Sta. 40+00.00 ℄ Loop

Prop. 8" Water (by Others)

Prop. 8" Sewer (by Others)

Prop. San. Sewer (by Others)

℄ RESERVE B

7" R.C. Valley Gutter
See Sheet No. 13.

1'-6" 29'-0" Bk.-Bk. 1'-6"

NOTE: THIS STREET TO BE CONSTRUCTED WITH ROLL-TYPE CURB. TOP OF CURB ELEVATIONS GIVEN ARE FOR FULL HEIGHT CURB.

No.	Revision	By	Date
1	REVISED CURB TYPE AND CURB ELEVATIONS		6-26-2006

OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

PAVING PLAN
STA. 16+00 TO STA. 21+00

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BDB, BMM	Job No.	35-05731-000	Sheet	6 of 59
Drawn by	BJS, JMU	Date	October 2004		

BRIAN D. BOUTWELL LICENSED PROFESSIONAL ENGINEER 10889 — 5/8/06

Saved: 08-04-2006 6:15:36 PM by BJS
Print Scale: 1:1 on 24x36 Plot at 11:40:33 AM by BJS
©\\OAKS\05731\000\05731-000-C-STR1600-2100RES B

SCALE: 1"=20'

-2.08% ℄ — 50' V.C. — -0.96% ℄

Sta. 20+67.62 ℄ Reserve "B"=
Sta. 40+00.00 ℄ Loop

No. V.C.

280' V.C.

-2.08% ℄

23+31.90 PRC

Combined Curb & Gutter
(3 5/8" Roll)

5" Asphaltic Concrete Pavement
(3" Bituminous Base)

℄ RES. B

15' Street Drng. & Util. Esmt.

Prop. 8" San. Sewer (By Others)

Prop. 8" Water (By Others)

10' Street Drng. & Util. Esmt.

24+00 — 24+29.05 PC — 24+50 — 24+95 PVC — 25+20 PVI — 25+45 PVT — 25+87.24 PC

R=166.00 — R=139.00 — R=125.00 — R=111.00 — R=145.50 — R=128.50 — R=114.50 — R=100.50 — R=231.00 — R=214.00 — R=200.00 — R=176.00 — R=269.00

1'-6" Bk. — 29'-0" Bk.-Bk. — 1'-6" Bk. — 32'-0"

21+00 PVI — 21+46.05 High Point — 21+52.08 — 22+40 PVT — 22+50 — 23+00

1 Story House (to be demolished)

Fence — Tree — Bush — Pine — Shed — Garage — Mailbox — Fire Hydrant — Power Pole — Guy Wire — Sign — Gas Meter — Gas Valve — Water Valve — Water Meter — Electric Box — Cable Box — Telephone Box — Telephone Pedestal — Electric Meter — Electric Pedestal — Cable Pedestal — Light Pole — Flag Pole — Basketball Goal — Concrete — Asphalt — Gravel — Rock — Brick — Stone — Wood — Metal — Plastic — Glass — Rubber — Fabric — Paper — Cardboard — Leather — Ceramic — Porcelain — Tile — Carpet — Vinyl — Linoleum — Laminate — Veneer — Plywood — Particleboard — Fiberboard — Drywall — Plaster — Lath — Insulation — Vapor Barrier — Roofing — Shingles — Tar Paper — Flashing — Gutter — Downspout — Soffit — Fascia — Trim — Molding — Casing — Baseboard — Chair Rail — Crown Molding — Wainscoting — Paneling — Beadboard — Board and Batten — Clapboard — Shiplap — Tongue and Groove — Dado — Rail — Stile — Panel — Frame — Sash — Muntin — Mullion — Transom — Sidelight — Jamb — Header — Sill — Threshold — Stop — Casing — Trim — Hardware — Hinge — Knob — Lock — Latch — Deadbolt — Strike Plate — Weatherstripping — Caulk — Paint — Stain — Varnish — Lacquer — Shellac — Polyurethane — Wax — Oil — Primer — Sealer — Topcoat — Finish — Texture — Pattern — Color — Gloss — Satin — Flat — Eggshell — Semi-Gloss — High-Gloss — Metallic — Pearlescent — Iridescent — Fluorescent — Phosphorescent — Luminescent — Reflective — Matte — Opaque — Translucent — Transparent — Clear — Tinted — Colored — Dyed — Pigmented — Stained — Painted — Coated — Laminated — Veneered — Plated — Anodized — Galvanized — Powder-Coated — Enameled — Glazed — Fired — Kiln-Dried — Air-Dried — Seasoned — Green — Rough-Sawn — Planed — Sanded — Polished — Buffed — Waxed — Oiled — Varnished — Lacquered — Shellacked — Polyurethaned — Painted — Stained — Primed — Sealed — Topcoated — Finished — Textured — Patterned — Colored — Glossed — Satined — Flatted — Eggshelled — Semi-Glossed — High-Glossed — Metallicized — Pearlescented — Iridescented — Fluorescented — Phosphorescented — Luminescented — Reflectived — Matted — Opaqued — Translucented — Transparented — Cleared — Tinted — Colored — Dyed — Pigmented — Stained — Painted — Coated — Laminated — Veneered — Plated — Anodized — Galvanized — Powder-Coated — Enameled — Glazed — Fired — Kiln-Dried — Air-Dried — Seasoned — Green — Rough-Sawn — Planed — Sanded — Polished — Buffed — Waxed — Oiled — Varnished — Lacquered — Shellacked — Polyurethaned

7" R.C. Valley Gutter
See Sheet No. 13.

20' R. Fo.Cr. (Typ.)

99.39(TC)
98.84

99.07
1/2 CR.

99.39(TC)
98.84

Sta. 21+78.53 ℄ Reserve "B"=
Sta. 45+31.05 ℄ Loop

Prop. FH Bury Line Elev.=1399.1

Prop. Top Valve Box Elev.=1399.3

Prop. Top Valve Box Elev.=1399.5

℄ Sta. 22+06.98 Install
"Flat Survey Marker No.
8134-08 3" Top Diameter"
Bench Mark Disc.

NOTE:
Existing House to be Demolished and Backfilled Using Lean Clay Materials Similar to the Surrounding Soils. Absolutely No Rubble Materials or Clean Sand shall be used in the Fill. Compact to a Minimum of 98% of a Standard Moisture Density Curve (T-99) with Moisture Content at 0 to +4% of Optimum. 8" Thick Maximum Loose Lifts.

NOTE: THIS STREET TO BE CONSTRUCTED WITH ROLL-TYPE CURB. TOP OF CURB ELEVATIONS GIVEN ARE FOR FULL HEIGHT CURB.

No.	Revision	By	Date
1	REVISED CURB TYPE AND CURB ELEVATIONS		6-26-2006

BRIAN D. BOUTWELL LICENSED 10889 PROFESSIONAL ENGINEER — 6/16/08

OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

PAVING PLAN
STA. 21+00 TO STA. 25+87

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BDB, BMM	Job No.	35-05731-000	Sheet 7 of 59
Drawn by	BJS, JMU	Date	October 2004	

Saved: 08-04-2006 6:15:26 PM by BJS
Plotted: 08-04-2006 6:20:00 PM by BJS
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SCALE:1"=20'

5" Asphaltic Concrete Pavement
(3" Bituminous Base)

Prop. Top Valve Box Elev.= 1390.4
Prop. FH Bury Line Elev.= 1390.3

℄ Sta. 28+75 Install
"Flat Survey Marker No.
8134-08 3" Top Diameter"
Bench Mark Disc.

Combined Curb & Gutter
(3 5/8" Roll)

15' Street Drng.
& Util. Esmt.

Const. Std. Type 1A
Inlet Hookup
See Sheet No. 24.

Const. Std. Type 1A
Inlet Hookup
See Sheet No. 24.

Prop. 6" San Sewer
(By Others)

18" RCP

18" RCP

℄ RESERVE B

NOTE: THIS STREET TO BE CONSTRUCTED WITH ROLL-TYPE CURB. TOP OF CURB ELEVATIONS GIVEN ARE FOR FULL HEIGHT CURB.

No.	Revision	By	Date
1	REVISED CURB TYPE AND CURB ELEVATIONS		6-26-2006

OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

PAVING PLAN
STA. 25+87.24 TO STA. 32+15.89

BRIAN D. BOUTWELL LICENSED 10889 PROFESSIONAL ENGINEER 7/6/06

Professional Engineering Consultants, P.A.
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Designed by	BDB, BMM	Job No.	35-05731-000
Drawn by	BJS, JMU	Date	October 2004

Saved: 08-04-2006 6:15:16 PM by BJS
Plotted: 08-04-2006 6:44:11 PM by BJS
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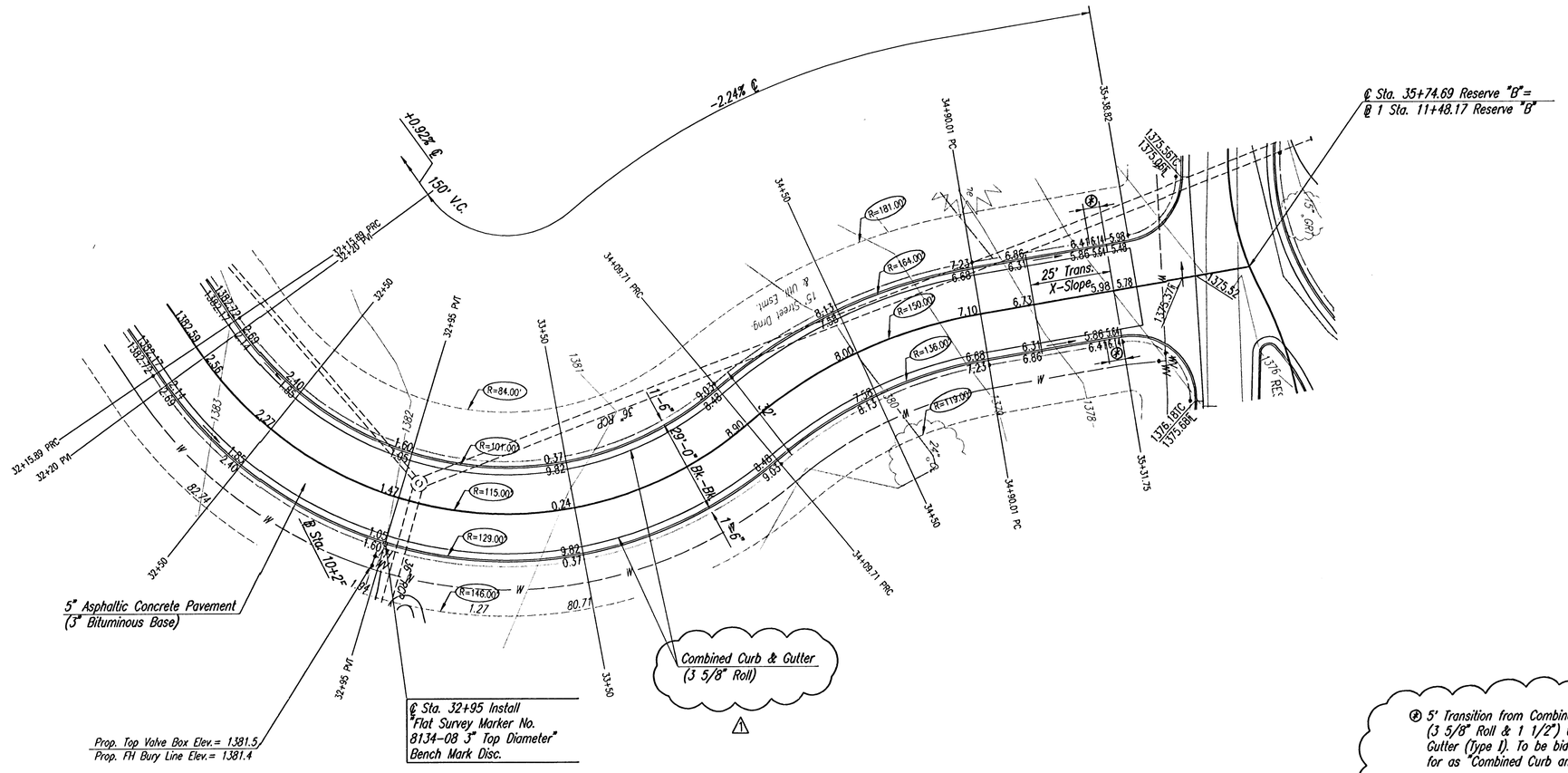
SCALE:1"=20'



⚠

⚠ 5' Transition from Combined Curb and Gutter (3 5/8" Roll & 1 1/2") to Combined Curb and Gutter (Type 1). To be bid and paid for as "Combined Curb and Gutter (3 5/8" Roll & 1 1/2").

NOTE: THIS STREET TO BE CONSTRUCTED WITH ROLL-TYPE CURB. TOP OF CURB ELEVATIONS GIVEN ARE FOR FULL HEIGHT CURB.

No.	Revision	By	Date
1	REVISED CURB TYPE AND CURB ELEVATIONS		6-26-2006

OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

PAVING PLAN
STA. 32+15.89 TO STA. 35+38.82

BRIAN D. BOUTWELL LICENSED 10889 PROFESSIONAL ENGINEER KANSAS 7/8/06

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
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Designed by	BDB, BMM	Job No.	35-05731-000
Drawn by	BJS, JMU	Date	October 2004

Sheet 9 of 59

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Plot Scale 1.20 08-07-2006 11:45:24 AM by BJS
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SCALE:1"=20'

℄ Sta. 45+30, 16.5' Lt. to 16.5' Rt.
Install (1) Class-200 8" PVC Pipe Sleeve.
See Sheet No. 15 for Details.

Sta. 45+31.05 ℄ Loop=
Sta. 21+78.53 ℄ Reserve "B"

7" R.C. Valley Gutter
See Sheet No. 13.

Sta. 40+00.00 ℄ Loop=
Sta. 20+67.62 ℄ Reserve "B"

7" R.C. Valley Gutter
See Sheet No. 13.

℄ Sta. 40+32, 16.5' Lt. to 16.5' Rt.
Install (1) Class-200 8" PVC Pipe Sleeve.
See Sheet No. 15 for Details.

Prop. 8" Water
(By Others)

Trans. X-Slope

1/2 Cr

-0.64% ℄

+0.52% ℄

60' V.C.

45+31.05 PT

45+00

44+50

44+32.03 PC

44+00

43+79.97 PVT

43+49.97 PT & PVI

43+46.57 HP

43+19.97 PVC

43+00

42+50

42+22.84 PC

42+00

41+50

41+19.96 PT

41+00

40+50

40+30.06 PC

Combined Curb & Gutter
(3 5/8" Roll)

5" Asphaltic Concrete Pavement
(3" Bituminous Base)

℄ Sta. 42+78 Install
"Flat Survey Marker No.
8134-08 3" Top Diameter"
Bench Mark Disc.

RESERVE B

RESERVE E

1 Story House (To be demolished)

Pool

Prop. 15" Steel Drng. & Util. Esmt.

Prop. 15" Steel Drng. & Util. Esmt.

NOTE: THIS STREET TO BE CONSTRUCTED WITH ROLL-TYPE CURB. TOP OF CURB ELEVATIONS GIVEN ARE FOR FULL HEIGHT CURB.

No.	Revision	By	Date
1	REVISED CURB TYPE AND CURB ELEVATIONS		6-26-2006

OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

PAVING PLAN
STA. 40+00 TO STA. 45+60.87

BRIAN D. BOUTWELL LICENSED 10889 PROFESSIONAL ENGINEER

6/28/06

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BDB, BMM	Job No.	35-05731-000
Drawn by	BJS, JMU	Date	October 2004

Sheet 10 of 59

Saved: 08-04-2006 6:15:50 PM by BJS
Plotted: 08-04-2006 11:52:32 AM by BJS
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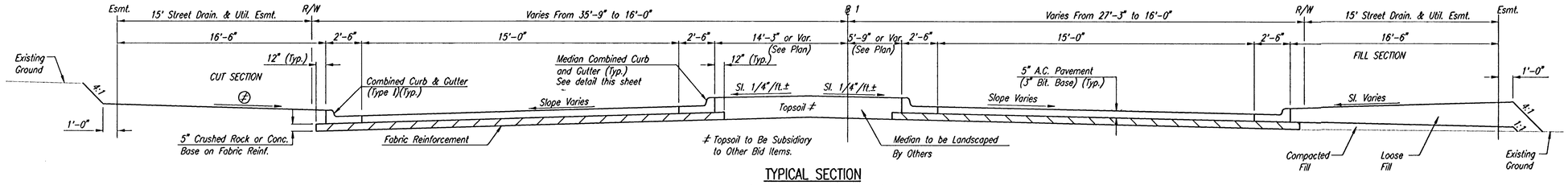
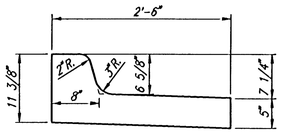


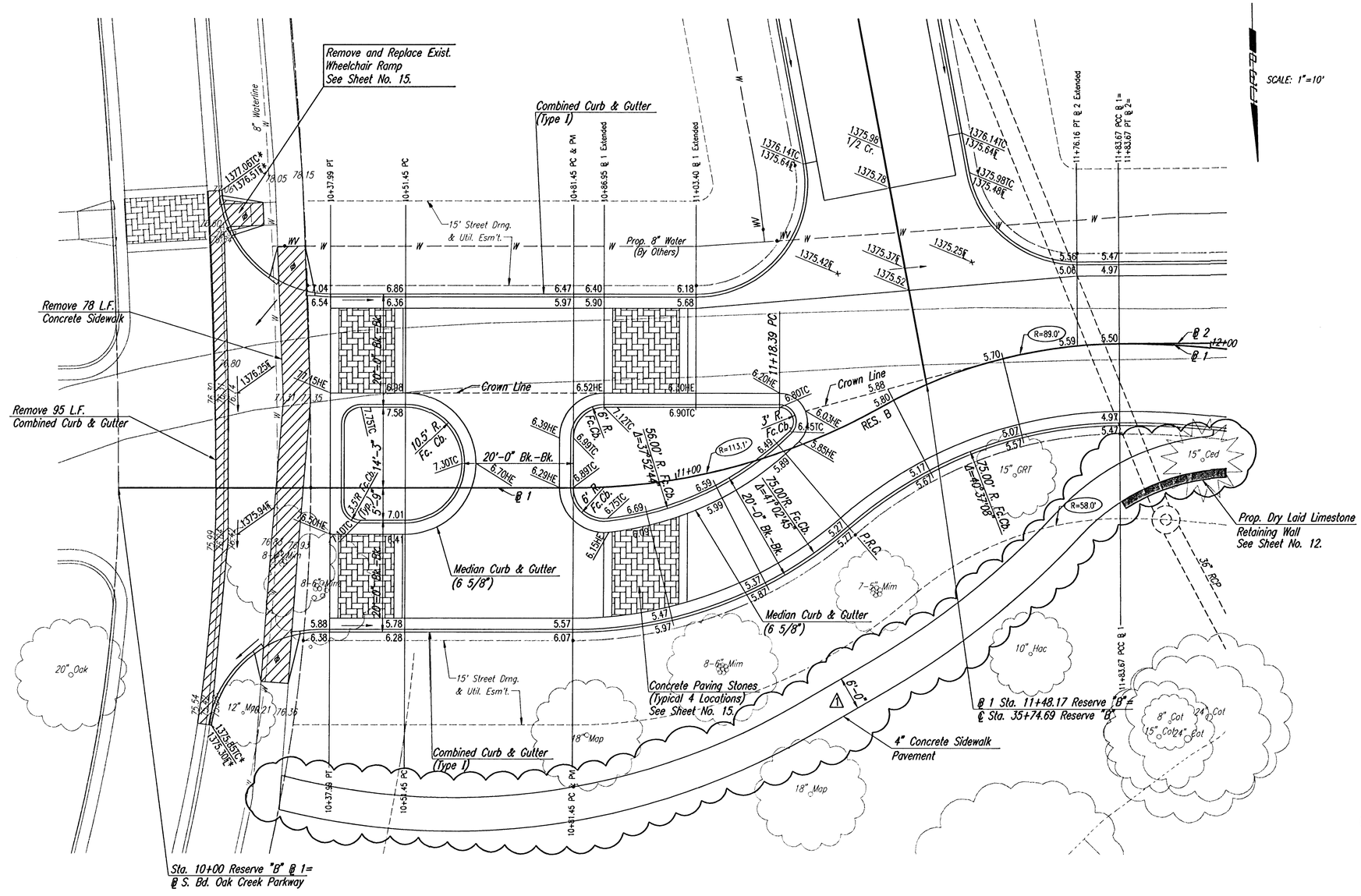
TYPICAL SECTION

Sta. 10+37.99 to Sta. 11+83.67
℄ 1/4" per ft. Unless Noted Otherwise.



