

MAP OF THE
CITY OF SKYLINE
BLUE EARTH COUNTY, MN

CITY OF SKYLINE
CONSTRUCTION PLANS FOR

2000 WATERMAIN IMPROVEMENTS

SKYLINE, MINNESOTA

MARCH 2000

SHEET INDEX

SHEET NO.	TITLE
1	TITLE SHEET
2	DETAILS
3	SKYLINE DRIVE STA (0+00 TO STA 4+50)
4	WEST SKYLINE COURT (STA 10+00 TO STA 13+58)
5	EAST SKYLINE COURT (STA 20+00 TO STA 27+00)
6	SOUTH SKYLINE DRIVE

RESOURCE LIST

CITY OF SKYLINE

City Hall
P.O. BOX 424
MANKATO, MN 56002-0424
507-345-5390

City Treasurer:
DOROTHY ANDRING

City Clerk:
ROBERT IRWIN

Mayor:
WILLARD VETTER

City Council Members:
BRIAN POWERS
HAL JOHNSON
ANN FISCHER
ALAN HONERMANN

City Engineer:
(Consultant)
Mark D. Kasma, P.E.
Bolton & Menk, Inc.
515 North Riverfront Drive
Mankato, MN 56001
507-625-4171, FAX: 507-625-4177

UTILITIES

GAS
Minnegasco
2400 N. Riverfront Drive
Mankato, MN 56001
507-685-5611, FAX: 507-387-1997

TELEPHONE
MCTC
221 EAST HICKORY STREET
MANKATO, MN 56001
507-387-1151

CABLE
BRESNAN COMMUNICATIONS
1724 MADISON AVENUE
MANKATO, MN 56001
507-388-9311

ELECTRIC
Northern States Power
(Consultant)
PO Box 1090
Mankato, MN 56001
507-625-5621, FAX: 507-387-9604

NOTE:
EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS
BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR
SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING
CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY
GOPHER STATE ONE-CALL 1-800-252-1166 OR 612-454-0002.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Mark D. Kasma REG. NO. 21282 DATE: 3-1-2000

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available information. Not all features and
construction notes have been changed or
redrawn to reflect the as constructed
conditions. Care and field verification are
recommended if these drawings are to be
used for future extensions or revisions.

9-28-00 GCL

NORTH MANKATO

SKYLINE

PROJECT LOCATION

MANKATO

EXISTING	
-----	COUNTY LINE
-----	CITY LIMITS
-----	SECTION LINE
-----	PRESENT RIGHT OF WAY LINE
-----	PROPERTY/LOTLINE
-----	PERPETUAL EASEMENT
-----	ZONING SETBACK LINE
-----	ACCESS CONTROL LINE
-----	RAILROAD RIGHT OF WAY LINE
-----	RAILROAD
-----	WATER EDGE
-----	WATER CENTERLINE
-----	HIGHWATER LINE
-----	SWALE CENTERLINE
-----	WETLAND BOUNDARY
-----	WETLAND/MARSH
-----	CURB & GUTTER
-----	CONCRETE EDGE
-----	BITUMINOUS EDGE
-----	GRAVEL EDGE
-----	FENCE
-----	CULVERT
-----	DECIDUOUS TREE
-----	CONIFER TREE
-----	HEDGE
-----	TREE LINE
-----	TRAFFIC SIGN
-----	MANHOLE
-----	CATCH BASIN
-----	8" SAN INP
-----	4" FM INP
-----	15" STM INP
-----	STORM SEWER
-----	TILE LINE
-----	4" WMN INP
-----	WATERMAIN
-----	HYDRANT
-----	VALVE
-----	CURB STOP
-----	GAS
-----	POWER POLE
-----	LIGHT POLE
-----	PAD MOUNTED TRANSFORMER
-----	UNDERGROUND ELECTRIC
-----	OVERHEAD ELECTRIC
-----	UTILITY PEDESTAL/CABINET
-----	UNDERGROUND TELEPHONE
-----	TV
-----	UNDERGROUND TV CABLE
-----	BENCHMARK
-----	B-3
-----	SOIL BORING

PROPOSED

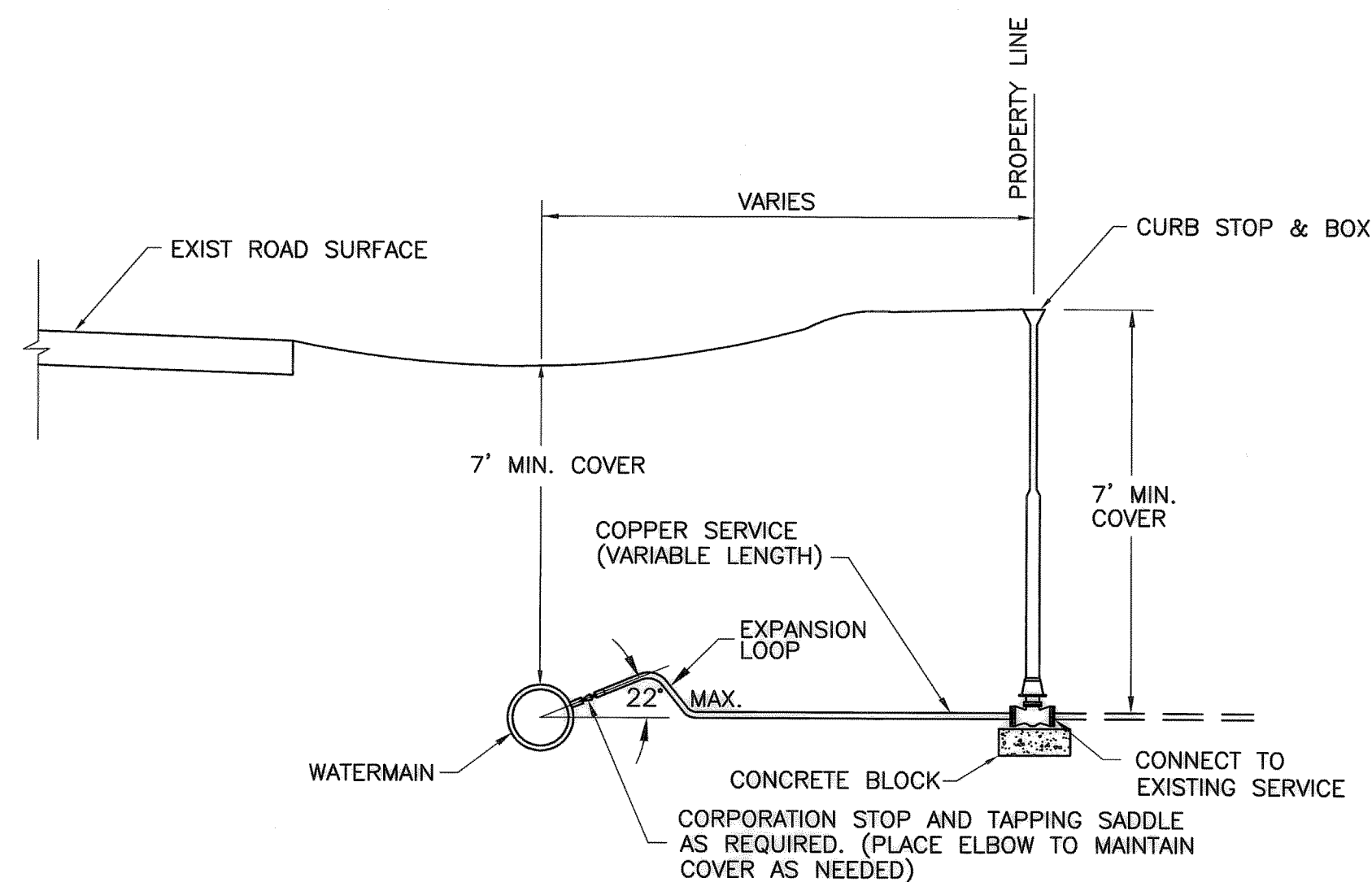
-----	22+00	ALIGNMENT/CENTERLINE
-----		RIGHT OF WAY LINE
-----		TEMPORARY EASEMENT
-----		CONSTRUCTION LIMITS
-----		CURB & GUTTER
-----		BITUMINOUS EDGE
-----		CONCRETE EDGE
-----		GRAVEL EDGE
-----		SILT FENCE--PREASSEMBLED
-----		SILT FENCE--HEAVY DUTY
-----		EROSION PROTECTION AT INLET
-----		MANHOLE
-----		CATCH BASIN
-----		8" SAN
-----		6" FM
-----		12" STM
-----		4" PERF PD
-----		PERFORATED PIPE DRAIN
-----		CULVERT W/APRON
-----		HYDRANT
-----		VALVE
-----		CURBSTOP
-----		6" WMN
-----		WATERMAIN



