

INDEX OF SHEETS

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STANDARDS LIST

| | |
|------|--|
| G-1 | STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS) (3/10/17) |
| G-1D | STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN) (3/10/17) |
| T-1 | TEMPORARY TRAFFIC CONTROL GENERAL NOTES (4/25/16) |

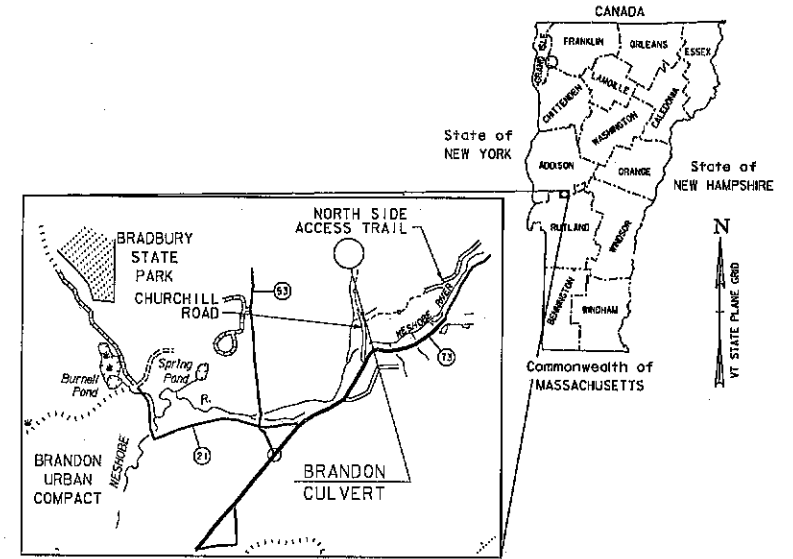
TOWN OF BRANDON, VT COUNTY OF RUTLAND PROPOSED IMPROVEMENT CULVERT PROJECT

T.H. 22 (CHURCHILL ROAD) OVER
LEICESTER HOLLOW BROOK TRIBUTARY

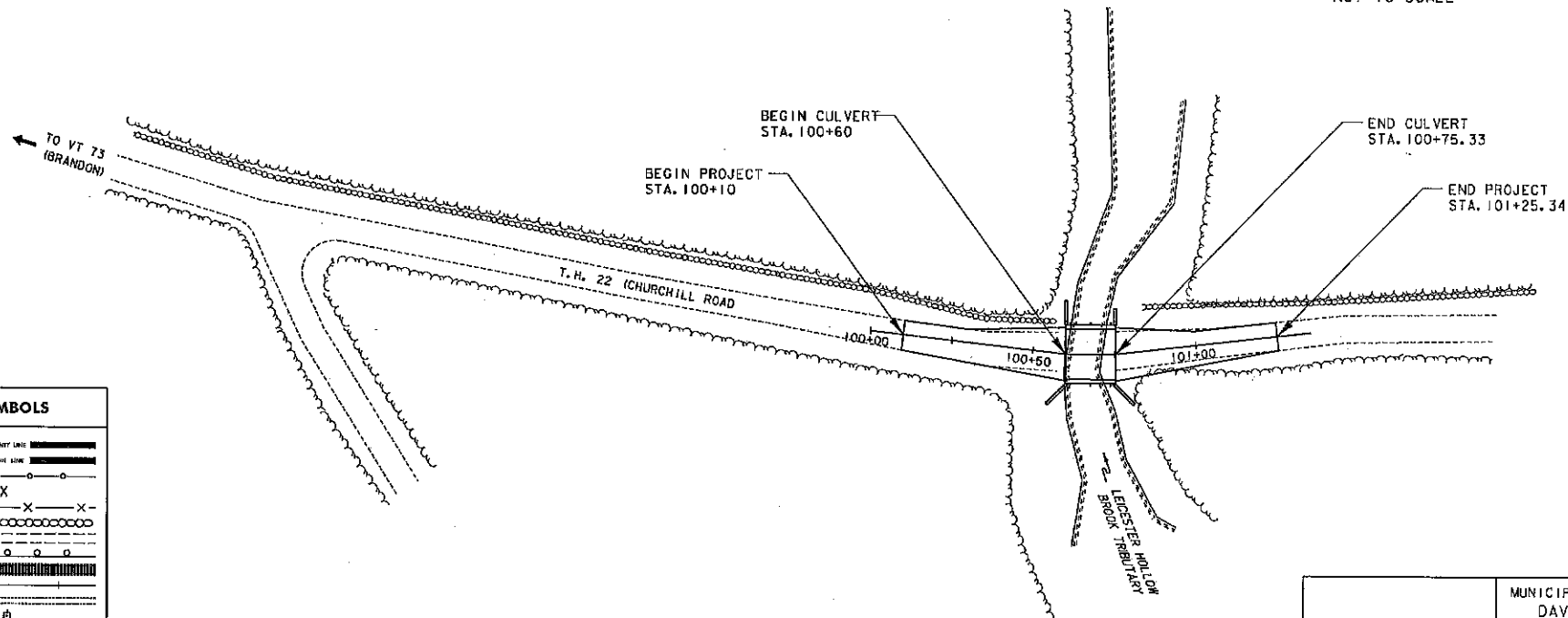
PROJECT LOCATION: BEGINNING AT A POINT ON T.H. 22, APPROXIMATELY 0.3 MILES NORTHERLY OF ITS INTERSECTION WITH VT 73, AND EXTENDING NORTHERLY 0.022 MILES.

PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE WITH PRECAST CONCRETE BOX CULVERT, WITH RELATED APPROACH AND CHANNEL WORK.

LENGTH OF STRUCTURE: 15.33 FEET = 0.003 MILES
LENGTH OF ROADWAY: 100.01 FEET = 0.019 MILES
LENGTH OF PROJECT: 115.34 FEET = 0.022 MILES



LOCATION MAP
NOT TO SCALE



CONVENTIONAL SYMBOLS

| | |
|--------------------|-----------------|
| COUNTY LINE | — — — — — |
| TOWN LINE | — — — — — |
| LIMITS OF ACCESS | — — — — — |
| POINT OF ACCESS | X |
| FENCE LINE | X — X — X — X — |
| STONE WALL | — — — — — |
| TRAVELED WAY | — — — — — |
| GUARD RAIL | — — — — — |
| RAILROAD | — — — — — |
| SURVEY LINE | — — — — — |
| CULVERT | — — — — — |
| POWER POLE | — — — — — |
| TELEPHONE POLE | — — — — — |
| TREES | — — — — — |
| CONTROL OF ACCESS | — — — — — |
| PROPERTY LINE | — — — — — |
| R.O.W. TAKING LINE | — — — — — |
| SLOPE RIGHTS | — — — — — |
| TOP OF CUT | — — — — — |
| TOE OF SLOPE | — — — — — |

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (cors 96)

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 200, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

20 0 20

McFarland Johnson

MUNICIPAL PROJECT MANAGER :
DAVID J. ATHERTON, TOWN MANAGER
APPROVED: *[Signature]* DATE 12/18/19
PROJECT NAME : BRANDON-CHURCHILL ROAD
CULVERT
PROJECT NUMBER : BRANDON CULVERT
SHEET 1 OF 10 SHEETS

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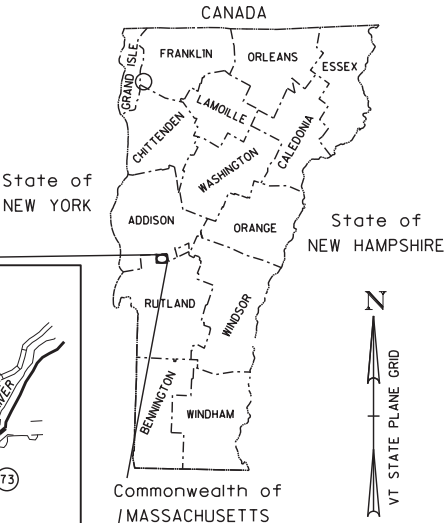
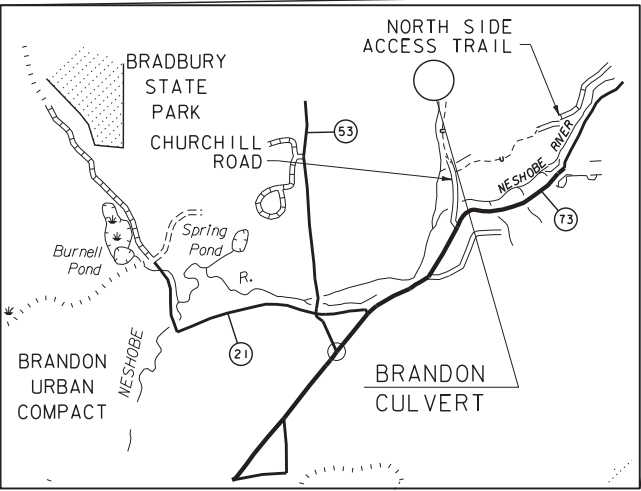
STANDARDS LIST