MEDIAN COMBINED CURB & GUTTER (6 5/8")

SCALE: 1"=10'



* Match Existing

ϕ Construct Std. Wheelchair Ramp

No.	Revision	By	Date
1	REVISED SIDEWALK FROM 5' TO 6' WIDTH		6-26-2006

BRIAN D. BOUTWELL LICENSED 10889 PROFESSIONAL ENGINEER STATE OF KANSAS 6/18/06

OAK CREEK 2ND – PRIVATE PAVING IMPROVEMENTS

ENTRANCE DETAILS

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BDB, BMM	Job No.	35-05731-000
Drawn by	BJS, JMU	Date	October 2004

Sheet 11 of 59

Saved 06-04-2006 6:14:56 PM by BJS
Plot Scale 1:10 06-07-2006 11:56:56 AM by BJS
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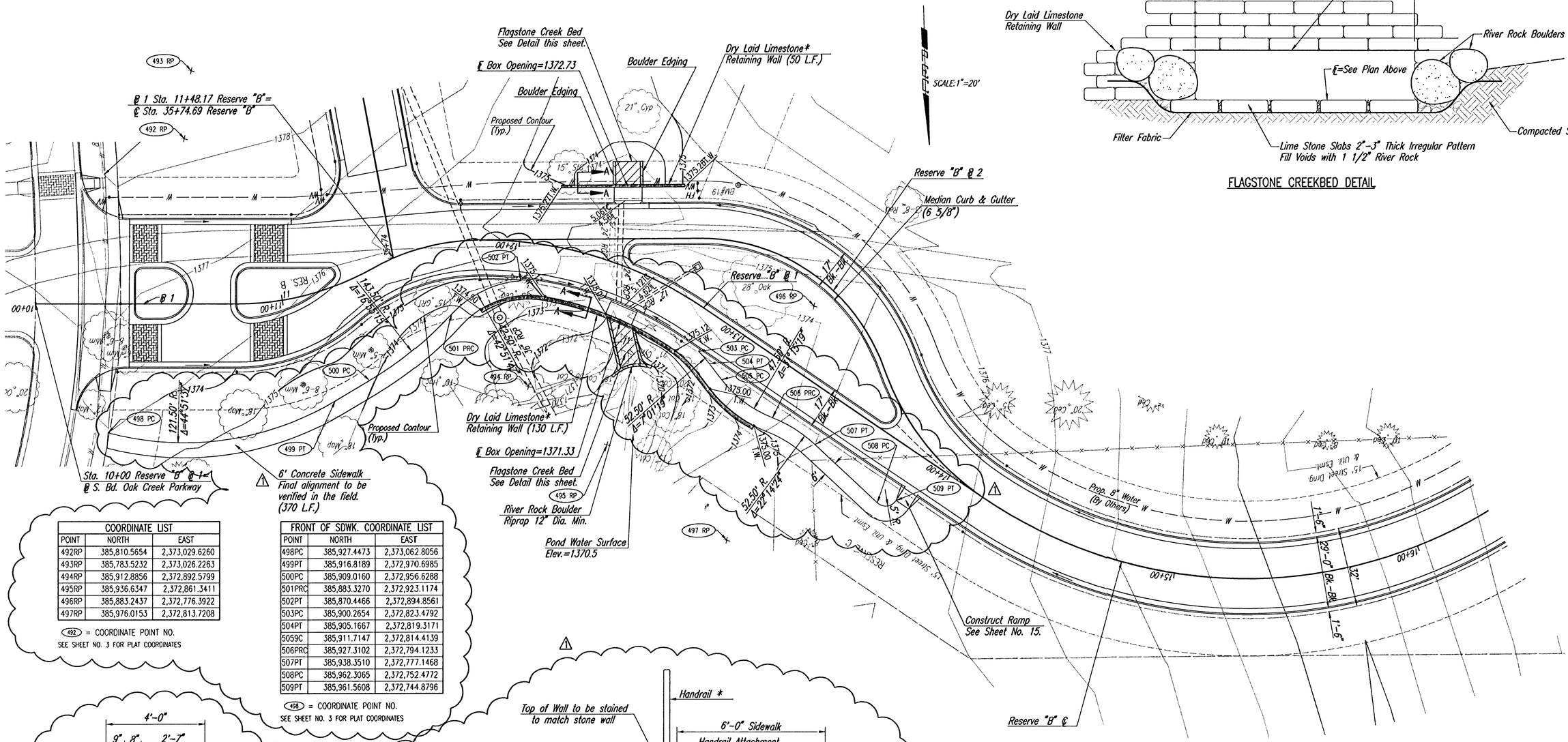
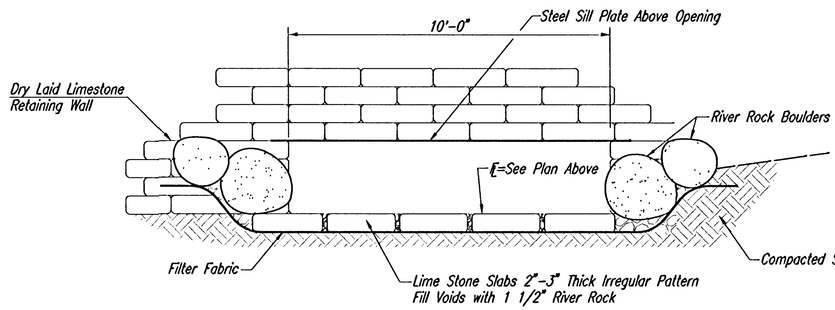




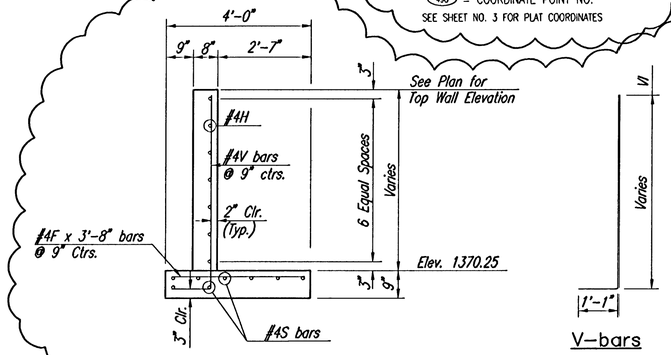
FLAGSTONE CREEKBED DETAIL

COORDINATE LIST		
POINT	NORTH	EAST
492RP	385,810.5654	2,373,029.6260
493RP	385,783.5232	2,373,026.2263
494RP	385,912.8856	2,372,892.5799
495RP	385,936.6347	2,372,861.3411
496RP	385,883.2437	2,372,776.3922
497RP	385,976.0153	2,372,813.7208

(492) = COORDINATE POINT NO.
SEE SHEET NO. 3 FOR PLAT COORDINATES

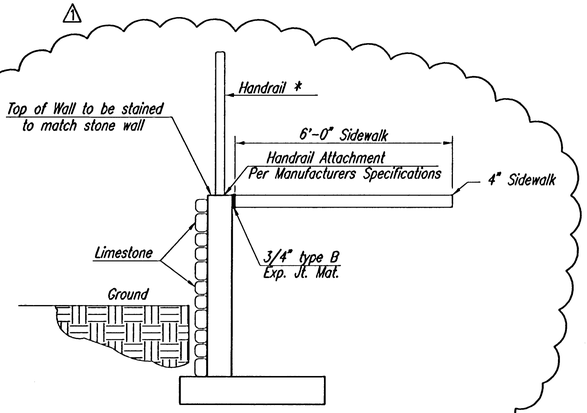
FRONT OF SDWK. COORDINATE LIST		
POINT	NORTH	EAST
498PC	385,927.4473	2,373,062.8056
499PT	385,916.8189	2,372,970.6985
500PC	385,909.0160	2,372,956.6288
501PRC	385,883.3270	2,372,923.1174
502PT	385,870.4466	2,372,894.8561
503PC	385,900.2654	2,372,823.4792
504PT	385,905.1667	2,372,819.3171
5059C	385,911.7147	2,372,814.4139
506PRC	385,927.3102	2,372,794.1233
507PT	385,938.3510	2,372,777.1468
508PC	385,962.3065	2,372,752.4772
509PT	385,961.5608	2,372,744.8796

(498) = COORDINATE POINT NO.
SEE SHEET NO. 3 FOR PLAT COORDINATES



SECTION A–A
All end clearances shall be 2"

V-bars



HANDRAIL ATTACHMENT SECTION

*Provide Handrail along sidewalk where grade separation is above 30". Style and Color to be determined by owner.

RETAINING WALL DETAILS

No.	Revision	By	Date
1	REVISED SIDEWALK AND RETAINING WALL DETAILS		6-26-2006

OAK CREEK 2ND – PRIVATE PAVING IMPROVEMENTS

SIDEWALK, RETAINING WALL & CREEKBED IMPROVEMENTS

STA. 10+00 TO STA. 16+00

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	RMH	Job No.	35-05731-000
Drawn by	SAW	Date	October 2004

Sheet 12 of 59

Saved: 08-04-2006 6:14:48 PM by BJS
Plotted: 08-04-2006 6:15:20 PM by BJS
O:\Projects\05731\000\05731-000-C-Retaining Wall Plan

SCALE: 1"=20'

Sta. 10+00.00 SWS Line No. 1=
Const. Std. Type "P" Manhole
Dia.=5'-0"
Top Elev.= 1373.20
Install 301.2' L.F. 36" RCP (SE)
See Sheet No. 27.

Sta. 9+50.0 SWS Line No. 1
Begin 36" RCP Construction
Install 50.3 L.F. ~~48"~~ RCP (S) 36" RCP
(Including End Section)

EXISTING POND
Static Pool=1370.5
DWS 100 =1373.51

RESERVE "C"

Install 36 L.F. Excavatable Flowable Fill to Elev. 1372.6

Install 97 L.F. Excavatable Flowable Fill to Elev. 1375.4

Install 21 L.F. Excavatable Flowable Fill to Elev. 1379.0

Install 20 L.F. Excavatable Flowable Fill to Elev. 1379.0

Sta. 13+46.7 SWS Line No. 1=
℄ Reserve "B" Sta. 33+00.00, 39.50' Rt.
Const. Std. ~~Area~~ Inlet Type ~~"C" Inlet~~
~~L=5'-4", W=3'-10"~~ L=4'-0", W=5'-0" L=7'-0", W=5'-0"
Top Elev.=1380.32
See Sheet No. 25.

Type "C" Inlet Modified

CAUTION !!!
Proposed 8" Water
City of Wichita

CAUTION !!!
Proposed 8" Water
City of Wichita

Sta. 13+01.2 SWS Line No. 1=
Sta. 15+00.0 SWS Line No. 1A=
℄ Reserve "B" Sta. 33+00.00, 6.00' Lt.
Const. Std. Type "P" Manhole
Dia.=5'-0"
Top Elev.=1381.16
Install 45.5 L.F. 36" RCP (SE)
Install 198.6 L.F. 18" RCP (SW)
See Sheet No. 27.

COORDINATE LIST		
POINT	NORTH	EAST
100	385,934.2808	2,372,878.3433
101	385,885.1097	2,372,903.6474
102	385,603.7477	2,373,011.1790
103	385,592.4333	2,373,055.2119

(100) = COORDINATE POINT NO.
SEE SHEET NO. 3 FOR PLAT COORDINATES

BRIAN D. BOUTWELL LICENSED 10889 PROFESSIONAL ENGINEER 4/18/06

△2 Change Type "C" Inlet to Type "C" Inlet Modified.

△1 ~~Change Std. Area Inlet to Type "C" Inlet.~~

PLAN CHECKED CHECKED BY DATE

PROFILE CHECKED CHECKED BY DATE

Saved 08-04-2006 6:14:30 PM by BJS
Plot Scale 1:20 09-07-2006 12:08:10 PM by BJS
Q:\2005\05731\000\05731-000-C-SWS LINE NO 1-REV-1

Sta. 9+44.7 SWS Line No. 2 (100)
Begin 36" RCP Construction

Sta. 10+00.0 SWS Line No. 1 (101)
Const. Std. Type "P" Manhole
Top Elev.= 1373.20

℄ Reserve "B"

Prop. 8" Water
Top of Pipe=1367.05

Existing Ground

Excavatable Flowable Fill

Excavatable Flowable Fill

Excavatable Flowable Fill

Proposed Ground

Static Pool=
1370.5

Approx. Floor

℄ Out=1365.37

55.3 L.F. 36" RCP
@ +2.56%

℄ Out=1366.75
℄ In=1366.93

℄=1369.49

301.2 L.F. 36" RCP
@ +2.56%

℄=1372.05

Sta. 13+01.2 SWS Line No. 1 (102)
Const. Std. Type "P" Manhole
Top Elev.= 1381.16

℄ Reserve "B"

Prop. 8" Water
Top of Pipe=1373.43

Sta. 13+46.7 SWS Line No. 1 (103)
Const. Std. Area Inlet Type "C" Inlet
Const. Type "C" Inlet Modified
Top Elev.= 1380.32

℄= 1374.84
18" RCP (SW)

45.5 L.F. 36" RCP
@ +0.12%

℄ Out=1374.64
℄ In=1374.74

℄ Out=1374.79
℄ In=1374.99

1395 1390 1385 1380 1375 1370 1365 1360 1355

9+00 10+00 11+00 12+00 13+00 14+00

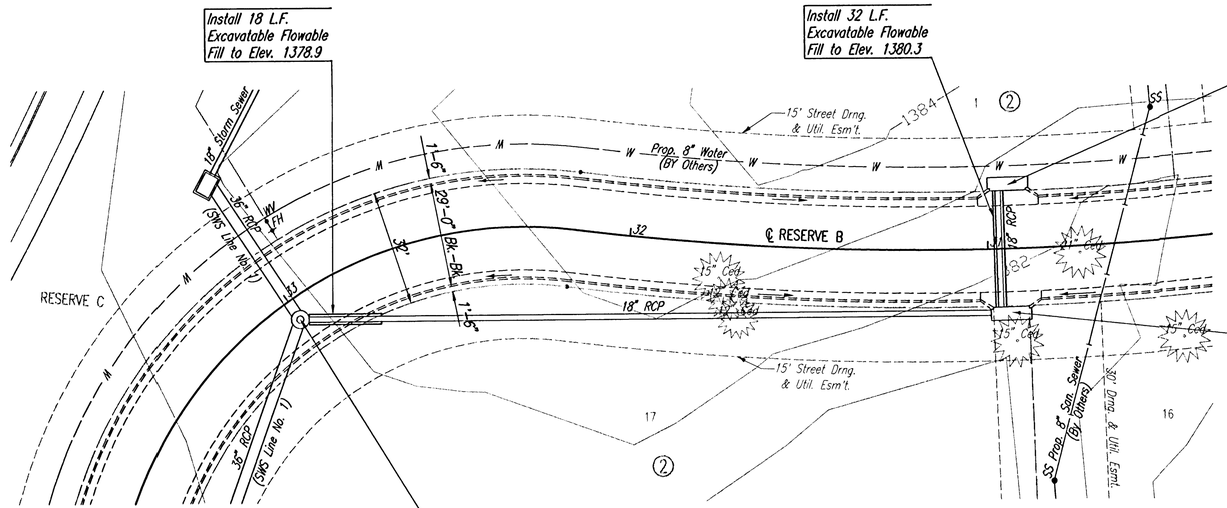
OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

SWS LINE NO. 1

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed By BDB, BLB
Drawn By BJS, JMU
Job No. 35-05731-000-5526
Date October 2004

PLAN | CHECKED | CHECKED | BY | DATE



(105)
Sta. 17+33.9 SWS Line No. 1A=
℄ Reserve "B" Sta. 30+94.00, 17.67' Rt.
Const. Std. Type 1A Curb Inlet
L=11'-0", W=3'-0"
Top Elev.=1382.77 1382.90
See Sheet No. 24.

SCALE: 1"=20'

(104)
Sta. 16+98.6 SWS Line No. 1A=
℄ Reserve "B" Sta. 30+94.00, 17.67' Lt.
Const. Std. Type 1A Curb Inlet
L=11'-0", W=3'-0"
Top Elev.= 1382.77 1382.90
Install 35.3 L.F. 18" RCP (NW)
See Sheet No. 24.

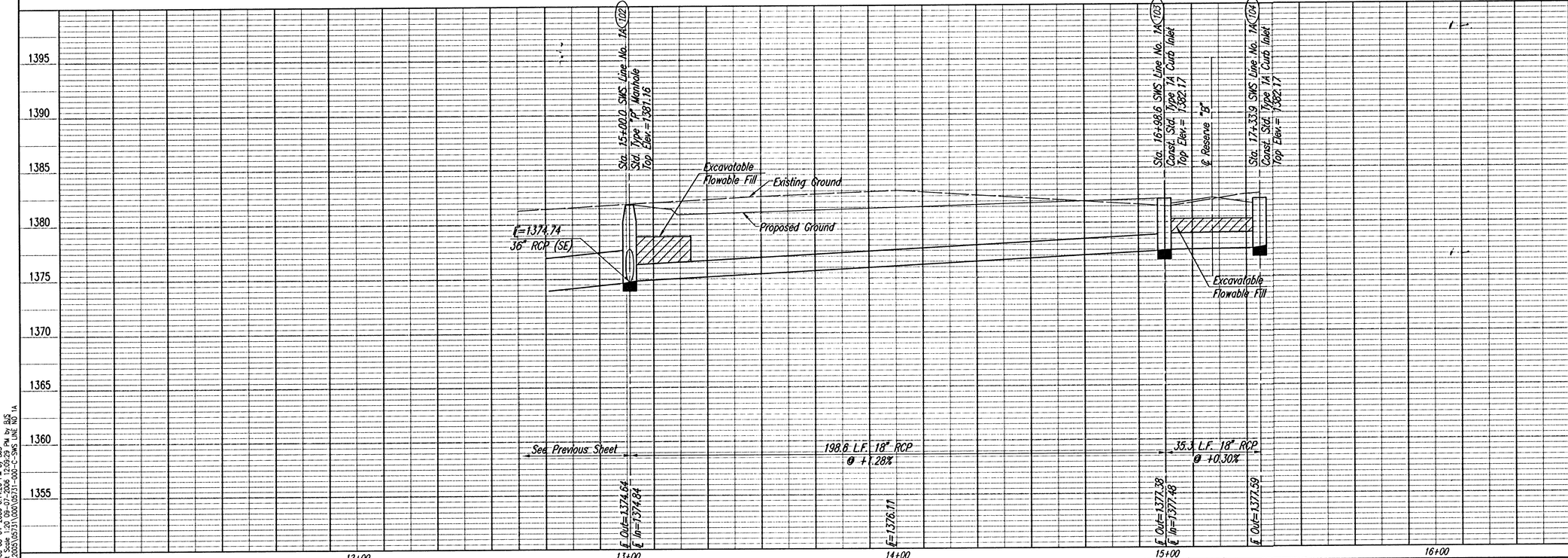
(102)
Sta. 15+00.0 SWS Line No. 1A=
Sta. 13+01.2 SWS Line No. 1=
℄ Reserve "B" Sta. 33+00.00, 6.00' Lt.
Std. Type "P" Manhole
Dia.=5'-0"
Top Elev.=1381.16

COORDINATE LIST		
POINT	NORTH	EAST
102	385,603.7477	2,373,011.1790
104	385,473.2142	2,372,861.5417
105	385,447.1167	2,372,885.3710

(102) = COORDINATE POINT NO.
SEE SHEET NO. 3 FOR PLAT COORDINATES

BRIAN D. BOUTWELL LICENSED 10889 PROFESSIONAL ENGINEER
9/6/06

PROFILE | CHECKED | CHECKED | BY | DATE



SWS LINE NO. 1A

OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

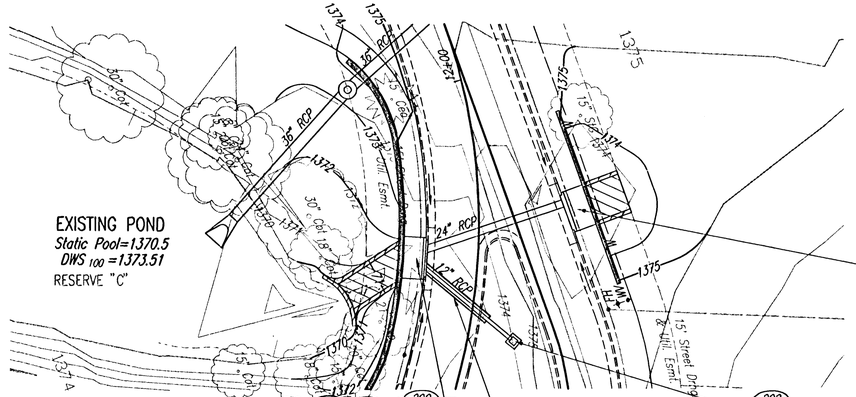
Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed By BDB, BLB | Job No. 35-05731-000-5526
Drawn By BJS, JMU | Date October 2004

Sheet 17 of 59

Saved 08-04-2006 6:14:26 PM by BJS
Plot Scale 1:20, 09-07-2006 12:09:29 PM by BJS
Q:\2005\05731\000\05731-000-C-SWS LINE NO 1A

PLAN	BY	DATE
CHECKED		
CHECKED		



SCALE: 1"=20'

COORDINATE LIST		
POINT	NORTH	EAST
200	385,883.5887	2,372,854.0993
201	385,837.6097	2,372,850.7910
202	385,866.5085	2,372,823.2028

(200) = COORDINATE POINT NO.
SEE SHEET NO. 3 FOR PLAT COORDINATES

(200)
Sta. 20+00.0 SWS Line No. 2=
Sta. 12+50.00 @ 1 Res "B" 16.50' Rt.
Const. Type "W" Curb Inlet
L=11'-0", W=6'-0"
Top Elev.=1375~~.12~~ 4.58
Install 46.1 L.F. 24" RCP (SW)
Install 35.3 L.F. 12" RCP (SW)
℄ In=1371.43 (12" RCP)
See Sheet No. 23.

