CELL LIBRARIES:

AREA PATTERNS
CULVERTS
DISPLAY
DRAINAGE
FLARED END SECTION
GUARDRAIL
LIGHTING
MASTER
PLAN DEVELOPMENT UNIT PATTERN
PRELIMINARY
TURNING TEMPLATE
TYPICAL

JUNE 2007
AREA PATTERNS

JUNE 2007

NAME OF LIBRARY = AREAPAT.CEL
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE
<table>
<thead>
<tr>
<th>Cell Name: ANSI31</th>
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<td>Descrip: ANSI31 AREA PATTERN</td>
<td>Descrip: ANSI32 AREA PATTERN</td>
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Cell Name: COASH
Descrip: COURSED BRICK BLOCK PATRN

Cell Name: CONCR2
Descrip: CONCRETE SECT SYMBOL NO.2

Cell Name: CONCR3
Descrip: CONCRETE SECT SYMBOL NO.3

Cell Name: CONCRT
Descrip: CONCRETE AREA PATTERN

Cell Name: CORK
Descrip: CORK AREA PATTERN

Cell Name: CROSS
Descrip: CROSS AREA PATTERN

Cell Name: CRSRBL
Descrip: COURSED RUBBLE PATRN

Cell Name: CUBES
Descrip: CUBES AREA PATTERN
Cell Library: areapat.cel

Cell Name: DASH
Descrip: DASHED AREA PATTERN

Cell Name: DOLMIT
Descrip: DOLOMITE AREA PATTERN

Cell Name: EARTH
Descrip: EARTH AREA PATTERN

Cell Name: ENBOND
Descrip: ENGLISH BOND BRICK PATRN

Cell Name: FLBOND
Descrip: FLEMISH BOND BRICK PATRN

Cell Name: FLCOMM
Descrip: FLEMISH COMMON BOND PATRN

Cell Name: FLEX
Descrip: FLEXIBLE MATERIAL PATTERN

Cell Name: GBLOCK
Descrip: GROOVED CONC BLOCK PATRN
Cell Library: areapat.cel

Cell Name: GRADE1
Descrip: SECT THRU GRADE LPAT.APAT

Cell Name: GRADE2
Descrip: SECT THRU GRADE APAT

Cell Name: GRADE3
Descrip: SECT THRU GRADE NO.3

Cell Name: GRASS
Descrip: GRASS AREA PATTERN

Cell Name: GRATE
Descrip: GRATE AREA PATTERN

Cell Name: GRAVEL
Descrip: GRAVEL APAT SYMBOL

Cell Name: HBONE
Descrip: HERRINGBONE LPAT.APAT

Cell Name: HERRNG
Descrip: HERRINGBONE PATTERN
Cell Name: SQUARE
Descrip: SQUARE AREA PATTERN

Cell Name: STARS
Descrip: STAR AREA PATTERN

Cell Name: STONWL
Descrip: STONE WALL PATTERN

Cell Name: STUCCO
Descrip: STUCCO PATTERN

Cell Name: THRMIN
Descrip: THERMAL INSULATION

Cell Name: TILE
Descrip: 1X1 TILE PATTERN

Cell Name: TRIANG
Descrip: TRIANGLE AREA PATTERN

Cell Name: VBRICK
Descrip: VERT BRICK PATTERN RUNNING BOND
Cell Library: areapat.cel

Cell Name: WOOD
Descrip: WOODGRAIN PATTERN

Cell Name: WOOD1
Descrip: WOOD GRAIN PATTERN NO.1

Cell Name: WOOD2
Descrip: WOOD GRAIN PATTERN NO.2

Cell Name: WOOD3
Descrip: WOOD GRAIN PATTERN NO.3

Cell Name: WOOD4
Descrip: WOODGRAIN APAT NO.4

Cell Name: ZIGZAG
Descrip: ZIGZAG AREA PATTERN
CULVERTS

JUNE 2007

NAME OF LIBRARY = CULV.CEL
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE
Cell Library: culv.cel

Cell Name: BXNTLT
Descrip: BOX EXTENSION NOTE LT

Limits of Box Extension and Pay Excavation

Break Back Existing Structure to This Line

Cell Name: BXNTRT
Descrip: BOX EXTENSION NOTE RT

Limits of Box Extension and Pay Excavation

Break Back Existing Structure to This Line

Cell Name: EWT
Descrip: EXISTING WALL THICKNESS

Exist Wall Thickness

TT  TU  TB  TI

Cell Name: FLBSLT
Descrip: FLUME BASE LEFT

Cell Name: FLBSRT
Descrip: FLUME BASE RIGHT

Cell Name: KARROW
Descrip: ARROWHEAD

Cell Name: T7BX4L
Descrip: TYPE 7 FLUME BOX LEFT
4 FT SHOULDER

Cell Name: T7BX4R
Descrip: TYPE 7 FLUME BOX RIGHT
4 FT SHOULDER
R  O  A  D  W  A  Y
D  E  S  I  G  N