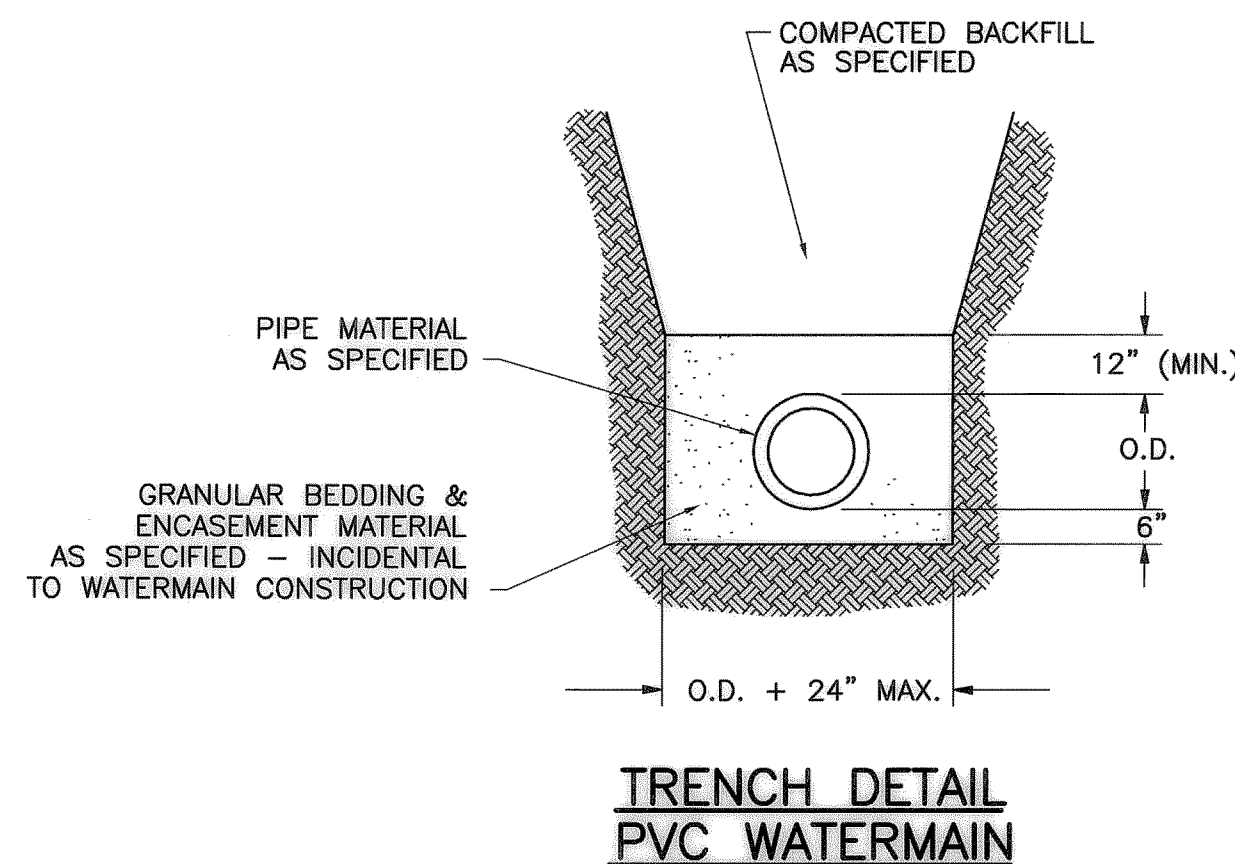
BOLTON & MENK, INC

CONSULTING ENGINEERS & SURVEYORS

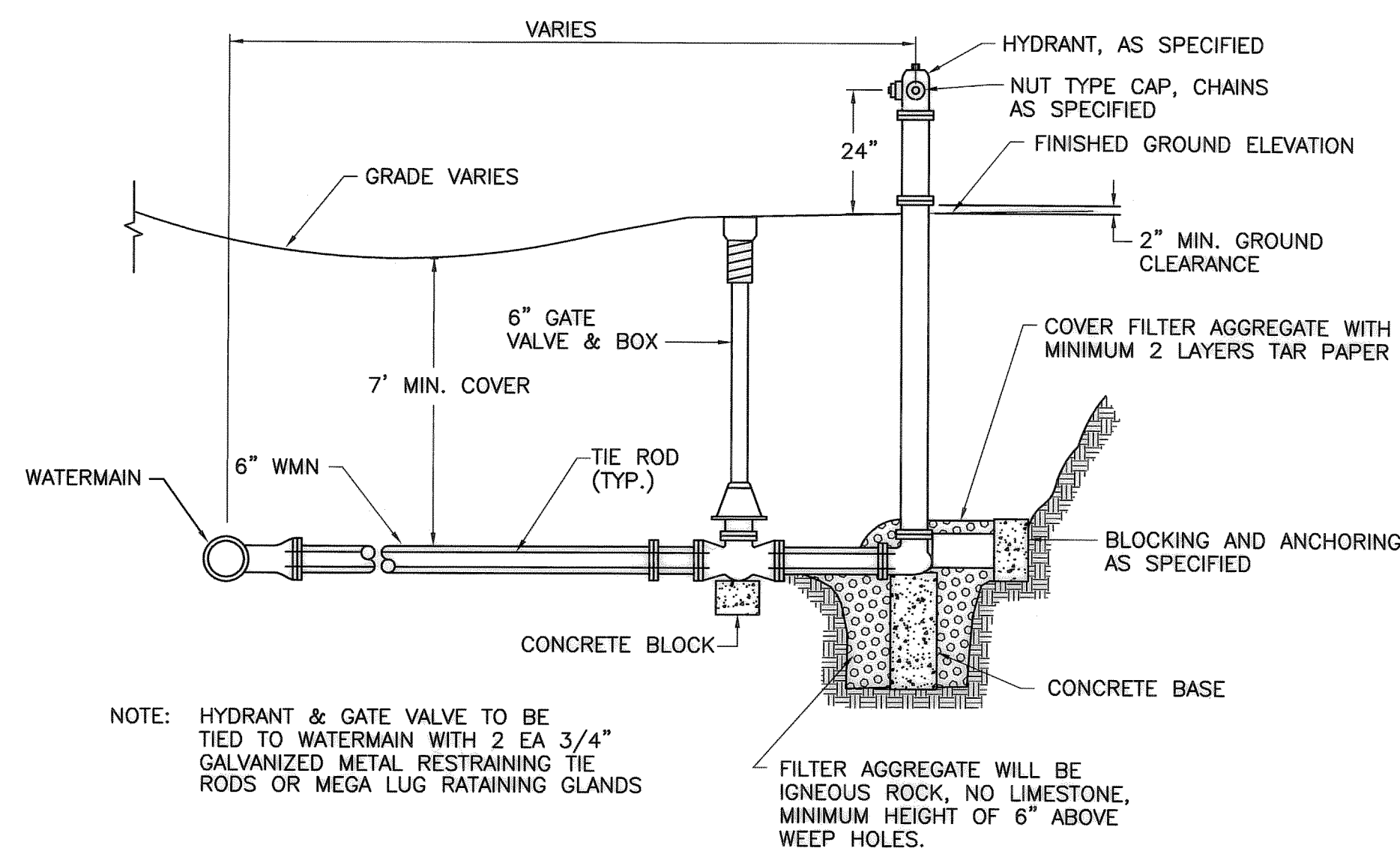
MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN
BURNSVILLE, MN WILLMAR, MN AMES, IA LIBERTY, MO