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| G-1 | STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS) (3/10/17) |
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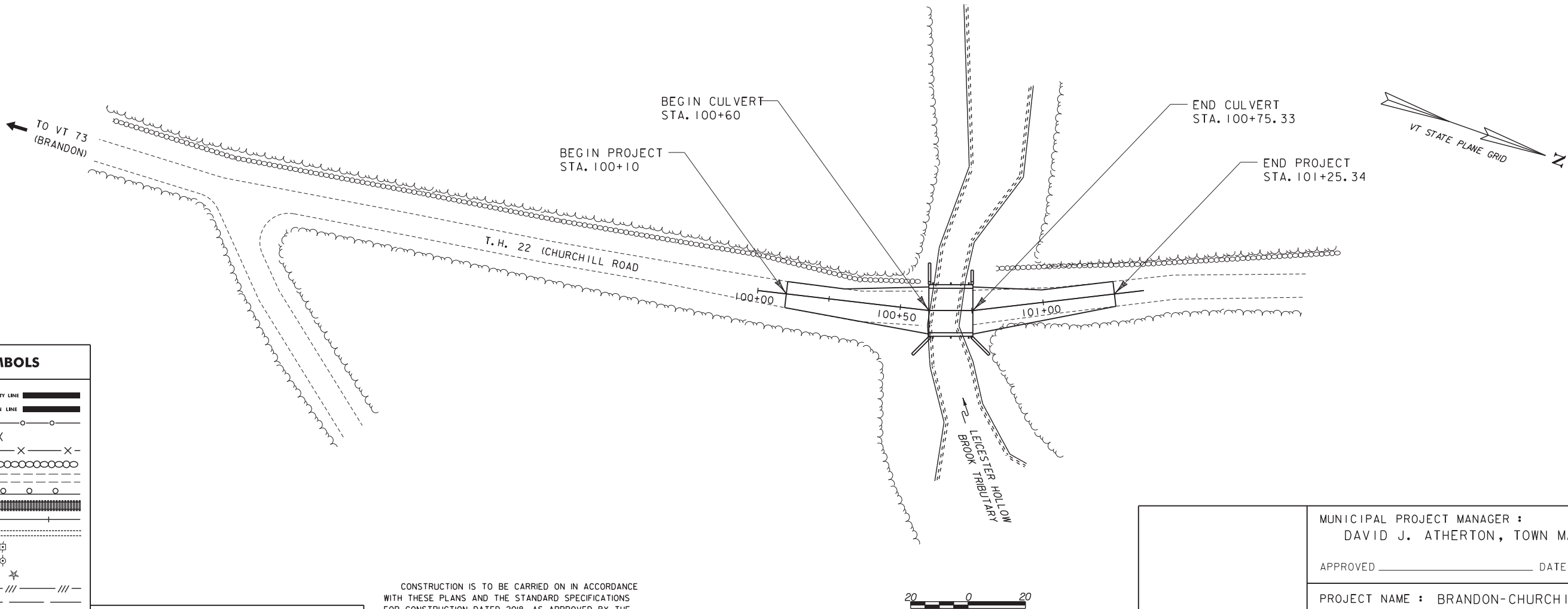
TOWN OF BRANDON, VT
COUNTY OF RUTLAND
PROPOSED IMPROVEMENT
CULVERT PROJECT

T.H. 22 (CHURCHILL ROAD) OVER
LEICESTER HOLLOW BROOK TRIBUTARY

| | |
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| PROJECT LOCATION: | BEGINNING AT A POINT ON T.H. 22, APPROXIMATELY 0.3 MILES NORTHERLY OF ITS INTERSECTION WITH VT 73, AND EXTENDING NORTHERLY 0.022 MILES. |
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| LENGTH OF STRUCTURE: | 15.33 FEET = 0.003 MILES |
| LENGTH OF ROADWAY: | 100.01 FEET = 0.019 MILES |
| LENGTH OF PROJECT: | 115.34 FEET = 0.022 MILES |



LOCATION MAP
NOT TO SCALE



CONVENTIONAL SYMBOLS

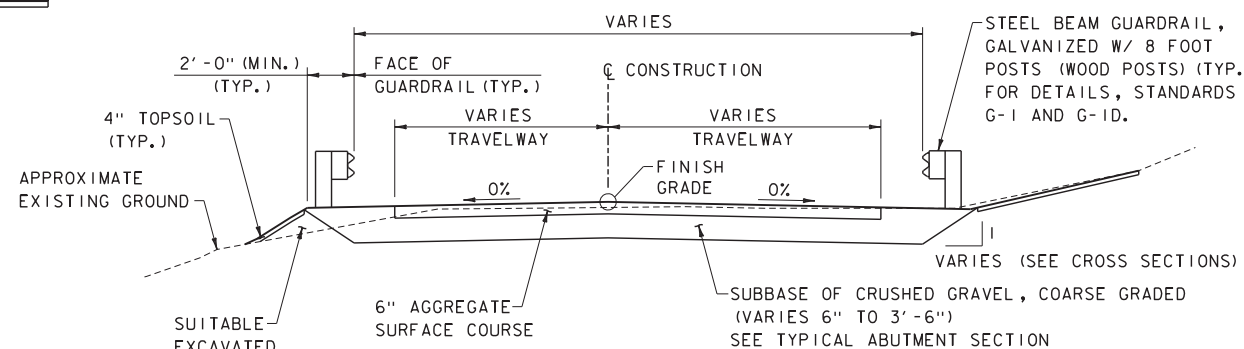
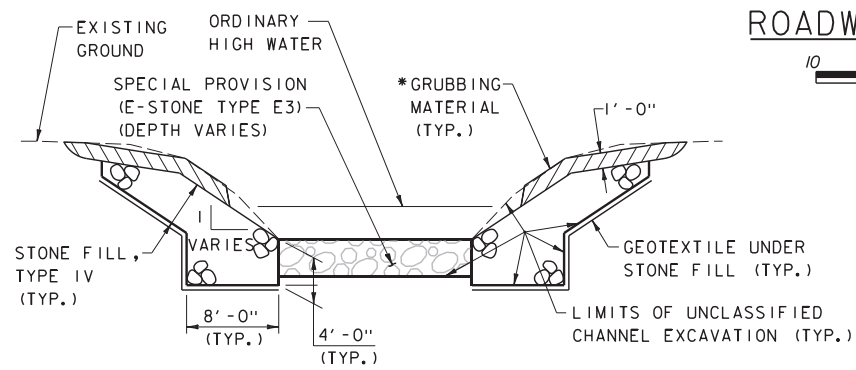
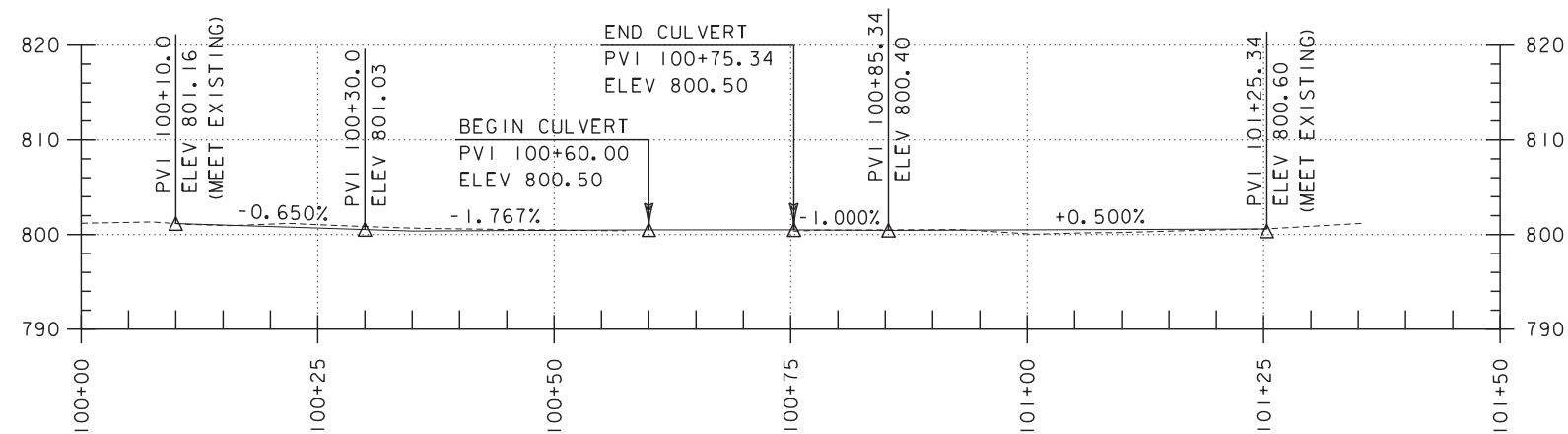
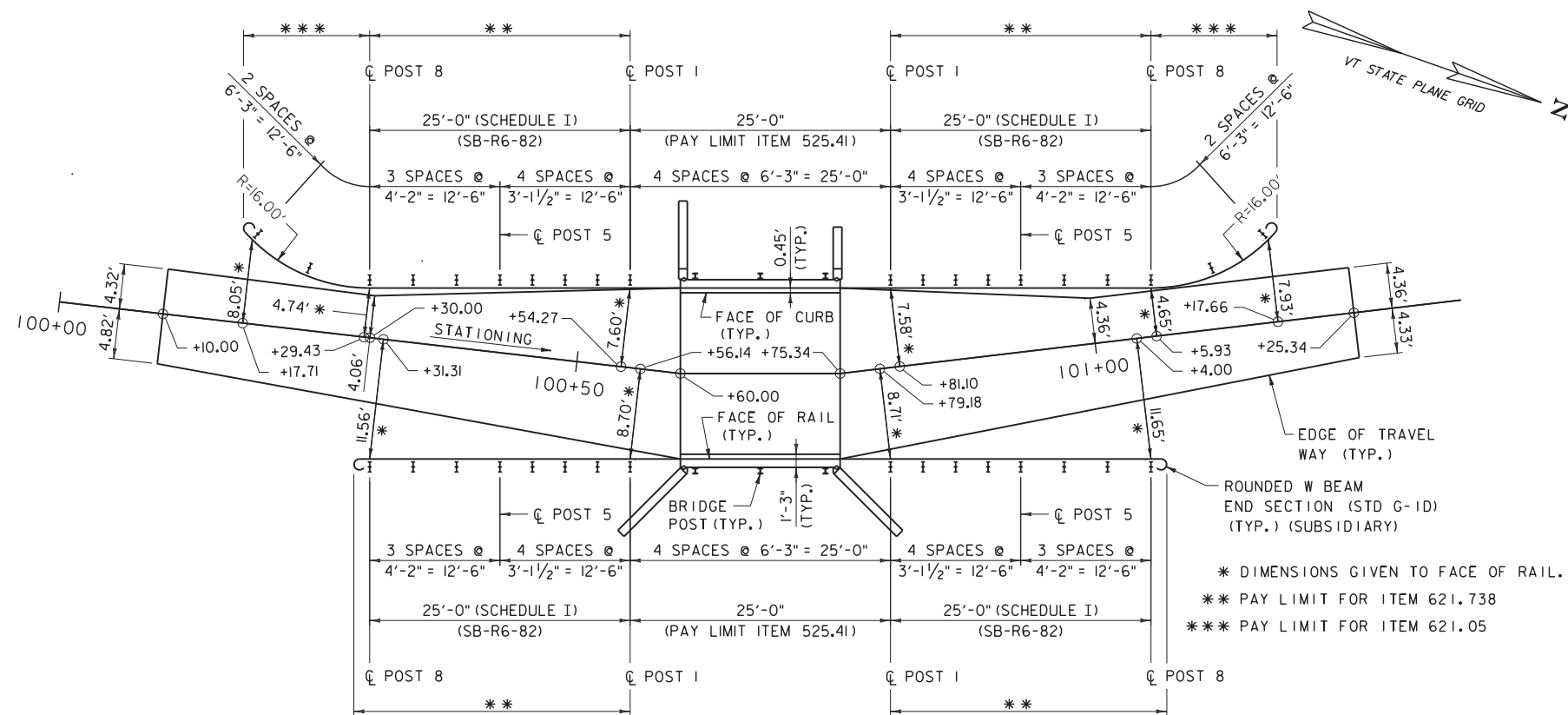
| | |
|--------------------|--------------------|
| COUNTY LINE | COUNTY LINE |
| TOWN LINE | TOWN LINE |
| LIMITS OF ACCESS | LIMITS OF ACCESS |
| POINT OF ACCESS | POINT OF ACCESS |
| FENCE LINE | FENCE LINE |
| STONE WALL | STONE WALL |
| TRAVELED WAY | TRAVELED WAY |
| GUARD RAIL | GUARD RAIL |
| RAILROAD | RAILROAD |
| SURVEY LINE | SURVEY LINE |
| CULVERT | CULVERT |
| POWER POLE | POWER POLE |
| TELEPHONE POLE | TELEPHONE POLE |
| TREES | TREES |
| CONTROL OF ACCESS | CONTROL OF ACCESS |
| PROPERTY LINE | PROPERTY LINE |
| R.O.W. TAKING LINE | R.O.W. TAKING LINE |
| SLOPE RIGHTS | SLOPE RIGHTS |
| TOP OF CUT | TOP OF CUT |
| TOE OF SLOPE | TOE OF SLOPE |