Nebraska Department of Roads

DRAINAGE

JUNE 2007

NAME OF LIBRARY  = DRAIN.CEL
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE
Cell Name: 18RCSP
Descrip: 18 INCH RC SLOTTED PIPE

Cell Name: 24RCSP
Descrip: 24 INCH RC SLOTTED PIPE

Cell Name: 30RCSP
Descrip: 30 INCH RC SLOTTED PIPE

Cell Name: B10E
Descrip: EXIST 10FT BOX END

Cell Name: B11E
Descrip: EXIST 11FT BOX END

Cell Name: B12E
Descrip: EXIST 12FT BOX END

Cell Name: B14E
Descrip: EXIST 14FT BOX END

Cell Name: B4E
Descrip: EXIST 4FT BOX END
Cell Library: drain.cel

Cell Name: C72
Descrip: 72IN CONC FES

Cell Name: CGI30
Descrip: CONC GRATE INLET 30IN

Cell Name: CGI36
Descrip: CONC GRATE INLET 36IN

Cell Name: CGI42
Descrip: CONC GRATE INLET 42IN

Cell Name: CMI30
Descrip: CONC MEDIAN INLET 30IN

Cell Name: CMI36
Descrip: CONC MEDIAN INLET 36IN

Cell Name: CMI42
Descrip: CONC MEDIAN INLET 42IN

Cell Name: CMI48
Descrip: CONC MEDIAN INLET 48IN
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<td>E42E</td>
<td>EXIST 42IN PIPE END</td>
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<td>E48E</td>
<td>EXIST 48IN PIPE END</td>
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<td>E54E</td>
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<td>E60E</td>
<td>EXIST 60IN PIPE END</td>
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Cell Name: E6E  
Descrip: EXIST 6 IN PIPE END

Cell Name: E72  
Descrip: EXIST 72 IN FES

Cell Name: E72E  
Descrip: EXIST 72 IN PIPE END

Cell Name: E78E  
Descrip: EXIST 78 IN PIPE END

Cell Name: E84E  
Descrip: EXIST 84 IN PIPE END

Cell Name: E8E  
Descrip: EXIST 8 IN PIPE END

Cell Name: E90E  
Descrip: EXIST 90 IN PIPE END

Cell Name: E96E  
Descrip: EXIST 96 IN PIPE END
Cell Name: FLUM88
Descrip: FLUME TYPE 8 8 FT SHOULDER

Cell Name: GRAIN
Descrip: GRATED AREA INLET

Cell Name: H18
Descrip: EXIST 18IN PIPE HDWL

Cell Name: H24
Descrip: EXIST 24IN PIPE HDWL

Cell Name: H30
Descrip: EXIST 30IN PIPE HDWL

Cell Name: H36
Descrip: EXIST 36IN PIPE HDWL

Cell Name: H42
Descrip: EXIST 42IN PIPE HDWL

Cell Name: H48
Descrip: EXIST 48IN PIPE HDWL
Cell Library: drain.cel

Cell Name: MD1
Descrip: MEDIAN DRAIN 1816 K TYPE A

Cell Name: MD2
Descrip: MED DRN 1816 K TYPE B OR C

Cell Name: MD3
Descrip: EXIST MEDIAN DRAIN 1816 H

Cell Name: W10E
Descrip: EXIST WINGS FOR 10 FT BOX

Cell Name: W10X10
Descrip: WINGS FOR 10X10 BOX

Cell Name: W10X12
Descrip: WINGS FOR 10X12 BOX

Cell Name: W10X5
Descrip: WINGS FOR 10X5 BOX

Cell Name: W10X6
Descrip: WINGS FOR 10X6 BOX
Cell Name: W10X7
Descrip: WINGS FOR 10X7 BOX

Cell Name: W10X8
Descrip: WINGS FOR 10X8 BOX

Cell Name: W10X9
Descrip: WINGS FOR 10X9 BOX

Cell Name: W12E
Descrip: EXIST WINGS FOR 12 FT BOX

Cell Name: W12X10
Descrip: WINGS FOR 12X10 BOX

Cell Name: W12X12
Descrip: WINGS FOR 12X12 BOX

Cell Name: W12X6
Descrip: WINGS FOR 12X6 BOX

Cell Name: W12X7
Descrip: WINGS FOR 12X7 BOX
Cell Name: W12X8
Descrip: WINGS FOR 12X8 BOX

