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A03 - Intercepting Dike
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A23 - Erosion Checks
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A25 - Temporary Silt Checks
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A27 - Erosion Control
A28 - Erosion Control Soil Grid Confinement System
A29 - Temporary Erosion Control
A30 - Slope Protection Netting
A31 - Area Inlet Sediment Filter
A32 - Inlet Liner
SECTION A  GENERAL NOTES

INFORMATION ONLY

COMMON OMISSION:
On the Plan & Profile Sheet, show the profile for the Bridge Rail & below bridge for:
the existing channel
the new embankment
the new grading

Include the boxed note “BRGR” on the Plan & Profile Sheets when embankment is detailed on the Bridge Plans.

2-N Sheet: Add “Curb Inlet Detail” if there are curb inlets on the project.

2-T Sheet: Add “Concrete Pavement Repair Details” if applicable.

Include the boxed note “DNSL” on any Plan or Plan & Profile Sheets when 2-L Sheets are covering an area in more detail.

Include the boxed note “DNSN” on any Plan or Plan & Profile Sheets when more information or a sketch is located on the 2-N (General Info.) Sheet.

If a Temporary Road is visible on a Mainline Plan & Profile Sheet, and it has its own Plan & Profile Sheet, include the boxed note “DNST”.

If an Intersecting or Adjacent Highway is visible on a Mainline Plan & Profile Sheet, and it has its own Plan & Profile Sheet, include the boxed note “DNSH”.

If an Intersecting or Adjacent County Road is visible on a Mainline Plan & Profile Sheet, and it has its own Plan & Profile Sheet, include the boxed note “DNSC”.

NOTE: When modifying any of these “DNS” notes, do not change the width of the box, instead, add another line of text and adjust the height of the box.

Where new pavement becomes contiguous with existing pavement, it is not necessary to note on the plans: “Match Existing Grades”.

ALIGNMENT INFORMATION ONLY

Any change in direction with a deflection angle of 1° or greater will require a horizontal curve.

For small deflection angles, curves should be long enough to avoid the appearances of kinks and should be at least 500 ft. long. The degree of curvature should not be less than 0° 15’.

All horizontal curves of 0° 30’ or greater requires a superelevation.

Current NDOR policy requires a 14 ft. width (2 ft. pavement widening) for inside lane of horizontal curves if:
- The degree of curvature is greater than 3°;
- The operating speed is 45 mph or greater;
- The roadway does not have surfaced shoulders;
- Projected average daily truck traffic is more than 50 per day.

For Details of Grading Section at Bridge Site, see Special Plan #.

Place Horizontally on Plan Portion of Plan & Profile Sheet.

For Details not shown see Sheet 2-L

Place Horizontally on Profile Portion of Plan & Profile Sheet.

For Details not shown see Sheet 2-N

Place Horizontally on Plan Portion of Sheet.

For Details not shown see Temporary Road Plan & Profile Sheet

Place Horizontally on Plan Portion of Plan & Profile Sheet.

For Details not shown see County Road Plan & Profile Sheet

Place Horizontally on Plan Portion of Plan & Profile Sheet.

For Details not shown see County Road Plan & Profile Sheet

Place Horizontally on Plan Portion of Plan & Profile Sheet.

For Details not shown see Highway __ Plan & Profile Sheet

Place Horizontally on Plan Portion of Plan & Profile Sheet.

Information for all stationed Horizontal Alignments are shown on Sheet 2-H.

Place Horizontally on Plan Portion of Plan & Profile Sheet.

STA. _____ TO STA. _____ ON RT.
DO NOT DISTURB TREES.

Place Horizontally on Plan Portion of Plan & Profile Sheet.
SECTION A  
GENERAL NOTES

INFORMATION ONLY

Inform Drafting if a sketch will be required on the 2-T Sheet showing a longitudinal section of the highway at the R.R. X-ing. It may be req’d to show Pavement Haunches if Concrete is less than 11” (Asphalt projects do not require a sketch). See Standard Detail 8350 5 E 01 for an example.

Sta. ___+__
The Existing R.R. Tracks are to Be Raised ___' By Others.

Sta. ___+__
The Existing R.R. Tracks are to Be Lowered ___' By Others.

Sta. ___+__ to
Sta. ___+__ Rt.
Build Intercepting Dike, as Shown by Sketch on Sheet 2-N.

Sta. ___+__
Build Earth Dike to Elev. ______, as Shown by Sketch on Sheet 2-N.

Sta. ___+__ to
Sta. ___+__ Lt.
Build ___ Lin. Ft. of ___' Chain Link Fence. Plan 710-R_.

Sta. ___+__ to
Sta. ___+__ Lt.
Build Highway Delineators, Type __. S=___'; __-Each & Install ___-Chevrons. Plan 901-R_.

Sta. ___+__ to
Sta. ___+__ Rt.
Build Flexible Post Delineators S=___', ___-Each. Plan 901-R_ and Special Plan _C.

DIKE TYPICAL SECTION DETAILS

For an "Earth Dike" use the "edike" cell.
For an Intercepting Dike use the "dike" cell.
Both cells are found in the mast.sel cell library.

Refer to Standard Detail 1920 5 E "Design of Intercepting Dike".

Sheet 2-N is a General Information Sheet. (Shows Legend for Survey Symbols, Standard Notes, Sketches, Etc.)

An Intercepting Dike parallels the roadway and an Earth Dike is transverse to a ditch.

Refer to Standard Plan 901-R_, for spacing and locations of chevrons and delineators.

Normally, Delineators and Chevrons will not be required on curves of less than 1".

Sheets 2-N is a General Information Sheet. (Shows Legend for Survey Symbols, Standard Notes, Sketches, Etc.)
SECTION A  GENERAL NOTES

INFORMATION ONLY

Add the Type of Rock Riprap to the note. See Chart below & the English Specification Book.

PATTERN NAME: DORRIP
PATTERN SCALE = 1
AA = 0
WT = 0
LEVEL = 29
CO = 73
ST = 3
WT = 2

Broken Concrete Riprap does not have a type.

Note A09: Edit to read Station to Station and Side when used longitudinally along roadway, NOT at pipe ends.

Note A10: Use this note when Existing Riprap material is being removed and replaced. Applies to both Rock Riprap and Broken Concrete Riprap. Removal Note is NOT Required.

ROCK RIPRAP
GRADATION REQUIREMENTS

<table>
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<tr>
<th>Size of Rock</th>
<th>Percent of Total Weight Smaller than the Given Size</th>
<th>Standard Item Number</th>
<th>Standard Reference Number</th>
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<td>50</td>
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<td>Not to exceed 10</td>
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Note A13: (Asphaltic Concrete Island Nose) the Pay Item is "EACH". (___ Lin. Ft is for Info. to build)

It is not necessary to show Sq. Yds. (Asphalt is paid for by the 'TON')

If for some reason, a Sq. Yd. quantity is included in the note, the note will need a "For Information Only" Label

Sta. ___+__
Build __ Tons Rock Riprap, Type __, as Shown by Sketch on Sheet 2-N.

Sta. ___+__
Build ___ Tons Broken Concrete Riprap, as Shown by Sketch on Sheet 2-N.

Sta. ___+__
Place ___ Tons Riprap, as Shown by Sketch on Sheet 2-N.

Sta. ___+__ to
Sta. ___+__
Build _____ Lin. Ft. of Asphaltic Concrete Curb, as Shown by Sketch on Sheet 2-T.

Sta. ___+__ to
Sta. ___+__
Build _____ Lin. Ft. of Asphaltic Concrete Island Curb. See Sheet 2-T.

Sta. ___+__ to
Sta. ___+__
Build ______' of Asphaltic Concrete Island Nose.
L= ___. See Sheet 2-T.

Sta. ___+__ to
Sta. ___+__
Build Asphaltic Concrete Median Surfacing.
See Sheet 2-T.
### EROSION CONTROL INFORMATION

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<td>Phased Construction</td>
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**ABBREVIATIONS:**
- HV = High Velocity
- ST = Silt Trap
Generally Silt Fence only needs to be shown on the plans when protecting Wetlands, a Golf Course, Park Grounds or if located in an Urban area.

Unique situations, as determined by the NDOR Agronomist, may dictate that the Silt fence be shown on the plans.

Typically, for Rural Projects, Erosion Control Tabular Notes placed on the the 2-N Sheet will be sufficient.

Standard Plan 502 "Silt Fence Details"

<table>
<thead>
<tr>
<th>Fabric Silt Fence</th>
<th>Station</th>
<th>Rt.</th>
<th>Build</th>
<th>Plan</th>
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<tbody>
<tr>
<td>A16</td>
<td>Sta. _<strong>+</strong> to Sta. _<strong>+</strong> Rt. Build ___ Lin. Ft. of Fabric Silt Fence-High Porosity. Plan 502</td>
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<tr>
<td>A17</td>
<td>Sta. _<strong>+</strong> to Sta. _<strong>+</strong> Rt. Build ___ Lin. Ft. of Fabric Silt Fence, Type &quot;Coir Fiber&quot;. Plan 502</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>A18</td>
<td>Sta. _<strong>+</strong> to Sta. _<strong>+</strong> Rt. Build ___ Lin. Ft. of Fabric Silt Fence-Low Porosity. Plan 502</td>
<td></td>
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</tr>
<tr>
<td>A19</td>
<td>Sta. _<strong>+</strong> to Sta. _<strong>+</strong> Rt. Build ___ Lin. Ft. of Fabric Silt Fence-Low Profile High Porosity. Plan 502</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION A GENERAL NOTES

INFORMATION ONLY

CELL NAME

STANDARD PLAN 502
"SILT FENCE DETAILS"

FABRIC SILT FENCE

A20 Sta. ___+__ to
Sta. ___+__ Rt.
Build ___ Lin. Ft. of Fabric
Silt Fence-Low Profile Low Porosity. Plan 502

A21 Sta. ___+__ to
Sta. ___+__ Rt.
Build ___ Lin. Ft. of Fabric
Silt Fence-High Porosity,
Type "ST". Plan 502

A22 Sta. ___+__ to
Sta. ___+__ Rt.
Build ___ Lin. Ft. of Fabric
Silt Fence-Low Porosity,
Type "ST". Plan 502

EROSION CHECKS

A23 Sta. ___+__ to
Sta. ___+__ Rt.
Build Erosion Checks,
Type __. Spacing = __',
__-Bales Each, w/__-Bales
Total. Special Plan _C.

A24 Sta. ___+__ to
Sta. ___+__ Rt.
Build ___ Lin. Ft. of Fabric
Silt Checks. Special Plan _C.
SECTION A  GENERAL NOTES

INFORMATION ONLY

Sta. ___+__ to
Sta. ___+__ Rt.
Build __ Lin. Ft. of
Temporary Silt Checks.
Special Plan _C_.

EROSION CONTROL

Sta. ___+__ to
Sta. ___+__ Rt.
Build __ Sq. Yds. of Erosion
Control, Type "__".
(__' Width). Plan 501-R_.

Sta. ___+__ to
Sta. ___+__ Rt.
Build __ Sq. Yds. of Erosion
Control. (__' Width). Plan 501-R_.

Sta. ___+__ to
Sta. ___+__ Rt.
Build __ Sq. Yds. of Erosion
Control, Soil Grid Confinement
System (__" Depth/__' Width).

Sta. ___+__ to
Sta. ___+__ Rt.
Build __ Sq. Yds. of
Temporary Erosion Control.
(__' Width). Plan 501-R_.
Standard Plan 501-R_
"Erosion Control"

Detail furnished by Mfg. Contractor.

Standard Detail 5480 5
"Inlet Liner Details"

A30  Sta. ___+__ to
     Sta. ___+__ Rt.
     Build ___ Sq. Yds. of
     Slope Protection Netting.
     (___' Width). Plan 501-R_

A31  Sta. ___+__ Rt.
     Build Area Inlet Sediment
     Filter.

A32  Sta. ___+__ Rt.
     Build Inlet Liner.
     See Sketch on Sheet 2-N.
SECTION B  GUARDRAIL NOTES  SHEET NO. 1-B

GUARDRAIL NOTES SHEET INDEX

SHEET 1-B  GUARDRAIL NOTES SHEET INDEX

SHEET 2-B  GUARDRAIL NOTES LIST

SHEET 3-B  B01 - W-Beam and Thrie-Beam Guardrail
            B02 - W-Beam Guardrail
            B03 - Safety Beam Guardrail

SHEET 4-B  B04 - Crash Cushion Attenuating Terminal
            B05 - Install Impact Attenuator
            B06 - Build Impact Attenuator
            B07 - Inertial Barriers
            B08 - Reset Guardrail
            B09 - Remove and Salvage Guardrail (Sta. to Sta.)
            B10 - Remove and Salvage Guardrail (Sta.)

SHEET 5-B  B11 - Cable Guardrail Terminal Anchorage Sections
GUARDRAIL NOTES LIST

B01 - W-Beam and Thrie-Beam Guardrail
B02 - W-Beam Guardrail
B03 - Safety Beam Guardrail
B04 - Crash Cushion Attenuating Terminal
B05 - Install Impact Attenuator
B06 - Build Impact Attenuator
B07 - Inertial Barriers
B08 - Reset Guardrail
B09 - Remove and Salvage Guardrail (Sta. to Sta.)
B10 - Remove and Salvage Guardrail (Sta.)
B11 - Cable Guardrail Terminal Anchorage Sections
SAFETY BEAM GUARDRAIL INFORMATION

If you are describing only one corner of a bridge this note should read Sta. to Sta. (Rt. or Lt.)

Include totals of all Guardrail Items in one note for each bridge. If there is a Guardrail Installation Special Plan, you do not need (Table "*") in the construction note. Tables will be identified on Guardrail Installation Special Plan. In overpass situations, use 1-Guardrail note for the stationed centerline over the bridge and 1-Guardrail note for the stationed centerline that goes under the bridge to protect abutments or piers.

When dealing with "Nested Guardrail", include the additional length in the "Build __ Lin. Ft. of W-Beam Guardrail" note and let the Guardrail Installation Special Plan show the details of the "nesting".

REMODEL BRIDGE CURB note should be addressed with the Bridge note.

If you do not have a Pay Length, the Guardrail note should be written as note B03.

If CONCRETE ANCHOR BLOCKS are required, they should be included with the guardrail note.

Installation of Impact Attenuator System INSTALL - when furnished by the state. BUILD - when furnished by the contractor.

Inertial Barriers (Fitch Barrels) TEMPORARY Installation by Traffic Engineer.

End Treatments for W-Beam Guardrail (Pd, 1-Each)

Guardrail End Treatment, Type I - Used for 65 mph and above for parallel installations or 25:1 Taper Rates. All rectangular heads on the ends of parallel or 25:1 tapers.

ET-2000 (LET or PLUS) - Extruding Terminal

BEST - Beam Eating Safety Terminal

SKT-350 - Sequential Kinking Terminal

Guardrail End Treatment, Type II - Used for 65 mph and lower on 15:1 Taper Rates.

SRT 350 - Curved Slotted Rails

FLEAT - Flared Energy Absorbing Terminal, a tangent (Rectangular Head, Tapered)

SRT 75 - Three short Slots In the Rail

When building a Cable to Safety Beam Guardrail Transition Section, you do not need a special build note. This will show up on the Guardrail Installation Plan.