| | |
|------------|------------------|
| DATUM | |
| VERTICAL | NAVD 88 |
| HORIZONTAL | NAD 83 (cors 96) |

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.



| |
|--|
| MUNICIPAL PROJECT MANAGER : DAVID J. ATHERTON, TOWN MANAGER |
| APPROVED _____ DATE _____ |
| PROJECT NAME : BRANDON-CHURCHILL ROAD CULVERT |
| PROJECT NUMBER : BRANDON CULVERT |
| SHEET 1 OF 10 SHEETS |



PROJECT NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION, 2018 STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, AND ITS LATEST REVISIONS, AND THE LATEST AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND ITS LATEST INTERIMS.
2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION FROM ENTERING THE BROOK.
3. REMOVAL OF STRUCTURE, ITEM 529.15, SHALL INCLUDE THE TIMBER SUPERSTRUCTURE AND STONE MASONRY ABUTMENTS.
4. TEMPORARY TRAFFIC BARRIERS SHALL BE PLACED ON THE SOUTH APPROACH TO BLOCK ACCESS TO THE BRIDGE, AS DIRECTED BY THE ENGINEER. COST SHALL BE INCLUDED IN ITEM 635.11, MOBILIZATION / DEMOBILIZATION.
5. A TRAIL TO ACCESS THE NORTH SIDE IS SHOWN ON THE LOCATION MAP (SHEET 1), AND MAY BE USED BY THE CONTRACTOR, PROVIDED THE CONTRACTOR FINDS IT SUITABLE FOR THEIR USE.
6. IF BEDROCK IS ENCOUNTERED PRIOR TO ACHIEVING THE BOTTOM OF FOOTING SUBBASE ELEVATIONS PROVIDED IN THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY RESIDENT ENGINEER AND EXPOSE ROCK SURFACE WITHIN THE FOOTPRINT OF THE FOOTINGS. BASED ON THE ACTUAL ROCK SURFACE ELEVATIONS ENCOUNTERED, AS SURVEYED BY THE CONTRACTOR. THE ROCK SHALL BE EXCAVATED AND INCLUDED IN ITEM 204.25, STRUCTURE EXCAVATION.
7. THE PRECAST CONCRETE BOX CULVERT AND WINGWALLS HAVE BEEN FABRICATED BY CAMP PRECAST. COPIES OF THE STRUCTURAL DRAWINGS MAY BE OBTAINED FROM CAMP PRECAST. THE CONTRACTOR SHALL ERECT THE STRUCTURE TO THE GEOMETRY DETAILED IN THESE PLANS. SEE SPECIAL PROVISION (HANDLING, TRANSPORT AND ERECTION OF BOX CULVERT).
8. TEMPORARY TRAFFIC CONTROL DEVICES AND CONSTRUCTION SIGNING SHALL BE INCLUDED IN COST OF ITEM 635.11, MOBILIZATION / DEMOBILIZATION.
9. SURVEY TIES AND CONTROLS ARE AVAILABLE FROM THE TOWN’S SURVEYOR.
10. LIMITS OF CLEARING AND TREE REMOVAL SHALL BE DETERMINED BY THE ENGINEER. COST INCLUDED IN ITEM 201.10, CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS.
11. LIMITS OF EXISTING STONE WALL REMOVAL SHALL BE WITHIN LIMITS OF TEMPORARY CONSTRUCTION EASEMENT OR AS DIRECTED BY THE ENGINEER. COST INCLUDED IN ITEM 900.645, SPECIAL PROVISION (REMOVE AND RELOCATE EXISTING STONE WALL).

TEMPORARY RELOCATION OF STREAM NOTES:

1. THE CONTRACTOR SHALL PROVIDE TEMPORARY STREAM LOCATION BY PUMPING OR OTHER APPROVED METHODS AS REQUIRED DURING CONSTRUCTION.
2. SPECIAL PROVISION (TEMPORARY RELOCATION OF STREAM) CONCEPT ON SHEET 4 OF 10 SHOWS A POTENTIAL STREAM RELOCATION PLAN. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING THEIR OWN SPECIFIC PLAN AND DESIGN FOR DEWATERING AND STREAM RELOCATION. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. PAYMENT FOR ITEM 900.645, SPECIAL PROVISION (TEMPORARY RELOCATION OF STREAM) , WILL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING WORK:

A. PREPARATION OF THE SITE SPECIFIC TEMPORARY RELOCATION PLAN.

B. DAM(S) FOR CONTROLLING WATER.

C. BY-PASS PUMP(S) , BYPASS PIPE(S) , SLEEVE(S) AND HARDWARE.

D. ANY EXCAVATION NEEDED TO PLACE AND REMOVE THE BYPASS PIPE THAT FALLS OUTSIDE THE PAY LIMITS OF THE STRUCTURE, COMMON EXCAVATION, OR UNCLASSIFIED CHANNEL EXCAVATION AS DEFINED IN THE PLANS.