Cell Name: W12X9
Descrip: WINGS FOR 12X9 BOX

Cell Name: W4E
Descrip: EXIST WINGS FOR 4 FT BOX

Cell Name: W4X4
Descrip: WINGS FOR 4X4 BOX

Cell Name: W5E
Descrip: EXIST WINGS FOR 5 FT BOX

Cell Name: W5X4
Descrip: WINGS FOR 5X4 BOX

Cell Name: W5X5
Descrip: WINGS FOR 5X5 BOX

Cell Name: W5X6
Descrip: WINGS FOR 5X6 BOX
Cell Name: W5X7
Descrip: WINGS FOR 5X7 BOX

Cell Name: W6E
Descrip: EXIST WINGS FOR 6 FT BOX

Cell Name: W6X4
Descrip: WINGS FOR 6X4 BOX

Cell Name: W6X5
Descrip: WINGS FOR 6X5 BOX

Cell Name: W6X6
Descrip: WINGS FOR 6X6 BOX

Cell Name: W6X7
Descrip: WINGS FOR 6X7 BOX

Cell Name: W6X8
Descrip: WINGS FOR 6X8 BOX

Cell Name: W7E
Descrip: EXIST WINGS FOR 7 FT BOX
Cell Library: drain.cel

Cell Name: W7X4
Descrip: WINGS FOR 7X4 BOX

Cell Name: W7X5
Descrip: WINGS FOR 7X5 BOX

Cell Name: W7X6
Descrip: WINGS FOR 7X6 BOX

Cell Name: W7X7
Descrip: WINGS FOR 7X7 BOX

Cell Name: W7X8
Descrip: WINGS FOR 7X8 BOX

Cell Name: W7X9
Descrip: WINGS FOR 7X9 BOX

Cell Name: W8E
Descrip: EXIST WINGS FOR 8 FT BOX

Cell Name: W8X10
Descrip: WINGS FOR 8X10 BOX
Cell Name: W9X4
Descrip: WINGS FOR 9X4 BOX

Cell Name: W9X5
Descrip: WINGS FOR 9X5 BOX

Cell Name: W9X6
Descrip: WINGS FOR 9X6 BOX

Cell Name: W9X7
Descrip: WINGS FOR 9X7 BOX

Cell Name: W9X8
Descrip: WINGS FOR 9X8 BOX

Cell Name: W9X9
Descrip: WINGS FOR 9X9 BOX

Cell Name: XSE10E
Descrip: EXIST 10IN PIPE END

Cell Name: XSE12E
Descrip: EXIST 12IN PIPE END
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<td>EXIST 18IN PIPE END</td>
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<td>XSE24E</td>
<td>EXIST 24IN PIPE END</td>
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<td>XSE30E</td>
<td>EXIST 30IN PIPE END</td>
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<td>XSE36E</td>
<td>EXIST 36IN PIPE END</td>
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<td>XSE42E</td>
<td>EXIST 42IN PIPE END</td>
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<td>XSE48E</td>
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<td>XSE54E</td>
<td>EXIST 54IN PIPE END</td>
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FLARED END SECTION

JUNE 2007

NAME OF LIBRARY = FES.CEL
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE
Cell Library: fes.cel

- **Cell Name:** CA42  
  **Descrip:** CONC.FES FOR 42 RCP ARCH

- **Cell Name:** CA48  
  **Descrip:** CONC.FES FOR 48 RCP ARCH

- **Cell Name:** CA54  
  **Descrip:** CONC.FES FOR 54 RCP ARCH

- **Cell Name:** CA60  
  **Descrip:** CONC.FES FOR 60 RCP ARCH

- **Cell Name:** CA72  
  **Descrip:** CONC.FES FOR 72 RCP ARCH

- **Cell Name:** CE18  
  **Descrip:** CONC.FES FOR 18 RCP ELLIP.

- **Cell Name:** CE24  
  **Descrip:** CONC.FES FOR 24 RCP ELLIP.

- **Cell Name:** CE30  
  **Descrip:** CONC.FES FOR 30 RCP ELLIP.
Cell Library: fes.cel

Cell Name: CE36
Descrip: CONC. FES FOR 36 RCP ELLIP.

Cell Name: CE42
Descrip: CONC. FES FOR 42 RCP ELLIP.

Cell Name: CE48
Descrip: CONC. FES FOR 48 RCP ELLIP.

Cell Name: CE54
Descrip: CONC. FES FOR 54 RCP ELLIP.

Cell Name: CE60
Descrip: CONC. FES FOR 60 RCP ELLIP.