For more Information refer to the Nebraska Department of Roads’ "Guide to Guardrail Pay Items" document.

SAFETY BEAM GUARDRAIL SPECIAL PLANS

<table>
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<tr>
<th>Plan</th>
<th>Plan Description</th>
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</thead>
<tbody>
<tr>
<td>Special Plan 7040 1</td>
<td>Bridge Approach Section (Includes W-Thrie Beam Transition Section)</td>
</tr>
<tr>
<td>Special Plan 7041 1</td>
<td>W-Thrie Beam Transition Section (Paid for as 1-Ea. when separate from B.A.S.)</td>
</tr>
<tr>
<td>Design Guides 7774 6</td>
<td>Guardrail End Treatment, Type I (ET-2000)</td>
</tr>
<tr>
<td>Design Guides 7775 6</td>
<td>Guardrail End Treatment, Type I (BEST)</td>
</tr>
<tr>
<td>Design Guides 7776 6</td>
<td>Guardrail End Treatment, Type I (SKT-350)</td>
</tr>
<tr>
<td>Design Guides 7777 6</td>
<td>Guardrail End Treatment, Type II (SRT-75)</td>
</tr>
<tr>
<td>Design Guides 7778 6</td>
<td>Guardrail End Treatment, Type II (FLEAT)</td>
</tr>
<tr>
<td>Design Guides 7779 6</td>
<td>Guardrail End Treatment, Type II (SRT-350)</td>
</tr>
<tr>
<td>Special Plan 7071 1</td>
<td>Bull Nose (12.5' Tapered)</td>
</tr>
<tr>
<td>Special Plan 7075 1</td>
<td>Bull Nose W/5 Parallel</td>
</tr>
<tr>
<td>Special Plan 7044 1</td>
<td>Guardrail Location Tables</td>
</tr>
<tr>
<td>Special Plan 7045 1</td>
<td>Guardrail Location Tables</td>
</tr>
<tr>
<td>Special Plan 7045 1</td>
<td>End Anchorage Assemblies</td>
</tr>
<tr>
<td>Special Plan 7771 1</td>
<td>M.I.L. (Used to peripherality only) (Not normally used on State highways)</td>
</tr>
</tbody>
</table>

SECTION B GUARDRAIL NOTES

B01 Sta. ___+__
Build ___ Lin. Ft. of W-Beam Guardrail & ___ Lin. Ft. of Thrie-Beam Guardrail.
Special Plan _C.

B02 Sta. ___+__
Build ___ Lin. Ft. of W-Beam Guardrail.

_Bridge Approach Sections.
_Special Bridge Approach Section.
_Guardrail End Treatment, Type I.
_Guardrail End Treatment, Type II.
_Bullnose End Treatment (Tapered)
_Bullnose End Treatment (Parallel)
_W-Thrie Beam Transition Section.

B03 Sta. ___+__
Build Safety Beam Guardrail.

_Bridge Approach Sections.
_Guardrail End Treatment, Type I.
_Guardrail End Treatment, Type II.

Special Plan _C.
SECTION B  GUARDRAIL NOTES

INFORMATION ONLY

Installation of Impact Attenuator System
INSTALL - when furnished by the state.
BUILD - when furnished by the contractor.

Inertial Barriers (Fitch Barrels) TEMPORARY
Installation by Traffic Engineer.

CRASH CUSHION ATTENUATING TERMINAL
SYRO-CRASH-CUSHION ATTENUATING TERMINAL
SENTRE-CRASH-CUSHION ATTENUATING TERMINAL

IMPACT ATTENUATORS
QUADGUARD
TRACC
REACT 350

INERTIAL BARRIERS
Fitch Barrels - See Examples In Drafting Room.
Refer to Fitch Barrels as "Inertial Barrier".

"Temporary Inertial Barrier" Does not need a note as it will be handled on plans from TRAFFIC ENGINEERING.

Two notes are required for Remove and Reset Guardrail:
1-Note to Remove & Salvage Guardrail, and
1-Note to Reset Guardrail.

To reset Guardrail, the stationing includes the End Sections, if reusing the existing T.A.S.

If you are going to "Salvage" Guardrail, do so for the entire installation, not just part of the Installation.

Guardrail Lengths must be the same to combine in one note, otherwise you need separate notes.

RESETTING CABLE GUARDRAIL ONLY

Regarding the Standard Plan that was used to build the existing installation:
The old Standard Plan No. must be blocked out and made into a Special Plan _C with the words 'FOR INFORMATION ONLY' placed above the title.
The Special Plan used to Reset the cable guardrail is our current Cable Guardrail Plan.

"SN25" from the 'std.cel' cell library:
The existing Cable Guardrail was constructed in accordance with the details shown on "For Information Only Special Plan _C". The Contractor shall reset the guardrail in accordance with Standard Plan 702-R.

Additional Guardrail Removal Notes are found in the Removal Note Sections:
H13 - Remove Guardrail (Station)
H14 - Remove Guardrail (Station to Station)
H15 - Remove Guard Posts

B04 Sta. ___+__
Install ___ Crash Cushion Attenuating Terminal.
Special Plan _C.

B05 Sta. ___+__
Install ___ Impact Attenuators.
Special Plan _C.

B06 Sta. ___+__
Build ___ Impact Attenuators.
Special Plan _C.

B07 Sta. ___+__
Build Inertial Barriers.
Special Plan _C.

B08 Sta. ___+__ to
Sta. ___+__ Lt.
Reset ___ Lin. Ft. of Guardrail. Special Plan _C.
(Includes ___ Terminal Anchorage Sections).

B09 Sta. ___+__ to
Sta. ___+__ Lt.
Remove and Salvage ___ Lin. Ft.
of Guardrail.

B10 Sta. ___+__
Remove and Salvage ___ Lin. Ft.
of Guardrail.
INTERMEDIATE ANCHORAGE SECTION

Intermediate Anchorage Section is required when pay length is over 2000 Lin. Ft.

When building Guardrail Sta. to Sta., the length will not include the Terminal Anchorage Sections.

B11  Sta. ___+__ to
     Sta. ___+__ Lt.
     Build __ Lin. Ft. of
     Cable Guardrail. _-Terminal
     Anchorage Sections.
     _-Intermediate Anchorage
     Section.  Special Plan _C.
PPE01 - Build Culvert Pipe, Type 2, Class "," Class "," Bedding (Railroad)
PPE02 - Build Culvert Pipe, Type 2, Jacked (Railroad)
PPE03 - Build Culvert Pipe w/F.E.S.'s
PPE04 - Build Culvert Pipe w/F.E.S. on Inlet & Outlet In Conc. Box Culv.
PPE05 - Build Jacked Culvert Pipe, Type 1 or 2, Class ","
PPE06 - Build Culvert Pipe as Median Structure
PPE07 - Remove Bridge & Build Culvert Pipe
PPE08 - Build Culvert Pipe w/F.E.S. on Inlet & Outlet In Exist. C.B.C. (Tap)
PPE09 - Build Culvert Pipe w/Headwall & w/Overhang
PPE10 - Build Culvert Pipe w/Headwall & w/Splash Basin
PPE11 - Build Round Equivalent Culvert Pipe w/F.E.S.
PPE12 - Build Round Equivalent Culvert Pipe w/Headwalls
PPE13 - Build Culvert Pipe & Headwalls
PPE14 - Build Twin Culvert Pipe & Headwalls
PPE15 - Build Twin Culvert Pipe w/Flared End Sections
PPE16 - Build Twin Culvert Pipe on Skew & Headwalls
PPE17 - Remove R.C.P. & Build Culvert Pipe w/F.E.S.'s
PPE18 - Build Culvert Pipe w/F.E.S.'s & Bar Grate
PPE19 - Build Culvert Pipe w/F.E.S. on Inlet & Outlet In Stubout
PPE20 - Build Culvert Pipe w/F.E.S.'s and Build Culvert Pipe as Stubout
PPE21 - Build Culvert Pipe for Median Structure w/F.E.S., Bar Grate & Stubout
PPE22 - Build Culvert Pipe as Irrigation Structure
PPE23 - Build Concrete Flume Type "," w/Culvert Pipe
PPE24 - Lay Driveway Culvert Pipe & Build Earth Drive
PPE25 - Lay Driveway Culvert Pipe & Build Earth Drive & Surface.
    See Sheet 2-S
PPE26 - Build Culvert Pipe for Crossover
PPE27 - Install Twin Culvert Pipe for Temporary Road
PPE28 - Build Twin Culvert Pipe for Temporary Road
PPE29 - Build Culvert Pipe & Extend w/Temp. Culvert Pipe
PPE30 - Build Round Equivalent Storm Sewer Pipe
PPE31 - Build Storm Sewer Pipe
PPE32 - Build Sanitary Sewer Pipe

CULVERT PIPE LEGEND
PPE01 - Build Culvert Pipe, Type 2, Class "_", Class "_", Bedding
PPE02 - Build Culvert Pipe, Type 2, Jacked
PPE03 - Build Culvert Pipe w/F.E.S.'s
PPE04 - Build Culvert Pipe w/F.E.S.'s on Inlet & Outlet in Conc. Box Culv.
PPE05 - Build Jacked Culvert Pipe, Type 1 or 2, Class "_"
PPE06 - Build Culvert Pipe as Median Structure
PPE07 - Remove Bridge & Build Culvert Pipe
PPE08 - Build Culvert Pipe w/F.E.S.'s on Inlet & Outlet in Exist. C.B.C. (Tap)
PPE09 - Build Culvert Pipe w/Headwall & w/Overhang
PPE10 - Build Culvert Pipe w/Headwall & w/Splash Basin
PPE11 - Build Round Equivalent Culvert Pipe w/F.E.S.
PPE12 - Build Round Equivalent Culvert Pipe w/Headwalls
PPE13 - Build Culvert Pipe & Headwalls
PPE14 - Build Twin Culvert Pipe & Headwalls
PPE15 - Build Twin Culvert Pipe w/Flared End Sections
PPE16 - Build Twin Culvert Pipe on Skew & Headwalls
PPE17 - Remove R.C.P. & Build Culvert Pipe w/F.E.S.'s
PPE18 - Build Culvert Pipe w/F.E.S.'s & Bar Grate
PPE19 - Build Culvert Pipe w/F.E.S.'s on Inlet & Outlet in Stubout
PPE20 - Build Culvert Pipe w/F.E.S.'s and Build Culvert Pipe as Stubout
PPE21 - Build Culvert Pipe for Median Structure w/F.E.S., Bar Grate & Stubout
PPE22 - Build Culvert Pipe as Irrigation Structure
PPE23 - Build Concrete Flume Type "_" w/Culvert Pipe
PPE24 - Lay Driveway Culvert Pipe & Build Earth Drive
PPE25 - Lay Driveway Culvert Pipe & Build Earth Drive & Surface, See Sheet 2-S
PPE26 - Build Culvert Pipe for Crossover
PPE27 - Install Twin Culvert Pipe for Temporary Road
PPE28 - Build Twin Culvert Pipe for Temporary Road
PPE29 - Build Culvert Pipe & Extend w/Temp. Culvert Pipe
PPE30 - Build Round Equivalent Storm Sewer Pipe
PPE31 - Build Storm Sewer Pipe
PPE32 - Build Sanitary Sewer Pipe
SECTION C1  PIPE POLICY NOTES

REQUIRED PIPE LENGTHS UNDER R.R. TRACKS
(Jacking may be required)
R. R. to end of pipe - 15’ Minor Tracks
R. R. to end of Pipe - 25’ Major Tracks

Class IV or Class V Pipe may be required in areas of excessive fill or under R.R. tracks.
Bedding Sketch is required on Culvert X-Sec.

The Culvert Pipe notes are typical and cover several situations. Edit out information that does not apply.

NOTE: Q, D.A. and H.W. required on all crossroad culvert construction notes.
Q - Design Discharge (c.f.s.)
D.A. - Drainage Area in Acres.
H.W. - Design Headwater, depth of flow measured from the flow line of the inlet.

If drainage information cannot be determined, the following note should be used:
Design Discharge (Q) and Drainage Area (D.A.) cannot be determined by office means unless otherwise noted on the plans.

NOTE:
Broken back reference will NOT be made on new pipes.
B.B. - Broken Back
DBL. B.B. - Double Broken Back

A bend on a concrete pipe can be either Vertical or Horizontal. However, DO NOT specify Horizontal or Vertical when calling for an elbow or a collar with a bend.

BOX CULVERTS with Bends or Breaks:
- Bends are horizontal
- Breaks are vertical.
You DO NOT have to call out the ° of Bend or Break on preliminary culvert notes.

RAILROAD CULVERT PIPE

PPE01
Sta. ___+___
DA=___Ac., Q =___cfs, HW=___’
Build ___” x ___’ Culvert Pipe
Pipe, Type 2, Class ___,
Class “_” Bedding w/Flared
End Sections. Plan 410-R_ &
Special Plan _C. Fill= __’.
Exc.=__ Cu. Yds.

Length of Pipe Partially Jacked
Class IV or Class V Pipe may be required in areas of excessive fill or under Railroad Tracks
Designer should review Design Pipe Material Policy Flow Chart for Pipe Type and placement restrictions

CULVERT PIPE

PPE02
Sta. ___+___
Build ___” x ___’ Culvert Pipe
Type 2, (Includes ___’ Jacked
Culvert Pipe, Type 2
Class __). Special Plans _C & _C.
Fill= __’. Exc.=__ Cu. Yds.

NOTE:
Broken back reference will NOT be made on new pipes.

PPE03
Sta. ___+___
DA=___Ac., Q =___cfs, HW=___’
Build ___” x ___’ Culvert Pipe
Type 2, 3, 4, 5, 7 or 8
w/Flared End Sections.
Plan 410-R_ & Special Plan _C.
Fill= __’. Exc.=__ Cu. Yds.

PPE04
Sta. ___+___
DA=___Ac., Q =___cfs, HW=___’
Build ___” x ___’ Culvert Pipe
Type 2, 3, 4, 5, 7 or 8
w/Flared End Section on Inlet
& Outlet in Concrete Box
Culvert, ___° Elbow.
Plans 410-R_, 425-R_ &
Special Plan _C. Fill= __’.
Exc.=__ Cu. Yds.
PPE05

Sta. ___+__
Build __" x __' Jacked
Culvert Pipe, Type 1 or 2
[Class __], Special Plan _C
Fill= __’. Exc.=__ Cu. Yds.

Full Length of Pipe Jacked.
If R.C.P. Class __ is to be Jacked, it must be stated
in the note.

No Excavation Quantity is required for Median
Structures in new embankment.

Structures in existing medians DO require excavation.

If you remove pipe from an 'Existing' Median Structure,
you need to pay for excavation.

Excavation is not to be paid for when installing new Flared
End Sections directly on existing pipes.

PPE06

Sta. ___+__
Build __" x __' Culvert Pipe
Type 2, 3, 4, 5, 7 or 8 as
Median Structure with Flared
End Sections. Plan 410-R_,
& Special Plan _C. Fill= __’.