Install 22 L.F.
Excavatable Flowable
Fill to Elev. 1373.7

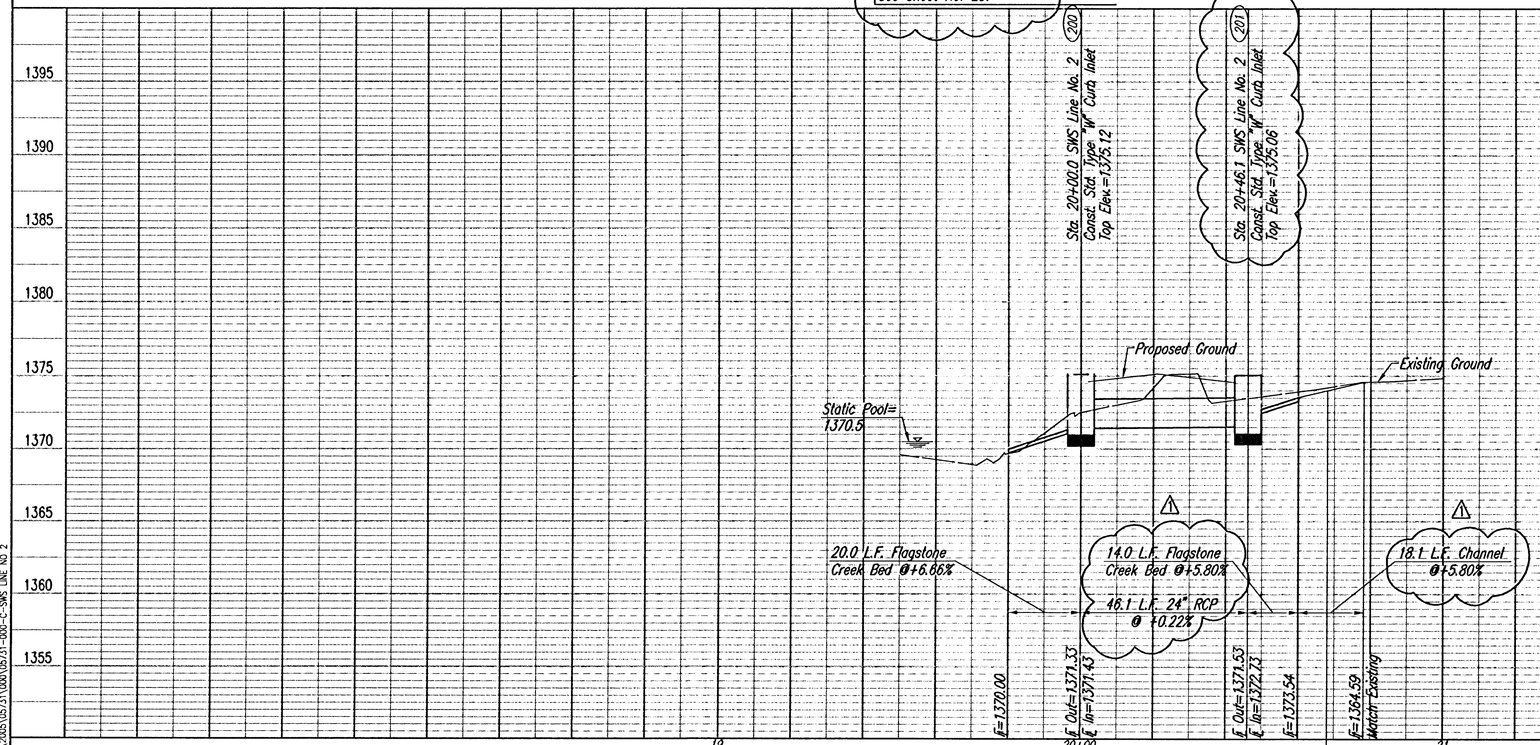
(201)
Sta. 20+46.1 SWS Line No. 2=
Sta. 12+44.00 @ 2 Res "B" 17.67' Lt.
Const. Type "W" Curb Inlet
L=11'-0", W=6'-0"
Top Elev.=1375~~.88~~ 4.60
See Sheet No. 23.

(202)
Sta. 12+72.00 @ 2 Res. "B", 11.50' Rt.
Const. Std. 2x2 Area Inlet
L=3'-2", W=3'-2"
Top Elev.=1373.~~88~~ .12
℄ Out=1371.55 (NE)
See Sheet No. 26.

BRIAN D. BOUTWELL
LICENSED
10889
PROFESSIONAL ENGINEER
9/18/06

No.	Revision	By	Date
1	REVISED STATION AND PIPE LENGTH AND COORDINATES		6-26-2006

PROFILE	BY	DATE
CHECKED		
CHECKED		



SWS LINE NO. 2

OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-8003

Designed By	BDB, BLB
Drawn By	BJS, JMJ
Job No.	35-05731-000-5526
Date	October 2004

Sheet 18 of 59

Saved 08-04-2006 6:42:22 PM by BJS
Plotted 08-04-2006 6:42:22 PM by BJS
G:\2005\05731\000\05731-000-25-SWS LINE NO. 2

SSMH21
Rim=1382.80
℄=1363.65 8" PVC (SW)
℄=1363.60 8" PVC (NE)
Inverts covered w/ dirt

CAUTION!!!
Prop. 8" San. Sewer
City of Wichita

SS MH
Rev. Top Elev.=
Design Top Elev.=1388.2
℄ In=1370.46 (NW)
℄ In=1375.50 (SW)
℄ Out=1370.26 (NE)

SS MH
Rev. Top Elev.=
Design Top Elev.=1390.6
℄ In=1376.16 (SW)
℄ Out=1376.16 (NE)

SCALE: 1"=20'

COORDINATE LIST		
POINT	NORTH	EAST
103	385,592.4333	2,373,055.2119
106	385,433.3209	2,373,096.7383
107	385,263.6829	2,372,983.8522
108	385,188.9342	2,372,919.2584
109	385,130.4809	2,372,839.6159

(103) = COORDINATE POINT NO.
SEE SHEET NO. 3 FOR PLAT COORDINATES

15" Storm Sewer
18" Storm Sewer
H.P.=1382.50
H.P.=1384.80
H.P. 1387.50
Prop. 8" San. Sewer (By Others)
℄ 20' Util. Esmt.
TOE
DITCH

(106)
Sta. 31+64.4 SWS Line No. 1B
Const. Std. Area Inlet (2x2)
L=3'-4 1/2", W=3'-1 1/2"
Top Elev.=1382.00
Install 203.8 L.F. 15" SWS (SW)
See Sheet No. .

(107)
Sta. 33+68.2 SWS Line No. 1B
Const. Std. Area Inlet (2x2)
L=3'-4 1/2", W=3'-1 1/2"
Top Elev.=1384.55
Install 98.8 L.F. 15" SWS (SW)
See Sheet No. .

(108)
Sta. 34+67.0 SWS Line No. 1B
Const. Std. Area Inlet (2x2)
L=3'-4 1/2", W=3'-1 1/2"
Top Elev.=1386.38
Install 98.8 L.F. 15" SWS (SW)
See Sheet No. .

(109)
Sta. 35+65.8 SWS Line No. 1B
Const. Std. Area Inlet (2x2)
L=3'-4 1/2", W=3'-1 1/2"
Top Elev.=1387.25
Install 153.2 L.F. 15" SWS (NSW)
See Sheet No. .

Sta. 30+00.0 SWS Line No. 1B=
Sta. 13+46.7 SWS Line No. 1
Type "C" Inlet Modified
L=7'-0", W=5'-0"
Top Elev.=1380.32
Install 164.4 L.F. 18" SWS (SE)

(103)

BRIAN D. BOUTWELL
LICENSED
10880
PROFESSIONAL ENGINEER
4/18/06

No.	Revision	By	Date
2	REVISED BACKYARD DRAINAGE (SWS LINE NO. 1B) AND BERM		8-04-2006
1	REVISED BACKYARD BRAINAGE (SWS LINE NO. 1B)		6-26-2006

PLAN
CHECKED
CHECKED
BY
DATE

PROFILE
CHECKED
CHECKED
BY
DATE

1410
1405
1400
1395
1390
1385
1380
1375
1370

Sta. 30+00.0 SWS Line No. 1B (102)
Sta. 13+46.7 SWS Line No. 1
Type "C" Inlet Modified
Top Elev.=1380.32
℄ Out=1374.79
℄ In=1374.99

Sta. 31+64.4 SWS Line No. 1B (106)
Const. Area Inlet (2x2)
Top Elev.=1382.00
℄ Out=1378.48
℄ In=1378.68

Prop. 8" San. Sewer
℄=1370.57

Sta. 33+68.2 SWS Line No. 1B (107)
Const. Area Inlet (2x2)
Top Elev.=1384.55
℄ Out=1381.04
℄ In=1381.24

Sta. 34+67.0 SWS Line No. 1B (108)
Const. Area Inlet (2x2)
Top Elev.=1386.38
℄ Out=1382.82
℄ In=1383.02

Sta. 35+65.8 SWS Line No. 1B (109)
Const. Area Inlet (2x2)
Top Elev.=1387.25
℄ Out=1383.73
℄ In=1383.93

Existing Ground
Prop. Ground
H.P. 1382.50
H.P. 1384.80
H.P. 1387.50

184.4 L.F. 18" Storm Sewer @ +2.12%
203.8 L.F. 15" Storm Sewer @ +1.16%
98.8 L.F. 15" Storm Sewer @ +1.60%
98.8 L.F. 15" Storm Sewer @ +0.72%
See Next Sheet

℄=1377.11
℄=1379.09
℄=1380.25
℄=1381.75
℄=1383.26

30+00 31 32 33 34 35+00

OAK CREEK 2ND – PRIVATE PAVING IMPROVEMENTS

SWS LINE NO. 1B AND GRADING PLAN

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed By BDB, BLB
Drawn By BJS, JMU
Job No. 35-05731-000-5526
Date October 2004

Saved 08-04-2006 6:14:16 PM by BJS
Print Scale 1:20 09-07-2006 12:12:21 PM by BJS
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SS MH
Rev. Top Elev.=
Design Top Elev.=1390.6
℄ In=1376.16 (SW)
℄ Out=1376.16 (NE)

SS MH
Rev. Top Elev.=
Design Top Elev.=1392.7
℄ In=1377.02 (WNW)
℄ Out=1377.02 (NE)

SS MH
Rev. Top Elev.=
Design Top Elev.=1396.7
℄ In=1379.26 (NW)
℄ Out=1379.26 (ESE)

℄ 19TH ST. NORTH

15" Storm Sewer

12" Storm Sewer

H.P.=1390.25

109
Sta. 35+65.8 SWS Line No. 1B
Std. Area Inlet (2x2)
L=3'-4 1/2", W=3'-1 1/2"
Top Elev.=1387.25
See Sheet No. 26.

110
Sta. 37+19.0 SWS Line No. 1B
Const. Std. Area Inlet (2x2)
L=3'-4 1/2", W=3'-1 1/2"
Top Elev.=1389.02
Install 153.2 L.F. 15" SWS (W)
See Sheet No. 26.

111
Sta. 38+72.2 SWS Line No. 1B
Const. Std. Area Inlet (2x2)
L=3'-4 1/2", W=3'-1 1/2"
Top Elev.=1390.00
Install 120.6 L.F. 12" SWS (NW)
See Sheet No. 26.

112
Sta. 39+92.8 SWS Line No. 1B
Std. Area Inlet
L=3'-4 1/2", W=3'-1 1/2"
Top Elev.=1392.23
See Sheet No. 26.

SCALE: 1"=20'

COORDINATE LIST		
POINT	NORTH	EAST
109	385,130.4809	2,372,839.6159
110	385,078.5708	2,372,695.4624
111	385,079.2377	2,372,542.2487
112	385,116.8200	2,372,427.6339

(109) = COORDINATE POINT NO.
SEE SHEET NO. 3 FOR PLAT COORDINATES

BRIAN D. BOUTWELL LICENSED 10889 PROFESSIONAL ENGINEER 8/8/06

No.	Revision	By	Date
2	REVISED BACKYARD DRAINAGE (SWS LINE NO. 1B) AND BERM		8-04-2006
1	REVISED BACKYARD BRAINAGE (SWS LINE NO. 1B)		6-26-2006

PLAN | BY | DATE | CHECKED | CHECKED

PROFILE | BY | DATE | CHECKED | CHECKED

Saved 08-04-2006 6:14:12 PM by BJS
Plot Scale=1:20 09-07-2006 12:13:33 PM by BJS
O:\2005\05731\000\05731-000-C-SHEKWRD SWS-2

1410
1405
1400
1395
1390
1385
1380
1375
1370

Sta. 35+65.8 SWS Line No. 1B (109)
Std. Area Inlet (2x2)
Top Elev.=1387.25

Sta. 37+19.0 SWS Line No. 1B (110)
Const. Area Inlet (2x2)
Top Elev.=1389.02

Sta. 38+72.2 SWS Line No. 1B (111)
Const. Area Inlet (2x2)
Top Elev.=1390.00

Sta. 39+92.8 SWS Line No. 1B (112)
Area Inlet (2x2)
Top Elev.=1392.23

Existing Ground
H.P. 1387.50
H.P. 1390.25
Prop. Ground

See Previous Sheet

153.2 L.F. 15" Storm Sewer @ +1.00%

153.2 L.F. 15" Storm Sewer @ +0.52%

120.6 L.F. 12" Storm Sewer @ +1.68%

See Next Sheet

	35+00	36	37	38	39	40+00
℄ Out=	1383.73		1385.46		1386.46	1388.69
℄ In=	1383.93	1384.27	1385.66	1386.08	1386.66	1388.89
℄	1383.26		1385.27		1387.13	

OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

SWS LINE NO. 1B AND GRADING PLAN

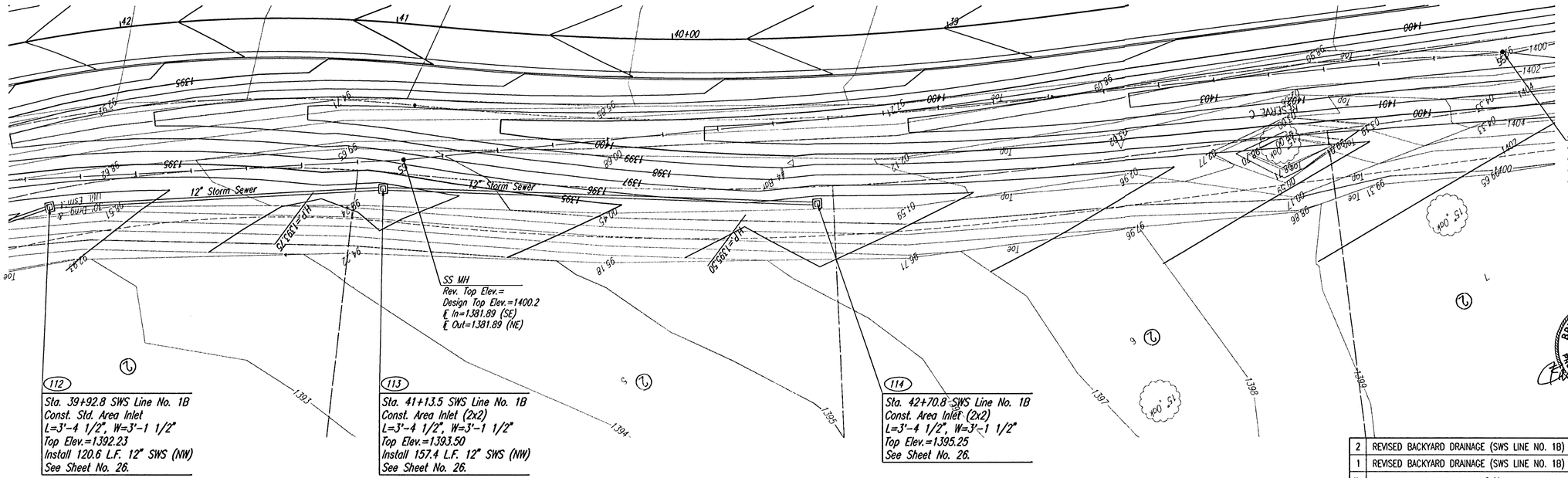
Professional Engineering Consultants, P.A.
303 S. TOPEKA, WICHITA, KANSAS 67202
316.262.2691 • FAX 316.262.5063

Designed By	BDB, BLB	Job No.	35-05731-000-5526
Drawn By	BJS, JMO	Date	October 2004

COORDINATE LIST		
POINT	NORTH	EAST
112	385,116.8200	2,372,427.6339
113	385,184.1133	2,372,327.5312
114	385,282.9733	2,372,205.0270

(112) = COORDINATE POINT NO.
SEE SHEET NO. _ FOR PLAT COORDINATES

SCALE: 1"=20'



(112)
Sta. 39+92.8 SWS Line No. 1B
Const. Std. Area Inlet
L=3'-4 1/2", W=3'-1 1/2"
Top Elev.=1392.23
Install 120.6 L.F. 12" SWS (NW)
See Sheet No. 26.

(113)
Sta. 41+13.5 SWS Line No. 1B
Const. Area Inlet (2x2)
L=3'-4 1/2", W=3'-1 1/2"
Top Elev.=1393.50
Install 157.4 L.F. 12" SWS (NW)
See Sheet No. 26.