WATER SERVICE INSTALLATION DETAIL



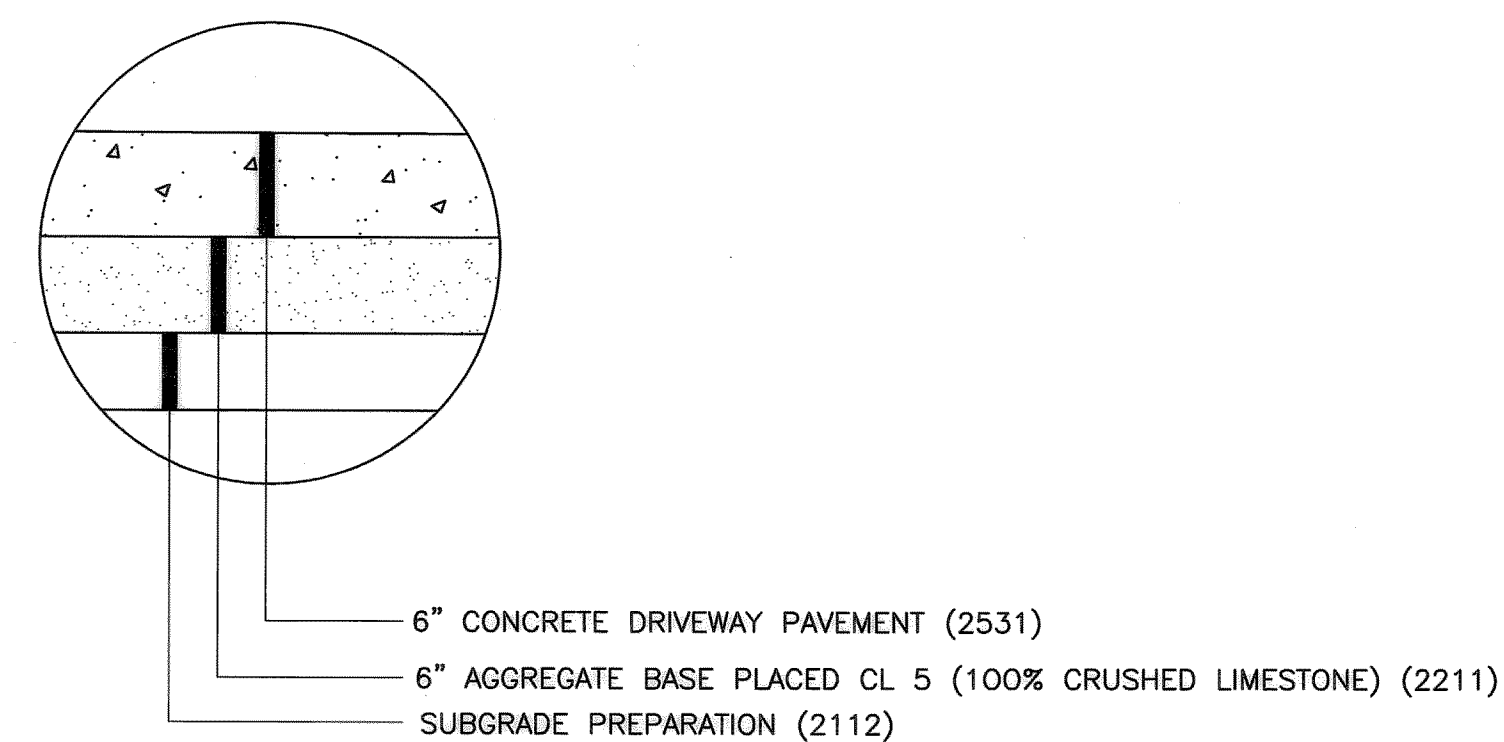
**TRENCH DETAIL
PVC WATERMAIN**



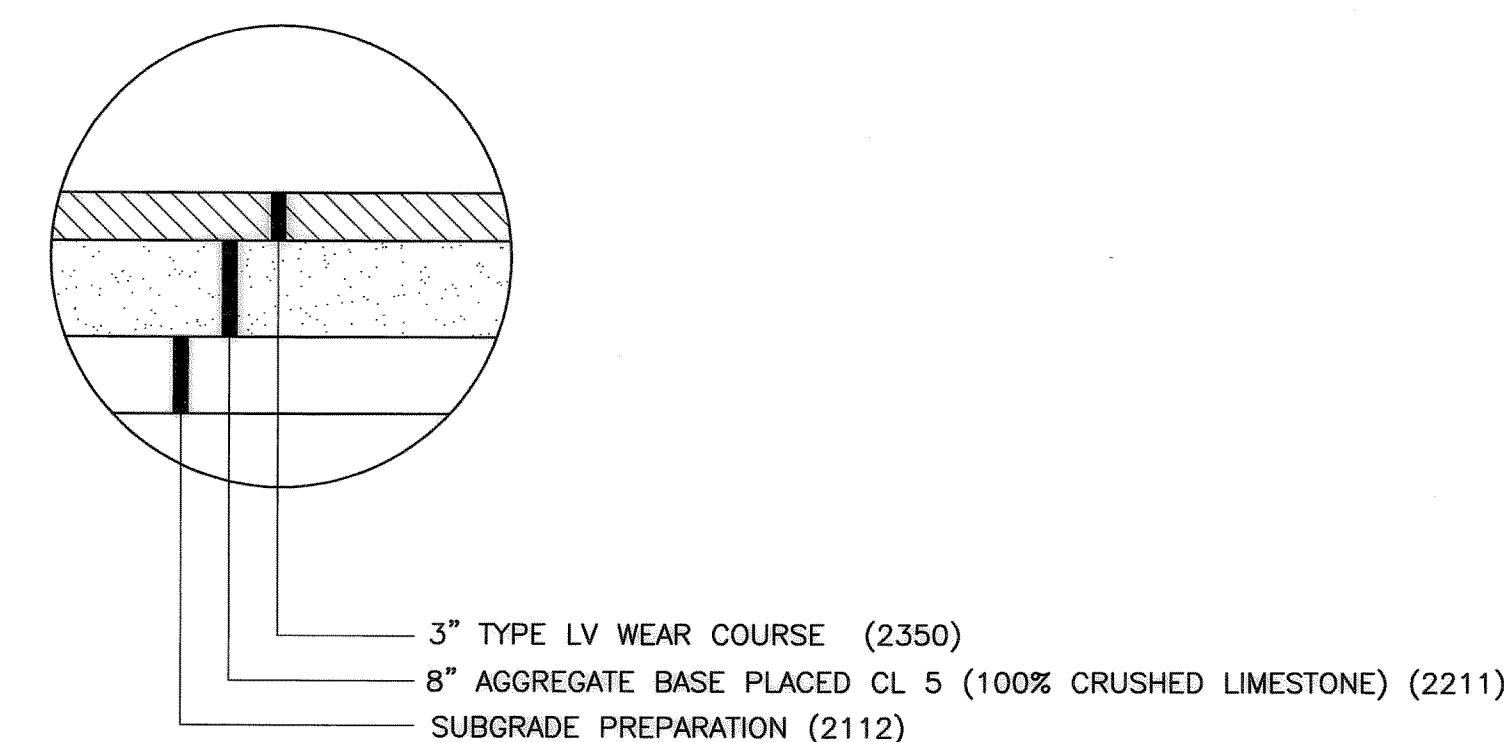
NOTE: HYDRANT & GATE VALVE TO BE TIED TO WATERMAIN WITH 2 EA 3/4" GALVANIZED METAL RESTRAINING TIE RODS OR MEGA LUG RATAINING GLANDS

FILTER AGGREGATE WILL BE IGNEOUS ROCK, NO LIMESTONE, MINIMUM HEIGHT OF 6" ABOVE WEEP HOLES.