E. ANY BACKFILL NEEDED TO PLACE THE BYPASS PIPE SUCH THAT THE EXISTING STREAM ELEVATIONS WILL MAINTAIN THE FLOW OF WATER AT ALL TIMES.

F. MATERIAL AND LABOR TO PLACE THE BACKFIILL WHICH FALLS OUTSIDE THE PAY LIMITS OF THE ROADWAY SUBBASE AND GRANULAR BACKFILL FOR STRUCTURES AS DEFINED ON THE PLANS.

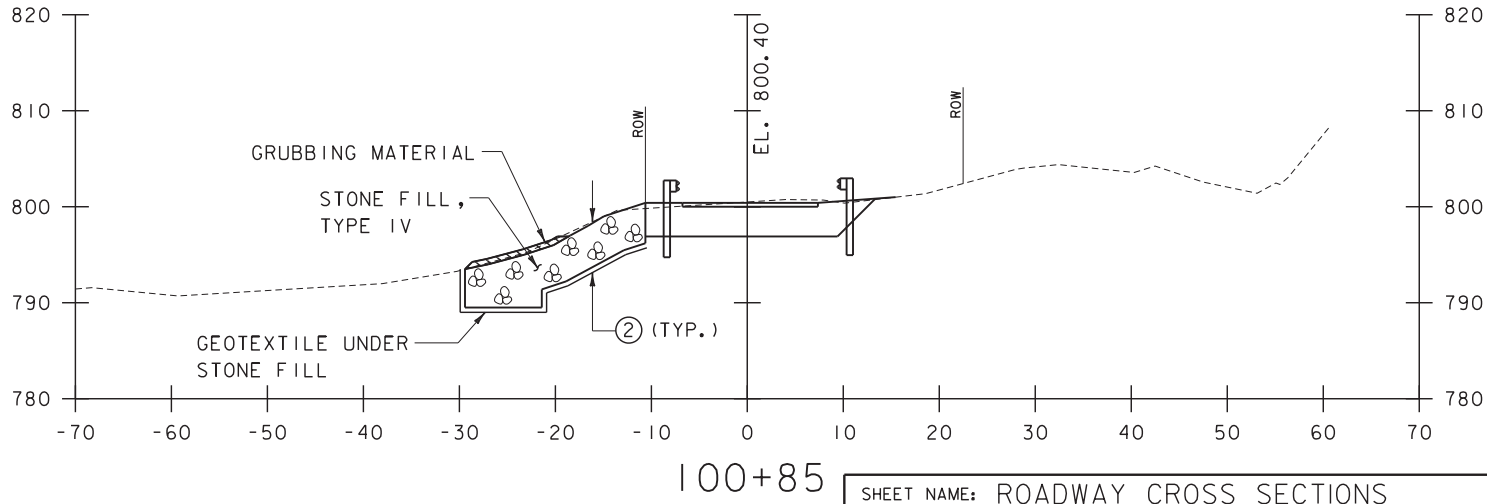
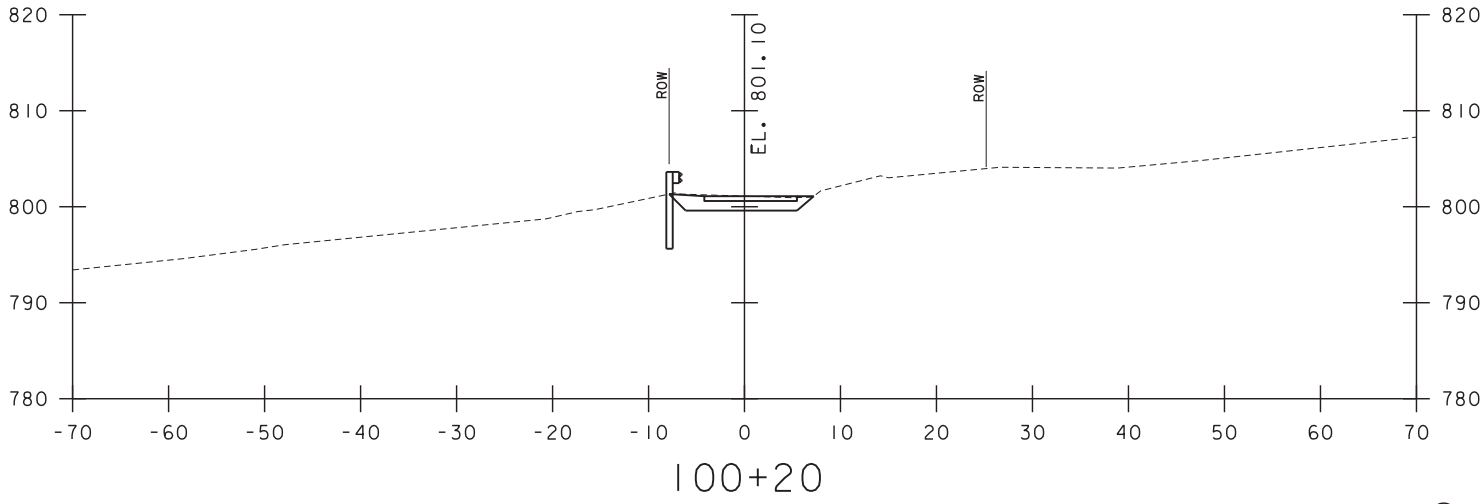
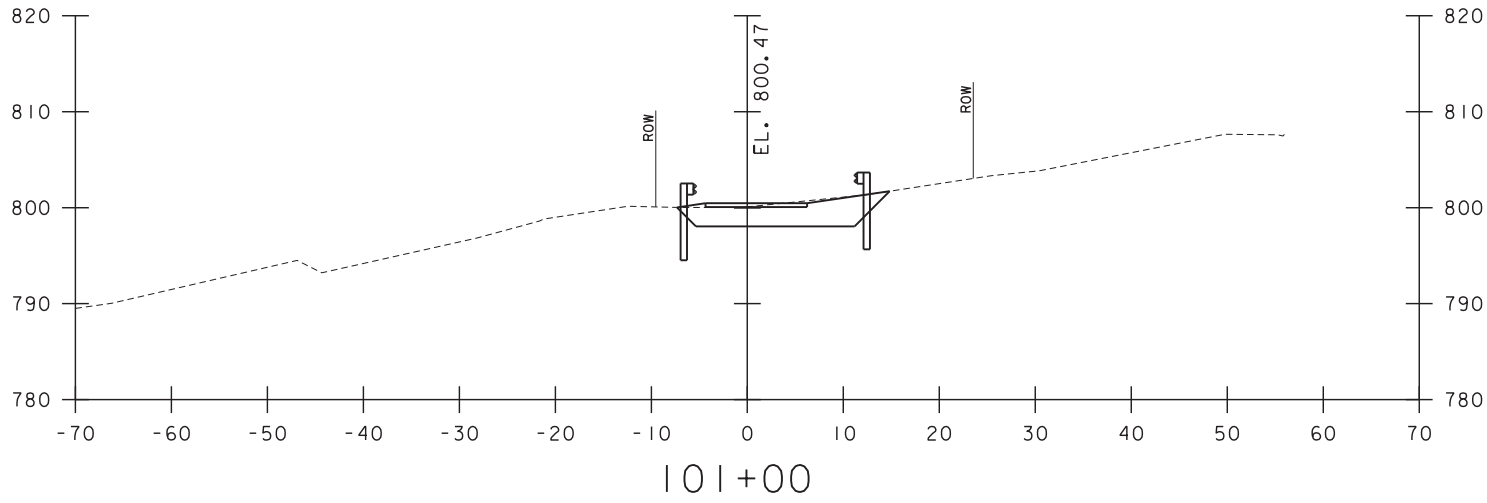
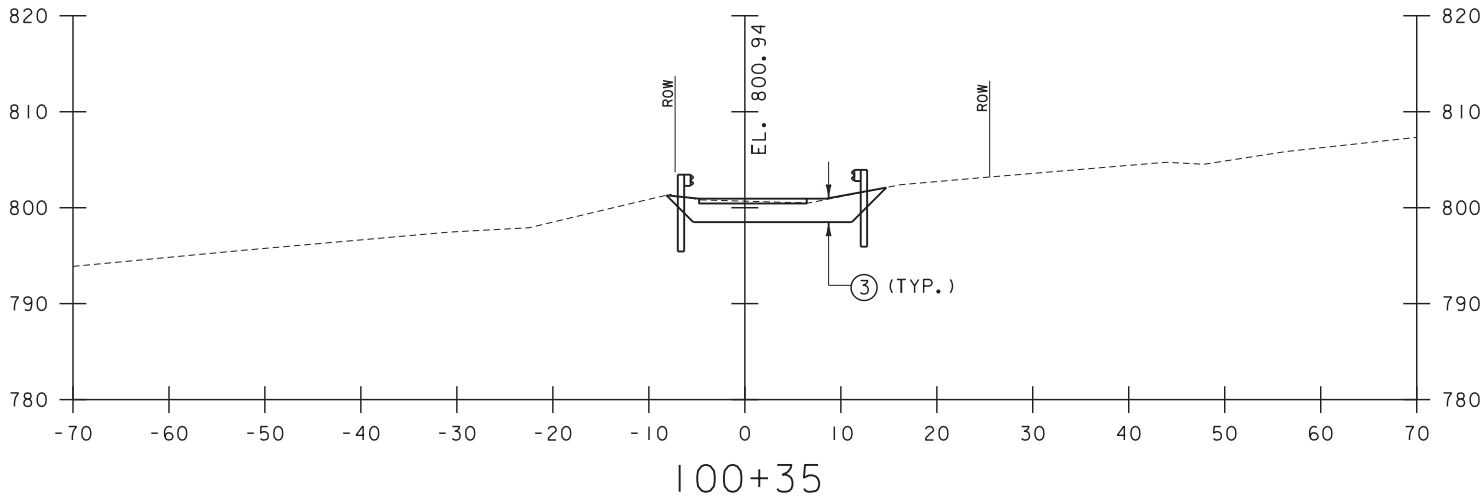
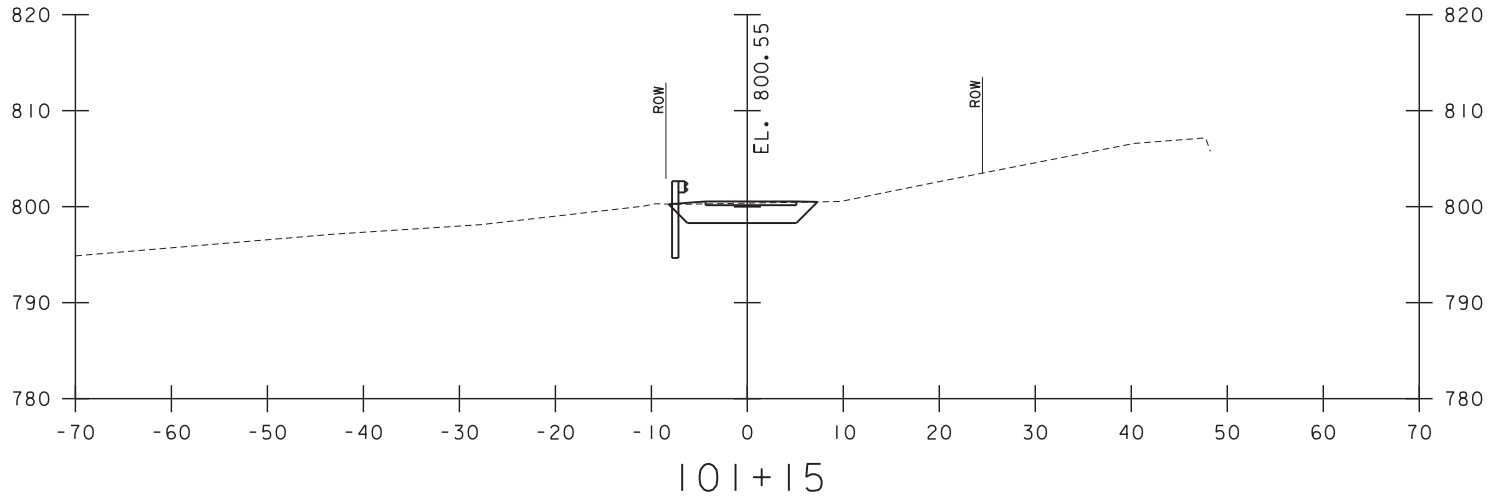
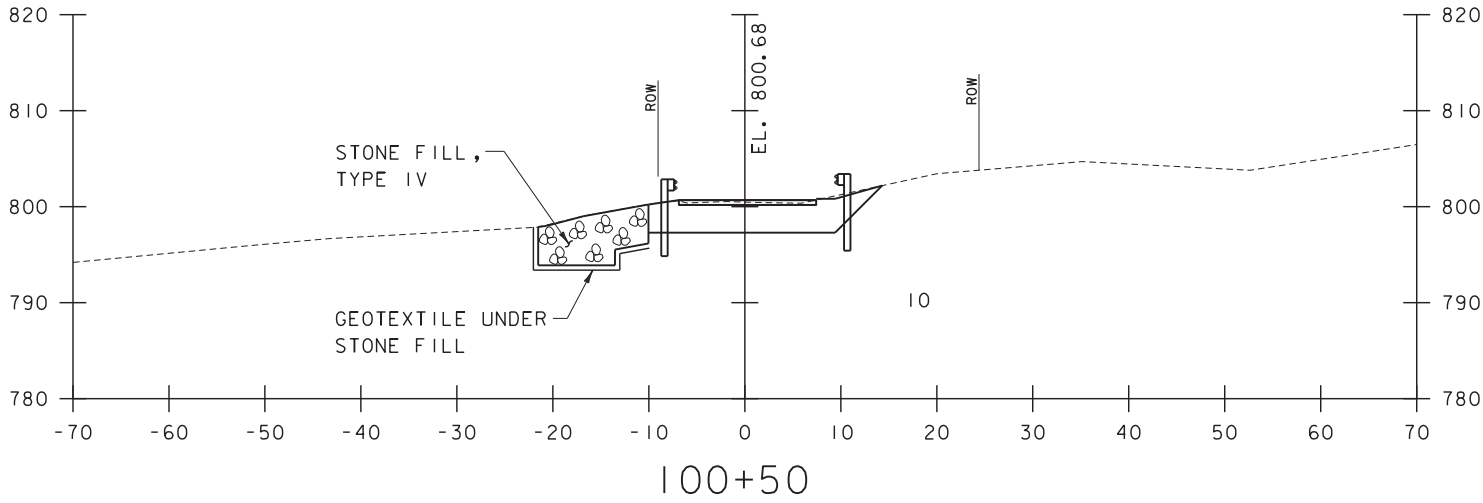
G. INCIDENTALS USED TO DIVERT THE WATER TO THE BAYPASS PIPE(S) (SANDBAGS, CHECK DAM, STONE, MATTING, SILT FENCE AND ALL EROSION CONTROL DEVICES TO SUCCESSFULLY RELOCATE THE STREAM, ETC.) TO CONSTRUCT THE CULVERT, AND RESTORE THE STREAM BED IN DRY CONDITIONS.