STA. ___+__
____' SPAN TIMBER BRIDGE
WD. FLOOR, W/__' CLEAR RDWY.
DA=___Ac., O=___cfs, HW=___'
Remove & Build __" x __'
Culvert Pipe, Type 2, 3, 4, 5,
7 or 8 and Headwalls.
----° Elbow. Plan 425-R_,
& Special Plans _C & _C.
Fill= __’. Exc.=_ Cu. Yds.

NOTE:
WHEN USING EXTEND PIPE NOTES, WHEN FILL IS GREATER THAN 10’,
THE NOTE SHOULD INCLUDE:
FILL=__’.

PPE07

Sta. ___+__
DA=___Ac., O=___cfs, HW=___’
Build __" x ___’ Culvert Pipe,
Type 2, 3, 4, 5, 7 or 8 with
Flared End Section on Inlet,
and Outlet in Existing
Conc. Box Culvert. ___-Tap,
---° Elbow. Plans 410-R_,
425-R_, 428-R_ &
Special Plan _C. Fill= __’.
Exc.=_ Cu. Yds.

PPE08

Only pay for a tap if tapping into an existing Inlet,
Culvert or Box Culvert.
SECTION C1 PIPE POLICY NOTES

If you are phasing the construction of a drainage structure, handle on the drainage cross sections, with dimensions, stating Phase 1, Phase 2. DO NOT phase the construction notes in the plans.

Designer should review Design Pipe Material Policy Flow Chart for Pipe Type and placement restrictions.

The Round Equivalent notes are typical and cover several situations. Edit out any Pipe type that does not apply.

If the Headwall Special Plan allows for the construction of different types of Headwalls, the type must be addressed in the note.

**CULVERT PIPE**

**PPE9**
Sta. ___+__
DA= AC, 0 = cfs, HW= '
Build '' x '' Culvert Pipe, Type 2, 3, 4, 5, 7 or 8 and Headwall on Inlet, with Overhang on Outlet, Type ''. Special Plans _C & _C. Fill= '. Exc.= Cu. Yds.

**PPE10**
Sta. ___+__
DA= AC, 0 = cfs, HW= '
Build '' x '' Culvert Pipe, Type 2, 3, 4, 5, 7 or 8 and Headwall on Inlet, _° Elbow, with Splash Basin on Outlet, as Shown by Sketch on Sheet 2-N. Plan 425-R & Special Plan _C & _C. Fill= '. Exc.= Cu. Yds.

**PPE11**
Sta. ___+__
DA= AC, 0 = cfs, HW= '
Build '' x '' Round Equivalent Culvert Pipe, Type 2, 3, 4 or 5 with Flared End Sections. Plan 410-R & Special Plan _C. Fill= '. Exc.= Cu. Yds.

**PPE12**
Sta. ___+__
DA= AC, 0 = cfs, HW= '
Build '' x '' Round Equivalent Culvert Pipe, Type 2, 3, 4 or 5 & Headwalls. Special Plans _C & _C. Fill= '. Exc.= Cu. Yds.
If Headwall Type is required, please note after the word Headwalls.

When describing multiple pipes:
Use the 'word' for the number of pipes, NOT the number. (i.e. Twin, Triple, etc.)

Multiple pipes having flared end sections require a sketch showing the dimensions between the pipes (usually on drainage cross-sections).

PPE13
Sta. ___+__
DA=___Ac., Q=___cfs, HW=__'
Build __" x __" Culvert Pipe, Type 2, 3, 4, 5, 7 or 8 and Headwalls.
Special Plans __C & __C.
Fill= __'. Exc.=__ Cu. Yds.

PPE14
Sta. ___+__
DA=___Ac., Q=___cfs, HW=__'
Build Twin __" x __" Culvert Pipe, Type 2, 3, 4, 5, 7 or 8 and Headwalls.
Special Plans __C & __C.
Fill= __'. Exc.=__ Cu. Yds.

PPE15
Sta. ___+__
DA=___Ac., Q=___cfs, HW=__'
Build Twin __" x __" Culvert Pipe, Type 2, 3, 4, 5, 7 or 8 w/flared end sections. Plan 410-R__ & Special Plan __C.
Fill= __'. Exc.=__ Cu. Yds.

PPE16
Sta. ___+__
DA=___Ac., Q=___cfs, HW=__'
Build Twin __" x __" Culvert Pipe, Type 2, 3, 4, 5, 7 or 8 on __° skew and Headwalls.
Special Plans __C & __C.
Fill= __'. Exc.=__ Cu. Yds.
SECTION C1                PIPE POLICY NOTES             SHEET NO. 7-CI

INFORMATION ONLY            CELL NAME

CULVERT PIPE

PPE17  STA. ___+__
       ____'' x ___' REINF. CONC.
       PIPE W/HDWLS.
       DA=___Ac., Q=___cfs, HW=___'
       Remove & Build ____'' x ___'
       Culvert Pipe, Type 2, 3, 4, 5,
       7 or 8 with Flared End
       Sections. Plan 410-R_, 413-R_ &
       Special Plan _C.
       Fill= __'. Exc.=___ Cu. Yds.

PPE18  Sta. ___+__
       DA=___Ac., Q=___cfs, HW=___'
       Build ____'' x ___ Culvert Pipe,
       Type 2, 3, 4, 5, 7 or 8 with
       Flared End Sections & Build
       Bar Grate on Inlet. Plans
       410-R_, 413-R_ & Special
       Plan _C. Fill= __'.
       Exc.=___ Cu. Yds.

PPE19  Sta. ___+__ Lt. to
       Sta. ___+__ Lt.
       Build ____'' x ___ Culvert Pipe,
       Type 2, 3, 4, 5, 7 or 8 with
       Flared End Section on
       Inlet & Outlet in Stubout,
       ___° Elbow, ___ Concrete
       Collar. Plans 410-R_, 425-R_ &
       Special Plan _C.
       Fill= __'. Exc.=___ Cu. Yds.
CULVERT PIPE FOR FLUMES

PPE20
Sta. _____+__
DA=__Ac., Q=__cfs, HW=__'
Build __" x __' Culvert Pipe,
Type 2, 3, 4, 5, 7 or 8 with
Flared End Sections and
Build __" x __' Culvert Pipe,
Type 2, 3, 4, 5, 7 or 8, as
Stubout. Plan 410-R_ &
Special Plan _C.
Fill= __'. Exc.=__ Cu. Yds.

PPE21
Sta. _____+__
Build __" x __' Culvert Pipe,
Type 2, 3, 4, 5, 7 or 8 for
Median Structure, with Flared
End Section & Build Bar
Crate on Inlet with Outlet in
Stubout, 1-Concrete Collar.
Plans 410-R_ , 413-R_ , 425-R_.
& Special Plan _C. Fill= __'.

PPE22
Sta. _____+__
Build __" x __' Culvert Pipe,
Type 2, 3, 4, 5, 7 or 8 as
Irrigation Structure on
__° Skew w/Siphon Headwalls.
Plan 414 & Special Plan _C.
Fill= __'. Exc.=__ Cu. Yds.

If it is an Irrigation Pipe, it needs to be
stated in the note.

The Culvert Pipe for Flumes need to have
a corrugated interior.
SECTION C1    PIPE POLICY NOTES

INFORMATION ONLY

CELL NAME

CULVERT PIPE FOR RURAL DRIVE

PPE24

Sta. ___+__ Lt.
Lay __" x __' Driveway
Culvert Pipe, Type 2, 3, 4, 5, 6, 7 or 8 & Build Earth Drive
(__' Wide) on ___% Grade.

PPE25

Sta. ___+__ Lt.
Lay __" x __' Driveway
Culvert Pipe, Type 2, 3, 4, 5, 6, 7 or 8 & Build Earth Drive
(__' Wide) on ___% Grade & Surface.
See Sheet 2-S.

CULVERT PIPE FOR CROSSEOVERS

PPE26

Sta. ___+__ to
Sta. ___+__
Build __" x __' Culvert Pipe,
Type 2, 3, 4, 5, 7 or 8.
Special Plan _C. Fill= __'.

CULVERT PIPE FOR TEMPORARY ROADS

PPE27

Sta. ___+__
Install Twin __" x __'
Culvert Pipe, Type 2, 3, 4, 5, 7 or 8. Special Plan _C.
Fill= __'.

PPE28

Sta. ___+__
Build Twin __" x __'
Culvert Pipe, Type 2, 3, 4, 5, 7 or 8. Special Plan _C.
Fill= __'.
<table>
<thead>
<tr>
<th>CELL NAME</th>
<th>CULVERT PIPE FOR SEWERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sta. _<strong>+</strong> Build ___&quot; x ___' Round Equivalent Storm Sewer Pipe, Type 1 with Inlet &amp; Outlet in Curb Inlet. Special Plan _C. Fill= __'.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CELL NAME</th>
<th>CULVERT PIPE FOR TEMPORARY ROADS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sta. _<strong>+</strong> Build ___&quot; x ___' Culvert Pipe, Type 2, 3, 4, 5, 7 or 8, with Flared End Sections, Plan 410-R-. Special Plan _C. Fill= <strong>'. Exc.=</strong> Cu. Yds. (Extend with ___' Temp. Culv. Pipe, Type 2, 3, 4, 5, 7 or 8 on Lt. Special Plan _C. Fill= __').</td>
<td></td>
</tr>
</tbody>
</table>

Pay quantity for new pipe extends to center of new pipe or M.H., Inlet, etc.

Excavation is subsidiary for Sewers, Junction Boxes, Catch Basins, Inlets, Retaining Walls & Steps.

Utility Companies can specify the culvert type required.
### CULVERT PIPE LEGEND

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RCSP Reinforced Concrete Sewer Pipe</td>
</tr>
<tr>
<td>2</td>
<td>RCP Reinforced Concrete Pipe</td>
</tr>
<tr>
<td>3</td>
<td>GCCNP Galvanized (zinc) Coated Corrugated Metal Pipe</td>
</tr>
<tr>
<td>4</td>
<td>ACCNP Aluminum Coated Corrugated Metal Pipe</td>
</tr>
<tr>
<td>5</td>
<td>PCCMP Polymer Coated Corrugated Metal Pipe</td>
</tr>
<tr>
<td>6</td>
<td>HDPE-CI High Density Polyethylene (corrugated Interior)</td>
</tr>
<tr>
<td>7</td>
<td>HDPE-SI High Density Polyethylene (smooth Interior)</td>
</tr>
<tr>
<td>8</td>
<td>PVC Polyvinyl Chloride Pipe</td>
</tr>
</tbody>
</table>

The Culvert Pipe Legend (CPL) is found in the "STD.CEL" cell library.
### SECTION C2  CULVERT NOTES

#### CULVERT NOTES SHEET INDEX

<table>
<thead>
<tr>
<th>SHEET NO.</th>
<th>SHEET INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-C2</td>
<td>GENERAL NOTES SHEET INDEX</td>
</tr>
<tr>
<td>2-C2</td>
<td>GENERAL NOTES LIST</td>
</tr>
<tr>
<td>3-C2</td>
<td>EXAMPLE NOTES FOR PIPE-ARCH OR ELLIPTICAL PIPES</td>
</tr>
<tr>
<td>4-C2</td>
<td>GENERAL INFORMATION</td>
</tr>
</tbody>
</table>

#### SHEET 5-C2
- C01 - Build R.C.P. w/F.E.S.'s
- C02 - Build R.C.P. w/F.E.S. on Inlet & Outlet In Conc. Box Culv.
- C03 - R.C.P. - Remove Headwalls, Build Concrete F.E.S.'s
- C04 - Build R.C.P. - Class "C" Bedding w/Concrete F.E.S.'s

#### SHEET 6-C2
- C05 - Build R.C.P (Includes Jacked R.C.P.)
- C06 - Build Jacked R.C.P.
- C07 - Build R.C.P. As Median Structure
- C08 - Remove Bridge and Build R.C.P.
- C09 - Build Round Equivalent R.C.P.

#### SHEET 7-C2
- C10 - Build R.C.P. w/F.E.S. on Inlet & Outlet In Conc. Box Culv.
- C11 - Extend R.C.P. & Build Concrete F.E.S.
- C12 - C.M. Pipe w/Hdwls. - Remove Headwalls & Extend

#### SHEET 8-C2
- C13 - Build C.M. Pipe w/Headwall on Inlet & Overhang on Outlet
- C14 - Build C.M. Pipe w/Headwall on Inlet & Splash Basin on Outlet
- C15 - Remove C.M. Pipe w/Drop Inlet
- C16 - Build Round Equivalent

#### SHEET 9-C2
- C17 - C.M. Pipe - Remove and Install Flared End Sections
- C18 - Rd. Equiv. Pipe - Remove Headwall and Extend
- C19 - C.M. Pipe w/Hdwls. - Remove Hdwls. & Build F.E.S.
- C20 - Build Culvert Pipe & Hdwls.
- C21 - Build Twin Culvert Pipe w/F.E.S.

#### SHEET 10-C2
- C22 - Build Twin Culvert Pipe on Skew
- C23 - Remove R.C.P. and Build Culvert Pipe
- C24 - Build Culvert Pipe w/F.E.S.'s & Bar Grate on Inlet
- C25 - (Salvage) Remove & Relay C.M. Pipe & Build Conc. Pipe w/F.E.S.'s

#### SHEET 11-C2
- C26 - Remove C.M. Pipe & Build Conc. Box Culv.
- C27 - Conc. Box Culv. - Remove Endwalls & Extend
- C28 - Conc. Box Culv. - Remove Endwalls and Extend
- C29 - Conc. Box Culv. - Plug Ends and Abandon
- C30 - Conc. Box Culv. - Sandfill

#### SHEET 12-C2
- C31 - Build Conc. Box Culv.
- C32 - Conc. Box Culv. - Remove Endwalls & Extend
- C33 - Build Concrete Box Culvert w/C.M.P. Stubout
- C34 - Build C.M. Pipe w/Metal F.E.S. on Inlet and Outlet in Stubout

#### SHEET 13-C2
- C35 - Build R.C.P. w/Conc. F.E.S.'s & Build R.C.P. Stubout
- C36 - Build R.C.P. for Median Structure w/Conc. F.E.S. & Outlet in Stubout
- C37 - Build R.C.P. as Irrigation Structure
- C38 - Build Steel Irrigation Structure (Permit No.)