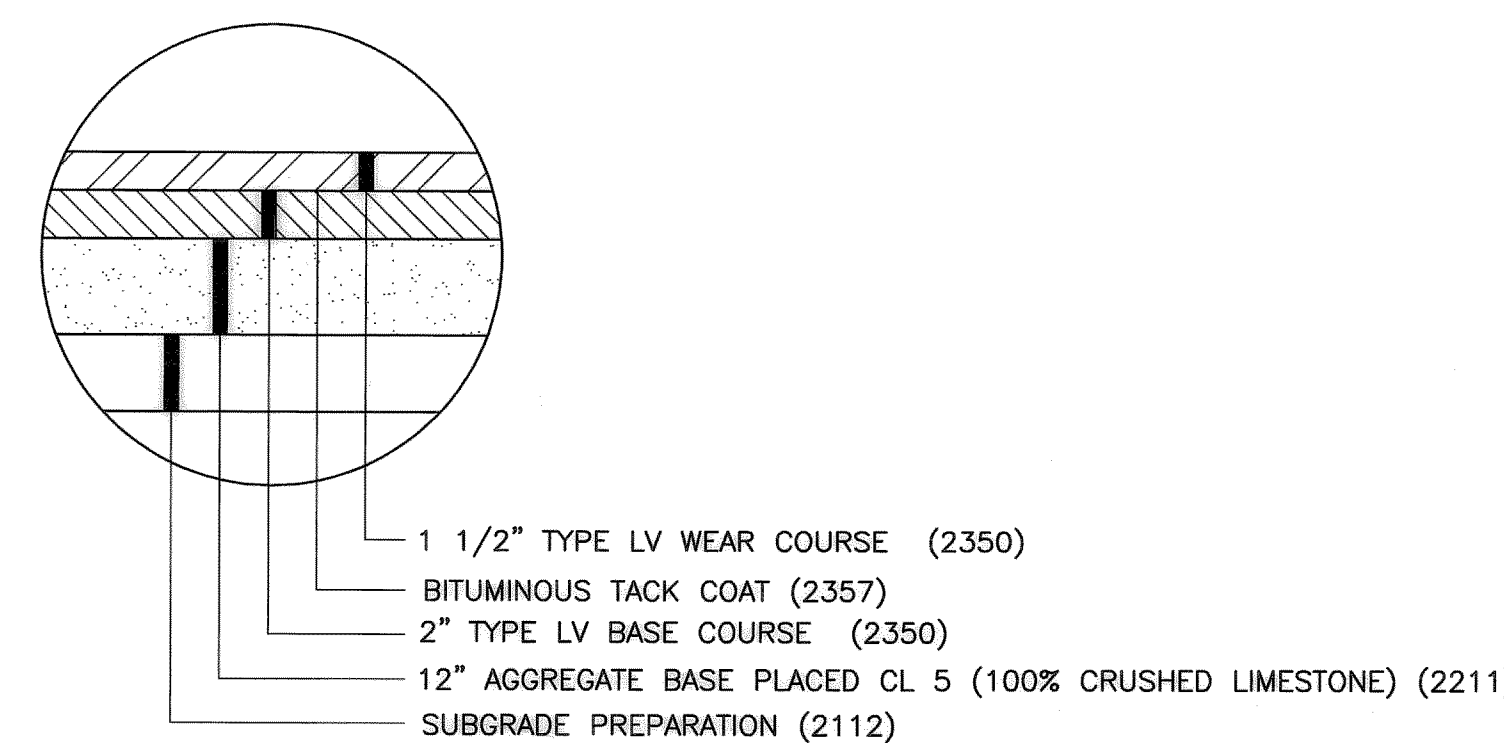
HYDRANT INSTALLATION



CONCRETE DRIVEWAY PATCH



BITUMINOUS DRIVEWAY PATCH



BITUMINOUS PATCH

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9-28-2000 GCC

PROJECT NO: M1531436
DRAWING NAME: H:\SKYL\M1531436\CAD\31346d01.DWG
PLOT DATE: 3-1-2000

NOTE: DETAILS ARE NOT TO SCALE