Cell Name: CL
Descrip: CENTERLINE SYMBOL

Cell Name: E102E
Descrip: 102IN PIPE END

Cell Name: E108E
Descrip: 108IN PIPE END
Cell Name: E78E
Descrip: 78IN PIPE END

Cell Name: E84E
Descrip: 84IN PIPE END

Cell Name: E90E
Descrip: 90IN PIPE END

Cell Name: E96E
Descrip: 96IN PIPE END

Cell Name: FL
Descrip: FLOWLINE

FL =

Cell Name: M12
Descrip: METAL FES FOR 12 CMP

Cell Name: M15
Descrip: METAL FES FOR 15 CMP

Cell Name: M18
Descrip: METAL FES FOR 18 CMP
Cell Library: fes.cel

Cell Name: M21
Descrip: METAL FES FOR 21 CMP

Cell Name: M24
Descrip: METAL FES FOR 24 CMP

Cell Name: M30
Descrip: METAL FES FOR 30 CMP

Cell Name: M36
Descrip: METAL FES FOR 36 CMP

Cell Name: M42
Descrip: METAL FES FOR 42 CMP

Cell Name: M48
Descrip: METAL FES FOR 48 CMP

Cell Name: M54
Descrip: METAL FES FOR 54 CMP

Cell Name: M60
Descrip: METAL FES FOR 60 CMP
Cell Library: fes.cel

Cell Name: MA30
Descrip: METAL FES FOR 30 CMP ARCH

Cell Name: MA36
Descrip: METAL FES FOR 36 CMP ARCH

Cell Name: MA42
Descrip: METAL FES FOR 42 CMP ARCH

Cell Name: MA48
Descrip: METAL FES FOR 48 CMP ARCH

Cell Name: MA54
Descrip: METAL FES FOR 54 CMP ARCH

Cell Name: MA60
Descrip: METAL FES FOR 60 CMP ARCH

Cell Name: MA66
Descrip: METAL FES FOR 66 CMP ARCH

Cell Name: MA72
Descrip: METAL FES FOR 72 CMP ARCH
GUARDRAIL

JUNE 2007

NAME OF LIBRARY = GUARD.CEL

ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE
Cell Library: guard.cel

- Cell Name: 10POST
  Descrip: 10 X 10 TREATED TIMBER POST

- Cell Name: 190R
  Descrip: 190.99 RADIUS GUARDRAIL

- Cell Name: 250R
  Descrip: 250.16 RADIUS GUARDRAIL

- Cell Name: 312R
  Descrip: 312.63 RADIUS GUARDRAIL

- Cell Name: 375R
  Descrip: 375.10 RADIUS GUARDRAIL

- Cell Name: 5CBR
  Descrip: 5 FT CONCRETE BRIDGE RAIL

- Cell Name: 8POST
  Descrip: 8 X 8 TREATED TIMBER POST

- Cell Name: BAS
  Descrip: BRIDGE APPROACH SECTION
Cell Library: guard.cel

- **Cell Name:** BASALT
  - Description: BRIDGE APPROACH SECTION ALT

- **Cell Name:** BCT
  - Description: BREAKAWAY CABLE TERMINATOR

- **Cell Name:** BEST
  - Description: ISTATE END TREATMENT

- **Cell Name:** BESTF
  - Description: ISTATE FLARED END TREATMENT

- **Cell Name:** BN12
  - Description: 12.5 FT BULLNOSE

- **Cell Name:** BN12T
  - Description: 12.5 FT BULLNOSE 15 TO 1 TAPERS

- **Cell Name:** BN18
  - Description: 18.75 FT BULLNOSE

- **Cell Name:** BN18T
  - Description: 18.75 FT BULLNOSE 15 TO 1 TAPERS

- **Cell Name:** BN18B
  - Description: 18.75 FT BULLNOSE

- **Cell Name:** BN18BT
  - Description: 18.75 FT BULLNOSE 15 TO 1 TAPERS
Cell Name: BNT04
Descrip: 12.5 FT BULLNOSE 15 TO 1 AND 7.4 TO 1 TAPERS

Cell Name: BNT05
Descrip: 12.5 FT BULLNOSE 15 TO 1 AND 6 TO 1 TAPERS

Cell Name: BNT06
Descrip: 12.5 FT BULLNOSE 15 TO 1 AND 3.6 TO 1 TAPERS

Cell Name: BULL25
Descrip: 25 FT BULLNOSE

Cell Name: BULL28
Descrip: 28 FT BULLNOSE

Cell Name: BULL30
Descrip: 30 FT BULLNOSE

Cell Name: BULL52
Descrip: 52 FT BULLNOSE

Cell Name: BULL58
Descrip: 58 FT BULLNOSE
Cell Name: CRT15  
Descrip: 15.92 FT RADIUS CRT