#### SHEET 14-C2

#### SHEET 15-C2
- PRELIMINARY PIPE NOTES:
  - C40 - C.M. Pipe w/Hdwls.
  - C41 - C.M. Pipe w/F.E.S.
  - C42 - C.M. Pipe w/Drop Inlet
  - C43 - R.C.P. w/Hdwls.
  - C44 - R.C.P. w/F.E.S.
  - C45 - B.B. R.C.P. w/Hdwls.
  - C46 - Rd. Equiv. C.M. Pipe-Arch w/F.E.S.
  - C47 - Rd. Equiv. C.M. Pipe-Arch w/Hdwls.
  - C48 - Rd. Equiv. Culv. Pipe w/F.E.S.
  - C50 - Rd. Equiv. R.C. Pipe-Arch w/F.E.S.
  - C51 - Rd. Equiv. R.C. Pipe-Arch w/Hdwls.
  - C52 - Conc. Box Culv.
### SECTION C2   CULVERT NOTES

#### CULVERT NOTES LIST

<table>
<thead>
<tr>
<th>No.</th>
<th>Work Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C01</td>
<td>Build R.C.P. w/F.E.S.'s</td>
</tr>
<tr>
<td>C02</td>
<td>Build R.C.P. w/F.E.S. on Inlet &amp; Outlet in Conc. Box. Culv.</td>
</tr>
<tr>
<td>C03</td>
<td>R.C.P. - Remove Headwalls, Build Concrete F.E.S.'s</td>
</tr>
<tr>
<td>C04</td>
<td>Build R.C.P. - Class &quot;&quot;Bedding w/Concrete F.E.S.'s</td>
</tr>
<tr>
<td>C05</td>
<td>Build R.C.P. (Includes Jacked R.C.P.)</td>
</tr>
<tr>
<td>C06</td>
<td>Build Jacked R.C.P.</td>
</tr>
<tr>
<td>C07</td>
<td>Build R.C.P. As Median Structure</td>
</tr>
<tr>
<td>C08</td>
<td>Remove Bridge and Build R.C.P.</td>
</tr>
<tr>
<td>C09</td>
<td>Build Round Equivalent R.C.P.</td>
</tr>
<tr>
<td>C10</td>
<td>Build R.C.P. w/F.E.S. on Inlet &amp; Outlet in Conc. Box Culv.</td>
</tr>
<tr>
<td>C11</td>
<td>Extend R.C.P. &amp; Build Concrete F.E.S.</td>
</tr>
<tr>
<td>C12</td>
<td>C.M. Pipe w/Hdwls. - Remove Headwalls &amp; Extend</td>
</tr>
<tr>
<td>C13</td>
<td>Build C.M. Pipe w/Headwall on Inlet &amp; Overhang on Outlet</td>
</tr>
<tr>
<td>C14</td>
<td>Build C.M Pipe w/Headwall on Inlet &amp; Splash Basin on Outlet</td>
</tr>
<tr>
<td>C15</td>
<td>Remove C.M. Pipe w/Drop Inlet</td>
</tr>
<tr>
<td>C16</td>
<td>Build Round Equivalent</td>
</tr>
<tr>
<td>C17</td>
<td>C.M Pipe - Remove and Install Flared End Sections</td>
</tr>
<tr>
<td>C18</td>
<td>Rd.Equiv. Pipe - Remove Headwall and Extend</td>
</tr>
<tr>
<td>C19</td>
<td>C.M. Pipe w/Hdwls. - Remove Hdwls. &amp; Build F.E.S.</td>
</tr>
<tr>
<td>C20</td>
<td>Build Culvert Pipe &amp; Hdwls.</td>
</tr>
<tr>
<td>C21</td>
<td>Build Twin Culvert Pipe w/F.E.S.</td>
</tr>
<tr>
<td>C22</td>
<td>Build Twin Culvert Pipe on Skew</td>
</tr>
<tr>
<td>C23</td>
<td>Remove R.C.P. and Build Culvert Pipe</td>
</tr>
<tr>
<td>C24</td>
<td>Build Culvert Pipe w/F.E.S.'s. &amp; Bar Grate on Inlet</td>
</tr>
<tr>
<td>C25</td>
<td>(Salvage) Remove &amp; Relay C.M. Pipe &amp; Build Conc. Pipe w/F.E.S.'s</td>
</tr>
<tr>
<td>C26</td>
<td>Remove C.M Pipe &amp; Build Conc. Box Culv.</td>
</tr>
<tr>
<td>C27</td>
<td>Conc. Box Culv. - Remove Endwalls &amp; Extend</td>
</tr>
<tr>
<td>C28</td>
<td>Concrete Box Culvert - Remove Endwalls &amp; Extend</td>
</tr>
<tr>
<td>C29</td>
<td>Conc. Box Culv. - Plug Ends and Abandon</td>
</tr>
<tr>
<td>C30</td>
<td>Conc. Box Culv. - Sandfill</td>
</tr>
<tr>
<td>C31</td>
<td>Build Conc. Box Culv.</td>
</tr>
<tr>
<td>C32</td>
<td>Conc. Box Culv. - Remove Endwalls &amp; Extend</td>
</tr>
<tr>
<td>C33</td>
<td>Build Concrete Box Culvert w/C.M.P. Stubout</td>
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<tr>
<td>C34</td>
<td>Build C.M. Pipe w/Metal F.E.S. on Inlet and Outlet in Stubout</td>
</tr>
<tr>
<td>C35</td>
<td>Build R.C.P. w/Concrete F.E.S.'s &amp; Build R.C.P. Stubout</td>
</tr>
<tr>
<td>C36</td>
<td>Build R.C.P. for Median Structure w/Concrete F.E.S. &amp; Outlet in Stubout</td>
</tr>
<tr>
<td>C37</td>
<td>Build R.C.P. as Irrigation Structure</td>
</tr>
<tr>
<td>C38</td>
<td>Build Steel Irrigation Structure (Permit No.)</td>
</tr>
<tr>
<td>C39</td>
<td>Original Design/Alternate Design Conc. Box Culv.</td>
</tr>
<tr>
<td>C40</td>
<td>C.M. Pipe w/Hdwls.</td>
</tr>
<tr>
<td>C41</td>
<td>C.M. Pipe w/F.E.S.</td>
</tr>
<tr>
<td>C42</td>
<td>C.M. Pipe w/Drop Inlet</td>
</tr>
<tr>
<td>C43</td>
<td>R.C.P. w/ Hdwls.</td>
</tr>
<tr>
<td>C44</td>
<td>R.C.P. w/F.E.S.</td>
</tr>
<tr>
<td>C45</td>
<td>B.B. R.C.P. w/ Hdwls.</td>
</tr>
<tr>
<td>C46</td>
<td>Rd. Equiv. C.M. Pipe-Arch w/F.E.S.</td>
</tr>
<tr>
<td>C47</td>
<td>Rd. Equiv. C.M. Pipe-Arch w/Hdwls.</td>
</tr>
<tr>
<td>C48</td>
<td>Rd. Equiv. Culv. Pipe w/F.E.S.</td>
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<tr>
<td>C50</td>
<td>Rd. Equiv. R.C. Pipe-Arch w/F.E.S.</td>
</tr>
<tr>
<td>C51</td>
<td>Rd. Equiv. R.C. Pipe-Arch w/Hdwls.</td>
</tr>
<tr>
<td>C52</td>
<td>Concrete Box Culvert</td>
</tr>
</tbody>
</table>

---

**SHEET NO. 2-C2**
SECTION C2  CULVERT NOTES

GENERAL INFORMATION

Examples of notes for Pipe-Arch or Elliptical Pipes.

CORRUGATED METAL PIPE

| Sta.* | Build 48" x 72' Round Equivalent | C.M. Pipe-Arch Culvert with Metal Flared End Sections. Plan 410-R_ | STA.* | 48" x 72' RD. EQUIV. C.M. PIPE-ARCH W/F. E. S. |

CONCRETE PIPE

| Sta.* | Build 48" x 72' Round Equivalent | Reinf. Concrete Elliptical Pipe with Conc. Flared End Sections. Plan 410-R_ | STA.* | 48" x 72' RD. EQUIV. REINF. CONC. ELLIPTICAL PIPE W/F. E. S. |

| Sta.* | Build 48" x 72' Round Equivalent | Reinf. Concrete Pipe-Arch with Conc. Flared End Sections. Plan 410-R_ | STA.* | 48" x 72' RD. EQUIV. REINF. CONC. PIPE-ARCH W/F. E. S. |

CULVERT PIPE (OPTIONAL)

| Sta.* | Build 48" x 72' Round Equivalent | Culvert Pipe with Flared End Sections. Plan 410-R_ | STA.* | 48" x 72' RD. EQUIV. CULV. PIPE W/F. E. S. |

This chart allows you to convert "SPAN x RISE" to the Round Equivalent dimension
(This applies to the Prelim, as well as the Design Notes)

FORMULA: a.) Subtract rise from span. b.) Divide by 2. c.) Add to rise to obtain the equivalent diameter.

TABLE

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<tr>
<td>17x13</td>
<td>15</td>
<td>17</td>
<td>13</td>
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<td>24x18</td>
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<td>3</td>
<td>8</td>
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<td>35x24</td>
<td>30</td>
<td>35</td>
<td>24</td>
<td>3</td>
<td>9/2</td>
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<td>42x29</td>
<td>36</td>
<td>42</td>
<td>29</td>
<td>3/2</td>
<td>10/2</td>
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<td>49x33</td>
<td>42</td>
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<td>33</td>
<td>4</td>
<td>11/2</td>
</tr>
<tr>
<td>57x38</td>
<td>48</td>
<td>57</td>
<td>38</td>
<td>5</td>
<td>13/2</td>
</tr>
<tr>
<td>64x43</td>
<td>54</td>
<td>64</td>
<td>43</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>71x47</td>
<td>60</td>
<td>71</td>
<td>47</td>
<td>7</td>
<td>16/2</td>
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<tr>
<td>77x52</td>
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<td>52</td>
<td>8</td>
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<td>83x57</td>
<td>72</td>
<td>83</td>
<td>57</td>
<td>9</td>
<td>20</td>
</tr>
</tbody>
</table>

1 Allowable tolerance of + or - 1", or 2% of equivalent circular dia., whichever is greater.

B2 is defined as the vertical dimension from a horiz. line across the widest portion of the arch to the lowest portion of the base.

All dimensions are measured from the inside crests of the corrugations.
SECTION C2 CULVERT NOTES

GENERAL INFORMATION

SURVEY/PLAN ACCURACY FOR DRAINAGE PIPES:
- Stationing - Nearest Foot
- Length of Pipe - Nearest Foot
- Skew Angle - Nearest Degree
- Elbows - Nearest Degree
- Collar w/-° Bend - Nearest Degree

Construction Notes:
Use Upper and Lower Case letters. Spell out all of the words when possible.
(Exceptions include: Lt., Rt., Conc. Collar, Conn. Band, Cu. Yds., Sq. Yds., Lin. Ft.)

Preliminary Notes:
Use all Upper Case letters.
Okay to abbreviate.

<table>
<thead>
<tr>
<th>WORD</th>
<th>ABBREVIATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>STATION</td>
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<tr>
<td>LEFT</td>
<td>LT.</td>
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<tr>
<td>RIGHT</td>
<td>RT.</td>
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<tr>
<td>CONCRETE</td>
<td>CONC.</td>
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<tr>
<td>CONNECTING</td>
<td>CONN.</td>
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<tr>
<td>CORRUGATED METAL</td>
<td>C.M.</td>
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<tr>
<td>DRIVEWAY</td>
<td>DRIVE (PREFERRED) OR DR.</td>
</tr>
<tr>
<td>HEADWALLS</td>
<td>HDWLS.</td>
</tr>
<tr>
<td>FIELD ENTRANCE</td>
<td>F.E.</td>
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<tr>
<td>FLARED END SECTION(S)</td>
<td>F.E.S.</td>
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<tr>
<td>REINFORCED</td>
<td>REINF.</td>
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<tr>
<td>BROKEN BACK</td>
<td>B.B.</td>
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<tr>
<td>DOUBLE BROKEN BACK</td>
<td>DBL. B.B.</td>
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<tr>
<td>EQUIVALENT</td>
<td>EQUIV.</td>
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<tr>
<td>CULVERT</td>
<td>CULV.</td>
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<td>RDWY.</td>
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<tr>
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<td>BR.</td>
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<tr>
<td>WITH</td>
<td>W/</td>
</tr>
<tr>
<td>MANHOLE</td>
<td>M.H.</td>
</tr>
</tbody>
</table>
NOTE: Q, D.A. and H.W. required on all crossroad culvert construction notes.

Q – Design Discharge (c.f.s.)
Subscript indicates storm frequency used.

D.A. – Drainage Area in Acres.

H.W. – Design Headwater, depth of flow measured from the flow line of the inlet.

If drainage information cannot be determined, the following note should be used:
Design Discharge (Q) and Drainage Area (D.A.) cannot be determined by office means unless otherwise noted on the plans.

Pay quantity for new pipe, extends to center of intersecting pipe, M.H. or Inlet, etc.

Elbows for a C.M. Pipe do not require Plan 425-R_.

NOTE:
Broken back reference will NOT be made on new pipes.

B.B. - Broken Back
DBL. B.B. - Double Broken Back

A bend on a concrete pipe can be either Vertical or Horizontal. However, DO NOT specify Horizontal or Vertical when calling for an elbow or a collar with a bend on preliminary pipe notes.

Always abbreviate Concrete Collars as Conc. Collars.

Class IV or Class V Pipe may be required in areas of excessive fill or under R.R. tracks.
Bedding Sketch is required on Culvert X-Sec.

REQUIRED PIPE LENGTHS UNDER R.R. TRACKS
(Jacking may be required)

¢ R.R. to end of pipe – 15’ Minor Tracks
¢ R.R. to end of Pipe – 25’ Major Tracks

NEW PIPES – Space dictates whether the note should say “with” or “w/” Flared End Section(s)
EXTEND PIPE – Note should say “Build” Flared End Section(s)

Safety Sloped End Sections (Special Plan 4120 1) can be used in lieu of Flared End Sections.

NOTE:
DO NOT call out the type of material for Flared End Sections ANYWHERE on the project.
DO call out the type of pipe on the “Horse Blanket”.

STA. ___+__
D.A.=__Ac.,Q_ =__cfs,H.W.=__' Build __' x __' Reinforced Concrete Pipe with Concrete Flared End Sections.
Plan 410-R_.
Exc.=__ Cu. Yds.

STA. __+__
D.A.=__Ac.,Q_ =__cfs,H.W.=__' Build __' x __' Reinforced Concrete Pipe with Concrete Flared End Section on Inlet & Outlet in Concrete Box Culvert. Plan 410-R_.
___° Elbow. Plan 425-R_.
Exc.=__ Cu. Yds.

STA. ___+__
_" x __' B.B. REINF. CONC. PIPE W/HDWLS.
Plan 410-R_. 2-Conc. Collars with ___° Bend. Plan 425-R_.
Exc.=__ Cu. Yds.

STA. ___+__
D.A.=__Ac.,Q_ =__cfs,H.W.=__' Build __' x __' Reinforced Concrete Pipe, Class __,
Class "_" Bedding w/Concrete Flared End Sections.
Plan 410-R_.
Exc.=__ Cu. Yds.
**CELL NAME**

**INFORMATION ONLY**

**CONCRETE PIPE**

**C05**
Sta. ___+__
Build __" x __' Reinforced Concrete Pipe (Includes __' Jacked R.C.P. Class __).
Exc.=__ Cu. Yds.

**C06**
Sta. ___+__
Build __" x __' Jacked Reinforced Concrete Pipe, Class __.  Exc.=__ Cu. Yds.

**C07**
Sta. ___+__
Build __" x __' Reinforced Concrete Pipe as Median Structure w/Concrete Flared End Sections. Plan 410-R__.

**C08**
STA. ___+__
---" SPAN TIMBER BR. WD.
FLOOR, W/___' CLEAR RDWY.
D.A.=__Ac.,Q =__cfs,H.W.=__'
Remove & Build __" x __' Reinforced Concrete Pipe & Headwalls. Special Plan _C.
___° Elbow. Plan 425-R__.
Exc.=__ Cu. Yds.