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Mike D. Kasma
REG. NO. 21282 DATE 3-1-2000

DESIGNED
GCC
DRAWN
GCC
CHECKED
MDK



BOLTON & MENK, INC
CONSULTING ENGINEERS & SURVEYORS
MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN
BURNSVILLE, MN WILLMAR, MN AMES, IA LIBERTY, MO

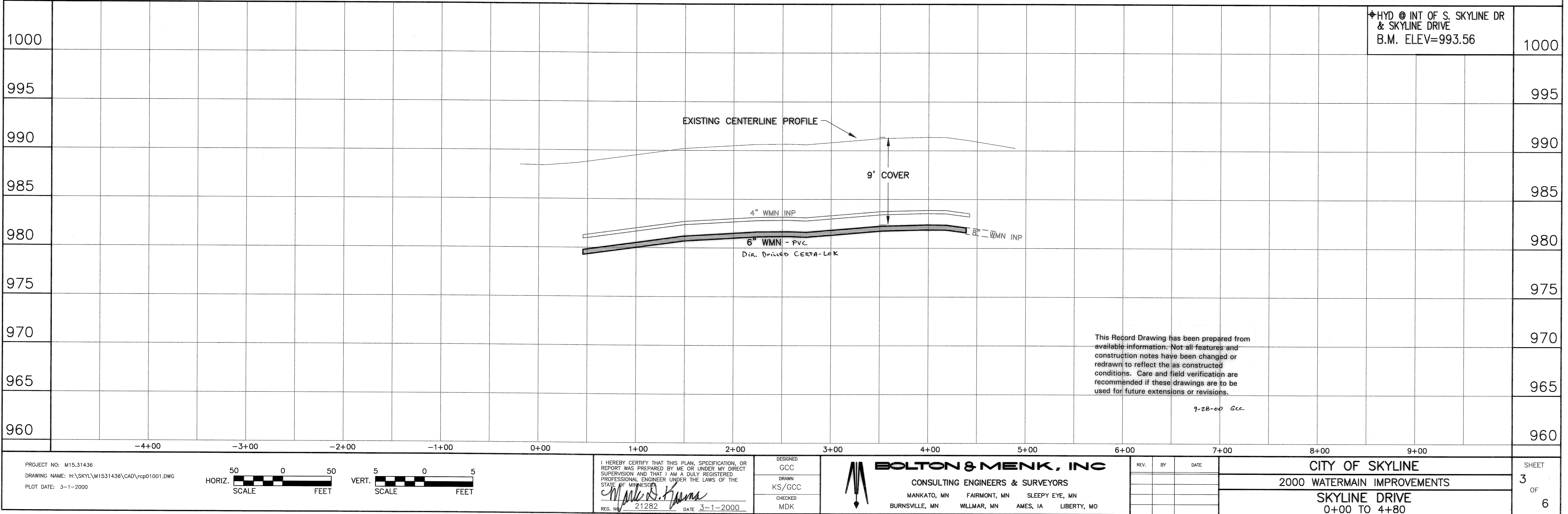
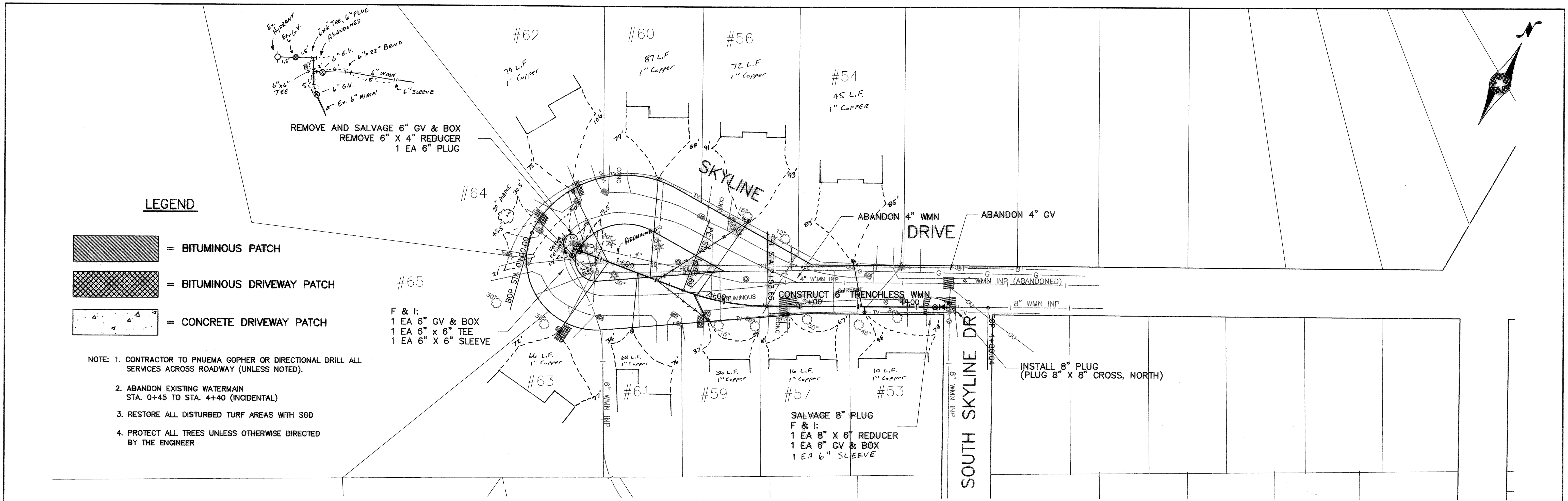
REV.	BY	DATE