| ITEM NUMBER | ITEM DESCRIPTION | UNIT | TOTAL |
|-------------|---|------|-------|
| 201.10 | CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS | LS | 1 |
| 203.15 | COMMON EXCAVATION | CY | 170 |
| 203.27 | UNCLASSIFIED CHANNEL EXCAVATION | CY | 220 |
| 204.25 | STRUCTURE EXCAVATION | CY | 280 |
| 204.30 | GRANULAR BACKFILL FOR STRUCTURES | CY | 240 |
| 301.25 | SUBBASE OF CRUSHED GRAVEL, COARSE GRADED | CY | 170 |
| 401.10 | AGGREGATE SURFACE COURSE | CY | 50 |
| 525.41 | BRIDGE RAILING, GALVANIZED HD STEEL BEAMFASCIA MOUNTED | LF | 50 |
| 529.15 | REMOVAL OF STRUCTURE | EA | 1 |
| 613.13 | STONE FILL, TYPE IV | CY | 110 |
| 621.205 | STEEL BEAM GUARDRAIL, GALVANIZED W/ 8 FEET POSTS | LF | 29 |
| 621.60 | ANCHOR FOR STEEL BEAM RAIL | EA | 4 |
| 621.738 | GUARDRAIL APPROACH SECTION, GALV HD STEEL BEAM W/ 8FT POSTS | EA | 4 |
| 635.11 | MOBILIZATION / DEMOBILIZATION | LS | 1 |
| 649.31 | GEOTEXTILE UNDER STONE FILL | SY | 100 |
| 649.51 | GEOTEXTILE FOR SILT FENCE | SY | 150 |
| 649.61 | GEOTEXTILE FOR FILTER CURTAIN | SY | 50 |
| 651.15 | SEED | LB | 5 |
| 651.17 | SEED, WINTER RYE | LB | 5 |
| 651.18 | FERTILIZER | LB | 20 |
| 651.20 | AGRICULTURAL LIMESTONE | TON | 0.5 |
| 651.25 | HAY MULCH | TON | 0.5 |
| 651.35 | TOPSOIL | CY | 20 |
| 651.40 | GRUBBING MATERIAL | SY | 40 |
| 652.10 | EPSC PLAN | LS | 1 |
| 652.20 | MONITORING EPSC PLAN | HR | 20 |
| 652.30 | MAINTENANCE OF EPSC PLAN (N.A.B.I.) | LU | 1 |
| 653.20 | ROLLED EROSION CONTROL PRODUCT, TYPE I | SY | 110 |
| 653.45 | FILTER BAG | EA | 2 |
| 653.55 | PROJECT DEMARCATION FENCE | LF | 330 |
| 900.608 | SPECIAL PROVISION (E-STONE TYPE E3) | CY | 90 |
| 900.645 | SPECIAL PROVISION (HANDLING, TRANSPORT AND ERECTION OF BOX CULVERT) | LS | 1 |
| 900.645 | SPECIAL PROVISION (REMOVE AND RELOCATE EXISTING STONE WALL) | LS | 1 |
| 900.645 | SPECIAL PROVISION (TEMPORARY RELOCATION OF STREAM) | LS | 1 |
| 900.650 | SPECIAL PROVISION (MATERIAL SAMPLING AND TESTING (N.A.B.I.) | LU | 1 |



| | | | |
|--|--|-------------|------------|
| SHEET NAME: PROJECT NOTES & QUANTITIES | | | |
| PROJECT NAME: | CHURCHILL RD. (TH22) OVER LEICESTER HOLLOW BROOK TRIBUTARY | | |
| FILE NAME: | z17156.02gen_notes.dgn | PLOT DATE: | 12/17/2019 |
| PROJECT LEADER: | J. Lund | DRAWN BY: | D. DePaolo |
| DESIGNED BY: | R. Joy | CHECKED BY: | R. Joy |
| | | SHEET | 3 OF 10 |