**C09**
Sta. ___+__
D.A.=__Ac.,Q =__cfs,H.W.=__'

**SECTION C2  CULVERT NOTES  SHEET NO. 6-C2**

Length of Pipe Partially Jacked.

Class IV or Class V Pipe may be required in areas of excessive fill or under Railroad Tracks.

Full Length of Pipe Jacked.
If R.C.P. Class __ is to be Jacked, it must be stated in the note.

No Excavation Quantity is required for Median Structures in new embankment.

If you remove pipe from an 'Existing' Median Structure you need to pay for excavation.

Excavation & Concrete Collars are NOT to be paid for when only installing new Flared End Sections directly on existing pipes.

If a Headwall Type is required, please note after the word Headwalls.

Length of Pipe Partially Jacked.  

Class IV or Class V Pipe may be required in areas of excessive fill or under Railroad Tracks.

Full Length of Pipe Jacked.
If R.C.P. Class __ is to be Jacked, it must be stated in the note.

No Excavation Quantity is required for Median Structures in new embankment.

If you remove pipe from an 'Existing' Median Structure you need to pay for excavation.

Excavation & Concrete Collars are NOT to be paid for when only installing new Flared End Sections directly on existing pipes.

If a Headwall Type is required, please note after the word Headwalls.
### SECTION C2  CULVERT NOTES

**INFORMATION ONLY**

<table>
<thead>
<tr>
<th>CELL NAME</th>
<th>CONCRETE PIPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>C10</td>
<td>Sta. _<strong>+</strong></td>
</tr>
<tr>
<td></td>
<td>D.A. = ___Ac., Q = ___cfs, H.W. = ___'</td>
</tr>
<tr>
<td></td>
<td>Build ___&quot; x __<em>' Reinforced Concrete Pipe with Concrete Flared End Section on Inlet &amp; Outlet in Concrete Box Culvert. Plan 410-R</em>, _<em>° Elbow. Plan 425-R</em>, _<em>° Tap. Plan 428-R</em>.</td>
</tr>
<tr>
<td></td>
<td>Exc. = ___ Cu. Yds.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ST. _<strong>+</strong></th>
<th>STA. _<strong>+</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>___&quot; x ___' REINF. CONC. PIPE W/HDWL.</td>
<td>STA. _<strong>+</strong></td>
</tr>
<tr>
<td>D.A. = ___Ac., Q = ___cfs, H.W. = ___'</td>
<td>___&quot; x ___'</td>
</tr>
</tbody>
</table>

**CORRUGATED METAL PIPE**

<table>
<thead>
<tr>
<th>C12</th>
<th>STA. _<strong>+</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>___&quot; x ___' C.M. PIPE W/HDWL.</td>
<td>STA. _<strong>+</strong></td>
</tr>
<tr>
<td>D.A. = ___Ac., Q = ___cfs, H.W. = ___'</td>
<td>___&quot; x ___'</td>
</tr>
<tr>
<td>Remove Headwalls &amp; Extend ___' Lt. &amp; __<em>' Rt. Build Metal Flared End Sections. Plan 410-R</em>. ___° Elbow, ___° Conn. Bands. (Temporary: Includes <em><strong>' C.M. Pipe &amp;</strong></em>° Elbow).</td>
<td>___° Elbow,</td>
</tr>
</tbody>
</table>

---

*Only pay for a tap if tapping into an existing Inlet, Culvert or Box Culvert.*

*When you are connecting to another pipe.*

*Always abbreviate Concrete Collars as Conc. Collars.*

*Always abbreviate Connecting Bands as Conn. Bands.*

*If you are phasing the construction of a drainage structure, handle on the drainage cross sections, with dimensions, stating Phase 1, Phase 2. DO NOT phase the construction notes in the plans.*

*Show the dimension for final pipe size. Removing temporary pipe and reinstalling the Flared End Section is covered in the Special Provisions.*

*If you are building a 'Drop Structure' DO NOT specify that in the note. The cross sections will indicate what is happening.*

*NEW PIPES - Space dictates whether the note should say "with" or "w/" Flared End Section(s) EXTEND PIPE - Note should say "Build" Flared End Section(s)*

*Safety Sloped End Sections (Special Plan 4120 1) can be used in lieu of Flared End Sections.*
<table>
<thead>
<tr>
<th>SECTION C2</th>
<th>CULVERT NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFORMATION ONLY</td>
<td>CELL NAME</td>
</tr>
</tbody>
</table>

**CORRUGATED METAL PIPE**

<table>
<thead>
<tr>
<th>STA.</th>
<th>Sta. __<strong>+</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>D.A.</td>
<td>____Ac., Q. =<strong><strong>cfs, H.W. =</strong></strong>'</td>
</tr>
<tr>
<td>Build</td>
<td>____&quot; x ____' Corrugated Metal Pipe with Headwall on Inlet &amp; Overhang on Outlet. Special Plan <em>C</em>.</td>
</tr>
<tr>
<td>Exc.</td>
<td>=____ Cu. Yds.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STA.</th>
<th>Sta. __<strong>+</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>D.A.</td>
<td>____Ac., Q. =<strong><strong>cfs, H.W. =</strong></strong>'</td>
</tr>
<tr>
<td>Build</td>
<td>____&quot; x ____' Corrugated Metal Pipe with Headwall on Inlet. Special Plan <em>C</em>.</td>
</tr>
<tr>
<td>___° Elbow &amp; Splash Basin on Outlet, as Shown by Sketch on Sheet 2-N.</td>
<td></td>
</tr>
<tr>
<td>Exc.</td>
<td>=____ Cu. Yds.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STA.</th>
<th>STA. __<strong>+</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>____&quot; x ____' C.M. PIPE W/DROP INLET. Remove.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STA.</th>
<th>Sta. __<strong>+</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>D.A.</td>
<td>____Ac., Q. =<strong><strong>cfs, H.W. =</strong></strong>'</td>
</tr>
<tr>
<td>Build</td>
<td>____&quot; x ____' Round Equivalent Corrugated Metal Pipe-Arch Culvert &amp; Headwalls. Special Plan <em>C</em>.</td>
</tr>
<tr>
<td>Exc.</td>
<td>=____ Cu. Yds.</td>
</tr>
</tbody>
</table>
SECTION C2  CULVERT NOTES

INFORMATION ONLY

CELL NAME

CORRUGATED METAL PIPE

C17  STA. ___+__
     ____" x ____" C.M. PIPE W/F.E.S.
     Remove Flared End Sections &
     Extend ___' Lt. & ___' Rt.
     Reinstall Flared End Sections.
     ___-Conn. Bands.
     Exc.=__ Cu. Yds.

C18  STA. ___+__
     ____" x ____" RD. EQUIV. C.M. PIPE-
     ARCH W/HDWL. S.
     Remove Headwalls & Extend
     ___' Lt. & ___' Rt. Build Metal
     Flared End Sections.
     Plan 410-R_.  ___-Conn. Collars.
     Plan 425-R_.
     Exc.=__ Cu. Yds.

C19  STA. ___+__
     ____" x ____" C.M. PIPE W/HDWLS.
     Remove Headwalls & Extend
     ___' Lt. & ___' Rt. Build Metal
     Flared End Sections.
     Plan 410-R_.  ___-Conn. Bands.
     Exc.=__ Cu. Yds.

OPTIONAL PIPE

C20  Sta. ___+__
     D.A.=___Ac.,Q =__cfs,H.W.=___'
     Build ____" x ____" Culvert Pipe
     & Headwalls.  Special Plan _C.
     Exc.=__ Cu. Yds.

C21  Sta. ___+__
     D.A.=___Ac.,Q =__cfs,H.W.=___'
     Build Twin ____" x ____" Culvert
     Pipe w/Flared End Sections.
     Plan 410-R_.
     Exc.=__ Cu.Yds.

DO NOT specify the type of material when
"Reinstalling" a Flared End Section.

If extending Rd. Eqv. pipe, call for Special Conc.
Collars, regardless of pipe material.

Safety Sloped End Sections (Special Plan 4120 1) can be
used in lieu of Flared End Sections.

DO NOT remove 2 ft. of pipe unless the existing
pipe end is mitered.

If the Headwall Special Plan allows for the construction
of different types of Headwalls, the type must be
addressed in the note.

Multiple Pipes having Flared End Sections require a
sketch showing the dimensions between the pipes.
(Usually on drainage cross-sections).
SECTION C2  CULVERT NOTES  SHEET NO. 10-C2

INFORMATION ONLY

CELL NAME

OPTIONAL PIPE

C22  Sta. ___+__
    D.A. = __ Ac., Q = __ cfs, H.W. = __'
    Build Twin __" x __' Culvert Pipe on __° Skew &
    Headwalls. Special Plan C.
    Exc. =__ Cu. Yds.

C23  STA. ___+__
    __" x __" REINF. CONC. PIPE
    W/HDWLS.
    D.A. = __ Ac., Q = __ cfs, H.W. = __'
    Remove & Build __" x __' Culvert Pipe with Flared End
    Sections. Plan 410-R_.
    Exc. =__ Cu. Yds.

C24  Sta. ___+__
    D.A. = __ Ac., Q = __ cfs, H.W. = __'
    Build __" x __' Culvert Pipe
    with Flared End Sections
    & Build Bar Grate on Inlet.
    Plan 410-R_ & 413-R_.
    Exc. =__ Cu. Yds.

C25  STA. ___+__ LT.
    __" x __' C.M. PIPE
    D.A. = __ Ac., Q = __ cfs, H.W. = __'
    (Salvage). Remove & Relay at
    Sta. ___+__
    Build __" x __' Concrete
    Pipe with Flared End Sections.
    Plan 410-R_.
    Exc. =__ Cu. Yds.

When describing multiple pipes:
Use the 'word' for the number of pipes,
NOT the number. (i.e. Twin, Triple, etc.)

Standard Plan 413-R_ (Bar Grate for Flared End Sections)
is located in the Standard/Special Plan Book.

Safety Sloped End Sections (Special Plan 4120 1) can be
used in lieu of Flared End Sections.

If a ROADWAY PIPE is going to be removed and reused, or
sent to the Maintenance Yard for future use, we should
call for (Salvage) in the note.

If pipe is to be reused at a new location, the note should
state "Relay __"x __' Pipe from Sta. ___+___"

You DO NOT need to specify (Salvage) for DRIVEWAY PIPES,
even if pipe is to be kept.
SECTION C2  CULVERT NOTES  SHEET NO. 11-C2

INFORMATION ONLY

CELL NAME

CONCRETE BOX CULVERTS

C26
STA. ___+__
"" x "" C.M. PIPE W/HDWLS.
D.A.=__Ac.,Q __=___cfs,H.W.=_'
Remove. Build '' x ''
\x'' Concrete Box Culvert
on __° Skew. Plan __.
-- Control Joints.
Plan 404-R_. Fill=_'
Exc.=__ Cu. Yds.

C27
STA. ___+__ #(S_______)
TWIN '' x '' x ___' CONC. BOX
CULV. ON __° SKEW W/WINGWALLS.
D.A.=__Ac.,Q __=___cfs,H.W.=_'
Remove Endwalls & _' of
Barrel. Extend _' Lt. &
___' Rt. __° Bend.
Plans ___ & 403-R_.
Fill=_'
Exc.=__ Cu. Yds.

C28
STA. ___+__ #(S_______)
TWIN '' x '' x ___' CONC. BOX
CULV. ON __° SKEW W/WINGWALLS.
D.A.=__Ac.,Q __=___cfs,H.W.=_'
Remove Endwalls & _' of
Barrel. Extend _' Lt.
___° Bend. Plans ___ &
403-R_. Fill=_'
Exc.=__ Cu. Yds.

NO SANDFILL

C29
STA. ___+__ #(S_______)
'' x '' x ___' CONC. BOX CULV.
Plug Ends & Abandon.
Plan 428-R_.

SANDFILL

C30
STA. ___+__ #(S_______)
'' x '' x ___' CONC. BOX CULV.
Plug Ends & Sandfill.

A Box culvert will need a structure number when the
span exceeds 20'.

BOX CULVERTS with Bends or Breaks:
- Bends are horizontal
- Breaks are vertical.
You DO NOT have to call out the ° of Bend or Break
on preliminary culvert notes.

When describing a Box Culvert in the Preliminary Pipe Note,
ALWAYS use the term "Wingwalls"
regardless if the wingwalls
are straight or flared.
Keep in mind that not all Box Culverts have wingwalls. Some
are just Box Culverts.
A Box Culvert will NEVER have Headwalls. Likewise a
Culvert Pipe will NEVER have Wingwalls.

When removing these walls, use the term "Endwalls".
Example:
"Remove Endwalls & 2' of Barrel."
The term ENDWALLS in this case applies to straight wall,
wingwalls and the parapet,
(All walls at the end of the Box Culvert)

If only removing Endwalls & 2' of Barrel on one side,
the note should read:
"Remove Endwalls on Rt. (or Lt.) & 2' of Barrel."

If a Box Culvert requires a Concrete Apron, you do not need
to call it out in the Construction Note. The Special Plan
will show how the Box Culvert is to be built.

Note C29:
If the size of the Barrel(s) is not covered in the chart
that is located on Standard Plan 428-R_, you will need
to have a Special Plan made up by the Bridge Dept.

Note C30:
If a Sandfill Sketch is to be shown on the Drainage
X-Sections, label subsidiary. You do not need to refer
to the Sketch in the note.

If there is not room for the Sandfill Sketch on the
drainage X-Sections, the sketch may be placed on the 2-N
Sheet, but it must be noted 'See Sketch on Sheet 2-N'.

Sandfill note examples:
Remove Endwalls.
Sandfill ___Cu. Yds.
Plug Ends and Abandon.
Plan 428-R_.

SURVEY/PLAN ACCURACY FOR DRAINAGE BOX CULVERTS:
Stationing - Nearest Foot
Height & Width of Box - As Surveyed
Skew Angle - Nearest Degree

A Box culvert will need a structure number when the
span exceeds 20'.

A Box culvert will need a structure number when the
span exceeds 20'.
Example of a Railroad Structure to a Roadway Structure:

This note should be boxed & leadered.

<table>
<thead>
<tr>
<th>STA. <em><strong>+</strong></em>: _' LT.</th>
<th>_' x _' x ___' CONC. RR BOX CULV.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove Endwalls.</td>
<td></td>
</tr>
</tbody>
</table>

Endwall Removed

This note should NOT be boxed & leadered. If you do NOT remove the endwalls, but will be doweling the Highway structure to the Railroad structure.

<table>
<thead>
<tr>
<th>STA. <em><strong>+</strong></em>: _' LT.</th>
<th>_' x _' x ___' CONC. RR BOX CULV.</th>
</tr>
</thead>
<tbody>
<tr>
<td>W/ENDWALLS.</td>
<td></td>
</tr>
</tbody>
</table>

Endwall Intact

Make no deduction for concrete in Box Culverts where stubouts are built.