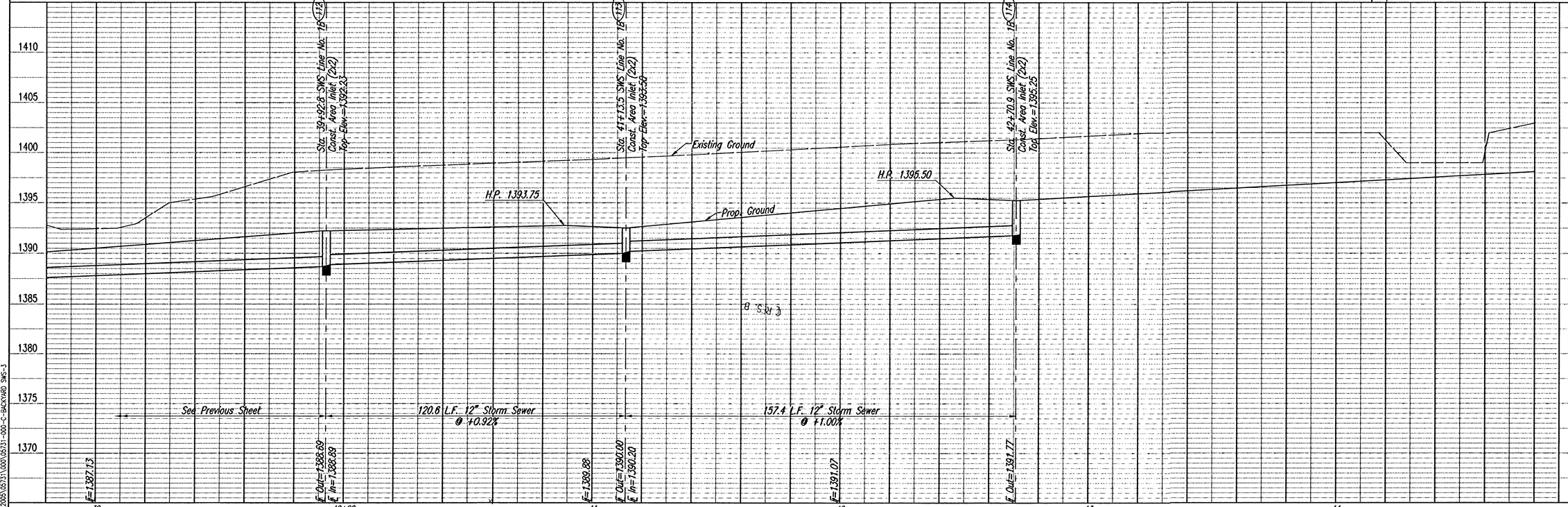
(114)
Sta. 42+70.8 SWS Line No. 1B
Const. Area Inlet (2x2)
L=3'-4 1/2", W=3'-1 1/2"
Top Elev.=1395.25
See Sheet No. 26.

BRIAND BOUTWELL
LICENSED
10889
PROFESSIONAL ENGINEER
5/18/06

No.	Revision	By	Date
2	REVISED BACKYARD DRAINAGE (SWS LINE NO. 1B) AND BERM		8-04-2006
1	REVISED BACKYARD DRAINAGE (SWS LINE NO. 1B)		6-26-2006

PLAN: CHECKED / CHECKED — BY — DATE

PROFILE: CHECKED / CHECKED



OAK CREEK 2ND - PRIVATE PAVING IMPROVEMENTS

SWS LINE NO. 1B AND GRADING PLAN

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-8403

Designed By BDB, BLB
Drawn By BJS, JMU
Job No. 35-05731-000-5526
Date October 2004

Sheet 21 of 59

Saved: 09-11-2006 8:17:18 AM by BJS
Plot Scale: 1.20' 09-11-2006 10:32:00 AM by BJS
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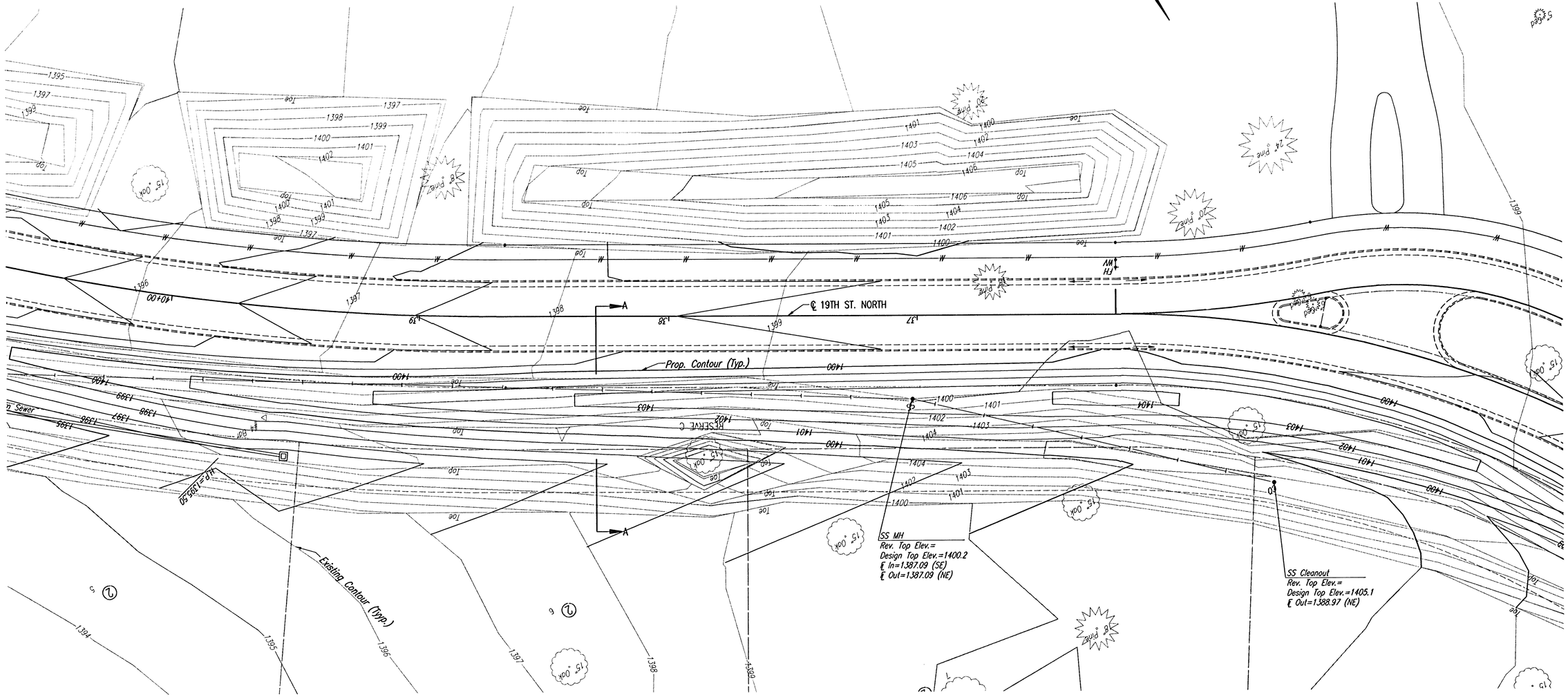
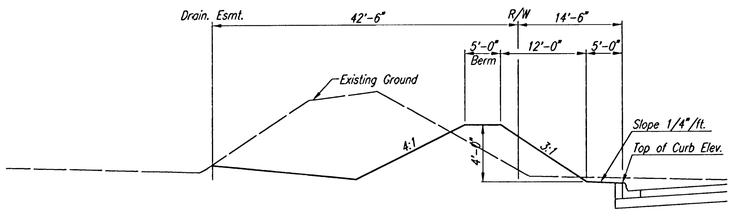
SCALE: 1"=20'





TYPICAL SECTION A-A
ALONG BERM

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BRIAND D. BOUTWELL LICENSED 10889 PROFESSIONAL ENGINEER
9/8/06

No.	Revision	By	Date

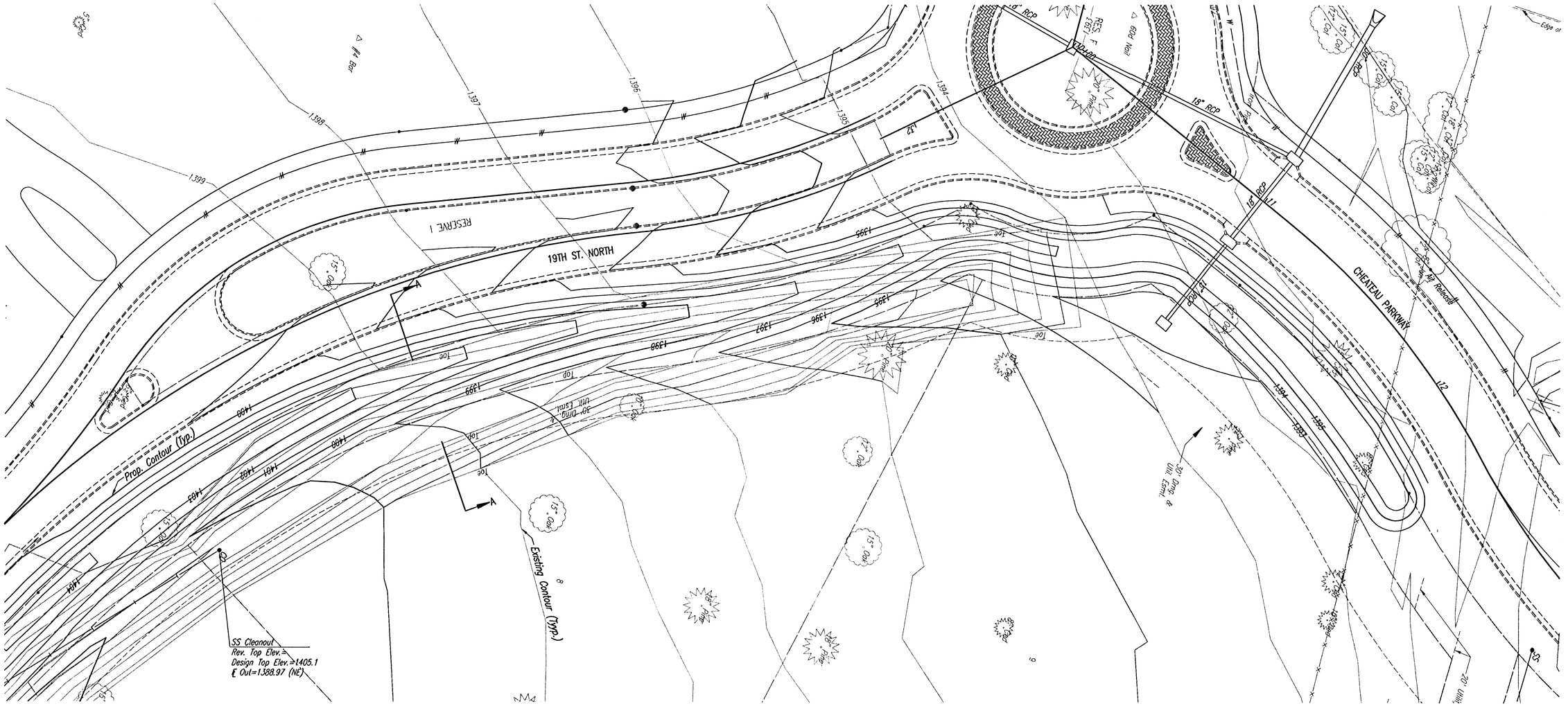
OAK CREEK 2ND – PRIVATE PAVING IMPROVEMENTS

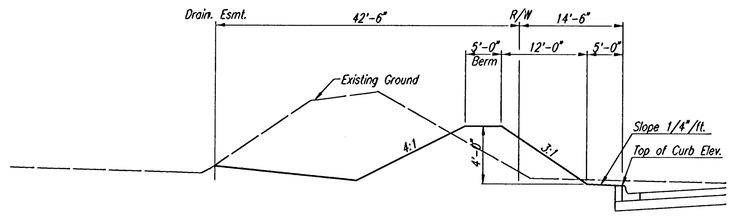
GRADING PLAN

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BDB, BMM	Job No.	35-05731-000
Drawn by	BJS, JMU	Date	October 2004

SCALE: 1"=20'





TYPICAL SECTION A-A
ALONG BERM

No.	Revision	By	Date

OAK CREEK 2ND – PRIVATE PAVING IMPROVEMENTS

GRADING PLAN

BRIAN D. BOUTWELL LICENSED 10889 PROFESSIONAL ENGINEER 9/8/06

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BDB, BMM	Job No.	35-05731-000	Sheet 21B of 59
Drawn by	BJS, JMU	Date	October 2004	

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DIVISION 16 – ELECTRICAL

A. General Instructions:

1. Codes, Permits and Inspections:
   a. Wiring shall be in accordance with latest edition National Electrical Code (NEC), NFPA, and/or applicable local, state, and Utility Company rules, laws, codes, and ordinances.
   b. Secure all permits and inspections required for the installation of the electrical work.
   c. All work shall comply with the latest edition of the Americans With Disabilities Act (ADA).
   d. Pay all fees associated with new utility services.

2. Verifications:
   a. Verify mounting heights and locations of electrical equipment before installation or rough-in.
   b. Verify exact location of electrical service entrance including point of service and system characteristics.
3. Wiring Methods:
   a. The Electrical Contractor shall cooperate with other Contractors and install equipment in proper sequence so as not to interfere with the progress of other Contractors.
   b. All materials shall be new and carry the Underwriter's Label or be "listed" by that group, and be fully equal to makes specified.
   c. Use only insulated copper conductors in conduit. Use flexible conduit for connections to motors and similar equipment.
   d. All wiring shall be concealed and all outlets shall be flush mounted in finished spaces except as noted otherwise.

4. Tests:
   a. This Contractor shall be responsible for performing all tests necessary to prevent concealment of defective or improper work.
   b. Upon completion of work, test the installation thoroughly and render it free from shorts, grounds or improper connections.

5. Guarantee – This Contractor shall guarantee that all defective items of workmanship, material, labor or mechanical operation developing within one (1) year from the date of final acceptance of completed installation shall be replaced to the complete satisfaction of the Owner.

6. Workmanship – Electrical equipment shall be installed in a neat and workmanlike manner. Unsightly installations shall be removed or reworked at no additional expense to the Owner.

7. Identification of disconnecting means – Provide a permanent nameplate for each disconnect switch indicating its purpose. The marking shall be of sufficient durability to withstand the environment it is installed in as required by N.E.C. Section 110-22 and 230-72(a).

B. Electrical Equipment:

1. Conduits:
   a. All underground horizontal conduit shall be PVC.
   b. Provide a ground wire sized per N.E.C. Art. 250-122 in all conduits, both metallic and nonmetallic.
   c. Conduit shall be installed and sized according to code requirements and protected from damage during construction.
   d. Conduit may be re-routed where such action does not adversely affect the intended design or circuiting.
   e. Provide Robroy, Perma-Core or Korkop PVC coated steel ells and risers. (typical)

2. Conductors:
   a. Conductors shall be copper, generally with 600 volt rated insulation. Branch circuit wiring min. size #12 Type "THW" or "THWN/THHN" as required. Service entrance, feeder conductors type "THWN/THHN" or "XHHW". Low voltage wire shall be Type "TF" or "TFF" minimum #18 gauge unless noted otherwise. All other types shall be as required by N.E.C.
   b. All conductors shall be color coded with type and size marking. Connections to service equipment, feeder panels shall be made with solderless lugs. All splices, taps, connections to service entrance conductors shall be made by bronze solderless lugs. All other splices, connections shall be pressure type connectors.
   c. Insulate joints, splices with Scotch #33 plastic tape or plastic molded jackets.

3. Grounding:
   a. Provide system ground as required by N.E.C. and utility company if not already existing.
   b. Bond mechanical equipment frames.
   c. Bond all service entrance equipment and conduit system.
   d. An equipment grounding conductor sized per N.E.C. Art. 250-122 shall be provided in all conduits. The ground wire is required for both metallic and nonmetallic conduit installations.

4. Photo Electric Controls:
   a. Photo Electric Controls by Tork, Intermatic and Paragon equal to those indicated below and approved by the Engineer will be acceptable.

LIGHTING FIXTURE SCHEDULE

(P.E.C.)

FIXT. LTR.	MANUFACTURER	CATALOG NUMBER	LAMPS NO	LAMPS TYPE	VOLTS	LENS/FINISH	DESCRIPTION	DIMENSIONS W	DIMENSIONS L	DIMENSIONS D	REMARKS
② P3	HOLOPHANE		1	100W MH	208	DK BRONZE	POLE MOUNTED				

① MANUFACTURERS LISTED IN THIS SCHEDULE OR APPROVED BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.

② HOLOPHANE FIXTURE #GUV-10-DMH-20-Z-6-N-RB-S-B-HS-180 WITH POLE #MR-S5/19-14-CADD.

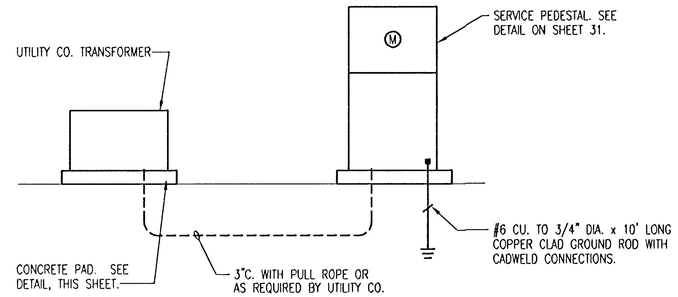
PANELBOARD: A

208/120 VOLTS, 3 PHASE, 4 WIRE
200 AMP MAIN BKR, SURFACE MTD.
80000 AIC LABELED

S.E. RATED W/GRD. BUS

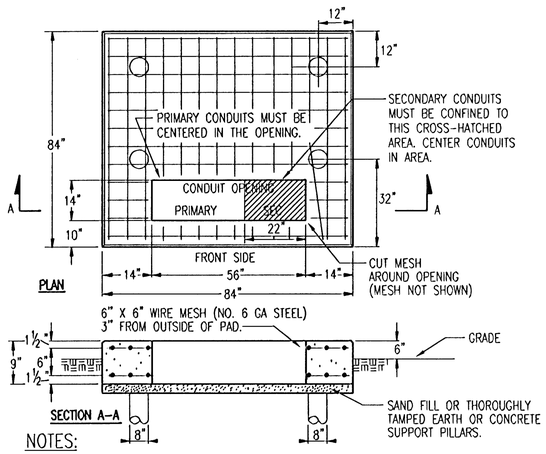
	CIRC NO	LOAD V. A.	LOAD TYPE	LOAD DESCRIPTION	P	AMP SIZE	POLE	P	AMP SIZE	LOAD DESCRIPTION	LOAD TYPE	LOAD V. A.	CIRC NO.	
①	1	900	LGH	STREET LIGHTING	2	20	A	1	20	MOTORIZED GATE CONTROLLER	RMI	1200	2	
	3	———	—	———————	—	—	B	1	20	MOTORIZED GATE CONTROLLER	RMI	1200	4	
	5	11600	MTR	RECIRC PUMP (10HP)	3	60	C	1	20	LANDSCAPE SIGN	LGH	1200	6	①
	7	———	—	———————	—	—	A	1	20	LANDSCAPE LIGHTING	LGH	1000	8	①
	9	———	—	———————	—	—	B	1	20	LANDSCAPE LIGHTING	LGH	1000	10	①
	11		SPW	SPARE	1	20	C	1	20	LANDSCAPE LIGHTING	LGH	1000	12	①
	13		SPW	SPARE	1	20	A	1	20	SPARE	SPW		14	
	15		SPW	SPARE	1	20	B	1	20	SPARE	SPW		16	
	17		SPW	SPARE	1	20	C	1	20	SPARE	SPW		18	
	19			SPACE			A			SPACE			20	
	21			SPACE			B			SPACE			22	
	23			SPACE			C			SPACE			24	

① CIRCUITS SHALL BE ROUTED VIA CONTACTOR AND CONTROLLED BY PHOTOCELL.



2 ELECTRICAL RISER DIAGRAM

NOT TO SCALE



NOTES:

1. VERIFY PAD LOCATION, DIMENSIONS & ALL REQUIREMENTS WITH LOCAL UTILITY CO.
2. THE TOP OF THE TRANSFORMER PAD SHALL RECEIVE A SMOOTH TROWEL FINISH. THE CORNERS AND EDGES SHALL BE ROUNDED OR BEVELLED.
3. THE CONCRETE SHALL BE A MINIMUM OF 3,000 LB. MIX.
4. CONTRACTOR SHALL EXTEND FORMS DOWN TO AT LEAST 3" BELOW AVERAGE GROUND LINE.
5. TOP OF CONDUITS SHALL BE FLUSH WITH TOP OF PAD.
6. THE CONDUIT OPENING SHALL BE FREE AND CLEAR OF CONCRETE.
7. PILLARS ARE FORMED BY AUGERING AN 8" DIAMETER HOLE TO A DEPTH OF UNDISTURBED EARTH. A SEPARATOR, SUCH AS TAR PAPER, SHOULD BE PLACED BETWEEN THE PILLAR AND THE PAD SO THE PAD CAN BE LEVELLED AT A LATER TIME IF NECESSARY.