101+25.34 END PROJECT

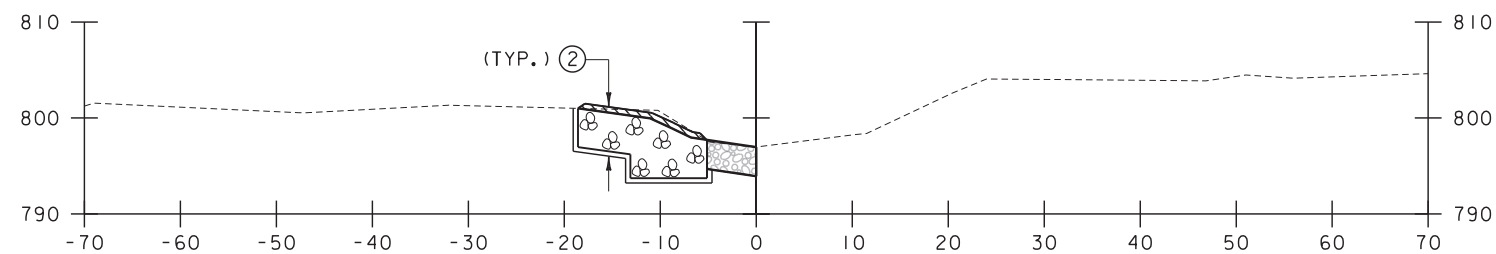


100+10 BEGIN PROJECT

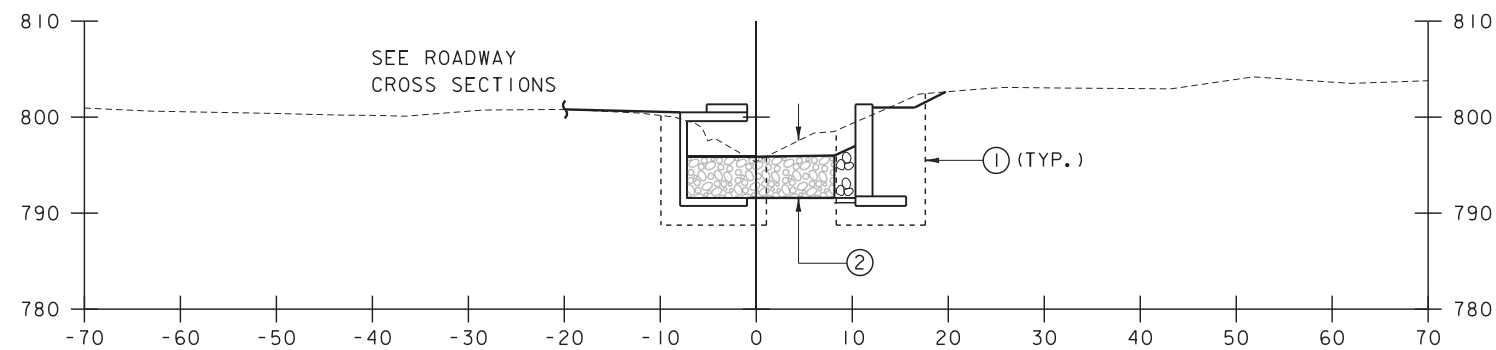
- ① STRUCTURE EXCAVATION
- ② UNCLASSIFIED CHANNEL EXCAVATION
- ③ COMMON EXCAVATION



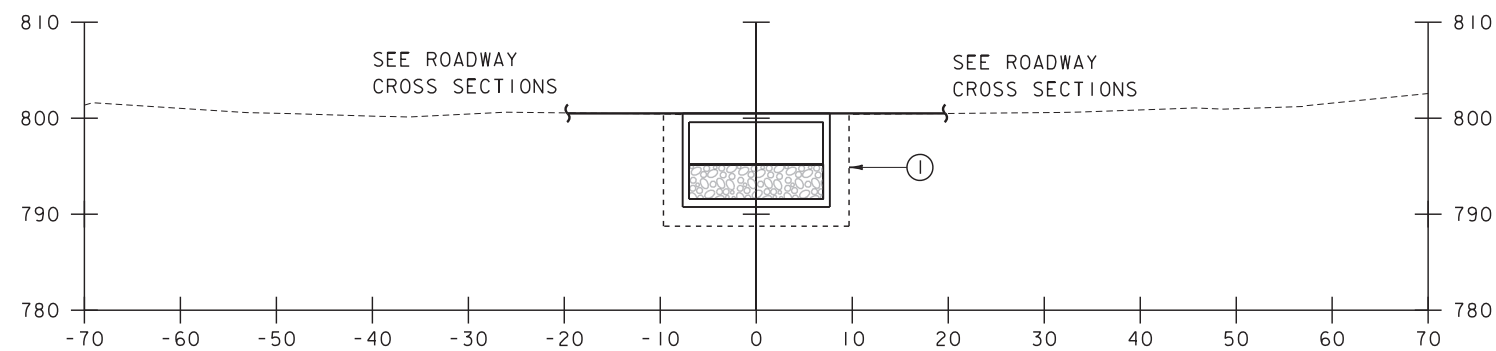
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| PROJECT NAME: CHURCHILL RD. (TH22) OVER LEICESTER HOLLOW BROOK TRIBUTARY | | |
| FILE NAME: | z17i56xs_rd.dgn | PLOT DATE: 12/17/2019 |
| PROJECT LEADER: | J. Lund | DRAWN BY: D. DePaolo |
| DESIGNED BY: | R. Joy | CHECKED BY: R. Joy |
| | | SHEET 5 OF 10 |