C31
Sta. ___+___
D.A.=__Ac.,Q=___cfs,H.W.=___'
Build __' x __' x ___'
Concrete Box Culvert.
Plan ___. Fill=___'.
Exc.=__ Cu. Yds.

C32
STA. ___+___ #(S________)
___' x ___' x ___' CDNC. BOX CULV.
D.A.=__Ac.,Q=___cfs,H.W.=___'
Remove Endwalls & ___' of Barrel. Extend ___' Lt. & ___' Rt. Plan ___ & Special Plan _C. Fill=___'.
Exc.=__ Cu. Yds.

C33
Sta. ___+___
D.A.=__Ac.,Q=___cfs,H.W.=___'
Build __' x __' x ___'
Concrete Box Culvert with ___" x ___" Corrugated Metal Pipe Stubout. Plan ___.
Fill=___'. Exc.=__ Cu. Yds.

C34
Sta. ___+___ Lt. to
Sta. ___+___ Lt.
Build ___" x ___" Corrugated Metal Pipe with Metal Flared End Section on Inlet & Outlet in Stubout. Plan 410-R_.
___° Elbow. ___-Conn. Bands.
Exc.=__ Cu. Yds.
SECTION C2   CULVERT NOTES

INFORMATION ONLY

CELL NAME

STUBOUT PIPES

C35  Sta. ___+__  
    D.A.=__Ac., Q=__ cfs, H.W.=__'  
    Build __" × __' Reinforced 
    Concrete Pipe with Concrete 
    Flared End Sections.  
    Plan 410-R_ & Build __" × __'  
    Reinforced Concrete Pipe 
    Stubout.  Exc.=__ Cu. Yds.

C36  Sta. ___+__  
    Build __" × __' Reinforced 
    Concrete Pipe for Median 
    Structure w/Conc. Flared End 
    Section & Build Bar Grate on 
    Inlet. Outlet in Stubout.  
    Plan 410-R_ & 413-R_.

MISCELLANEOUS STRUCTURES

C37  Sta. ___+__  
    Build __" × __' Reinforced 
    Concrete Pipe as Irrigation 
    Structure on __° Skew 
    w/Siphon Headwalls. Plan 414 
    & Special Plan __C.  
    Exc.=__ Cu. Yds.

C38  Sta. ___+__ (Permit No. __)  
    Build __" × __' Steel 
    Irrigation Structure with 
    __" × __' Steel Casting.  
    __° Elbow & __-Coupling 
    Connectors.  
    Exc.=__ Cu. Yds.

If it is an Irrigation Pipe it needs to be 
stated in the note.

(Permit No. __) Refer to permit issued by 
Maintenance Division.
Sometimes Bridge Dept. will make their Std. Plan into a Special Plan. CHECK IT OUT.

If you use a Poured-in-Place End Section, specify the appropriate Standard Plan. If either a Poured-in-Place or a Precast End Section will do, Specify both plan numbers.

ORIGINAL DESIGN:
Build ___' x ___' x ___' Conc. Box Culvert. Special Plan _C. Fill=___'. Exc.=___ Cu. Yds.

ALTERNATE DESIGN:
Build ___' x ___' x ___' Precast Concrete Box Culvert w/Conc. End Sections. Special Plan _C & _C. Fill=___'. Exc.=___ Cu. Yds.
Examples of PRELIMINARY PIPE NOTES
(See Section "J" for Existing Bridge note examples)

Preliminary Pipe Notes use all Capital letters.

CO = 4
WT = 1
TX = 10 (100 scale)

If a pipe is a B.B. (Broken Back) or a DBL. B.B. (Double Broken Back), you DO NOT have to call out the ° of Elbow(s) on preliminary pipe notes.

When describing a pipe under a driveway, we need to say that it is a "DR. PIPE".
If we know the type of material, we need to say it in the note. (i.e. C.M. DR. PIPE or CONC. DR. PIPE)
If the material is unknown, the note should say "DR. PIPE". Refer to note cell E02 or E05 for a "C.M. DR. PIPE"

See Sheet No. 4-C2 for Preliminary Pipe Note abbreviations.

These Preliminary Pipe Note Cells are starting points for the notes. They may need to be modified to fit the actual situation. The following are some examples of modified notes:

STA. 123+45
24" × 60' REINF. CONC. PIPE
W/INLET IN CURB INLET & HDWL. ON OUTLET

STA. 123+45
24" × 60' REINF. CONC. PIPE
W/INLET & OUTLET IN CURB INLET

STA. 123+45
24" × 60' REINF. CONC. PIPE
W/INLET IN CURB INLET & F.E.S. ON OUTLET

STA. 123+45
24" × 60' REINF. CONC. PIPE
W/INLET IN CURB INLET & OUTLET IN MANHOLE

STA. 123+45
24" × 60' REINF. CONC. PIPE
W/INLET & OUTLET IN MANHOLE

STA. 123+45
24" × 60' REINF. CONC. PIPE
W/HDWL. ON INLET & F.E.S. ON OUTLET

STA. ___+__
" " × " " C.M. PIPE W/HDWL.

STA. ___+__
" " × " " C.M. PIPE W/F.E.S.

STA. ___+__
" " × " " C.M. PIPE W/DROP INLET

STA. ___+__
" " × " " REINF. CONC. PIPE W/HDWL.

STA. ___+__
" " × " " REINF. CONC. PIPE W/F.E.S.

STA. ___+__
" " × " " B.B. REINF. CONC. PIPE W/HDWL.

STA. ___+__
" " × " " RD. EQUIV. C.M. PIPE-ARCH W/F.E.S.

STA. ___+__
" " × " " RD. EQUIV. C.M. PIPE-ARCH W/HDWL.

STA. ___+__
" " × " " RD. EQUIV. CULV. PIPE W/F.E.S.

STA. ___+__
" " × " " RD. EQUIV. CULV. PIPE W/HDWL.

STA. ___+__
" " × " " RD. EQUIV. REINF. CONC. PIPE-ARCH W/F.E.S.

STA. ___+__
" " × " " RD. EQUIV. REINF. CONC. PIPE-ARCH W/HDWL.

STA. ___+__
" " × " " × " " CONC. BOX CULV.
SECTION D  CONCRETE NOTES  SHEET NO. 1-D

CONCRETE NOTES SHEET INDEX

SHEET 1-D  CONCRETE NOTES SHEET INDEX
SHEET 2-D  CONCRETE NOTES LIST
SHEET 3-D  D01 - Build Pavement Approach Slab Type "_"
           D02 - Build Pavement Approach Slab
           D03 - Build Concrete Flume Type "_"
           D04 - Build Concrete Flume Type "_" w/C.M.P.
           D05 - Remove and Build Concrete Drive
           D06 - Build Concrete Drive
           D07 - Drop Curb for Driveway
SHEET 4-D  D08 - Build Concrete Terrace Steps
           D09 - Build Reinforced Concrete Steps
           D10 - Build Concrete Retaining Wall
           D11 - Build MSE Wall
           D12 - Build Concrete Ditch Lining
           D13 - Build Concrete Island Nose
           D14 - Remove Pavement and Build Concrete Island Nose
SHEET 5-D  D15 - Build Concrete Median Surfacing
           D16 - Remove and Build Concrete Sidewalk
           D17 - Build Curb Ramp
           D18 - Build Concrete Curb, Type "_"
           D19 - Build Concrete Median Curb
           D20 - Build Concrete Barrier Curb
           D21 - Build Combination Concrete Curb and Gutter
SHEET 6-D  D22 - Build Concrete Base Course
           D23 - Build Concrete Pavement Repair
           D24 - Build Asphalt Patching of Concrete Pavement
           D25 - Build Pavement Repair
           D26 - Build Concrete Pavement
           D27 - Build Dowelled Concrete Pavement
CONCRETE NOTES LIST

D01 - Build Pavement Approach Slab Type 
D02 - Build Pavement Approach Slab 
D03 - Build Concrete Flume Type 
D04 - Build Concrete Flume Type w/C.M.P. 
D05 - Remove and Build Concrete Drive 
D06 - Build Concrete Drive 
D07 - Drop Curb for Driveway 
D08 - Build Concrete Terrace Steps 
D09 - Build Reinforced Concrete Steps 
D10 - Build Concrete Retaining Wall 
D11 - Build MSE Wall 
D12 - Build Concrete Ditch Lining 
D13 - Build Concrete Island Nose 
D14 - Remove Pavement and Build Concrete Island Nose 
D15 - Build Concrete Median Surfacing 
D16 - Remove and Build Concrete Sidewalk 
D17 - Build Curb Ramp 
D18 - Build Concrete Curb, Type 
D19 - Build Concrete Median Curb 
D20 - Build Concrete Barrier Curb 
D21 - Build Combination Concrete Curb and Gutter 
D22 - Build Concrete Base Course 
D23 - Build Concrete Pavement Repair 
D24 - Build Asphalt Patching of Concrete Pavement 
D25 - Build Pavement Repair 
D26 - Build Concrete Pavement 
D27 - Build Dowelled Concrete Pavement
SECTION D  CONCRETE NOTES

INFORMATION ONLY

CELL NAME

D01
Sta. ___+__ to
Sta. ___+__
Build Pavement Approach Slab
Type __, (___' Wide).
Special Plan _C.

D02
Sta. ___+__ to
Sta. ___+__
Build Pavement Approach Slab.
Special Plan _C.

D03
Sta. ___+__ Lt.
Build Concrete Flume, Type __.
L=___'. Special Plan _C.

D04
Sta. ___+__ Lt.
Build Concrete Flume, Type __
w/__" x ___' Corrugated
Metal Pipe. Special Plan _C.

D05
Sta. ___+__ Lt.
Remove __ Sq. Yds. of
Driveway & Build __ Sq. Yds.
of Concrete Drive.
Plan 301-R__.

D06
Sta. ___+__ Lt.
Build __ Sq. Yds. of
Concrete Drive. Plan 301-R__.

D07
Sta. ___+__ to
Sta. ___+__ Lt.
Drop Curb for Driveway.
Plan 301-R__.

For Urban Jobs show normal driveway geometrics on plans.

Note D05 use for Urban Drives only

Note D07 is used at driveway locations when building
Combination Curb & Gutter in front of the driveway.
Stationing for Combination Curb & Gutter can
continue through driveway locations.

FLUME TYPE  SPECIAL PLAN NUMBER
I  4341-1
II  4342-1
IV  4344-1
V  4345-1
VI  4346-1
VII  4347-1
VIII  4348-1

For reference only.

There are 7-Types of Flume Special Plans that are approved.
Flume Types IV, V, VI, VII & VIII are 2-sheet plans.
The second sheet is similar to an Area Inlet. Although Flume
Types IV, V, VII & VIII show Elbows on the Special Plan, they
are not called for in the construction note. They should be
shown in Comp's. and also on Cross Sections, if applicable.
(FLUME TYPE III HAS BEEN VOIDED)

For Urban jobs show normal driveway geometrics on plans.

One note needed at each end of Bridge (or as required).
One note cannot cover both slabs.

The note may call out for a type of Bridge Approach
Section if more than one type is detailed on the plan.

The Bridge Approach Slabs may be part of the bridge plan,
however you still need the Pavement Approach Slab note
for each end of the bridge.
Special Plan or Special Plan C to match Bridge
Naming conventions.

Note D07 is used at driveway locations when building
Combination Curb & Gutter in front of the driveway.
Stationing for Combination Curb & Gutter can
continue through driveway locations.

For reference only.

There are 7-Types of Flume Special Plans that are approved.
Flume Types IV, V, VI, VII & VIII are 2-sheet plans.
The second sheet is similar to an Area Inlet. Although Flume
Types IV, V, VII & VIII show Elbows on the Special Plan, they
are not called for in the construction note. They should be
shown in Comp's. and also on Cross Sections, if applicable.
(FLUME TYPE III HAS BEEN VOIDED)
SECTION D   CONCRETE NOTES

INFORMATION ONLY

Sta. ___+__ Lt.
Build ___’ Concrete Terrace
Steps. ___-Risers, ___ Lin. Ft.
of Handrail. Special Plan _C.

Sta. ___+__ Lt.
Build Reinforced Concrete
Steps. ___’ Wall, ___-Risers,
___ Lin. Ft. of Handrail.
Special Plan _C.

Sta. ___+__ to
Sta.____+__
Build ___ Lin. Ft. of
___’ Concrete Retaining Wall,
___ Surface. ___-Entrance
Corners and ___-Wall Corners.
Special Plan _C.

Sta. ___+__ to
Sta.____+__ Rt.
Build MSE Wall.
Special Plan _C.

Sta. ___+__
Build ___ Lin. Ft. of Concrete
Ditch Lining with Type ‘___’
Inlet. Plan 455.

Sta. ___+__ to
Sta.____+__
Build ___’ Concrete Island
Nose. Plan 301-R_.

Sta. ___+__ to
Sta.____+__
Remove ___ Sq. Yds. of
Pavement & Build Concrete
Island Nose. Plan 301-R_.

CELL NAME

D08
D09
D10
D11
D12
D13
D14
SECTION D  CONCRETE NOTES

INFORMATION ONLY

CELL NAME

D15  Sta. ___+__ to  
    Sta. ___+__  
    Build __ Sq. Yds. of  
    Concrete Median Surfacing.  
    Plan 301-R_.

D16  Sta. ___+__ to  
    Sta. ___+__ Lt.  
    Remove __ Sq. Yds. of Walk &  
    Build __ Sq. Yds. of __'  
    Concrete Sidewalk.  
    Plan 301-R_.

D17  Sta. ___+__ Rt.  
    Build Curb Ramp, Type __.  
    Special Plan _C.

D18  Sta. ___+__ to  
    Sta. ___+__  
    Build __ Lin. Ft. of Concrete  
    Curb, Type __.  Plan 301-R_.

D19  Sta. ___+__ to  
    Sta. ___+__  
    Build __ Lin. Ft. of Concrete  
    Median Curb.  Plan 301-R_.

D20  Sta. ___+__ to  
    Sta. ___+__ Rt.  
    Build __ Lin. Ft. of Concrete  
    Barrier Curb.  Plan 301-R_.

D21  Sta. ___+__ to  
    Sta. ___+__ Rt.  
    Build __ Lin. Ft. of  
    __' Combination Concrete  
    Curb & Gutter.  Plan 301-R_.

Do not specify type of material when removing walk.

State the width of the New Sidewalk in the note.

Curb Ramps are subsidiary to ‘SIDEWALK CONSTRUCTION’
Curb Ramp Areas (Sq. Yds.) Included In Sidewalk quantity.

When new Conc. Pavement is placed adjacent to  
existing concrete, it is necessary to install Tie Bars.

It is NOT necessary to show the Tie Bars in  
plan view. (Sheet 2-T is sufficient).

DO NOT place ‘INSTALL TIE BAR’ note on the plans.

But, you DO have to submit a Tie Bar summary of  
quantities for the 2-S Sheet.