Cell Name: CRT19  
Descrip: 19.89 FT RADIUS CRT

Cell Name: CRT27  
Descrip: 27.85 FT RADIUS CRT

Cell Name: CRT35  
Descrip: 35.81 FT RADIUS CRT

Cell Name: CRTDT  
Descrip: CRT POST DETAILS

- 2'-0''
- 1'-9''
- 2'-4''
- 1'-4''
- 31/2'' D
- 3:1 OR FLATTER
- 10:1 OR FLATTER
- 7''
- 6''
- 6'-0'' CRT WOOD POST
  - MODIFIED AS SHOWN AND
  - PRESERVATIVE TREATED
  - AFTER DRILLING

- 1'' OR FLATTER
- 31/2'' DIA. HOLE
- CENTERED IN POST

- 6'' x 6'' x 4'-0'' CRT WOOD POST
  - MODIFIED AS SHOWN AND
  - PRESERVATIVE TREATED
  - AFTER DRILLING

Cell Name: EAA  
Descrip: END ANCHOR ASSEMBLY

Cell Name: ET2000  
Descrip: SYRO END TREATMENT

Cell Name: FLQD4S  
Descrip: FLARE QUAD 4 SECTION
Cell Name: FLQD6S
Descrip: FLARE QUAD 6 SECTION

Cell Name: FLQD8S
Descrip: FLARE QUAD 8 SECTION

Cell Name: GLEG
Descrip: GUARDRAIL LEGEND

**LEGEND**

- **A** BRIDGE APPROACH SECTION (25'-0'')
- **B** R=190.92' (TABLE "E")
- **C** END TREATMENT, TYPE II (37'-6'')
- **D** SURFACING UNDER GUARDRAIL
- **E** 25'-0'' NESTED GUARDRAIL (50'-0'' PAY LENGTH)

- - GRADING LINE

Cell Name: IB35
Descrip: INERTIAL BARRIER FOR 35 MPH

Cell Name: IB40
Descrip: INERTIAL BARRIER FOR 40 MPH

Cell Name: IB45
Descrip: INERTIAL BARRIER FOR 45 MPH

Cell Name: IB50
Descrip: INERTIAL BARRIER FOR 50 MPH

Cell Name: IB55
Descrip: INERTIAL BARRIER FOR 55 MPH
Cell Library: guard.cel

Cell Name: IB60
Descrip: INERTIAL BARRIER FOR 60 MPH

Cell Name: IB65
Descrip: INERTIAL BARRIER FOR 65 MPH

Cell Name: IB70
Descrip: INERTIAL BARRIER FOR 70 MPH

Cell Name: IB75
Descrip: INERTIAL BARRIER FOR 75 MPH

Cell Name: MELT
Descrip: MELT END TREATMENT

Cell Name: PIER
Descrip: PIER PROTECTION

Cell Name: POST
Descrip: 6 INCH X 8 INCH POST

Cell Name: QD24BY
Descrip: 24 IN QUADBAY SECTION
Cell Name: QD24CN
Descrip: 24 IN QUAD CONNECTION

Cell Name: QD24NS
Descrip: 24 IN QUADNOSE ISEC

Cell Name: QD24OC
Descrip: 24 IN QUAD OFFSET CONNECTION

Cell Name: QD36BY
Descrip: 36 IN QUADBAY SECTION

Cell Name: QD36CN
Descrip: 36 IN QUAD CONNECTION

Cell Name: QD36NS
Descrip: 36 IN QUADNOSE SECTION

Cell Name: QD36OC
Descrip: 36 IN QUAD OFFSET CONNECTION

Cell Name: RC1.5Y
Descrip: Y 1.5 REVERSED CURVE CHART

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<td>2.0</td>
<td>2.0</td>
</tr>
</tbody>
</table>

R = 833.08' ARC = 50.0' Y = 1.5'
Cell Name: RVCVDT
Descrip: REVERSED CURVE DETAIL