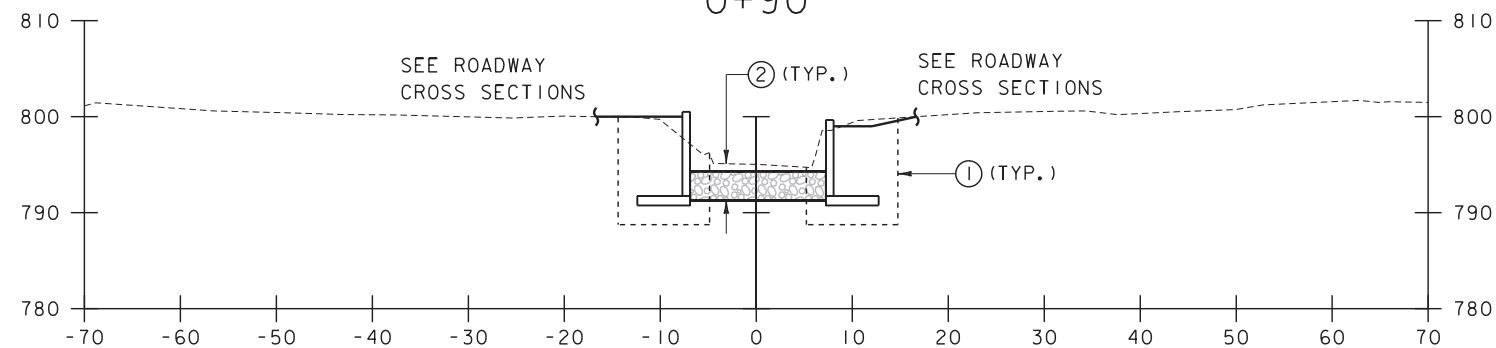
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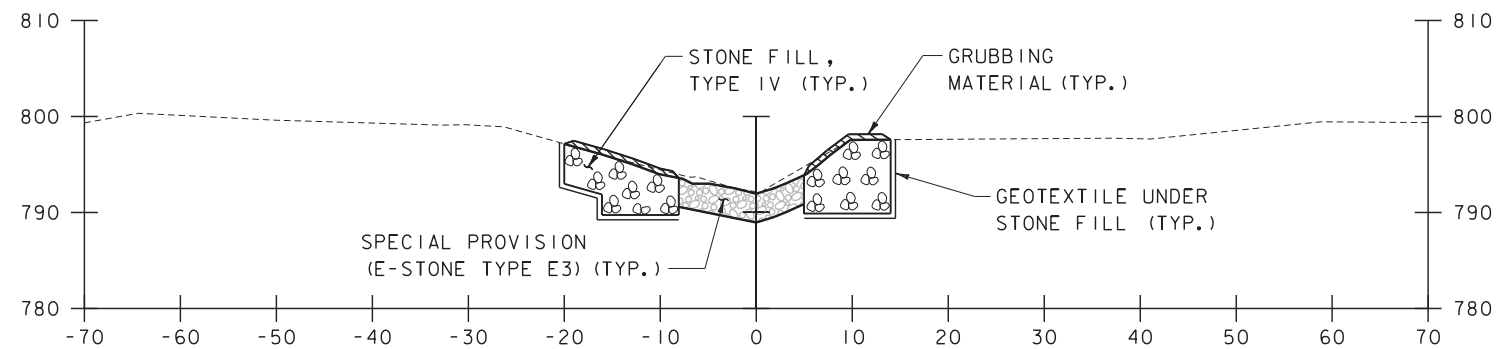
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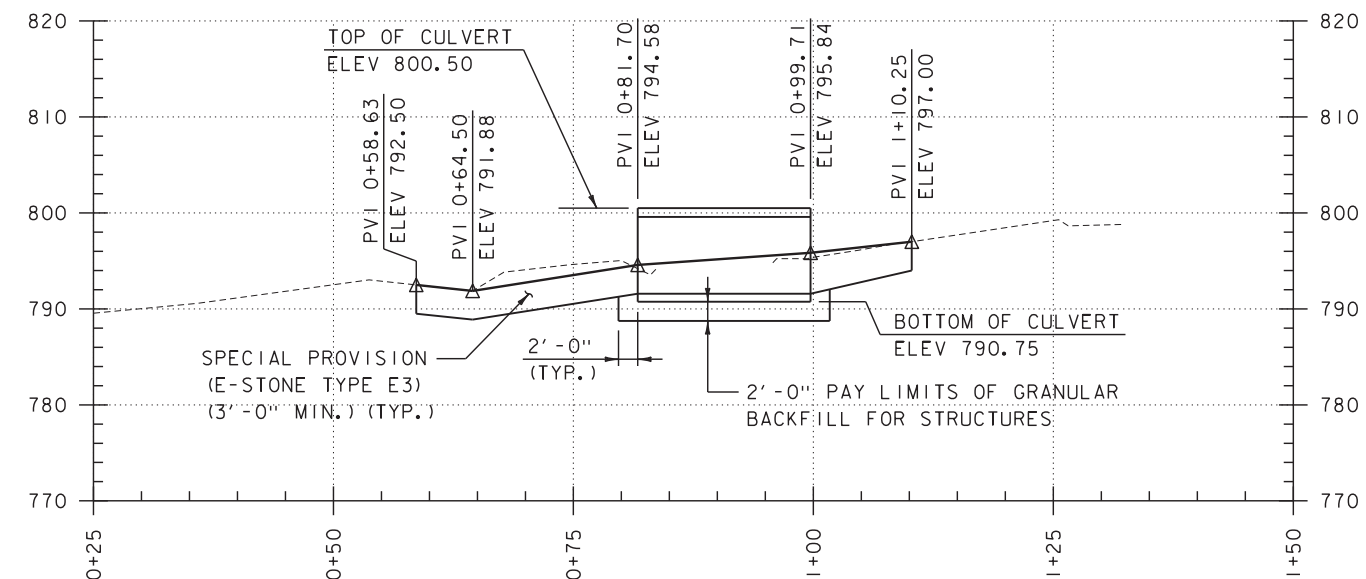
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0+80



0+65



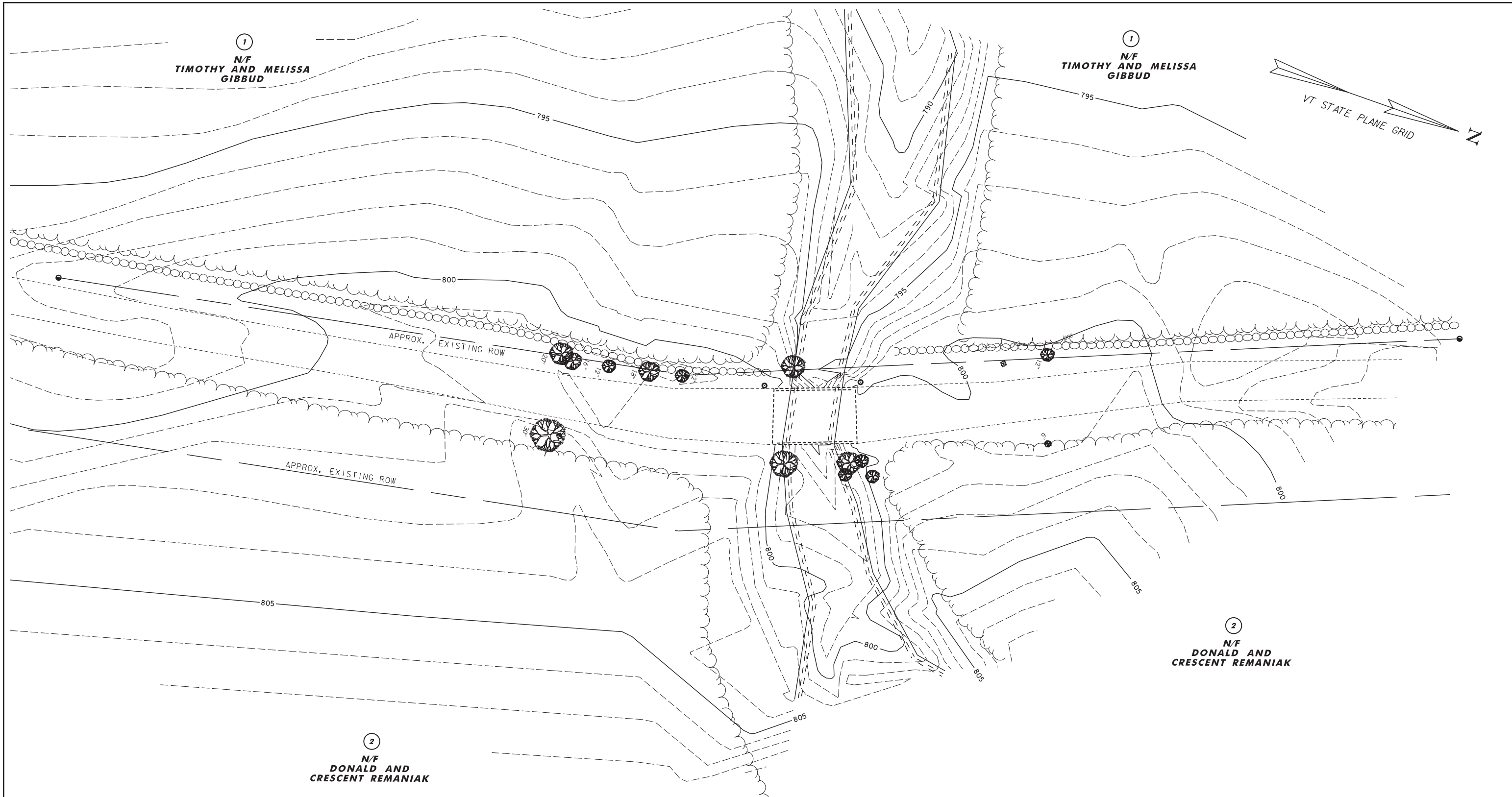
CHANNEL PROFILE



- ① STRUCTURE EXCAVATION
- ② UNCLASSIFIED CHANNEL EXCAVATION
- ③ COMMON EXCAVATION



| | | |
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| PROJECT NAME: CHURCHILL RD. (TH22) OVER LEICESTER HOLLOW BROOK TRIBUTARY | | |
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| PROJECT LEADER: | J. Lund | DRAWN BY: D. DePaolo |
| DESIGNED BY: | R. Joy | CHECKED BY: R. Joy |
| | | SHEET 6 OF 10 |