1 TRANSFORMER PAD DETAIL

NOT TO SCALE 75-500KVA

SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING
P3	LIGHT FIXTURE & FIXTURE LETTER	POLE
WP	WEATHERPROOF	
	PULL BOX	
	ELECTRICAL DISTRIBUTION EQUIPMENT	
	CONDUIT RUN 2 CIRCUITS, 3/#12 & 1/#12 GRD.- 3/4"C.	EARTH/FLOOR
	CONDUIT RUN TWO (2) CIRCUITS -PHASE CONDUCTORS (#12 U.O.N.) -NEUTRAL CONDUCTOR (#12 U.O.N.) -SWITCH LEGS (#12 U.O.N.) -GROUND CONDUCTOR (#12 U.O.N.)	CEILING/WALL

GENERAL NOTES

1. E.C. SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS AND THE REQUIREMENTS CALLED OUT ON THE PLANS.
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL ELECT. CODES OR REGULATIONS OF THE UTILITY COMPANY.
3. REFER TO SPECIFICATIONS FOR DATA NOT SHOWN ON DRAWINGS.
4. E.C. SHALL PAY FOR ALL FEES AND PERMITS FOR ELECTRICAL WORK ON THIS PROJECT.
5. E.C. IS RESPONSIBLE FOR DAMAGE TO CITY PROPERTY OR THE WORK BY OTHERS THAT MAY BE CAUSED BY THE E.C.'S WORK OR ACTIVITY IN THE AREA.
6. ALL ELECTRICAL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. UNSIGHTLY INSTALLATION WORK SHALL BE REMOVED AND REWORKED AT THE DIRECTION OF THE FIELD ENGINEER OR THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
7. THE G.C. SHALL BE RESPONSIBLE FOR: PAYING ALL UTILITY BILLS FOR OPERATION OF THE ELECTRICAL SYSTEM THROUGH FINAL ACCEPTANCE. ALL SLEEVES, RUBBLE EXCAVATION AND REMOVAL, CONCRETE WORK, REINFORCING, STEEL SUPPORTS AND BRACKETS, SEAL AND GROUT ALL OPENINGS AFTER E.C. HAS COMPLETED ELECTRICAL WORK OR PORTIONS THEREOF, AREA CLEAN UP OF OWN WORK, PAINTING OF SURFACES REQUIRED BY CITY SPECS. OR UTILITY CO., AND ALL WORK REQUIRED FOR THE E.C. THAT IS NOT ELECTRICAL RELATED.
8. E.C. SHALL FURNISH AND INSTALL A SURGE ARRESTER: SQUARE 'D' #SDSA1175 OR APPROVED EQUAL AND INSTALL AT EACH SERVICE ENTRANCE.
9. E.C. SHALL PROVIDE, FURNISH AND INSTALL ALL PARTS, EQUIPMENT, SUPPLIES AND LABOR TO CONSTRUCT AND INSTALL A COMPLETE LIGHTING SYSTEM.
10. E.C. SHALL SHALL VERIFY ALL EQUIPMENT SPECIFIED ON THE LIGHTING PLAN AND COORDINATE MANUFACTURER'S CHANGES WITH PLAN INFORMATION AFTER NOTICE TO PROCEED IS GIVEN. THESE CHANGES SHALL NOT ACCRUE ADDITIONAL COST TO THE OWNER.
11. E.C. SHALL RECORD SYSTEM LOAD PER PHASE OF DISTRIBUTION PANEL AND SUBMIT FINAL READINGS TO OWNER WITH PRODUCT INFORMATION.
12. E.C. SHALL TEST COMPLETE SYSTEM TO INSURE CIRCUITS ARE FREE FROM SHORT CIRCUITS AND TO MAKE ALL NECESSARY ADJUSTMENTS TO ELECTRICAL EQUIPMENT. INSTALLED FIXTURES AND POLES SHALL BE CLEAN, FREE OF SCRATCHES AND MARKS.
13. E.C. SHALL DELIVER TO THE OWNER BEFORE FINAL ACCEPTANCE IN TRIPLICATE: SHOP DRAWINGS, CATALOGUE DATA, PRODUCT INFORMATION, OPERATION AND MAINTENANCE INSTRUCTIONS, AND PARTS LIST. DELIVER TWO RED LINE 'AS BUILT' BLUEPRINTS OF THE LIGHTING PLAN, ADDENDA AND CHANGE ORDERS THAT PERTAIN TO THIS WORK.
14. E.C. SHALL FULLY INSTRUCT THE OWNER OR IT'S REPRESENTATIVE AS TO THE PROPER OPERATION, CARE, MAINTENANCE AND CHARACTERISTICS OF THE LIGHTING SYSTEM AND IT'S EQUIPMENT.
15. ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS.
16. REFER TO THIS SHEET FOR ELECTRICAL SPECIFICATIONS.

ROBERT D. BILY LICENSED PROFESSIONAL ENGINEER 17443 KANSAS

No.	Revision	By	Date

OAK CREEK 2ND – PRIVATE PAVING IMPROVEMENTS

ELECTRICAL SCHEDULES AND DETAILS

JAMES L. ARMOUR, P.E.– CITY ENGINEER
CITY OF WICHITA PROJECT NO. XXX-XXXXX

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	DCG	Job No.	20-05731	Sheet	30 of 59
Drawn by	MDB	Date	April 2006		

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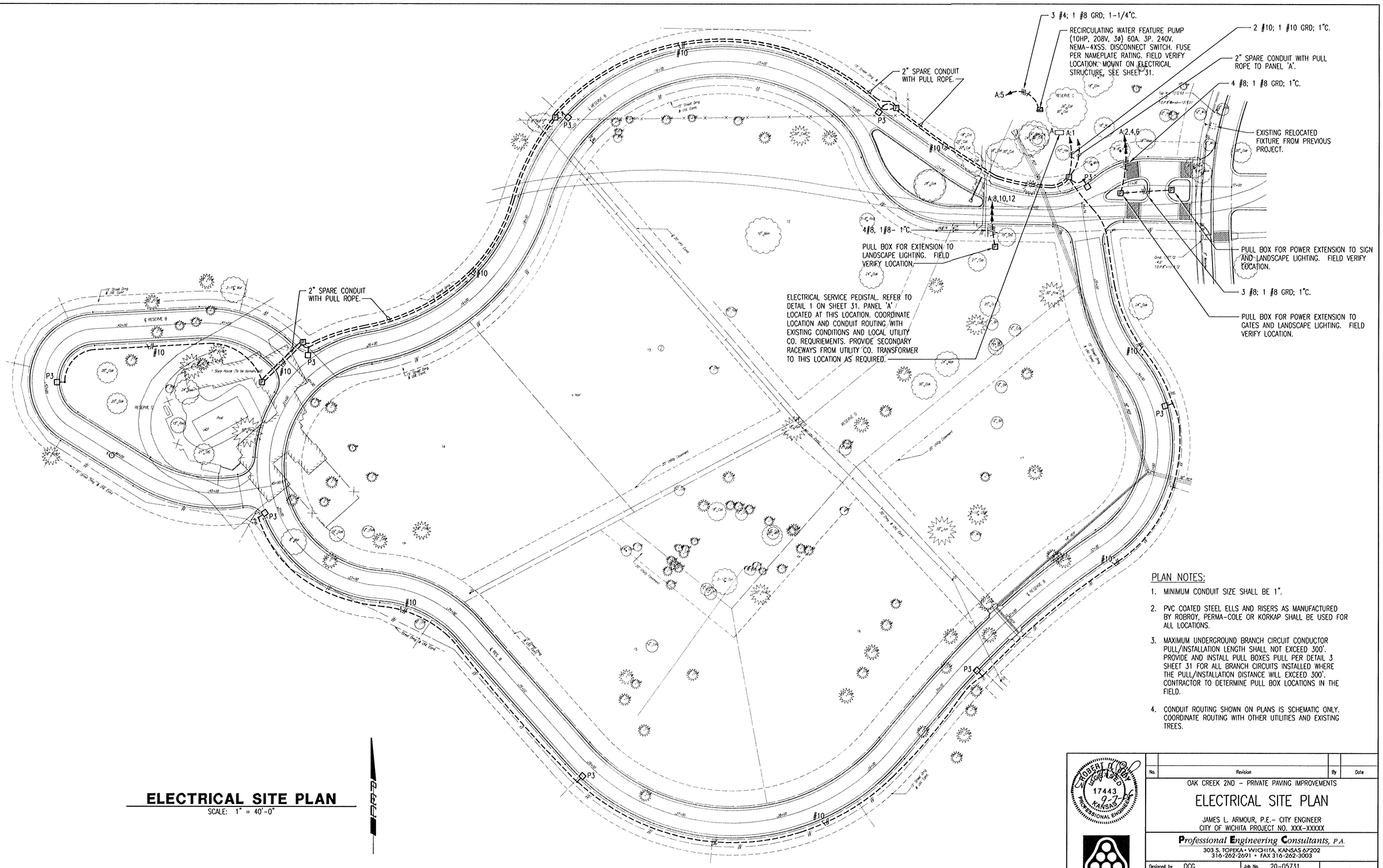

ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

PLAN NOTES:

1. MINIMUM CONDUIT SIZE SHALL BE 1".
2. PVC COATED STEEL ELLS AND RISERS AS MANUFACTURED BY ROBROY, PERMA-COLE OR KORKAP SHALL BE USED FOR ALL LOCATIONS.
3. MAXIMUM UNDERGROUND BRANCH CIRCUIT CONDUCTOR PULL/INSTALLATION LENGTH SHALL NOT EXCEED 300'. PROVIDE AND INSTALL PULL BOXES PULL PER DETAIL 3 SHEET 31 FOR ALL BRANCH CIRCUITS INSTALLED WHERE THE PULL/INSTALLATION DISTANCE WILL EXCEED 300'. CONTRACTOR TO DETERMINE PULL BOX LOCATIONS IN THE FIELD.
4. CONDUIT ROUTING SHOWN ON PLANS IS SCHEMATIC ONLY. COORDINATE ROUTING WITH OTHER UTILITIES AND EXISTING TREES.

ROBERT D. KRUG — 17443 — 9-7-06 — KANSAS — PROFESSIONAL ENGINEER

No.	Revision	By	Date

OAK CREEK 2ND – PRIVATE PAVING IMPROVEMENTS

ELECTRICAL SITE PLAN

JAMES L. ARMOUR, P.E.– CITY ENGINEER
CITY OF WICHITA PROJECT NO. XXX–XXXXX

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	DCG	Job No.	20-05731
Drawn by	MDB	Date	April 2006

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PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	38	59

NO	NOTE BOOK
	TEMPLATE
	AREAS
	AREAS CHECKED

13+00.00

1375.37

C = 14 F = 2

13+00.00

1375.20

12+72.72 C = 8 F = 7 12+72.72

1375.10

C = 7 F = 16

12+50.00 12+50.00

1375.31

C = 8 F = 4

12+00.00 12+00.00

1375.50

11+83.67 C = 11 F = 0 11+83.67

Grand Total
C= 5,337 C.Y.
F= 635 C.Y.

RESERVE B @ 2
STA 11+83.67 TO 13+00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

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Plot Scale 1:1 09-07-2006 1:21:41 PM by BJS
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PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	39	59

NO.	NOTE BOOK
	TEMPLATE
	AREAS
	AREAS CHECKED

1376.25

C = 18 F = 0

14+37.15

1376.01

C = 15 F = 0

14+00.00

1376.82

C = 12 F = 2

13+70.00

1376.69

C = 7 F = 4

13+50.00

RESERVE B @ 2

STA 13+50 TO 14+37.15

SCALE: 1" = 5' VERT.

1" = 5' HORIZ.

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PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	40	59

NOTE BOOK	NO.
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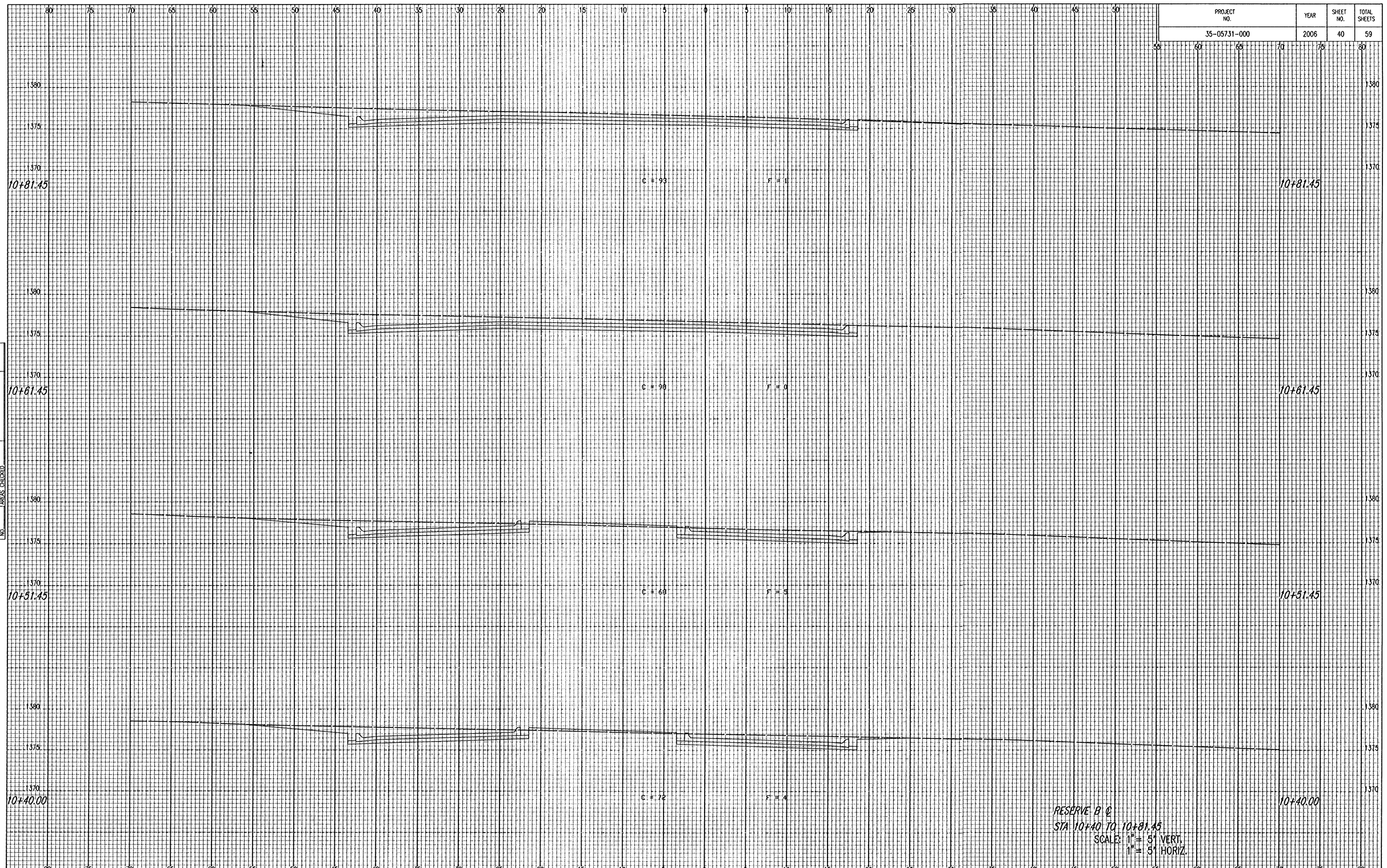

RESERVE B Ⓒ
STA 10+40 TO 10+81.45
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

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PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	41	59

NO	NOTE BOOK	TEMPLATE
		AREAS
		AREAS CHECKED

1380
1375
1370

11+83.67

1376.50

C = 8 F = 10

11+83.67

1380
1375
1370

11+48.17

1376.74

C = 83 F = 9

11+48.17

1380
1375
1370

11+22.03

1375.92

C = 50 F = 8

11+22.03

1380
1375
1370

10+87.73

1376.15

C = 60 F = 9

10+87.73

RESERVE B ℄
STA 10+87.73 TO 11+83.67
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

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PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
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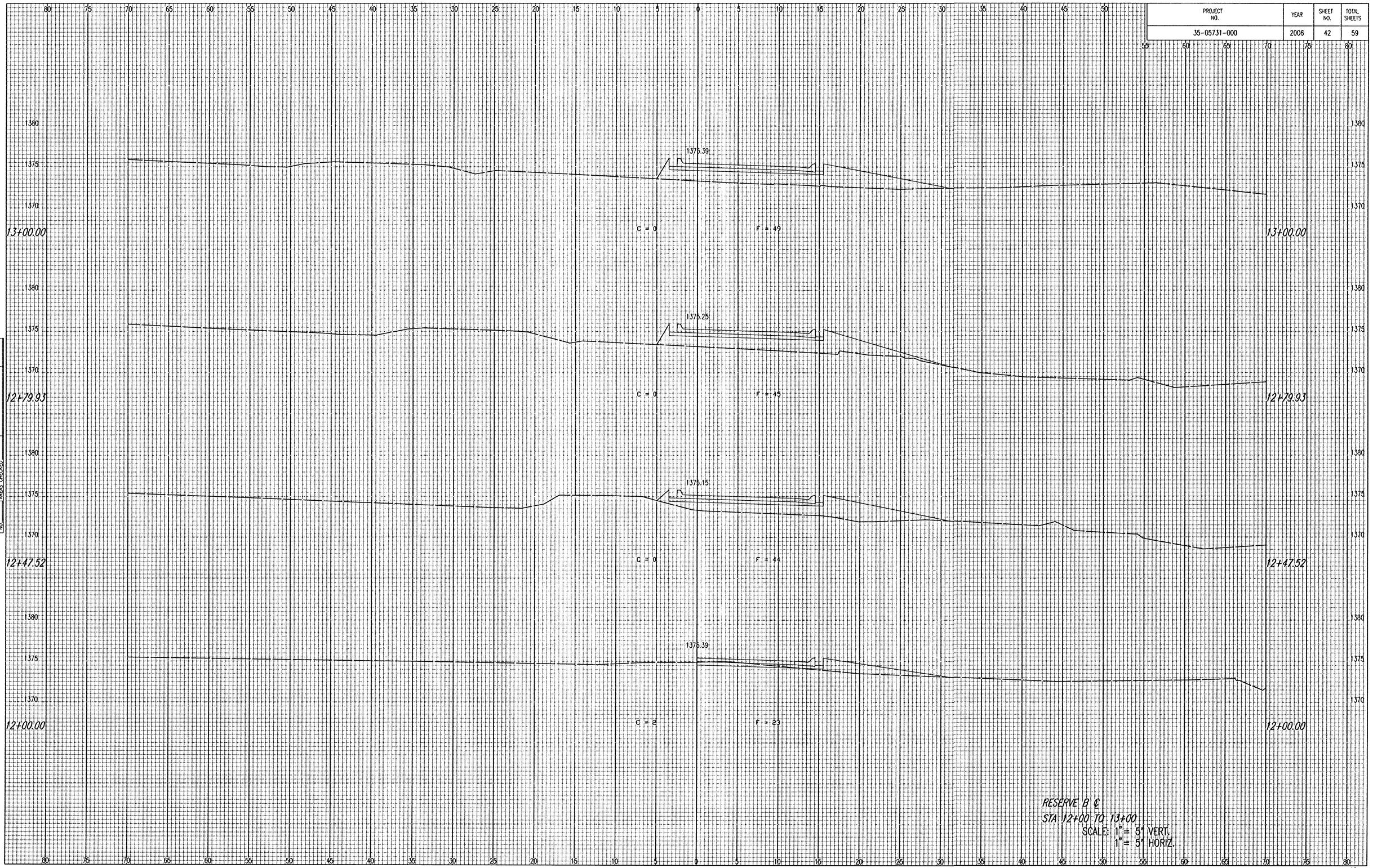

RESERVE B ℄
STA 12+00 TO 13+00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

NO.	NOTE BOOK	TEMPLATE AREAS CHECKED

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PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	43	59