Cell Name: SRT350
Descrip: SLOTTED RAIL 350

Cell Name: SRT75
Descrip: SLOTTED RAIL 75

Cell Name: TAS
Descrip: TERMINAL ANCHOR SECTION

Cell Name: Y1.0
Descrip: Y 1.0 REVERSED CURVE SECTION

Cell Name: Y1.5
Descrip: Y 1.5 REVERSED CURVE SECTION

Cell Name: Y2.0
Descrip: Y 2.0 REVERSED CURVE SECTION

Cell Name: Y2.5
Descrip: Y 2.5 REVERSED CURVE SECTION
<table>
<thead>
<tr>
<th>Cell Name: Y3.0</th>
<th>Cell Name: Y3.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Descrip: Y 3.0 REVERSED CURVE SECTION</td>
<td>Descrip: Y 3.5 REVERSED CURVE SECTION</td>
</tr>
<tr>
<td><img src="image1.png" alt="Diagram of Y3.0" /></td>
<td><img src="image2.png" alt="Diagram of Y3.5" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cell Name: Y4.0</th>
<th>Cell Name: Y4.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Descrip: Y 4.0 REVERSED CURVE SECTION</td>
<td>Descrip: Y 4.5 REVERSED CURVE SECTION</td>
</tr>
<tr>
<td><img src="image3.png" alt="Diagram of Y4.0" /></td>
<td><img src="image4.png" alt="Diagram of Y4.5" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cell Name: Y5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Descrip: Y 5.0 REVERSED CURVE SECTION</td>
</tr>
<tr>
<td><img src="image5.png" alt="Diagram of Y5.0" /></td>
</tr>
</tbody>
</table>
Cell Library: light.cel

Cell Name: LUY
Descrip: YOKE MOUNTED LIGHT UNIT

Cell Name: PB
Descrip: PULL BOX

Cell Name: PMT
Descrip: PAD MOUNTED TRANSFORMER

Cell Name: RHMT
Descrip: RELOCATED HIGH MAST UNIT

Cell Name: RLU10
Descrip: RELOCATED 10 FT MAST ARM

Cell Name: RLU12
Descrip: RELOCATED 12 FT MAST ARM

Cell Name: RLU4
Descrip: RELOCATED 4 FT MAST ARM

Cell Name: RLU6
Descrip: RELOCATED 6 FT MAST ARM
Cell Library: light.cel

Cell Name: RLU8
Descrip: RELOCATED 8 FT MAST ARM

Cell Name: SPARE BEND
Descrip: SPARE BEND

Cell Name: TTLU
Descrip: TENON TOP LIGHT UNIT

Cell Name: UDLU
Descrip: UNDERDECK LIGHT UNIT

Cell Name: UPLU
Descrip: UNDERPASS LIGHT UNIT

Cell Name: UREIN
Descrip: UNIT TO BE REMOVED AND REINSTALLED

Cell Name: UREL
Descrip: UNIT TO BE RELOCATED

Cell Name: UREM
Descrip: UNIT TO BE REMOVED
NAME OF LIBRARY = MAST.CEL
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE
Cell Name: DAT1  
Descrip: DATUM INFORMATION NEW PROJECT

DATUM INFORMATION
HORIZONTAL
NAD 83 (1995)  
D.A.F. =

DATUM INFORMATION
VERTICAL
NAVD 88

Cell Name: DAT2  
Descrip: DATUM INFORMATION OLD PROJECT

DATUM INFORMATION
HORIZONTAL
NAD 27
D.A.F. =

DATUM INFORMATION
VERTICAL
NGVD 29

Cell Name: DE  
Descrip: DATUM ELEVATION TEXT

Datum Elev. = __.00 ft Above Sea Level U.S.C.& G.S.
B.M. #1 S.F.P. By Power Pole
Sta. 0+00 Elev. = 0000.00

Cell Name: DIKE  
Descrip: INTERCEPTING DIKE TYPICAL

Typical Section of Intercepting Dike

Cell Name: EDIKE  
Descrip: EARTH DIKE TYPICAL

Typical Section of Earth Dike

Cell Name: EDR15  
Descrip: 15 FT RADIUS EARTH DRIVE

Cell Name: EDR25  
Descrip: 25 FT RADIUS EARTH DRIVE

Cell Name: ENDPRO  
Descrip: END PROJECT NOTE

Sta. ___+___
End Project
End Construction
Cell Name: G2L
Descrip: GUIDE FOR 2L SHEET

Cell Name: G2U
Descrip: GUIDE FOR 2U SHEET

Cell Name: GEOINF
Descrip: CURVE DATA
P.I. * STA. *
\[ \Delta = * \]
D = *
T = *'
L = *'
R = *'
P.C. * STA. *
P.T. * STA. *

Cell Name: GPKI
Descrip: GEOPAK LIMITS CIRCLE

Cell Name: GPK2
Descrip: GEOPAK DITCH ARROW

Cell Name: GPP
Descrip: GUIDE FOR PLAN AND PROFILE SHEET

Cell Name: GRL
Descrip: GRADE LINE LEFT

Cell Name: GRLL
Descrip: GRADE LINE LONG LEFT
Cell Name: OSS
Descrip: OVERHEAD SIGN SUPPORT