COMBINATION CONCRETE CURB & GUTTER
Min. width = 2'-0", Max. width = 3'-6"
NO Joints... NO steel... NO subgrade Prep.
<table>
<thead>
<tr>
<th>SECTION D</th>
<th>CONCRETE NOTES</th>
<th>SHEET NO. 6-D</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFORMATION ONLY</td>
<td>CELL NAME</td>
<td></td>
</tr>
<tr>
<td>'CONCRETE BASE COURSE'</td>
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<td>With curb...joints ARE required</td>
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<td>W/O curb...joints are NOT required.</td>
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<td>If built in more than 1-longitudinal pour, you must show</td>
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<tr>
<td>the additional longitudinal joint and the Tie Bars on the</td>
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<td>2-T Sheet.</td>
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<td>DO NOT call out widening in the note. Yes you may be</td>
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<td>widening the pavement, but the 'Pay Item' is Base Course.</td>
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<td>FOR PATCHING CONCRETE WITH CONCRETE:</td>
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<td>1-note for each lane of traffic.</td>
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<td>2-5 Sq. Yds. = Type &quot;A&quot;</td>
<td>Sta. _<strong>+</strong> to</td>
<td>D22</td>
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<tr>
<td>6-15 Sq. Yds. = Type &quot;B&quot;</td>
<td>Sta. _<strong>+</strong> Rt.</td>
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<td>over 15 Sq. Yds. = Type &quot;C&quot;</td>
<td>Build __ Sq. Yds. of Conc.</td>
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<td>Base Course. Plan 301-R_.</td>
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<td>NOTE: A removal note is not needed (Subsidiary).</td>
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<td>FOR PATCHING CONCRETE WITH ASPHALT:</td>
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<td>1-note for each lane of traffic.</td>
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<td>2-5 Sq. Yds. = Type &quot;A&quot;</td>
<td>Sta. _<strong>+</strong></td>
<td>D23</td>
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<td>6-15 Sq. Yds. = Type &quot;B&quot;</td>
<td>Build __ Sq. Yds. of</td>
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<td>over 15 Sq. Yds. = Type &quot;C&quot;</td>
<td>Concrete Pavement Patching,</td>
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<td>Type ___.</td>
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<td>FOR PATCHING ASPHALT WITH ASPHALT:</td>
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<td>Paid for as Equipment Rental.</td>
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<td>When you have this situation, a note IS NOT needed on the plans. However, the 2-5 Sheet</td>
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<td>will have a quantity for ‘Asphaltic Concrete (or Bituminous) for Patching.’</td>
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<td>1-note for each lane of traffic.</td>
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<td>2-5 Sq. Yds. = Type &quot;A&quot;</td>
<td>Sta. _<strong>+</strong></td>
<td>D24</td>
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<td>6-15 Sq. Yds. = Type &quot;B&quot;</td>
<td>Build __ Sq. Yds. of</td>
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<td>over 15 Sq. Yds. = Type &quot;C&quot;</td>
<td>Pavement Repair.</td>
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</table>
SECTION E  RURAL DRIVE AND INTERSECTIONS NOTES  SHEET NO. 1-E

RURAL DRIVES & INTERSECTIONS NOTES SHEET INDEX

SHEET 1-E  RURAL DRIVES AND INTERSECTIONS NOTES SHEET INDEX

SHEET 2-E  RURAL DRIVES & INTERSECTIONS NOTES LIST

SHEET 3-E
E01 - Lay Driveway Pipe & Build Earth Drive
E02 - Driveway Pipe - Remove, Relay & Extend & Build Earth Drive
E03 - Build Earth Drive & Surface
E04 - Build Earth Drive
E05 - Remove & Relay C.M. Drive Pipe
E06 - Relay C.M. Drive Pipe
E07 - Surface 3-Way Intersection
E08 - Surface 4-Way Intersection

SHEET 4-E
E09 - Surface Driveway
E10 - Build 3-Way Intersection
E11 - Build 4-Way Intersection
E12 - Build ___ Tons of Gravel Surface Course
E13 - Build ___ Cu. Yds. of Gravel Surface Course
E14 - Build ___ Tons of Crushed Rock Surface Course
E15 - Build ___ Cu. Yds. of Crushed Rock Surface Course
RURAL DRIVES & INTERSECTIONS NOTES LIST

E01 - Lay Driveway Pipe & Build Earth Drive
E02 - Driveway Pipe - Remove, Relay & Extend & Build Earth Drive
E03 - Build Earth Drive & Surface
E04 - Build Earth Drive
E05 - Remove & Relay C.M. Drive Pipe
E06 - Relay C.M. Drive Pipe
E07 - Surface 3-Way Intersection
E08 - Surface 4-Way Intersection
E09 - Surface Driveway
E10 - Build 3-Way Intersection
E11 - Build 4-Way Intersection
E12 - Build ___ Tons of Gravel Surface Course
E13 - Build ___ Cu. Yds. of Gravel Surface Course
E14 - Build ___ Tons of Crushed Rock Surface Course
E15 - Build ___ Cu. Yds. of Crushed Rock Surface Course
Use Note E01 for Rural Drives.

Concrete, Asphalt & Gravel are all types of surfacing.

The width shown in the note is for an Earth Drive. The 2-S Sheet will show the width of the surfacing (Normally 24').

"Lay" Driveway Pipes & "Build" Road/Crossroad Pipes.

You DO NOT need to note (Salvage) when "Removing and Relaying" a driveway pipe.

"Surface Intersection" notes are for Resurfacing Projects.

E01  Sta. ___+__ Lt.
     Lay ___" x ___' Driveway Culvert Pipe & Build Earth Drive (___' Wide) on ___% Grade & Surface. See Sheet 2-S.

E02  STA. ___+__ RT.
     ___" x ___' C.M. DR. PIPE
     Remove, Relay & Extend __', 1-Conn. Band & Build Earth Drive (___' Wide) on ___% Grade.

E03  Sta. ___+__ Lt.
     Build Earth Drive (___' Wide) on ___% Grade & Surface. See Sheet 2-S.

E04  Sta. ___+__ Lt.
     Build Earth Drive (___' Wide) on ___% Grade for ___' then ___%.

E05  STA. ___+__ RT.
     ___" x ___' C.M. DR. PIPE
     Remove and Relay at Sta. ___+__ Rt.

E06  Sta. ___+__ Rt.
     Relay ___" x ___' Corrugated Metal Drive Pipe from Sta. ___+__ Lt., Extend ___'
     1-Conn. Band & Build Earth Drive (___' Wide) on ___% Grade.

E07  Surface 3-Way Intersection. See Sheet 2-S.

E08  Surface 4-Way Intersection. See Sheet 2-S.
<table>
<thead>
<tr>
<th>Cell Name</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>E09</td>
<td>Sta. _<strong>+</strong> Rt. Surface Driveway. See Sheet 2-S.</td>
</tr>
<tr>
<td>E10</td>
<td>Build 3-Way Intersection. See Sheet 2-S.</td>
</tr>
<tr>
<td>E11</td>
<td>Build 4-Way Intersection. See Sheet 2-S.</td>
</tr>
<tr>
<td>E12</td>
<td>Sta. _<strong>+</strong> to Sta. _<strong>+</strong> Build __ Tons of Gravel Surface Course.</td>
</tr>
<tr>
<td>E13</td>
<td>Sta. _<strong>+</strong> to Sta. _<strong>+</strong> Build __ Cu. Yds. of Gravel Surface Course.</td>
</tr>
<tr>
<td>E14</td>
<td>Sta. _<strong>+</strong> to Sta. _<strong>+</strong> Build __ Tons of Crushed Rock Surface Course.</td>
</tr>
<tr>
<td>E15</td>
<td>Sta. _<strong>+</strong> to Sta. _<strong>+</strong> Build __ Cu. Yds. of Crushed Rock Surface Course.</td>
</tr>
</tbody>
</table>

"Build Intersection" notes are for Full Grading Projects, or Intersections that are new.

Surface Course:
Paid by the Ton for Districts 1, 2 & 3.
Paid by Cu. Yds. for the other Districts.

If it is intended for the contractor to spread the gravel, the designer must include a note with the Comp. File for a Special Provision to be written.
SECTION F   MEDIAN CROSSES,
MAINTENANCE TURNAROUNDS
AND TEMPORARY NOTES

MEDIAN CROSSES, MAINT. TURNAROUNDS &
TEMPORARY ROADS NOTES SHEET INDEX

SHEET 1-F  MEDIAN CROSSES, MAINT. TURNAROUNDS &
TEMPORARY ROADS NOTES SHEET INDEX

SHEET 2-F  MEDIAN CROSSES, MAINT. TURNAROUNDS &
TEMPORARY ROADS NOTES LIST

SHEET 3-F  Temporary Surfacing - Phasing Legend

SHEET 4-F  F01 - Build Corrugated Metal Pipe
            F02 - Build Median Crossover
            F03 - Surface Maintenance Turnaround
            F04 - Build Maintenance Turnaround

SHEET 5-F  F05 - Install Twin Corrugated Metal Pipe
            F06 - Build Twin Corrugated Metal Pipe
            F07 - Build C.M. Pipe w/Temp. C.M. Pipe Extension
SECTION F   MEDIAN CROSSOVERS,
MAINTENANCE TURNAROUNDS
AND TEMPORARY NOTES

MEDIAN CROSSOVERS, MAINT. TURNAROUNDS &
TEMPORARY ROADS NOTES LIST

F01 - Build Corrugated Metal Pipe
F02 - Build Median Crossover
F03 - Surface Maintenance Turnaround
F04 - Build Maintenance Turnaround
F05 - Install Twin Corrugated Metal Pipe
F06 - Build Twin Corrugated Metal Pipe
F07 - Build C,M, Pipe w/Temp, C,M, Pipe Extension
The Special Provisions will tell how to pay for the removal of the surfacing and the embankment.

Need Excavation of established quantity for Temporary Road removal shown in Earthwork notes. The Comps. need to state removal quantity and whether or not it is to be removed by milling.

"Temporary Surfacing" includes Asphalt or Concrete (Contractors Option).

The removal of temporary surfacing is included in the cost of placing the Temporary Surfacing. (Same contractor that put it in - removes it)

NOTE: It is only Temporary if it is removed under the same project as it was built.

Show Construction with symbology and legend. The symbol selected must be unique to project. Typical Section is NOT required if this Legend is used. A Construction Note on plans is NOT required.

TEMPORARY SURFACING - (PHASING)

LEGEND

Temporary Surfacing

LEGEND

Temporary Asphaltic Concrete Pavement (on prepared subgrade)
(or Concrete whichever is specified)

LEGEND

Temporary Asphaltic Concrete Pavement
(or Concrete whichever is specified)
Median Drainage & Crossovers:
If the pipe is to be furnished by the State, use the term "Install" rather than "Build"
Special Plan _C and/or See Sheet 2-T.

**Crossovers**

**F01**
Sta. ___+___ to
Sta. ___+___
Build __" x __' Corrugated Metal Pipe. Special Plan _C.

**F02**
Sta. ___+___
Build Median Crossover. Special Plan _C.

**Maintenance Turnarounds**

**F03**
Sta. ___+___
Surface Maintenance Turnaround. See Sheet 2-T.

**F04**
Sta. ___+___
Build Maintenance Turnaround. See Sheet 2-T.

When only surfacing an existing Maintenance Turnaround.

When Building a new Maintenance Turnaround (Includes Surfacing)
INFORMATION ONLY

Use the term 'Install' if the pipe is to be furnished by the State.

Use the term 'Build' if the pipe is to be furnished by the Contractor.

Remove Temporary Road with item Excavation (Established Quantity). Pipe removal is subsidiary to 'Excavation Established Quantity'.

DO NOT call for the Temporary Pipes to be removed. The removal of pipes will be subsidiary to the obliteration of the Temporary Road. It will be noted in the Spec's if it is to be Salvaged.

Show Embankment Quantity required to build Temporary Road with Earthwork Note.

Do NOT place build note for Temporary Road surfacing on plans. It is covered on the 2-T Sheet.

Normally a Temporary Road will have it's own unique & stationing (i.e. 7000), also it's own plan & profile sheet and has a Typical Section drawn on the 2-T Sheets.

The Temporary Road & is shown, and labeled on the project plan & profile sheet. Temporary Road details should NOT be shown on the mainline plans.

Add this note to the mainline plans:

DNST
For Details not shown see Temporary Road Plan & Profile Sheet

Place Horizontally on Plan Portion of Plan & Profile Sheet.

Show the dimension for final pipe size. Removing Temp. Pipe and reinstalling the F.E.S. is covered in the Special Provisions.

If you are phasing the construction of a drainage structure, handle on the drainage cross sections, with dimensions, stating Phase 1, Phase 2.

DO NOT phase the construction notes in the plans.

EXAMPLE: (EXTENDING EXISTING PIPE)
TEMPORARY ROAD (W/TEMP. PIPE)
(SEE NOTE C12)

STA. _____+_____
____"X _____' C.M. PIPE W/HDWLS.
D.A.=__Ac., Q=___cfs, H.W.=___'
Remove Headwalls & Extend ___' Lt. & ___' Rt. Build Metal Flared End Sections.
Plan 410-R-. ___° Elbow,
=Conn. Band. (Temporary: Includes ___' C.M. Pipe & ___° Elbow)
Exc.=__ Cu. Yds.
SECTION G   SEWER NOTES

SEWER NOTES SHEET INDEX

SHEET 1-G
SEWER NOTES SHEET INDEX

SHEET 2-G
SEWER NOTES LIST

SHEET 3-G
G01 - Build Round Equivalent Reinforced Concrete Sewer Pipe
G02 - Build Reinforced Concrete Sewer Pipe
G03 - Build Junction Box
G04 - Build Curb Inlet
G05 - Build Manhole w/Cast Iron Cover
G06 - Adjust Manhole to Grade & Build Cast Iron Cover
G07 - Build Manhole Type "_"

SHEET 4-G
G08 - Adjust Manhole to Grade
G09 - Adjust Water Valve to Grade
G10 - Reconstruct Manhole
G11 - Repair Inlet Top
G12 - Build Median Inlet
G13 - Build Area Inlet w/Grate
G14 - Build Area Inlet w/Bar
G15 - Build Area Inlet w/Pedestrian Guard
SECTION G SEWER NOTES

SEWER NOTES LIST

G01 - Build Round Equivalent Reinforced Concrete Sewer Pipe
G02 - Build Reinforced Concrete Sewer Pipe
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G09 - Adjust Water Valve to Grade
G10 - Reconstruct Manhole
G11 - Repair Inlet Top
G12 - Build Median Inlet
G13 - Build Area Inlet w/Grate
G14 - Build Area Inlet w/Bar
G15 - Build Area Inlet w/Pedestrian Guard
INFORMATION ONLY

CELL NAME

G01 Sta. ___+__
Build __" x __' Round Equivalent Reinforced Concrete Sewer Pipe w/Inlet & Outlet in Curb Inlet.

G02 Sta. ___+__
Build __" x __'
Reinforced Concrete Sewer Pipe w/Inlet in Curb Inlet & Outlet in Junction Box.

G03 Sta. ___+__
Build Junction Box,
Plan 443-R_, X = __'-__'', Y = __'-__'' x Y = __'-__''

G04 Sta. ___+__
Build Curb Inlet.
Plan 443-R_, X = __'-__'', A = __'-__'', Y = __'-__''

G05 Sta. ___+__
Build Manhole w/Cast Iron Cover, Type __, Frame & Flange. Plan 435-R_.