NO.	NOTE BOOK	TEMPLATE
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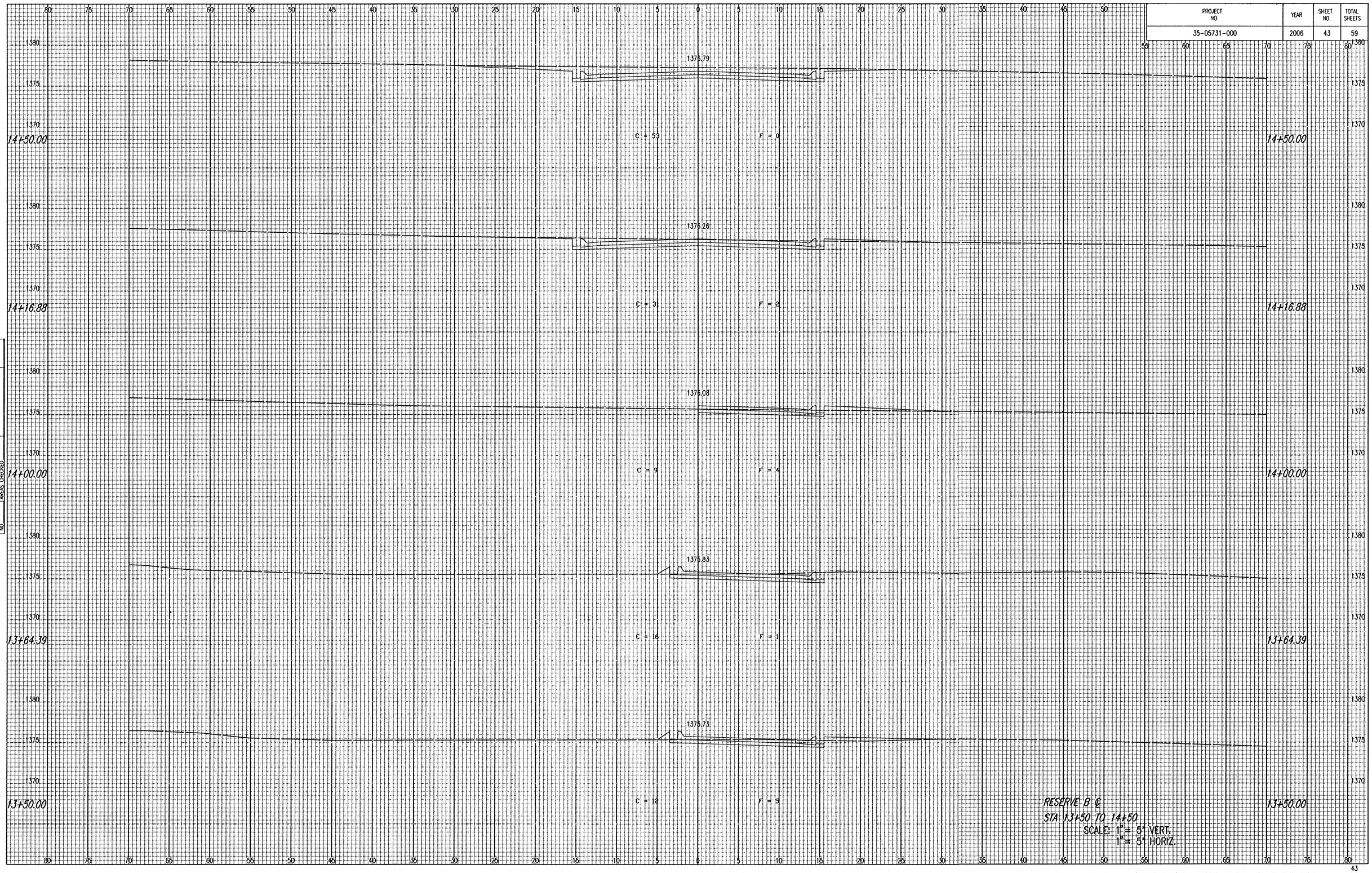
		ARDAS CHECKED



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Plotted: 06-27-2006 10:29 PM by BJS
C:\2005\05731\000\X-SEC\reserve b q.dgn\sh04

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	44	59

NO.	NOTE BOOK	TEMPLATE
		AREAS CHECKED

1390
1385
1380
1375

17+00.00

1384.59

C = 86 F = 0

16+50.00

1382.81

C = 93 F = 0

16+00.00

1381.21

C = 63 F = 0

15+50.00

1379.61

C = 77 F = 0

15+00.00

1378.02

C = 59 F = 0

RESERVE B @
STA 15+00 TO 17+00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 06-27-2006 8:40:52 AM by BJS
Plotted: 06-27-2006 8:53:36 AM by BJS
G:\2005\05731\000\x-SEC\reserve b e\b005

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	45	59

NO	NOTE BOOK	TEMPLATE
	AREAS	AREAS CHECKED

1395
1390
1385

1390.77

C = 5 F = 0

18+50.00

1388.71

C = 46 F = 3

18+00.00

1387.72

C = 55 F = 1

17+75.89

1386.65

C = 62 F = 0

17+50.00

RESERVE B ℄
STA 17+50 TO 18+50
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved 06-27-2006 8:40:58 AM by BJS
Plot Scale: 1:1 06-27-2006 11:32:23 PM by BJS
C:\2005\05731\000\X-SEC\reserve b c1\sh06

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	46	59

NO.	NOTE BOOK	TEMPLATE	AREAS CHECKED

1397.92

C = 65 F = 0

20+41.17

1396.73

C = 63 F = 0

19+98.50

1394.89

C = 66 F = 0

19+50.00

1392.83

C = 6 F = 0

19+00.00

RESERVE B ℄
STA 19+00 TO 21+41.17
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved 06-27-2006 8:40:50 AM by BJS
Plot Scale 1:1 09-07-2006 1:33:49 PM by BJS
Q:\2005\05731\000\X-SEC\reserve b c\sb07

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	47	59

NO.	NOTE BOOK	TEMPLATE AREAS AREAS CHECKED

22+04.98

1398.75

C = 52 F = 0

22+04.98

21+78.53

1399.02

C = 77 F = 0

21+78.53

1399.15

21+52.08

C = 89 F = 0

21+52.08

1398.84

20+94.07

C = 89 F = 0

20+94.07

1398.46

20+67.62

C = 101 F = 0

20+67.62

RESERVE B ℄
STA 20+67.62 TO 22+04.98
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 06-27-2006 8:40:48 AM by BJS
Plotted: 06-27-2006 11:39:27 AM by BJS
Q:\2005\05731\001\Y-SECT\reserve b of\0408

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	48	59

NO	NOTE BOOK	TEMPLATE
	AREAS CHECKED	AREAS

1395.87

23+50.00 C = 22 F = 5 23+50.00

1396.25

C = 18 F = 6

23+31.90 23+31.90

1396.91

C = 16 F = 9

23+00.00 23+00.00

1397.95

C = 28 F = 1

22+50.00 22+50.00

RESERVE B' C
STA 22+50 TO 23+50
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved 06-27-2006 8:40:48 AM by BJS
Plot Scale 1:1 06-27-2006 1:34:36 PM by BJS
Q:\2005\05731\000\X-SEC\reserve b c\b009

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	49	59

NO	NOTE BOOK	TEMPLATE	AREAS CHECKED

1392.05

25+50.00 C = 2 F = 28 25+50.00

1392.76

25+00.00 C = 3 F = 16 25+00.00

1393.79

24+50.00 C = 15 F = 9 24+50.00

1394.23

24+29.05 C = 19 F = 7 24+29.05

1394.83

24+00.00 C = 23 F = 4 24+00.00

RESERVE B ℄
STA 24+00 TO 25+50
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 06-27-2006 8:40:46 AM by BJS
Print: 06-27-2006 8:41:36 AM by BJS
O:\2005\05731\000\(x-SEC) (reserve b c).dgn

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	50	59

1395
1390
1385

27+00.00

1390.61

C = 40 F = 0

27+00.00

1395
1390
1385

26+50.00

1391.09

C = 39 F = 0

26+50.00

1395
1390
1385

26+00.00

1391.57

C = 128 F = 2

26+00.00

1395
1390
1385

25+87.24

1391.69

C = 19 F = 6

25+87.24

RESERVE B ℄
STA 25+87.24 TO 27+00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

50

NOTE BOOK
NO.
TEMPLATE
AREAS
AREAS CHECKED

Saved: 06-27-2006 8:40:44 AM by BJS
Plotted: 06-27-2006 8:41:16 AM by BJS
O:\2005\05731\000\Y-SEC\reserve b at 50.t11

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	51	59

1386.65

C = 62 F = 0

29+00.00

1388.32

C = 29 F = 1

28+50.00

1389.48

C = 26 F = 3

28+00.00

1390.13

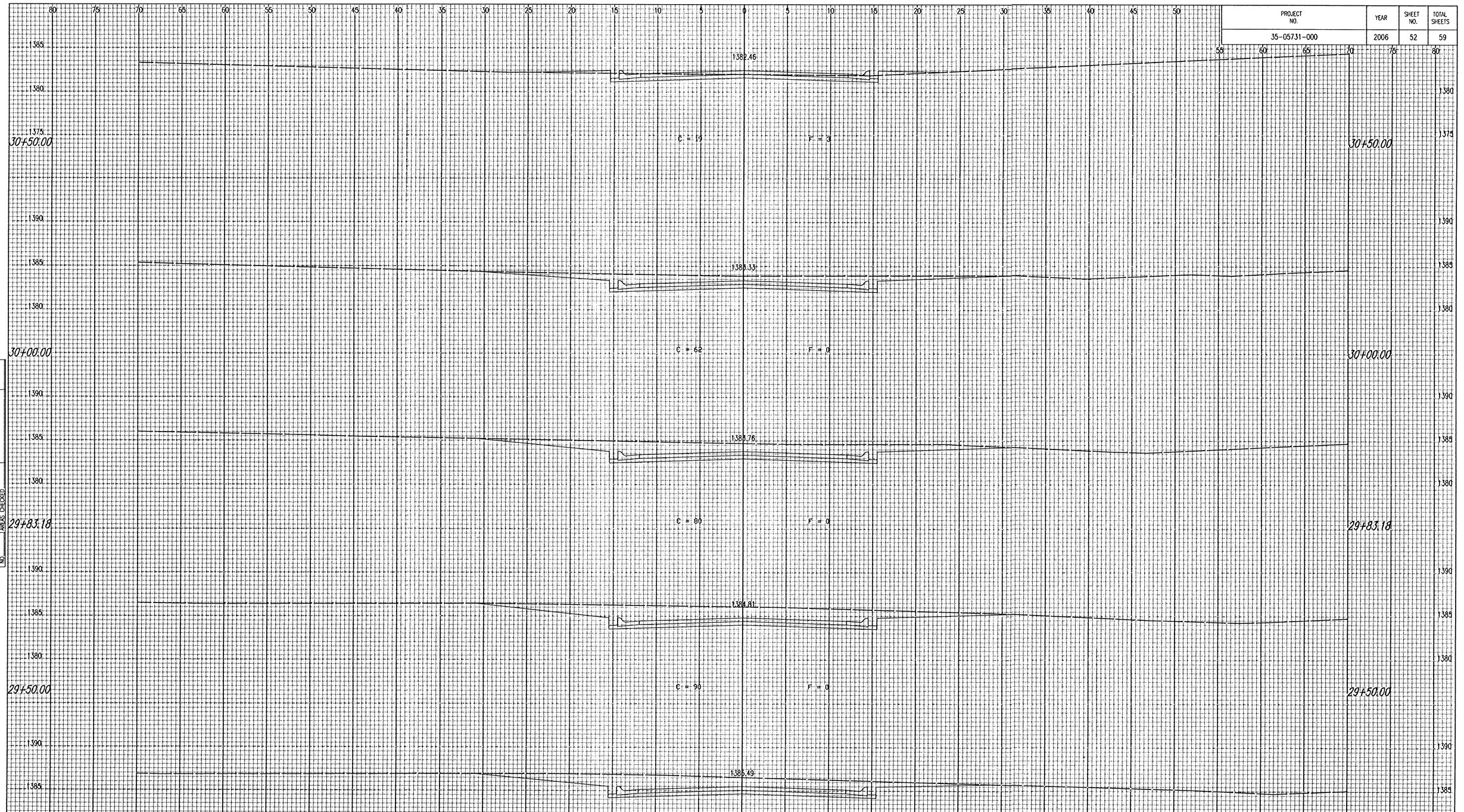
C = 32 F = 1

27+50.00

RESERVE B ℄
STA 27+50 TO 29+00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

NO.	NOTE BOOK	TEMPLATE AREAS CROSS CHECKED

Saved: 06-27-2006 8:40:46 AM by BJS
Plotted: 06-27-2006 8:40:56 AM by BJS
Q:\2000\05731\000\X-SECT\reserve b cl\da172

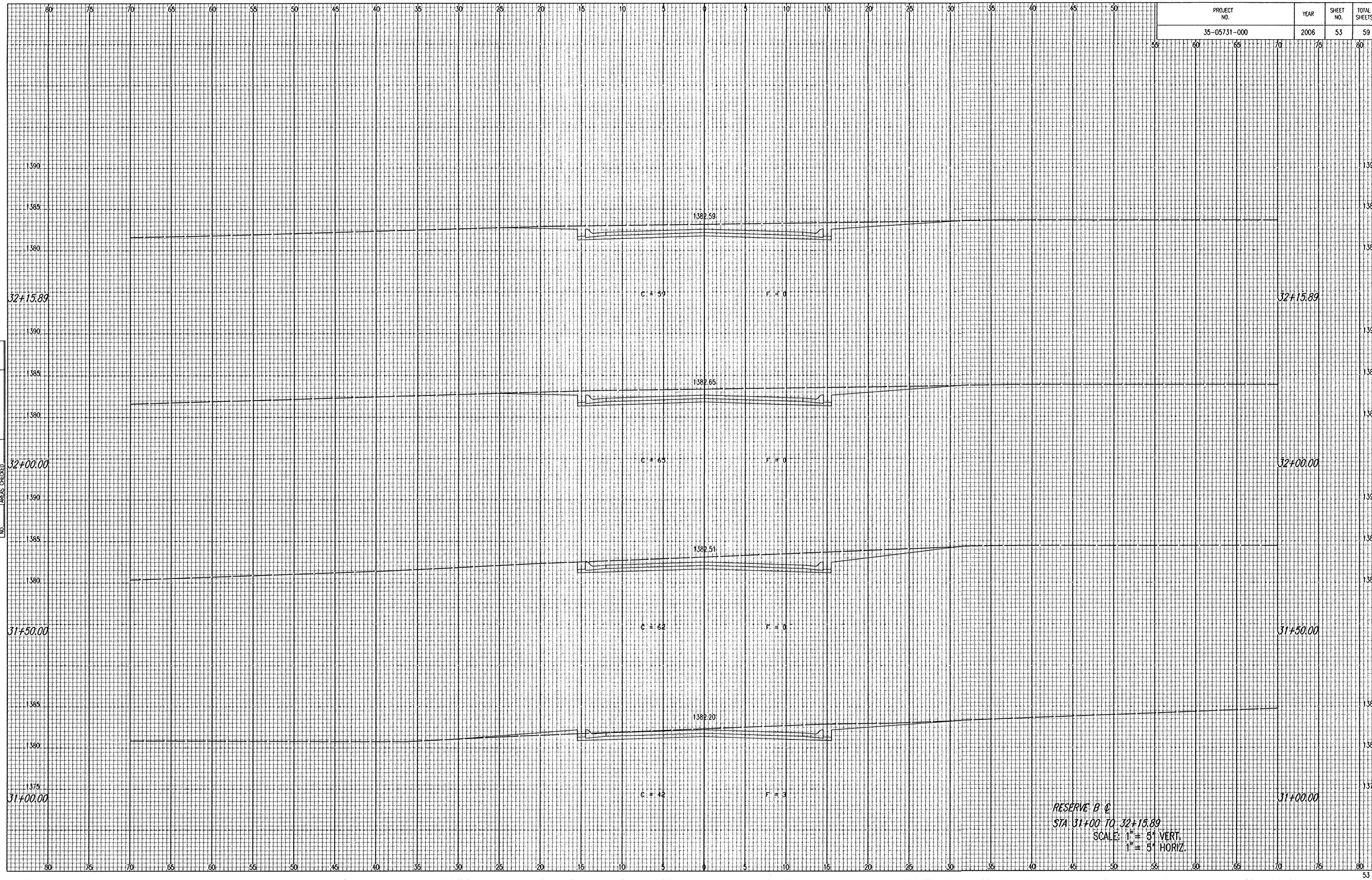


PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	52	59

NO.	NOTE BOOK	TEMPLATE AREAS CHECKED

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	53	59

NO.	NOTE BOOK	TEMPLATE
		ARDAS
		ARDAS CHECKED



RESERVE B ℄
STA 31+00 TO 32+15.89
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 06-27-2006 8:40:40 AM by BJS
Plotted: 11:08:07 2006 by BJS
Q:\2005\05731\000\X-SEC\reserve b c\3d14*

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	54	59

NO	NOTE BOOK	TEMPLATE
		ARE/AS CHECKED

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

1385
1380
1375

34+09.71

1379.99

C = 102 F = 0

1385
1380
1375

1380.24

33+50.00

C = 66 F = 0

1385
1380
1375

1381.36

33+00.00

C = 56 F = 0

1385
1380
1375

1382.27

32+50.00

C = 53 F = 0

RESERVE B ℄
STA 32+50 TO 34+09.71
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

Saved 09-07-2006 1:38:44 PM by BJS
Plot Scale 1:1 09-07-2006 2:08:44 PM by BJS
Q:\2005\05731\1000\X-SEC\reserve b c\sb15

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	55	59

NO	NOTE BOOK	TEMPLATE AREAS	AREAS CHECKED

1380
1375
1370
1385
1380
1375

1376.01
1377.40
1378.00

35+38.82
C = 71
F = 0
35+38.82

34+90.01
C = 101
F = 0
34+90.01

34+50.00
C = 126
F = 0
34+50.00

RESERVE B ℄
STA 34+50 TO 35+38.82
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

Saved: 09-07-2006 1:38:42 PM by BJS
Print: 09-07-2006 2:09:08 PM by BJS
O:\2005\05731\000\X-SEC\reserve b c.dgn

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	56	59

NO.	NOTE BOOK	TEMPLATE AREAS CHECKED

1405
1400
1395

41+50.00

1399.37

C = 4 F = 0

41+19.95

1399.22

C = 43 F = 0

41+00.00

1399.11

C = 45 F = 1

40+50.00

1398.85

C = 64 F = 0

40+30.06

1398.75

C = 66 F = 0

RESERVE B LOOP
STA 40+30.06 TO 41+80
SCALE: 1" = 51 VERT.
1" = 51 HORIZ.