Cell Name: PC
Descrip: PC OR PT SYMBOL

Cell Name: PI
Descrip: PI SYMBOL

Cell Name: PNF
Descrip: PLAN NOT FINAL STAMP

PRELIMINARY PLAN
NOT FINAL - SUBJECT TO CHANGE

Cell Name: REV
Descrip: REVISION CIRCLE

Cell Name: REVNT
Descrip: REVISION NOTE

The Original Sheet was Signed and Dated: mm-dd-yy

Cell Name: RRD
Descrip: RAILROAD DISPLAY LV14

Cell Name: SECLN
Descrip: SECTION LINE
Cell Library: mast.cel

Cell Name: SOLARW
Descrip: SOLID ARROW

Cell Name: SOLCAR
Descrip: SOLID CURVED ARROW

Cell Name: SP
Descrip: TEXT FOR SPECIAL PLAN C

Cell Name: SPRINF
Descrip: SPIRAL CURVE DATA

Cell Name: UTERM
Descrip: TERMINATOR FOR BOXED NOTE

Cell Name: WETLEG
Descrip: WETLANDS LEGEND

Legend:
- Limits of Construction
- Wetlands - Do Not Disturb
- Impacted Wetlands
- Temporary Impacted Wetlands
PLAN DEVELOPMENT UNIT PATTERN

JUNE 2007

NAME OF LIBRARY = PDUPAT.CEL
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE
Cell Name: DORRIP
Descrip: NOOR RIPRAP PATTERN

Cell Name: EARTH
Descrip: EARTH AREA PATTERN

Cell Name: HONEY
Descrip: HONEYCOMB AREA PATTERN

Cell Name: LEGFEN
Descrip: LEGEND FOR FENCING

LEGEND

- - - - - LONGITUDINAL JOINT
------------------ CONTRACTION JOINT
------------- COMPRESSION JOINT
------------- CONSTRUCTION JOINT

FOR DETAILS NOT SHOWN SEE PLAN 329-R_.

Cell Name: LEGJOINT
Descrip: LEGEND FOR JOINTS

Cell Name: LEGPZCON
Descrip: LEGEND FOR PHASING CONSTRUCTION

LEGEND

GRADING
BUILD TEMPORARY PAVEMENT
COMPLETED TEMPORARY PAVEMENT
BUILD CRUSHED ROCK EMBEDMENT
COMPLETED CRUSHED ROCK EMBEDMENT
BUILD CONCRETE PAVEMENT/ BRIDGE
COMPLETED CONCRETE PAVEMENT/ BRIDGE

TRAFFIC FLOW
INERTIAL BARRIER
CONCRETE BARRIER

Cell Name: LEGPZREM
Descrip: LEGEND FOR PHASING REMOVAL

Cell Name: PZCIRC
Descrip: CIRCLE PATTERN FOR PHASING

LEGEND

COLD MILLING, CLASS 4 TYPE A
COLD MILLING, CLASS 4 TYPE B, & CRUSH CONCRETE PAVEMENT
CRUSH CONCRETE PAVEMENT
<table>
<thead>
<tr>
<th>Cell Name: PZLINE</th>
<th>Descrip: LINE PATTERN FOR PHASING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Name: PZPLUS</td>
<td>Descrip: PLUS SYMBOL FOR PHASING</td>
</tr>
</tbody>
</table>

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+ + +
+ + +
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NAME OF LIBRARY  = PRELIM.CEL
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE
Cell Library: prelim.cel

Cell Name: BM
Descrip: BENCH MARK

Cell Name: CEN
Descrip: CENTER OF PHOTO

Cell Name: CODE
Descrip: PHOTO CODE POINT

Cell Name: CONPT
Descrip: CONTROL POINT

Cell Name: GA
Descrip: GUY ANCHOR TERMINATOR

Cell Name: GASM
Descrip: GAS METER

Cell Name: GASP
Descrip: GASOLINE PUMP

Cell Name: GASV
Descrip: GAS VALVE
Cell Name: GASVE
Descrip: GAS VENT

Cell Name: GFP
Descrip: GASOLINE FILL PIPE

Cell Name: GP
Descrip: GUARD POST

Cell Name: GT
Descrip: GRID TICK

Cell Name: GYP
Descrip: GUY POLE

Cell Name: HARN
Descrip: HARN POINT

Cell Name: HMT
Descrip: HIGH MAST TOWER

Cell Name: HYD
Descrip: FIRE HYDRANT
Cell Library: prelim.cel

<table>
<thead>
<tr>
<th>Cell Name: TBOX</th>
<th>Descrip: TELEPHONE BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Cell Name: TC1</th>
<th>Descrip: TREE CONIFEROUS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cell Name: TC2</th>
<th>Descrip: TREE CONIFEROUS PAY ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cell Name: TC3</th>
<th>Descrip: SHRUB CONIFEROUS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cell Name: TD1</th>
<th>Descrip: TREE DECIDUOUS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cell Name: TD2</th>
<th>Descrip: TREE DECIDUOUS PAY ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cell Name: TD3</th>
<th>Descrip: SHRUB DECIDUOUS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cell Name: TFS</th>
<th>Descrip: TRAFFIC SIGNAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Cell Name: ZSPOT
Descrip: SPOT ELEVATION
TURNING TEMPLATE