CITY OF SKYLINE, MN
2000 WATERMAIN IMPROVEMENTS
DETAILS

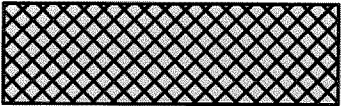
SHEET
2
OF
6

11-491

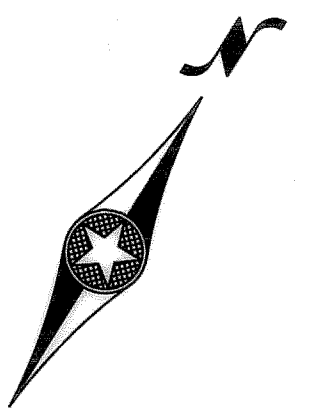
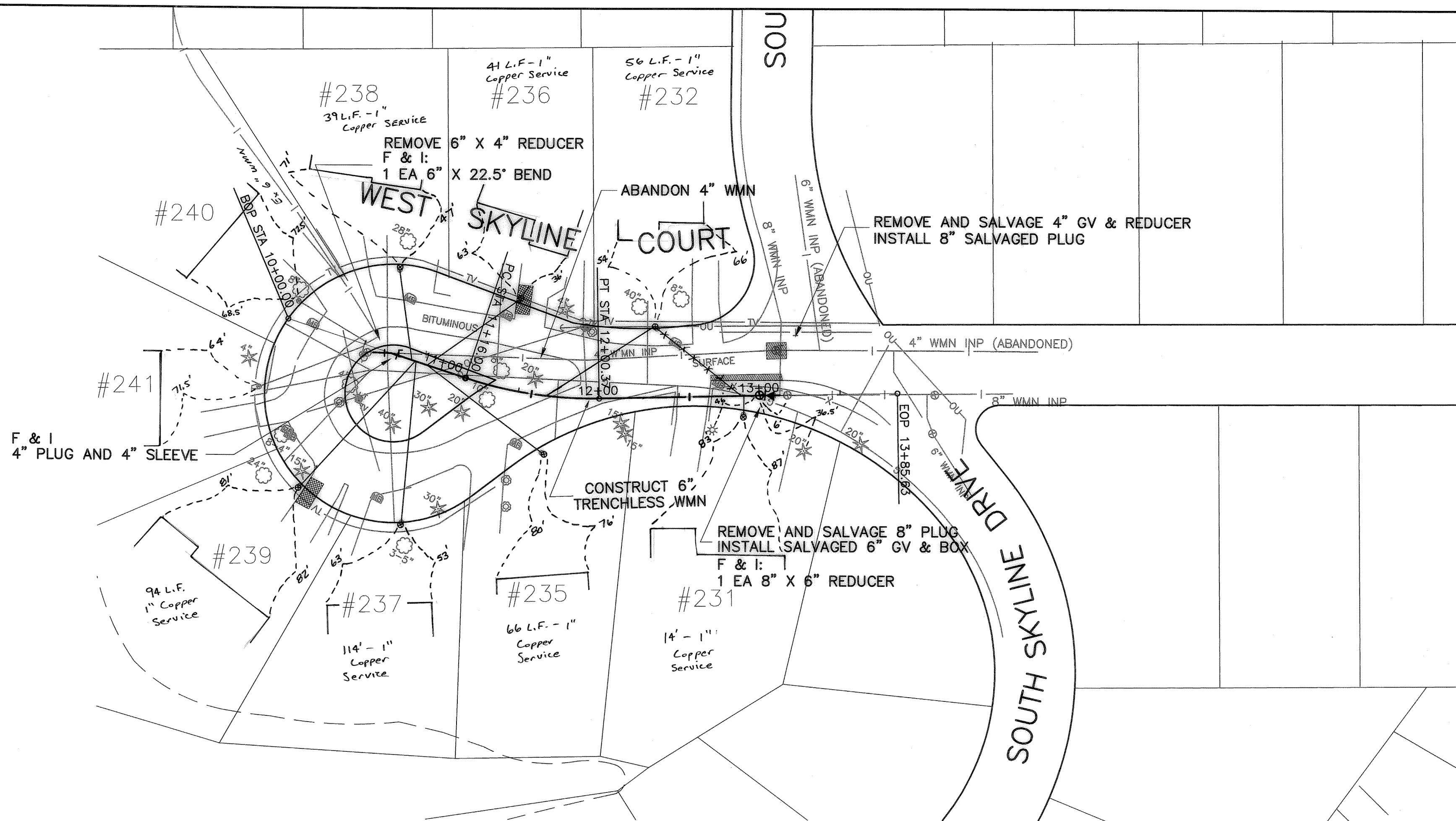
V-77



LEGEND

-  = BITUMINOUS PATCH
-  = BITUMINOUS DRIVEWAY PATCH

- NOTE: 1. CONTRACTOR TO PNEUMA GOPHER OR DIRECTIONAL DRILL ALL SERVICES ACROSS ROADWAY (UNLESS NOTED).
2. ABANDON EXISTING WATERMAIN STA. 10+60 TO STA. 13+15 (INCIDENTAL)
3. RESTORE ALL DISTURBED TURF AREAS WITH SOD
4. PROTECT ALL TREES UNLESS OTHERWISE DIRECTED BY THE ENGINEER



995

990

985

980

975

970

965

960

955

HYD @ INT OF S. SKYLINE DR
& SKYLINE DRIVE
B.M. ELEV=993.56

995

990

985

980

975

970

965

960

955

EXISTING CENTERLINE PROFILE

9' COVER TYP.