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

Saved: 06-27-2006 8:40:36 AM by BJS
Plotted: 06-27-2006 8:41:07 AM by BJS
Q:\2005\05731\000\X-SECT\reserve b loop B1\s001

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	57	59

NO	NOTE BOOK	TEMPLATE
		AREAS CHECKED

1400.32

43+49.67 — C = 14 — F = 8 — 43+49.67

1400.15

43+00.00 — C = 0 — F = 34 — 43+00.00

1399.89

42+50.00 — C = 0 — F = 39 — 42+50.00

1399.75

42+22.84 — C = 1 — F = 27 — 42+22.84

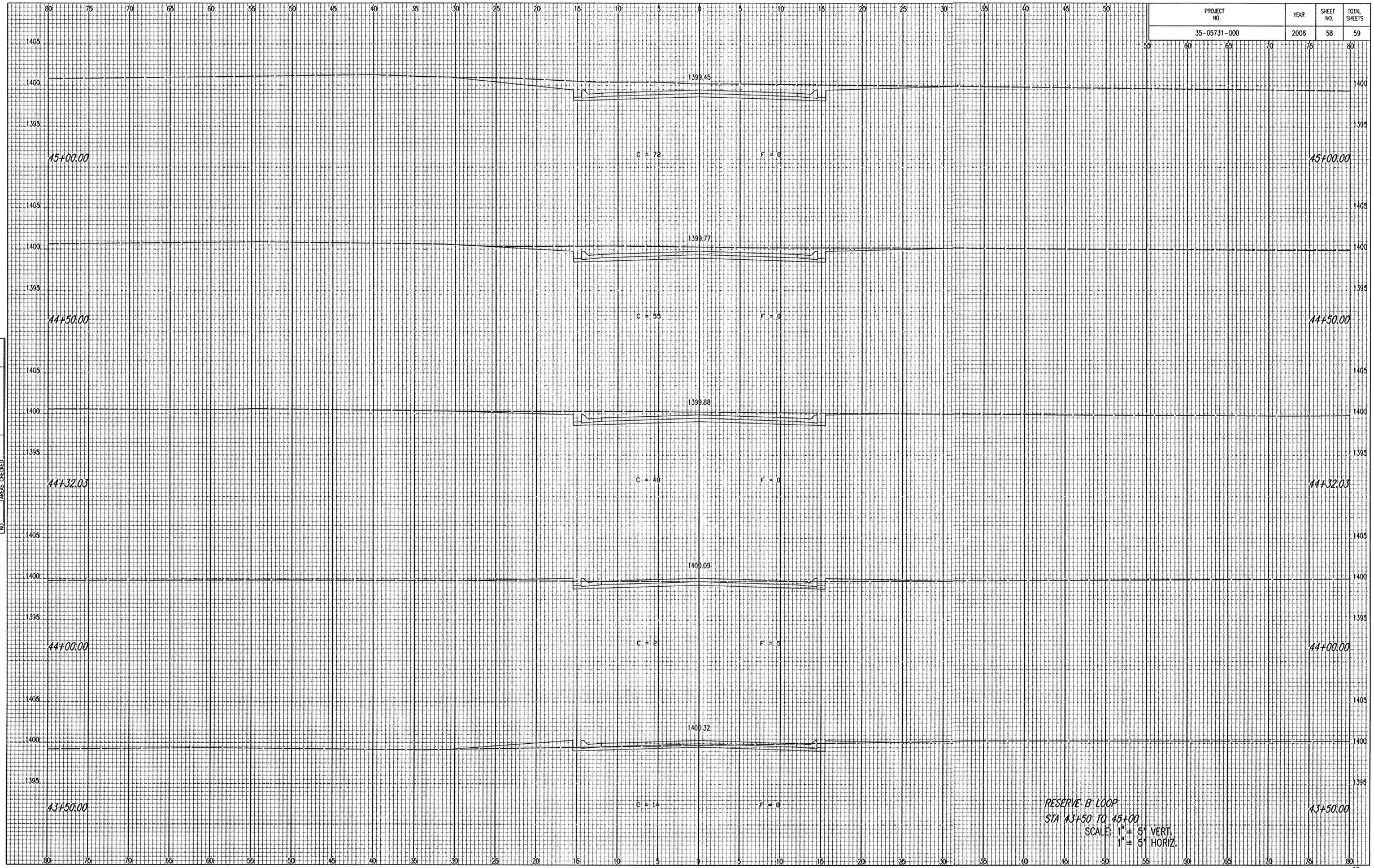
1399.63

42+00.00 — C = 8 — F = 14 — 42+00.00

RESERVE B LOOP
STA 42+00 TO 43+49.67
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 06-27-2006 8:40:34 AM by BJS
Plotted: 06-27-2006 8:40:36 AM by BJS
C:\2005\05731\000\x-SEC\reserve b loop b1.dgn

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	58	59



NO.	NOTE BOOK	TEMPLATE
		AREAS
		AREAS CHECKED

Saved 06-27-2006 8:40:32 AM by BJS
Plot Scale=1:1 05-27-2006 11:44:50 PM by BJS
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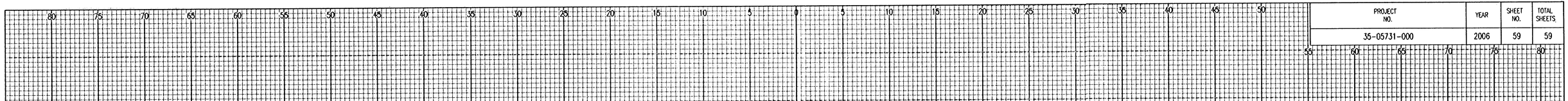


PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	59	59

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	60	XX

NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

1392.42

C = 17

CF = 4
F = 107

11+25.00

1392.36

C = 28

CF = 3
F = 94

11+12.43

1392.35

C = 34

CF = 2
F = 83

11+00.00

1392.36

C = 39

CF =
F = 78

10+92.04

CHATEAU PARKWAY
STA 10+92.04 TO 11+25.00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 09-06-2006 4:08:38 PM by BJS
Plot Scale: 1:1 09-07-2006 1:46:57 PM by BJS
Q:\2005\05731\08RM-XSEC\chateau parkway-berm\s001

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	61	XX

NO	NOTE BOOK
	TEMPLATE AREAS
	AREAS CHECKED

12+33.58

1392.60

C = 3 Cf = 9 F = 163

12+33.58

12+25.00

1392.70

C = 3 Cf = 8 F = 163

12+25.00

12+00.00

1392.86

C = 7 Cf = 7 F = 157

12+00.00

11+75.00

1392.83

C = 5 Cf = 6 F = 175

11+75.00

11+50.00

1392.63

C = 9 Cf = 5 F = 149

11+50.00

CHATEAU PARKWAY
STA 11+50 TO 12+33.58
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 09-06-2006 4:07:32 PM by BJS
Plot Scale: 1:1 09-07-2006 14:7:17 PM by BJS
Q:\2005\05731\1BIDM-XSEC\chateau_parkway-berm\s002

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	62	XX

NOTE BOOK	TEMPLATE
NO.	AREAS
	AREAS CHECKED

1400
1395
1390
1392.60

12+33.58

C = 3

CF = 10
F = 163

CHATEAU PARKWAY
STA 12+33.58 TO 12+33.58XX+XX TO XX+XX
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

12+33.58

Saved: 09-06-2006 4:07:08 PM by BJS
Plot Scale: 1:1 09-07-2006 1:47:39 PM by BJS
Q:\2005\05731\BERM-XSEC\chateau parkway-berm\s003

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	63	XX

NO	NOTE BOOK	TEMPLATE
	AREAS	AREAS_CHECKED

33+00.00
C = 193
CF = 5
F = 15
1395.54

32+75.00
C = 208
CF = 4
F = 11
1394.92

32+50.00
C = 224
CF = 3
F = 16
1394.10

32+25.00
C = 243
CF = 2
F = 20
1393.68

32+17.49
C = 249
CF =
F = 3
1393.49

19TH STREET NORTH
STA 32+17.49 TO 33+00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 09-06-2006 4:11:12 PM by BJS
Plot Scale: 1:1 09-07-2006 1:48:40 PM by BJS
Q:\2005\05731\BERM-3SED\19th se bound (32-36) berm\s001

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	64	XX

NO.	NOTE BOOK	TEMPLATE
		AREAS CHECKED

1405
1400
1395
1390

34+00.00
C = 151
CF = 9
F = 47
1397.66
34+00.00

33+75.00
C = 152
CF = 8
F = 42
1397.16
33+75.00

33+50.00
C = 150
CF = 7
F = 3
1396.66
33+50.00

33+25.33
C = 180
CF = 6
F = 30
1396.17
33+25.33

19TH STREET NORTH
STA 33+25.33 TO 34+00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved 09-05-2006 4:17:36 PM by BJS
Plotted 09-05-2006 4:19:59 PM by BJS
C:\2005\05731\08DW-SDOT\19th st board (35-05)-berm\A002

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	65	XX

NO.	NOTE BOOK	TEMPLATE
		AREAS
		AREAS CHECKED

35+00.00

C = .159 CF = .14 F = .49

1399.29

35+00.00

34+91.75

C = .159 CF = .13 F = .48

1399.23

34+91.75

34+78.50

C = .146 CF = .12 F = .49

1399.09

34+78.50

34+50.00

C = .152 CF = .11 F = .42

1398.66

34+50.00

34+25.00

C = .150 CF = .10 F = .47

1398.16

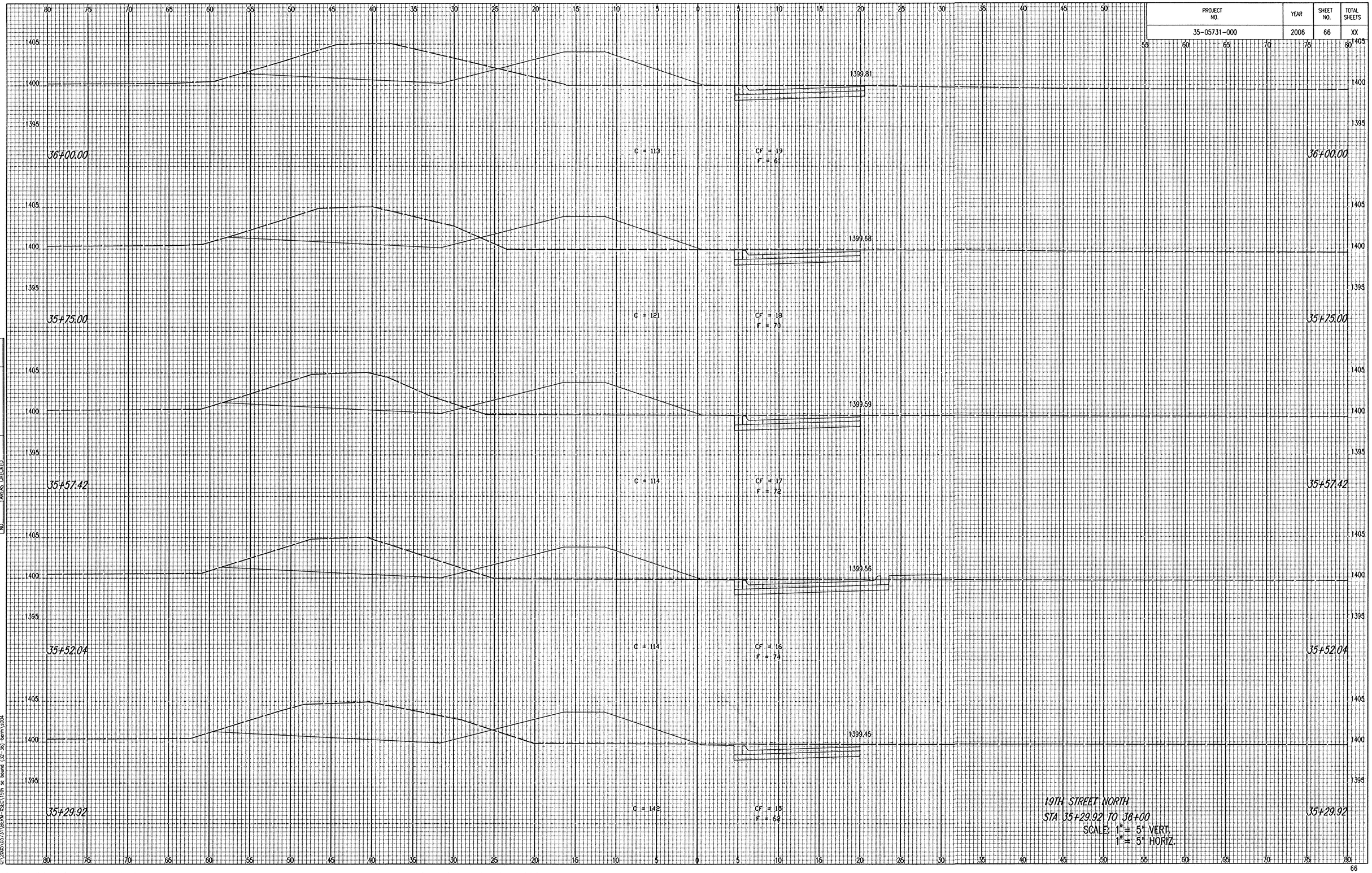
34+25.00

19TH STREET NORTH
STA 34+25.00 TO 35+00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 09-06-2006 4:21:24 PM by BJS
Plot Scale = 1.0 ' / in. Plot date: 09-07-2006 1:49:25 PM by BJS
C:\2005\05731\Work\ASCII\19th st bound\02-361-berm\d013

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	66	XX

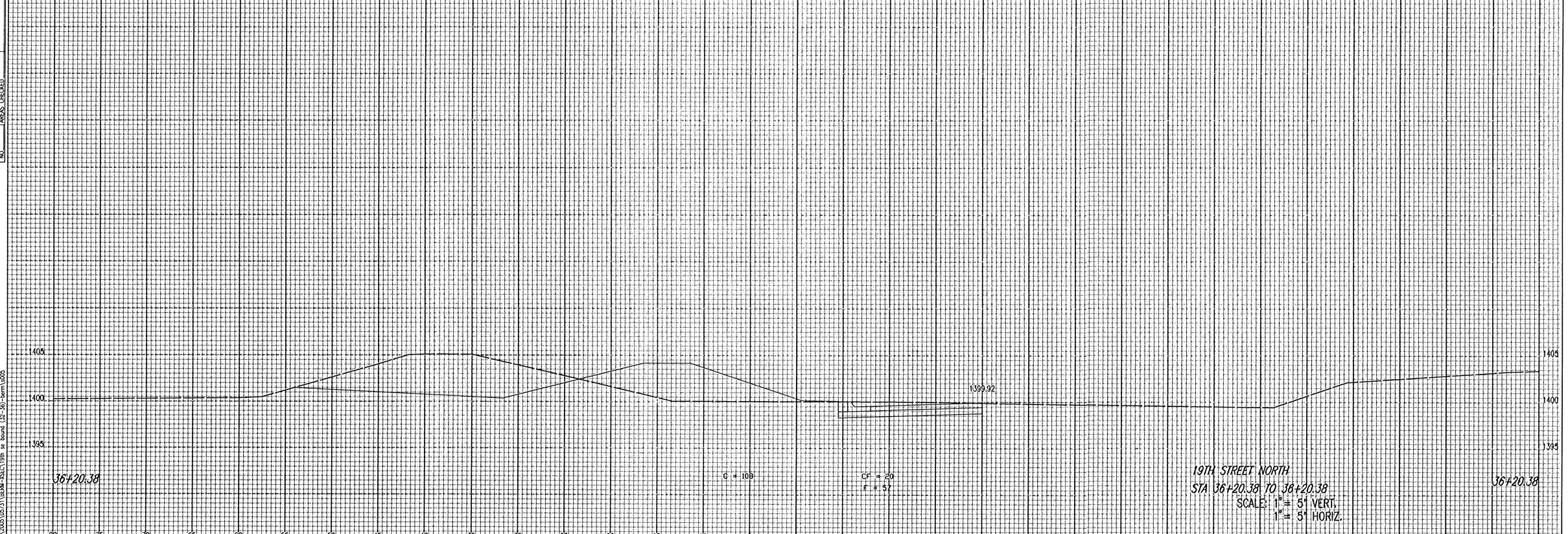
NO	NOTE BOOK	TEMPLATE
		AREAS
		AREAS CHECKED



Saved 09-06-2006 4:24:40 PM by BJS
Plot Scale 1:1 09-07-2006 1:49:55 PM by BJS
G:\2005\05731\BERM-XSEC\19th se bound (32-36)-berm1.sdn4

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	67	XX

NO.	NOTE BOOK
	TEMPLATE
	AREAS
	AREAS CHECKED



Saved 09-06-2006 4:29:20 PM by BJS
Plot Scale 1:1 09-07-2006 1:50:24 PM by BJS
O:\2005\05731\BASM-ASEC\19th to bound (02-36)-berm\s005

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	68	XX

NO.	NOTE BOOK	TEMPLATE
		AREAS CHECKED

37+00.00
C = 165
CF = 5
F = 57
1399.51
37+00.00

36+75.00
C = 152
CF = 4
F = 57
1399.64
36+75.00

36+50.00
C = 147
CF = 3
F = 55
1399.77
36+50.00

36+25.00
C = 139
CF = 2
F = 66
1399.90
36+25.00

36+20.38
C = 137
CF =
F = 69
1399.92
36+20.38

19TH STREET NORTH
STA 36+20.38 TO 37+00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 09-06-2006 4:37:40 PM by BJS
Plotted: 09-07-2006 12:46:07 PM by BJS
O:\2005\05731\Survey\19th (36-37) Sem\s001

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	69	XX

NO	NOTE BOOK	TEMPLATE
		AREAS CHECKED

38+25.00

C = 162
CF = 10
F = 59

1398.86

38+25.00

38+00.00

C = 148
CF = 9
F = 51

1398.99

38+00.00

37+75.00

C = 127
CF = 8
F = 46

1399.12

37+75.00

37+50.00

C = 168
CF = 7
F = 49

1399.25

37+50.00

37+25.00

C = 170
CF = 6
F = 54

1399.38

37+25.00

19TH STREET NORTH
STA. 37+25.00 TO 38+25.00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved 09-06-2006 4:46:04 PM by BdS
Plot Scale 1:1 09-07-2006 1:56:26 PM by BdS
O:\2005\05731\XREFs-XSEC\19th (35-5)7-berm\s002

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	70	XX

NO	NOTE BOOK
	TEMPLATE
	AREAS
	AREAS CHECKED

39+25.00

C = 168 CF = 15 F = 64

1397.68

39+00.00

C = 164 CF = 14 F = 66

1398.03

38+75.00

C = 161 CF = 13 F = 65

1398.38

38+65.98

C = 159 CF = 12 F = 65

1398.50

38+50.00

C = 157 CF = 11 F = 66

1398.73

19TH STREET NORTH
STA 38+50 TO 39+25.00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

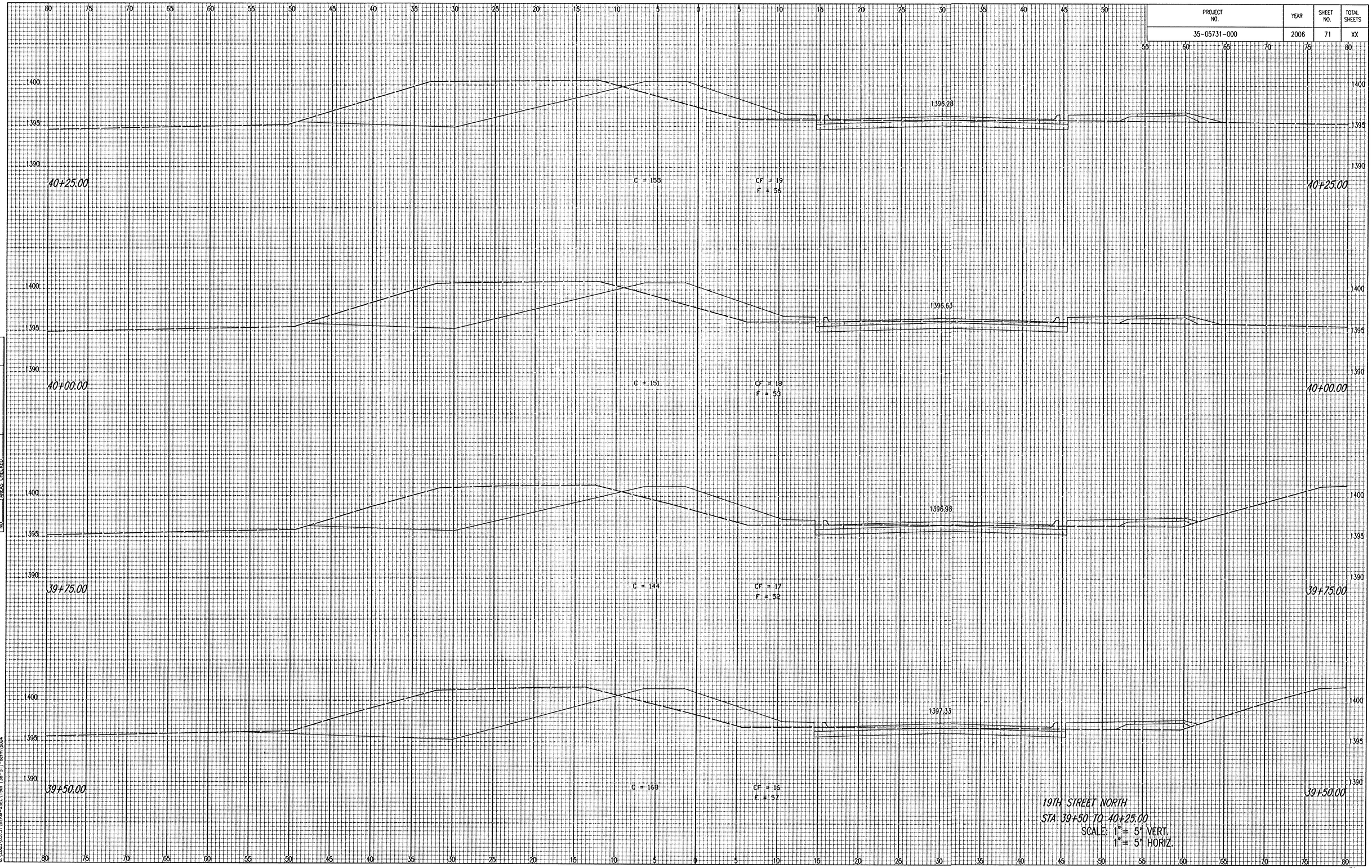
1405 1400 1395

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

Saved: 09-06-2006 4:30:20 PM by BJS
Plotted: 09-06-2006 4:30:44 PM by BJS
Q:\2005\05731\SERM-XSEC\19th (38+50)-Berm\s003