G06 Sta. ___+__
Adjust Manhole to Grade & Build Cast Iron Cover, Type __ Frame & Flange. Plan 435-R_.

G07 Sta. ___+__
Build Manhole, Type _ with Cast Iron Cover, Type _ & Frame, Type _. Plan 435-R_.

SECTION G SEWER NOTES

INFORMATION ONLY

Types of Manhole: “A”, “B” and “C”
Types “A” & “B” are round
Type “C” is square

Use Type of Manhole only if you want to eliminate the Contractor’s option.

SHEET NO. 3-G
G08  Sta. ___+__  Adjust Manhole to Grade.
G09  Sta. ___+__  Adjust Water Valve to Grade.
G11  Sta. ___+__  Repair Inlet Top.  Special Plan _C.
G12  Sta. ___+__  Build Median Inlet.  Special Plan _C.  X = ___'-__".
G13  Sta. ___+__  Build Area Inlet with Grate.  Type __.  Special Plan _C.  X= ___'-__".
G14  Sta. ___+__  Build Area Inlet with Bar.  Special Plan _C.  X= ___'-__".
G15  Sta. ___+__  Build Area Inlet w/Pedestrian Guard.  Special Plan _C.
SECTION H   REMOVAL NOTES

REMOVAL NOTES SHEET INDEX

SHEET 1-H   REMOVAL NOTES SHEET INDEX
SHEET 2-H   REMOVAL NOTES LIST
SHEET 3-H
H01 - Remove Fence
H02 - Remove Discharge Structure
H03 - Remove Concrete Ditch Liner
H04 - Remove Driveway
H05 - Remove Asphalt Surface
H06 - Remove Concrete Median Surfacing
H07 - Remove Pavement
H08 - Remove Concrete Pavement & Crush
H09 - Remove Walk

SHEET 4-H
H10 - Remove Combination Curb and Gutter
H11 - Remove Curb See Sheet 2-T
H12 - Remove Curb
H13 - Remove Guardrail (Sta.)
H14 - Remove Guardrail (Sta. to Sta.)
H15 - Remove Guard Posts
H16 - Clear Tract
H17 - Remove Building

SHEET 5-H
H18 - Abandon Well
H19 - Remove Curb Inlet
H20 - Remove Retaining Wall
H21 - Remove __ Lin. Ft. of Retaining Wall
H22 - Remove __ Lin. Ft. of Concrete Barriers
H23 - Remove Sign, Post & Footing
Delineator Removal Information
SECTION H   REMOVAL NOTES

REMOVAL NOTES LIST

H01 - Remove Fence
H02 - Remove Discharge Structure
H03 - Remove Concrete Ditch Liner
H04 - Remove Driveway
H05 - Remove Asphalt Surface
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H11 - Remove Curb See Sheet 2-T
H12 - Remove Curb
H13 - Remove Guardrail (Sta.)
H14 - Remove Guardrail (Sta., to Sta.)
H15 - Remove Guard Posts
H16 - Clear Tract
H17 - Remove Building
H18 - Abandon Well
H19 - Remove Curb Inlet
H20 - Remove Retaining Wall
H21 - Remove __ Lin. Ft. of Retaining Wall
H22 - Remove __ Lin. Ft. of Concrete Barriers
H23 - Remove Sign, Post & Footing
SECTION H  REMOVAL NOTES  SHEET NO. 3-H

INFORMATION ONLY

The Existing Topography should indicate the type of Fence (such as Wood, Chain Link, or Ornamental) if it requires a special removal note.

Sta. ___+__ Remove __ Lin. Ft. of Fence.

Discharge Structure is removed as 1-each. This note can be used to remove "Approach Slab Drains". It can include the Inlet and also the Outlet Pipe. The Crossroad Pipe needs to be removed separately.

Sta. ___+__ DISCHARGE STRUCTURE. Remove.

Sta. ___+__ to Sta. ___+__ Lt.
Remove __ Sq. Yds. of Concrete Ditch Liner.


For removing Concrete or Asphalt driveway DO NOT specify the type of material to be removed. If asphalt can be buried in vicinity of driveway, a note is NOT required (Full Grading or Safety Section).

Sta. ___+__ Remove __ Sq. Yds. of Driveway.

NOTE: Removing Earth Drives does NOT require a note.

This applies to Existing Asphalt. If asphalt surface is to be removed by 'Milling' it will be shown on the 2-T sheet and addressed in the Special Provisions. In this case a removal note on the Plans is NOT required.

Sta. ___+__ Remove __ Sq. Yds. of Asphalt Surface.

For the exception to this note, see Temporary Road Removal Information in Section F.

Sta. ___+__ Remove __ Sq. Yds. of Concrete Median Surfacing.

Asphalt Median Surfacing is removed as 'ASPHALT SURFACE'.

Sta. ___+__ to Sta. ___+__ Remove __ Sq. Yds. of Pavement.

This applies to Existing Asphalt. If asphalt surface is to be removed by 'Milling' it will be shown on the 2-T sheet and addressed in the Special Provisions. In this case a removal note on the Plans is NOT required.

Sta. ___+__ to Sta. ___+__ Remove __ Sq. Yds. of Pavement.

On a rural project, you do not need a note if all of the roadway is being removed, nor do you need to cross hatch the roadway. But, if the roadway is being partially removed, or various segments are being removed, a note is required and the roadway area should show removal cross hatching.

Sta. ___+__ to Sta. ___+__ Remove __ Sq. Yds. of Concrete Pavement & Crush.

'PAVEMENT' includes Concrete, Asphalt & Brick. If 'BRICK SURFACE' is to be removed a Special Provision is required. Do NOT show the thickness of the pavement to be removed on the plans.
(Integral Curb can also be removed with the Rdwy. Pvm't)

Sta. ___+__ to Sta. ___+__ Lt.
Remove __ Sq. Yds. of Walk.
SECTION H  REMOVAL NOTES  SHEET NO. 4-H

INFORMATION ONLY  CELL NAME

H10  Sta. ___+__ to  
      Sta. ___+__ Lt.  
      Remove __ Lin. Ft. of  
      Combination Curb and Gutter.

H11  Sta. ___+__ to  
      Sta. ___+__ Lt.  
      Remove __ Lin. Ft. of Curb.  
      See Sheet 2-T.

H12  Sta. ___+__ to  
      Sta. ___+__ Lt.  
      Remove __ Lin. Ft. of Curb.

H13  Sta. ___+__  
      Remove __ Lin. Ft. of  
      Guardrail.

H14  Sta. ___+__ to  
      Sta. ___+__ Lt.  
      Remove __ Lin. Ft. of  
      Guardrail.

H15  Sta. ___+__ to  
      Sta. ___+__ Lt.  
      Remove __-Guard Posts.

H16  Sta. ___+__ to  
      Sta. ___+__ Lt.  
      Clear Tract No. ____.

H17  Sta. ___+__ to  
      Sta. ___+__ Lt.  
      Remove Building.
<table>
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<th>INFORMATION ONLY</th>
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<tr>
<td>H18</td>
<td>Sta. _<strong>+</strong> Lt.</td>
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<td>Abandon Well.</td>
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</tbody>
</table>

When removing a Curb Inlet, if a pipe is to be abandoned, you DO NOT need to call for the Plug & Abandon Special Plan, as it is subsidiary. See Std. Spec Book Section 203.

| H19       | Sta. ___+__ Lt.  |
|           | Remove Curb Inlet. |

Paid for as 1-Each when removing the entire wall.

| H20       | Sta. ___+__ to   |
|           | Sta. ___+__ Lt.  |
|           | Remove Retaining Wall. |

Paid for as Lin. Ft. when partially removing the wall.

| H21       | Sta. ___+__ to   |
|           | Sta. ___+__ Lt.  |
|           | Remove __ Lin. Ft. of Retaining Wall. |

| H22       | Sta. ___+__ to   |
|           | Sta. ___+__ Lt.  |
|           | Remove __ Lin. Ft. of Concrete Barriers. |

| H23       | Sta. ___+__ Lt.  |
|           | Remove Sign, Post & Footing. |

**DELINEATOR REMOVAL INFORMATION**

**WHEN THE CONTRACTOR REMOVES DELINEATORS**

A note is NOT needed for removing delineators. This information will be given on the Computation Sheet and in a Special Provision.

**WHEN STATE FORCES REMOVE DELINEATORS**

Use Standard Note SN20 from the 'std.cel' cell library.

SN20 = All existing delineators on this project will be removed by state forces.
SECTION J    BRIDGE NOTES

BRIDGE NOTES SHEET INDEX

SHEET 1-J    BRIDGE NOTES SHEET INDEX

SHEET 2-J    BRIDGE NOTES LIST

SHEET 3-J
J01 - Dbl. Tee Beam Bridge (Prelim. Note)
J02 - Conc. Deck Bridge (Prelim. Note)
J03 - Build Steel Girder Bridge
J04 - Build Welded Plate Bridge
J05 - Transverse Joist Bridge (Prelim. Note)
J06 - Build Continuous Girder Bridge
J07 - Prestressed Girder Bridge (Prelim. Note)
J08 - Dbl. Prestressed Girder Bridge (Widen)

SHEET 4-J
J09 - Build Multi-Span Deck Steel Girder Bridge
J10 - Treated Timber Bridge (Prelim. Note)
J11 - Pony Truss Bridge (Prelim. Note)
J12 - Prestressed Concrete Girder Bridge (Prelim. Note)
J13 - Deck Steel Girder & Timber Bridge (Prelim. Note)
J14 - Cont. Concrete Slab Bridge (Prelim. Note)
J15 - Build Conc. Slab Bridge on Skew
J16 - Build Continuous Conc. Slab Bridge

SHEET 5-J
J17 - Build Temporary Bridge
J18 - Erect Temporary Bridge
SECTION J    BRIDGE NOTES

BRIDGE NOTES LIST

J01 - Dbl. Tee Beam Bridge (Prelim. Note)
J02 - Conc. Deck Bridge (Prelim. Note)
J03 - Build Steel Girder Bridge
J04 - Build Welded Plate Bridge
J05 - Transverse Joist Bridge (Prelim. Note)
J06 - Build Continuous Girder Bridge
J07 - Prestressed Girder Bridge (Prelim. Note)
J08 - Dbl. Prestressed Girder Bridge (Widen)
J09 - Build Multi-Span Deck Steel Girder Bridge
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J11 - Pony Truss Bridge (Prelim. Note)
J12 - Prestressed Concrete Girder Bridge (Prelim. Note)
J13 - Deck Steel Girder & Timber Bridge (Prelim. Note)
J14 - Cont. Concrete Slab Bridge (Prelim. Note)
J15 - Build Conc. Slab Bridge on Skew
J16 - Build Continuous Conc. Slab Bridge
J17 - Build Temporary Bridge
J18 - Erect Temporary Bridge
### SECTION J  BRIDGE NOTES

**INFORMATION ONLY**

**CELL NAME**

| J01 | STA. __+__ #(S ______)  
-____'--'' & -____'--'' SPANS. DBL. TEE BEAM BR. W/__/ RDWY. |
| J02 | STA. __+__ #(S_______)  
-____'--'' SPANS CONC. DECK BR. W/__/ RDWY. |
| J03 | Sta. __+__ #(S_______)  
Build _-__'-__'' & _-__'-__''  
Spans Deck Steel Girder Bridge (__/ Roadway). Special Plan _. |
| J04 | Sta. __+__ #(S_______)  
Build _-__'-__'' & _-__'-__''  
Spans Continuous Welded Plate Bridge Composite Type. (__/ Rdwy). Special Plan _. |
| J05 | STA. __+__ #(S_______)  
____'-__'' SPANS TRANSVERSE JOIST BRIDGE. |
| J06 | Sta. __+__ #(S_______)  
Build _-__'-__'' & _-__'-__''  
Spans Continuous Girder Bridge (__/ Roadway). Special Plan _. |
| J07 | STA. __+__ #(S_______)  
_____'-__'' & _____'-__'' SPANS DBL. PRESTRESSED GIRDER BR. W/__/ RDWY. |
| J08 | STA. __+__ #(S_______)  
_____'-__'' & _____'-__'' SPANS DBL. PRESTRESSED GIRDER BR. W/__/ RDWY.  
(Widen to __' Roadway). Special Plan _. |

**BRIDGE PLANS ONLY**

Note that the Special Plan No. is NOT followed by the character "C".

**ABBREVIATIONS FOR EXISTING BRIDGE NOTES**

<table>
<thead>
<tr>
<th>WORD</th>
<th>ABBREVIATION</th>
</tr>
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<tbody>
<tr>
<td>Bridge</td>
<td>BR.</td>
</tr>
<tr>
<td>Tee</td>
<td>&quot;T&quot;</td>
</tr>
<tr>
<td>Double</td>
<td>DBL.</td>
</tr>
<tr>
<td>Concrete</td>
<td>CONC.</td>
</tr>
<tr>
<td>Deck</td>
<td>DK.</td>
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<tr>
<td>Steel</td>
<td>STL.</td>
</tr>
<tr>
<td>Continuous</td>
<td>CONT.</td>
</tr>
<tr>
<td>Plate</td>
<td>PL.</td>
</tr>
<tr>
<td>Viaduct</td>
<td>VIA.</td>
</tr>
<tr>
<td>Wood</td>
<td>WD.</td>
</tr>
<tr>
<td>Girder</td>
<td>GRD.</td>
</tr>
<tr>
<td>Roadway</td>
<td>RDWY.</td>
</tr>
</tbody>
</table>
| J09 | Sta. ___+__ #(S______)  
Build Multi-Span Deck Steel Girder Viaduct Continuous Composite Type (___' Roadway). Special Plan __. |
| J10 | STA. ___+__ #(S_______)  
_____''-'' & _____''-'' SPANS TREATED TIMBER BR. W/___' RDWY. |
| J11 | STA. ___+__ #(S_______)  
_____''-'' SPANS PDNY TRUSS BR. |
| J12 | STA. ___+__ #(S_______)  
_____''-'' SPANS PRESTRESSED CONC. GIRDER BR. W/___' RDWY. |
| J13 | STA. ___+__ #(S_______)  
_____''-'' SPANS DECK STEEL GIRDER & _____''-'' SPANS TIMBER BR. W/___' RDWY. |
| J14 | STA. ___+__ #(S_______)  
_____''-'' SPANS CONT. CONC. SLAB BR. ON ___° SKEW W/___' RDWY. |
| J15 | Sta. ___+__ #(S_______)  
Build ___'''' & ___'''' SPANS Concrete Slab Bridge on ___° Skew (___' Roadway). Special Plan __. |
| J16 | Sta. ___+__ #(S_______)  
Build ___'''' & ___'''' SPANS Concrete Slab Bridge Continuous Type. Special Plan __. |
You do not call out the size. It is addressed in the Special Provisions.

Use 'Build' when the Temp. Bridge is furnished by the Contractor.

Use 'Erect' when the Temp. Bridge is furnished by the State.

No Removal note - It is handled by Special Provision.

| J17  | Sta. ___+__  |
|      | Build Temporary Bridge. |
|      | Special Plan _ . |

| J18  | Sta. ___+__  |
|      | Erect Temporary Bridge. |
|      | Special Plan _ . |