6" WMN
Directional Drilled
CERTA-Lok

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9-28-00 GCC

PROJECT NO.: M15.31436

DRAWING NAME: H:\SKYL\M1531436\CAD\RCP01002.DWG

PLOT DATE: 3-1-2000

FB:

HORIZ. SCALE
50 0 50
FEET

VERT. SCALE
5 0 5
FEET

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Mark D. Kama

REG. NO. 21282 DATE 3-1-2000

DESIGNED
GCC

DRAWN
KS

CHECKED
MDK



BOLTON & MENK, INC

CONSULTING ENGINEERS & SURVEYORS

MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN
BURNSVILLE, MN WILLMAR, MN AMES, IA LIBERTY, MO

REV. BY DATE

CITY OF SKYLINE

2000 WATERMAIN IMPROVEMENTS

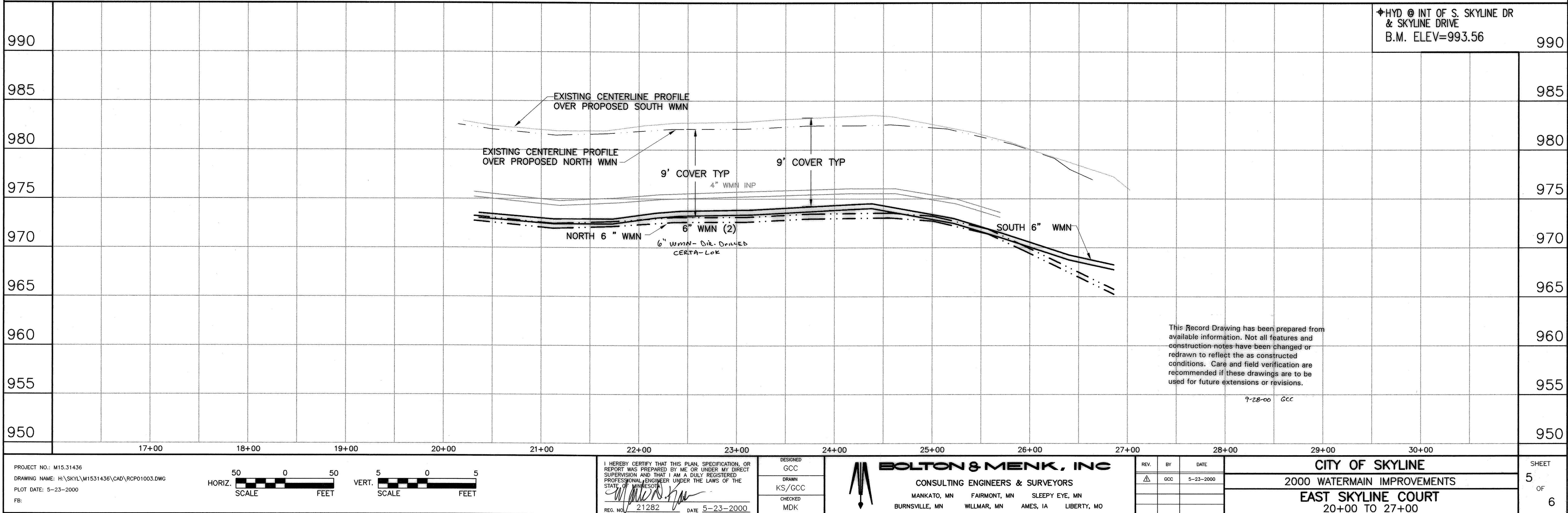
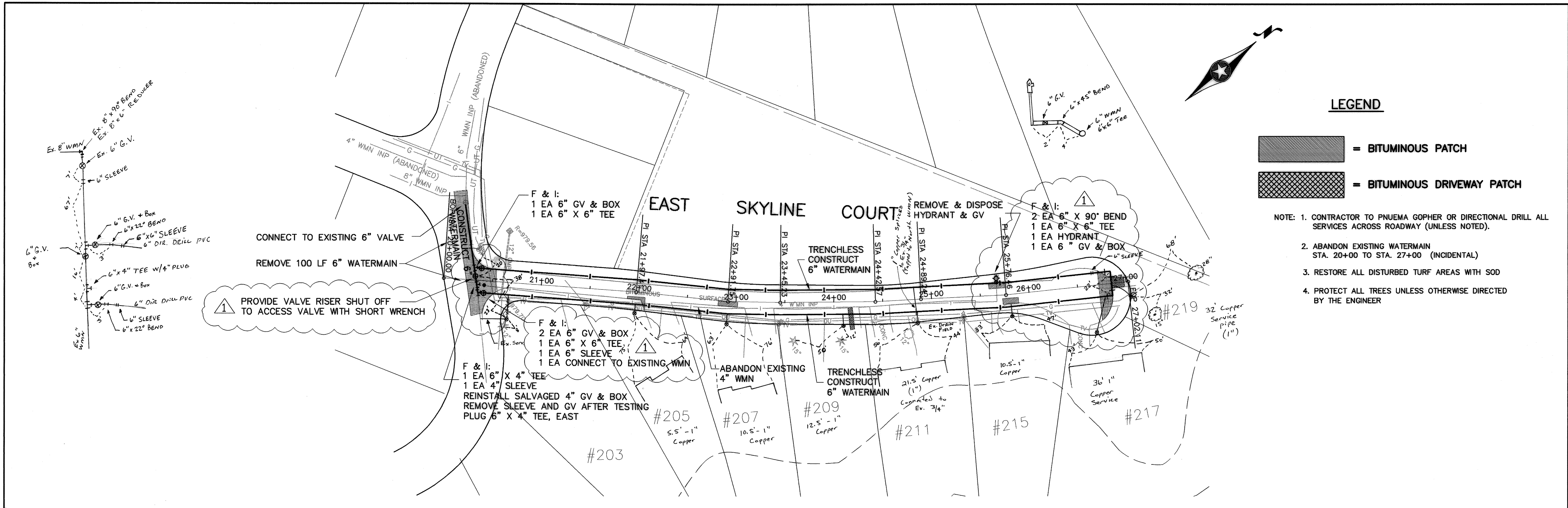
WEST SKYLINE COURT
10+00 TO 13+85

SHEET

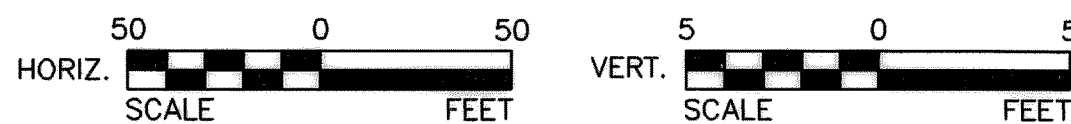
4

OF

6



PROJECT NO.: M15.31436
DRAWING NAME: H:\SKYL\M1531436\CAD\RCP01003.DWG
PLOT DATE: 5-23-2000
FB:



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REG. NO. 21282 DATE 5-23-2000

DESIGNED
GCC
DRAWN
KS/GCC
CHECKED
MDK

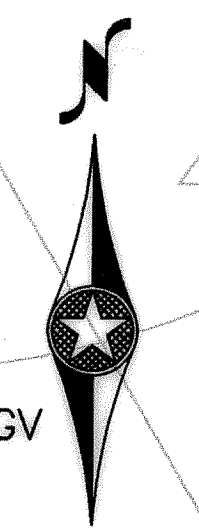
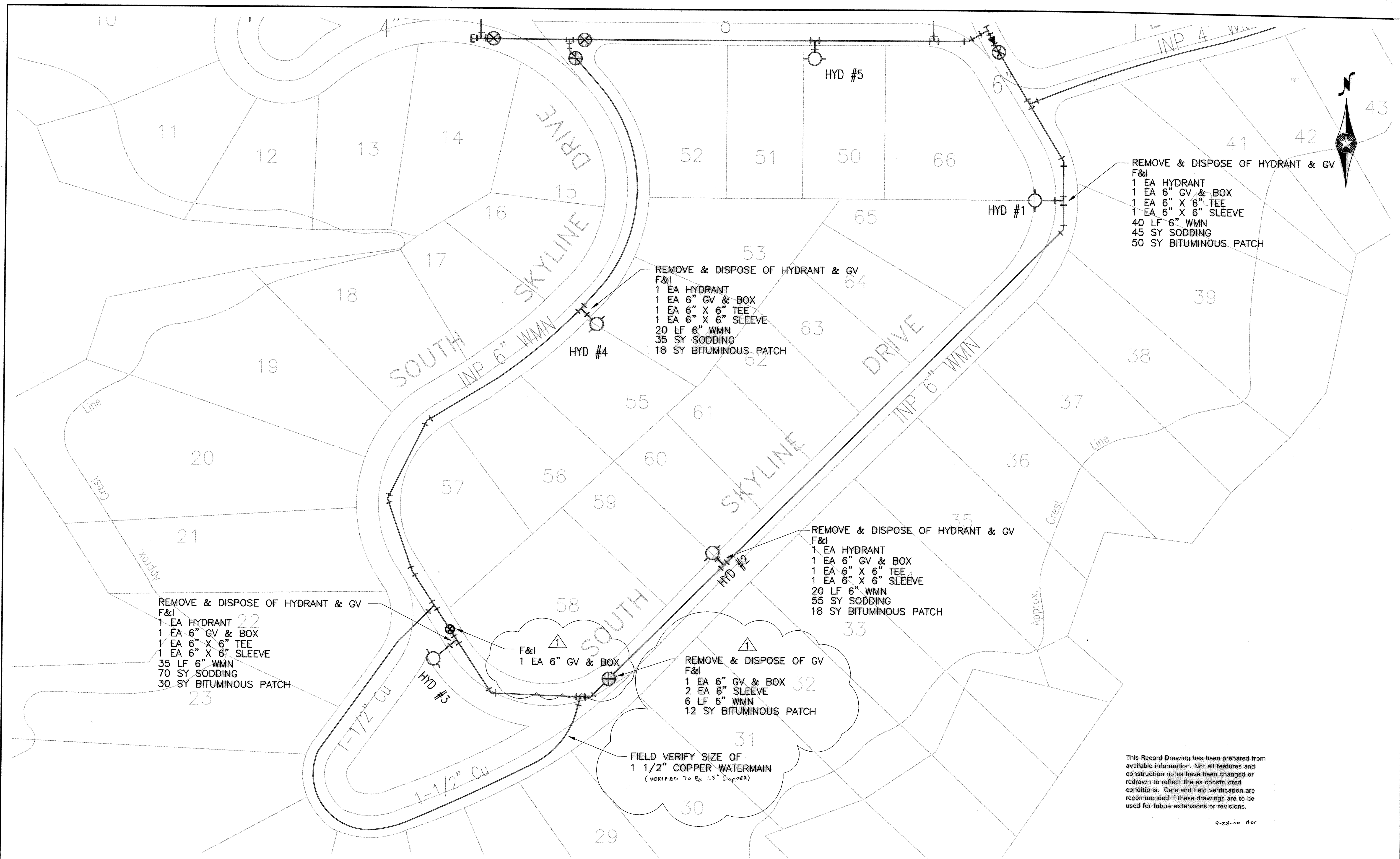


BOLTON & MENK, INC
CONSULTING ENGINEERS & SURVEYORS
MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN
BURNSVILLE, MN WILLMAR, MN AMES, IA LIBERTY, MO

REV. BY DATE
1 GCC 5-23-2000

CITY OF SKYLINE
2000 WATERMAIN IMPROVEMENTS
EAST SKYLINE COURT
20+00 TO 27+00

SHEET
5
OF
6



REMOVE & DISPOSE OF HYDRANT & GV
F&I
1 EA HYDRANT
1 EA 6" GV & BOX
1 EA 6" X 6" TEE
1 EA 6" X 6" SLEEVE
35 LF 6" WMN
70 SY SODDING
30 SY BITUMINOUS PATCH

REMOVE & DISPOSE OF HYDRANT & GV
F&I
1 EA HYDRANT
1 EA 6" GV & BOX
1 EA 6" X 6" TEE
1 EA 6" X 6" SLEEVE
20 LF 6" WMN
35 SY SODDING
18 SY BITUMINOUS PATCH

REMOVE & DISPOSE OF HYDRANT & GV
F&I
1 EA HYDRANT
1 EA 6" GV & BOX
1 EA 6" X 6" TEE
1 EA 6" X 6" SLEEVE
20 LF 6" WMN
55 SY SODDING
18 SY BITUMINOUS PATCH

REMOVE & DISPOSE OF HYDRANT & GV
F&I
1 EA HYDRANT
1 EA 6" GV & BOX
1 EA 6" X 6" TEE
1 EA 6" X 6" SLEEVE
40 LF 6" WMN
45 SY SODDING
50 SY BITUMINOUS PATCH

F&I
1 EA 6" GV & BOX

REMOVE & DISPOSE OF GV
F&I
1 EA 6" GV & BOX
2 EA 6" SLEEVE
6 LF 6" WMN
12 SY BITUMINOUS PATCH

FIELD VERIFY SIZE OF
1 1/2" COPPER WATERMAIN
(VERIFIED TO BE 1.5" COPPER)

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M-491 V-77