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	71	XX

NO.	NOTE BOOK	TEMPLATE
		AREAS CHECKED

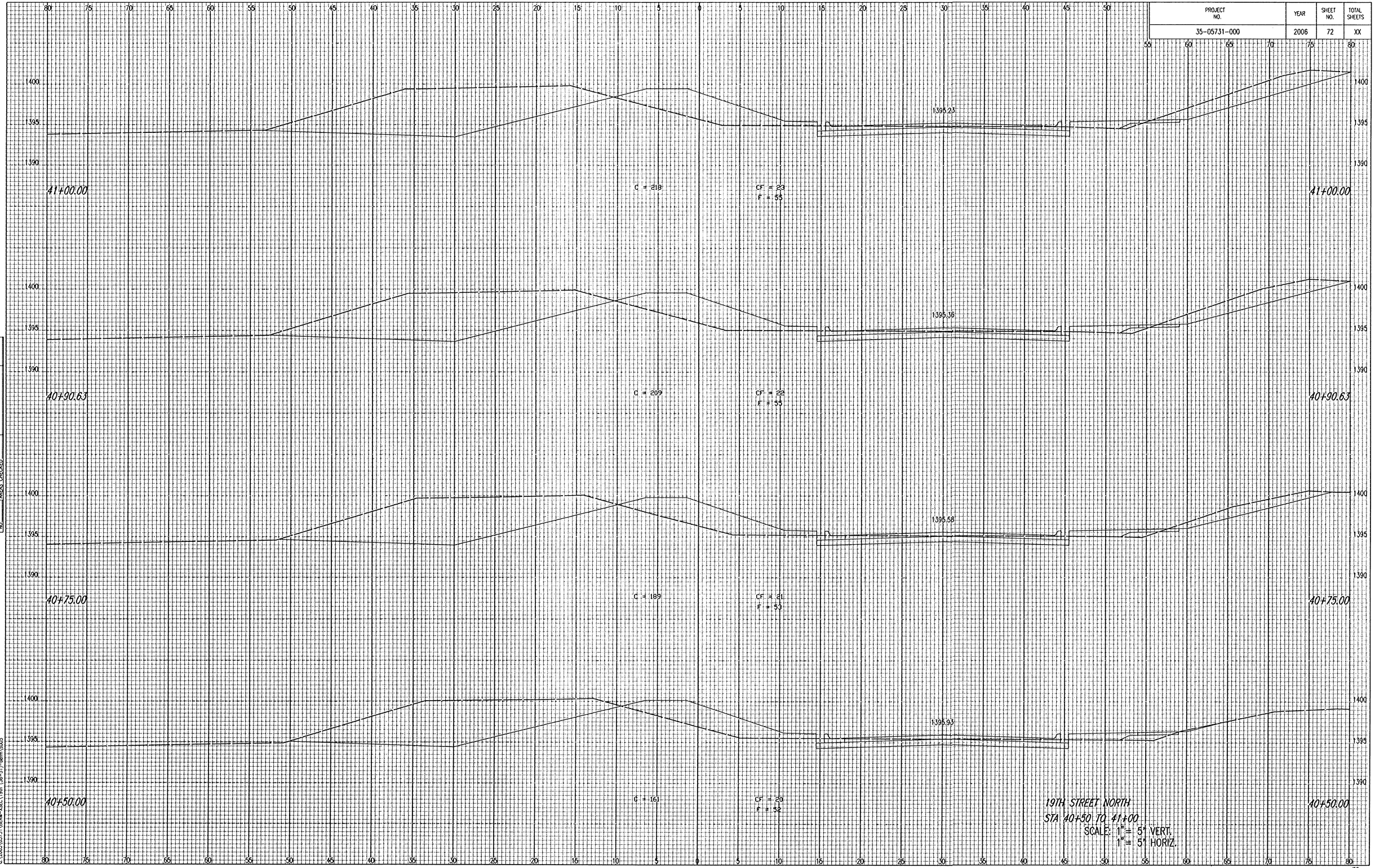


19TH STREET NORTH
STA 39+50 TO 40+25.00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved 09-06-2006 4:36:56 PM by BJS
Plotted 09-06-2006 4:36:58 PM by BJS
Q:\2005\05731\dgn\04-xsec\19th (34-51).dgn\a004

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	72	XX

NO	NOTE BOOK
	TEMPLATE
	AREAS
	AREAS CHECKED



19TH STREET NORTH
STA 40+50 TO 41+00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved 09-07-2006 6:56:22 AM by BJS
Plot Scale 1:1 09-07-2006 15:29:29 PM by BJS
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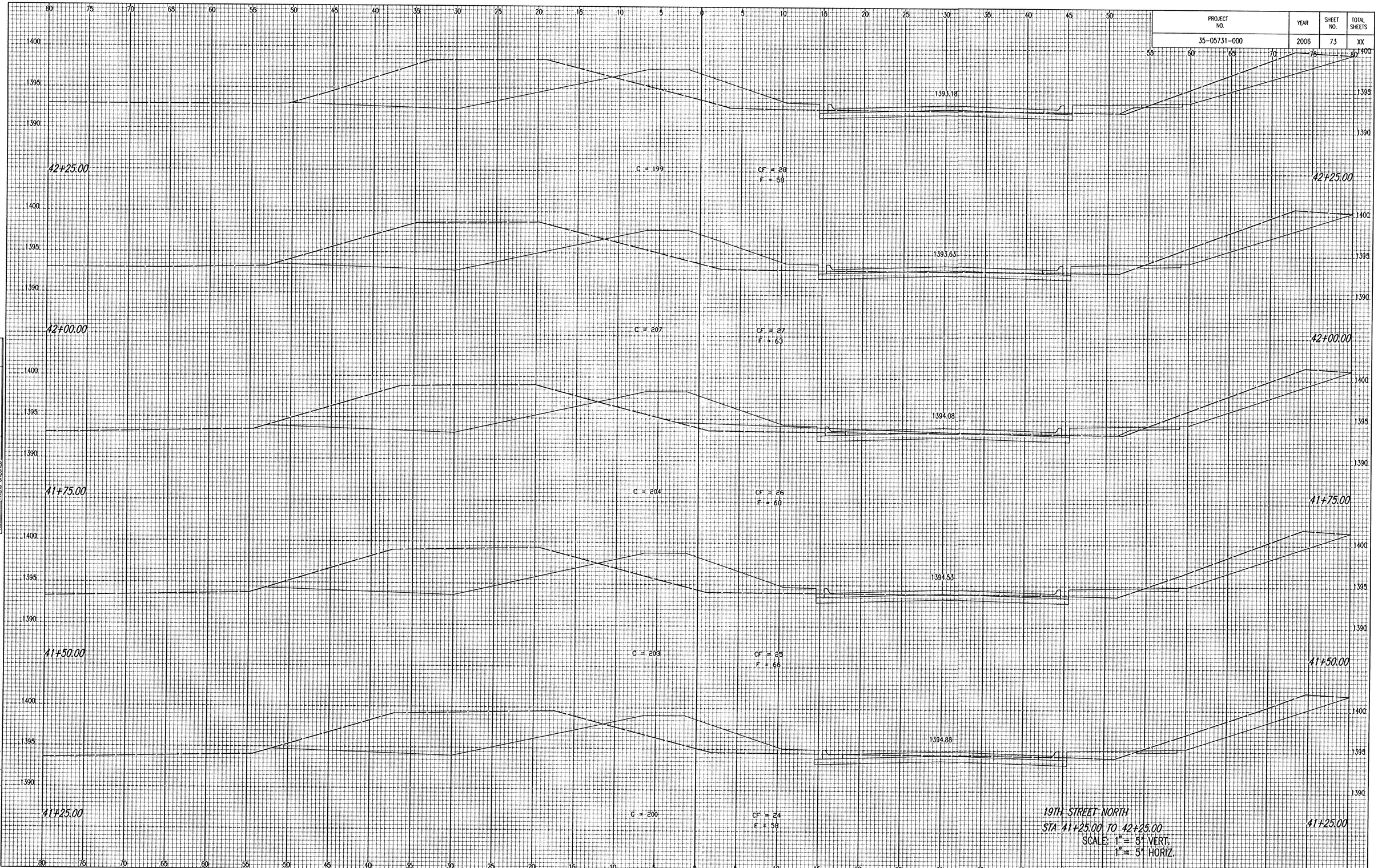
PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	73	XX

NO	NOTE BOOK	TEMPLATE
	AREAS	AREAS_CHECKED

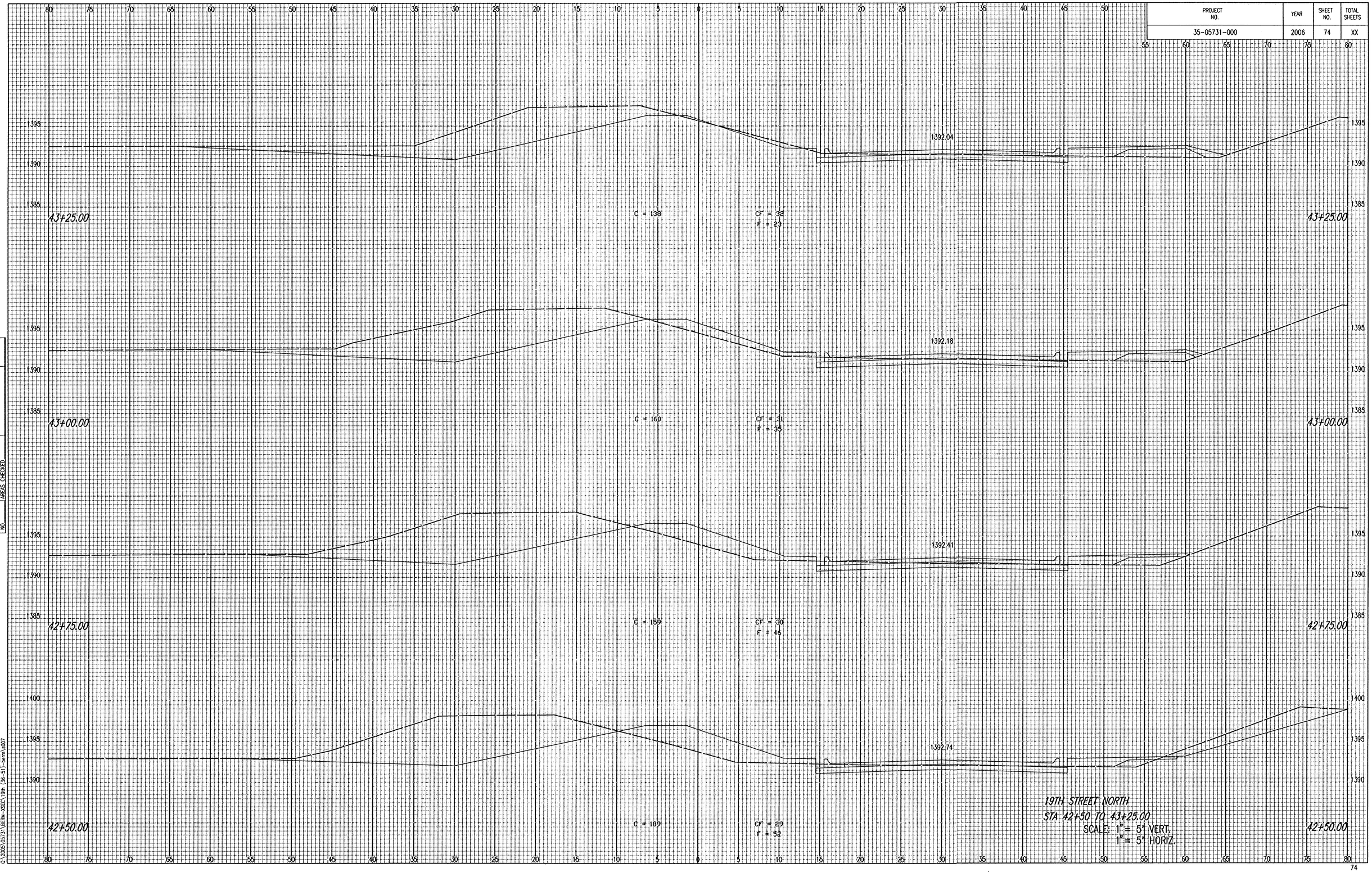


19TH STREET NORTH
STA 41+25.00 TO 42+25.00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved 09-07-2006 7:00:26 AM by BJS
Plot Scale 1:1 09-07-2006 1:57:47 PM by BJS
O:\2005\35731\DGN\35-5731(19th 1&-5)-Sem\s006

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	74	XX

NO	NOTE BOOK
	TEMPLATE
	AREAS CHECKED



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PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	75	XX

NOTE BOOK	TEMPLATE
NO	AREAS
	AREAS CHECKED

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

1395
1390
1385

44+25.00

C = 180
CF = 36
F = 36

1391.25

44+25.00

1395
1390
1385

44+00.00

C = 165
CF = 35
F = 26

1391.50

44+00.00

1395
1390
1385

43+75.00

C = 171
CF = 34
F = 17

1391.75

43+75.00

1395
1390
1385

43+50.00

C = 139
CF = 33
F = 20

1391.91

43+50.00

19TH STREET NORTH
STA 43+50 TO 44+25.00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

75

Saved 09-07-2006 7:21:04 AM by BJS
Plot Scale 1:1 09-07-2006 1:58:23 PM
Q:\2005\05731\DETAIL-XSECT\19th (36-51)-berm\d008

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	76	XX

NOTE BOOK	TEMPLATE
NO	ARGAS
	ARGAS CHECKED

1395
1390
1385

45+25.00

C = 195

CF = 40
F = 51

1390.25

45+25.00

1395
1390
1385

45+00.00

C = 223

CF = 39
F = 45

1390.50

45+00.00

1395
1390
1385

44+75.00

C = 224

CF = 38
F = 42

1390.75

44+75.00

1395
1390
1385

44+50.00

C = 212

CF = 37
F = 4

1391.00

44+50.00

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

19TH STREET NORTH
STA 44+50 TO 45+25.00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 09-07-2006 7:24:34 AM by BJS
Plot Scale: 1:1 09-07-2006 1:58:50 PM by BJS
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PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	77	XX

NO	NOTE BOOK
	TDMPLATE AREAS
	AREAS CHECKED

46+50.00

C = 200

CF = 45
F = 59

1389.45

46+25.00

C = 196

CF = 44
F = 57

1389.75

46+00.00

C = 188

CF = 43
F = 49

1389.90

45+75.00

C = 190

CF = 42
F = 57

1390.05

45+50.00

C = 195

CF = 41
F = 56

19TH STREET NORTH
STA 45+50 TO 46+50
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 09-07-2006 7:20:16 AM by BJS
Plotted: 11-20-2006 11:59:34 by BJS
Q:\2005\05731\VIEW-XSEC\19th (36-51)-perm\s010

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	78	XX

NO	NOTE BOOK	TEMPLATE
		AREAS CHECKED

47+75.00
C = 177
CF = 50
F = 64
1388.68
47+50.00
C = 179
CF = 49
F = 59
1389.00
47+25.00
C = 200
CF = 48
F = 49
1389.15
47+00.00
C = 201
CF = 47
F = 53
1389.30
46+75.00
C = 202
CF = 46
F = 57

19TH STREET NORTH
STA 46+75.00 TO 47+75.00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved 09-07-2006 7:32:04 AM by BJS
Plot Scale 1:1 09-07-2006 1:56:37 PM by BJS
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PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	79	XX

NO	NOTE BOOK	TEMPLATE
		AREAS
		AREAS CHECKED

48+75.00

C = 203

CF = 54
F = 52

1387.08

48+50.00

C = 200

CF = 53
F = 4

1387.57

48+25.00

C = 189

CF = 52
F = 50

1388.04

48+00.00

C = 183

CF = 51
F = 6

1388.42

19TH STREET NORTH
STA 48+00 TO 48+75.00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 09-07-2006 7:45:04 AM by BJS
Plot: Scale 1:1 09-07-2006 1:56:58 PM by BJS
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PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	80	XX

NOTE BOOK	TEMPLATE
NO	AREAS
	AREAS CHECKED

49+50.00

C = 235

CF = 58
F = 16

1385.35

49+35.75

C = 221

CF = 97
F = 45

1385.76

49+25.00

C = 215

CF = 56
F = 5

1386.03

49+00.00

C = 207

CF = 55
F = 56

1386.59

19TH STREET NORTH
STA 49+00 TO 49+50
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 09-07-2006 7:46:16 AM by BJS
Plot Scale 1:1 09-07-2006 7:30:22 PM
Q:\2005\05731\DESIGN-XSECT\19th (36-51)-berm\sd13

80

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	81	XX

NO.	NOTE BOOK	TEMPLATE
	ARRAS	ARRAS CHECKED

50+75.00
C = 222
CF = 64
F = 7
1381.03
50+75.00

50+50.00
C = 369
CF = 63
F = 0
1381.78
50+50.00

50+35.92
C = 359
CF = 62
F = 0
1382.23
50+35.92

50+25.00
C = 326
CF = 61
F = 0
1382.62
50+25.00

50+00.00
C = 267
CF = 60
F = 0
1383.61
50+00.00

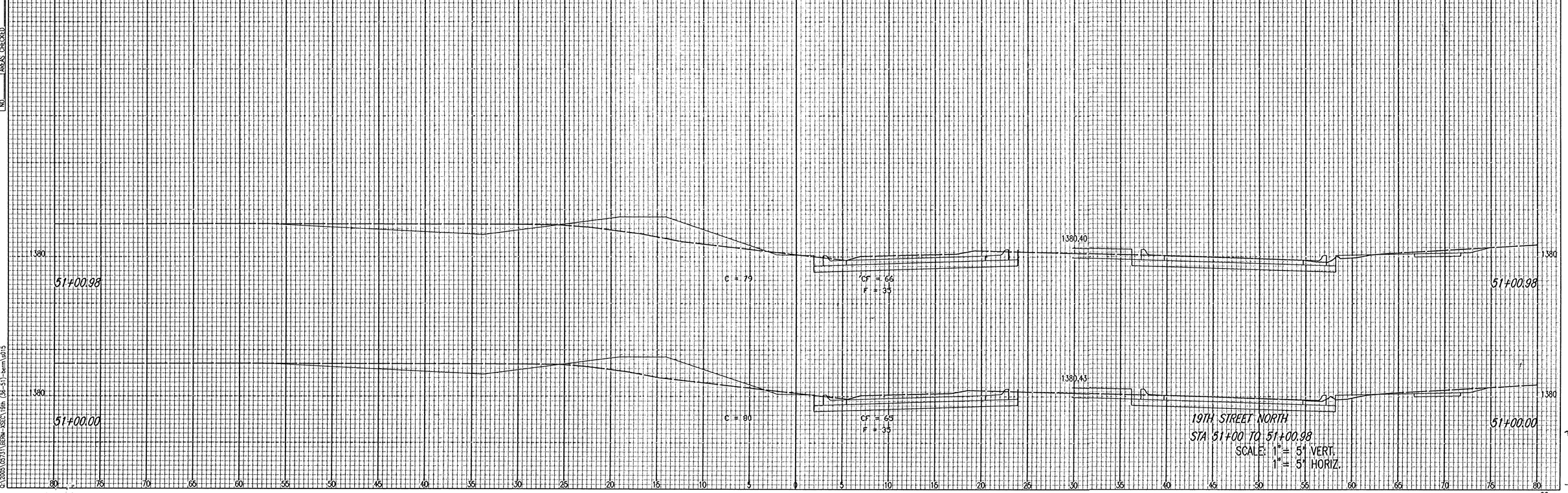
49+75.00
C = 226
CF = 59
F = 4
1384.54
49+75.00

19TH STREET NORTH
STA 49+75.00 TO 50+75.00
SCALE: 1" = 5' VERT.
1" = 5' HORIZ.

Saved: 09-07-2006 7:43:00 AM by BJS
Plotted: 09-07-2006 7:44:04 AM by BJS
C:\2005\05731\GEOM-ROAD\19th_50+75.dgn\d14

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
35-05731-000	2006	82	XX

NOTE BOOK	TEMPLATE
NO	AREAS
	AREAS CHECKED



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