JUNE 2007

NAME OF LIBRARY = TURN.CEL
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE
Cell Name: 75R150
Descrip: WB50 R 75  150  TURN

Cell Name: 75R180
Descrip: WB50 R 75  180  TURN

Cell Name: 75R30
Descrip: WB50 R 75  30  TURN

Cell Name: 75R60
Descrip: WB50 R 75  60  TURN

Cell Name: 75R90
Descrip: WB50 R 75  90  TURN

Cell Name: 75WB50
Descrip: WB50 R 75  ALL TURNS

Cell Name: P
Descrip: PASSENGER  ALL TURNS

Cell Name: SU
Descrip: SINGLE UNIT  ALL TURNS
NAME OF LIBRARY = TYPICAL.CEL
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE
Cell Library: typical.cel

Cell Name: 32BAR
Descrip: 32 INCH BARRIER

Cell Name: 3ASCRB
Descrip: 3 INCH ASPH CURB

Cell Name: 42BAR
Descrip: 42 INCH BARRIER

Cell Name: 4ASCRB
Descrip: 4 INCH ASPH CURB

Cell Name: 4INCRB
Descrip: 4 INCH CURB

Cell Name: 6ASCRB
Descrip: 6 INCH ASPH CURB

Cell Name: ASPH3
Descrip: 3 INCH ASPH CURB DETAIL

Cell Name: ASPH4
Descrip: 4 INCH ASPH CURB DETAIL
CURB TAPER DETAIL

FILL WITH JOINT SEALANT (HOT POURED)

3" MAXIMUM SQUEEGEE WIDTH CENTERED ON JOINT

DETAIL "A"

FILL WITH JOINT SEALANT (HOT POURED)

CELL NAME: CURB2
Descrip: CONCRETE CURB TYPE 2

CELL NAME: DETLA
Descrip: DETAIL A

CELL NAME: DITCH1
Descrip: DR1 AND DR2 DITCH SECTION

CELL NAME: DITCH2
Descrip: DR3 THRU 7 DITCH SECTION

CELL NAME: FEATH
Descrip: FEATHER DETAIL

CELL NAME: INCURB
Descrip: INTEGRAL CURB

FEATHER

STATION "A"

STATION "B"
FOR INFORMATION ONLY

THE ESTIMATED QUANTITIES SHOWN FOR ASPHALTIC CONCRETE, TYPE "...," INCLUDE ADDITIONAL TONNAGE FOR CORRECTING CURVE SUPERELEVATIONS AS SHOWN BELOW:

<table>
<thead>
<tr>
<th>STATION TO STATION</th>
<th>ASPHALTIC CONCRETE, TONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;A&quot; - &quot;B&quot;</td>
<td>4</td>
</tr>
</tbody>
</table>

EXISTING BITUMINOUS TO BE REMOVED INLAY DETAIL

STATION "A" STATION "B"

LEGEND

1. **"** CONCRETE PAVEMENT
2. SUBGRADE PREPARATION
3. FOUNDATION COURSE (REGULAR)
4. SHOULDER CONSTRUCTION
5. **"** INTEGRAL CURB
6. LONGITUDINAL JOINT

* THIS MATERIAL TO BE REMOVED BY THE SURFACING CONTRACTOR AND INCORPORATED INTO THE SHOULDERS.
NOTE: "TEMPLATE CORRECTION TONNAGE"

ONE-HALF INCH THICKNESS OF ADDITIONAL ASPHALTIC CONCRETE IS INCLUDED IN THE PLAN QUANTITY FOR THE LOWER LAYER.

THE ENGINEER WILL DIRECT THE CONTRACTOR TO ADJUST THE PLACEMENT RATE TO UTILIZE THE PLAN QUANTITY.
DETAIL OF TIE BAR

EXISTING SLAB

9''

1/2''

No. 5 x 18'' TIE BARS AT 48'' CENTERS TO BE DRILLED AND GROUTED INTO EXISTING SLAB.

LONGITUDINAL JOINT WITH JOINT SEALANT (NOT Poured) INTO EXISTING SLAB.

DETAIL OF TIE BAR