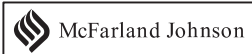


EXISTING CONDITIONS SITE PLAN

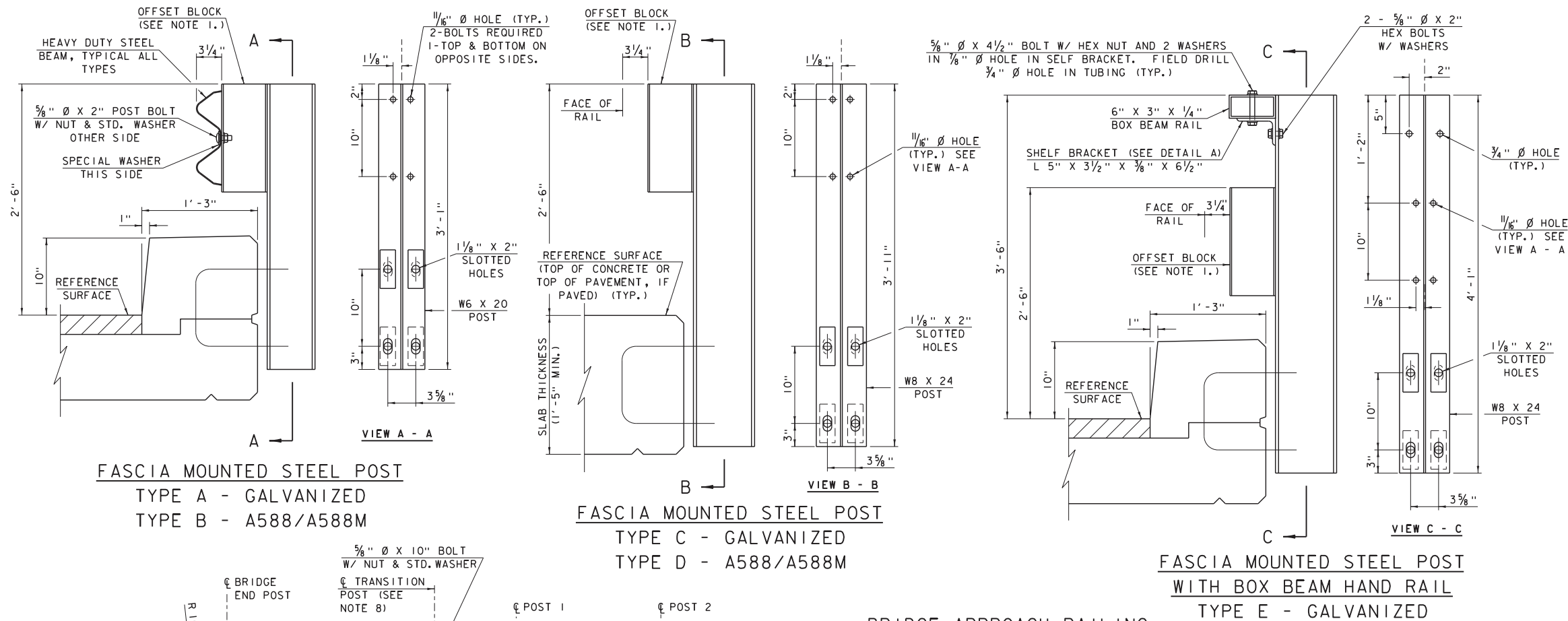


NOTE

1. THIS SHEET INCLUDED FOR CONTRACTOR TO USE FOR PREPARING THE EPSC PLAN.

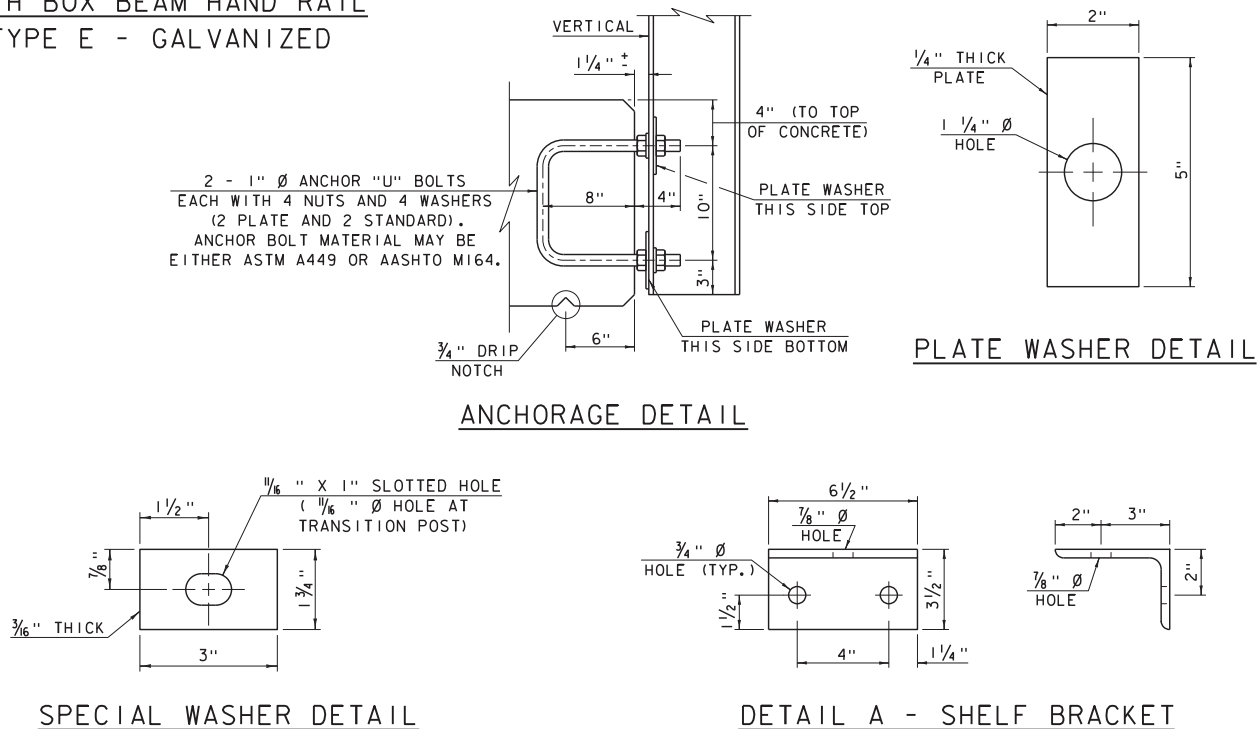
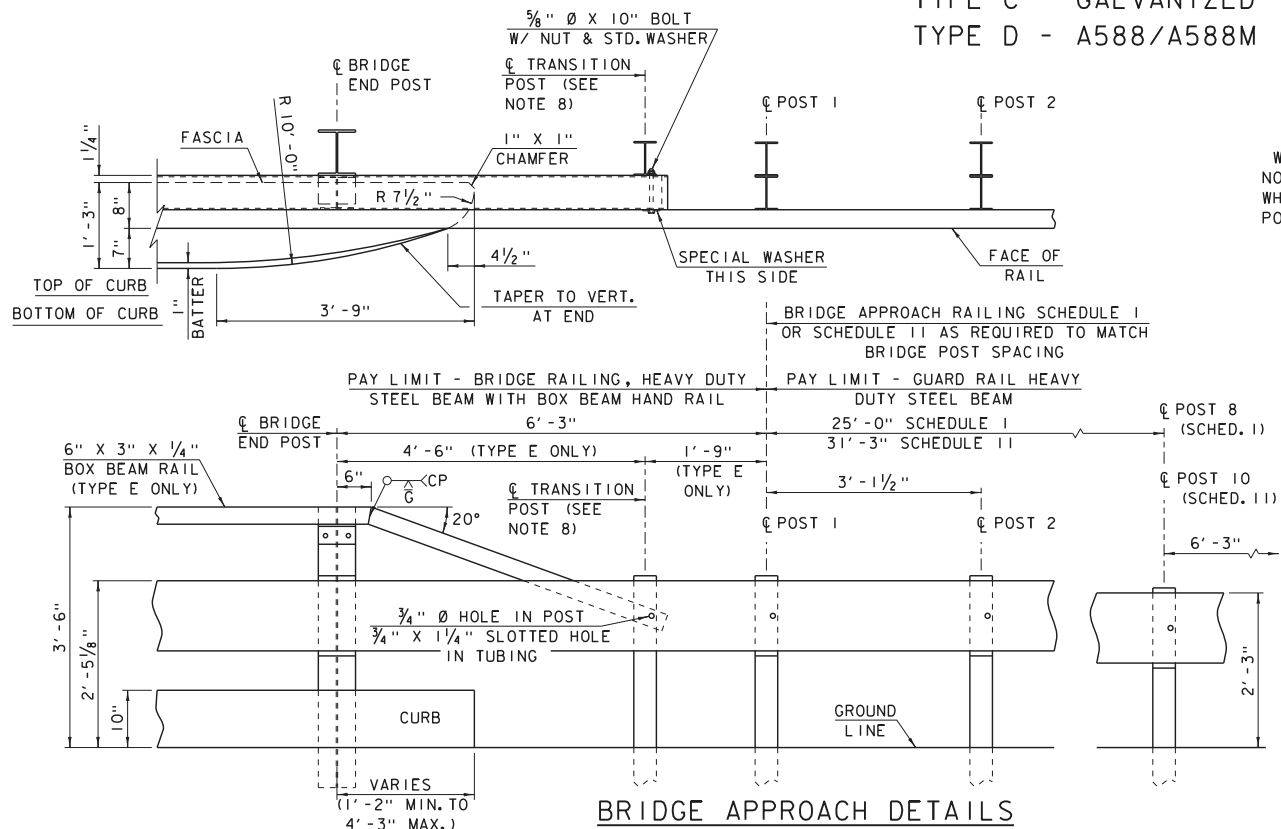


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| PROJECT NAME: | CHURCHILL RD. (TH22) OVER LEICESTER HOLLOW BROOK TRIBUTARY |
| FILE NAME: | z80i3pin.dgn |
| PROJECT LEADER: | J. Lund |
| DESIGNED BY: | R. Joy |
| PLOT DATE: | 10/18/2019 |
| DRAWN BY: | D. DePaolo |
| CHECKED BY: | R. Joy |
| SHEET | 7 OF 10 |

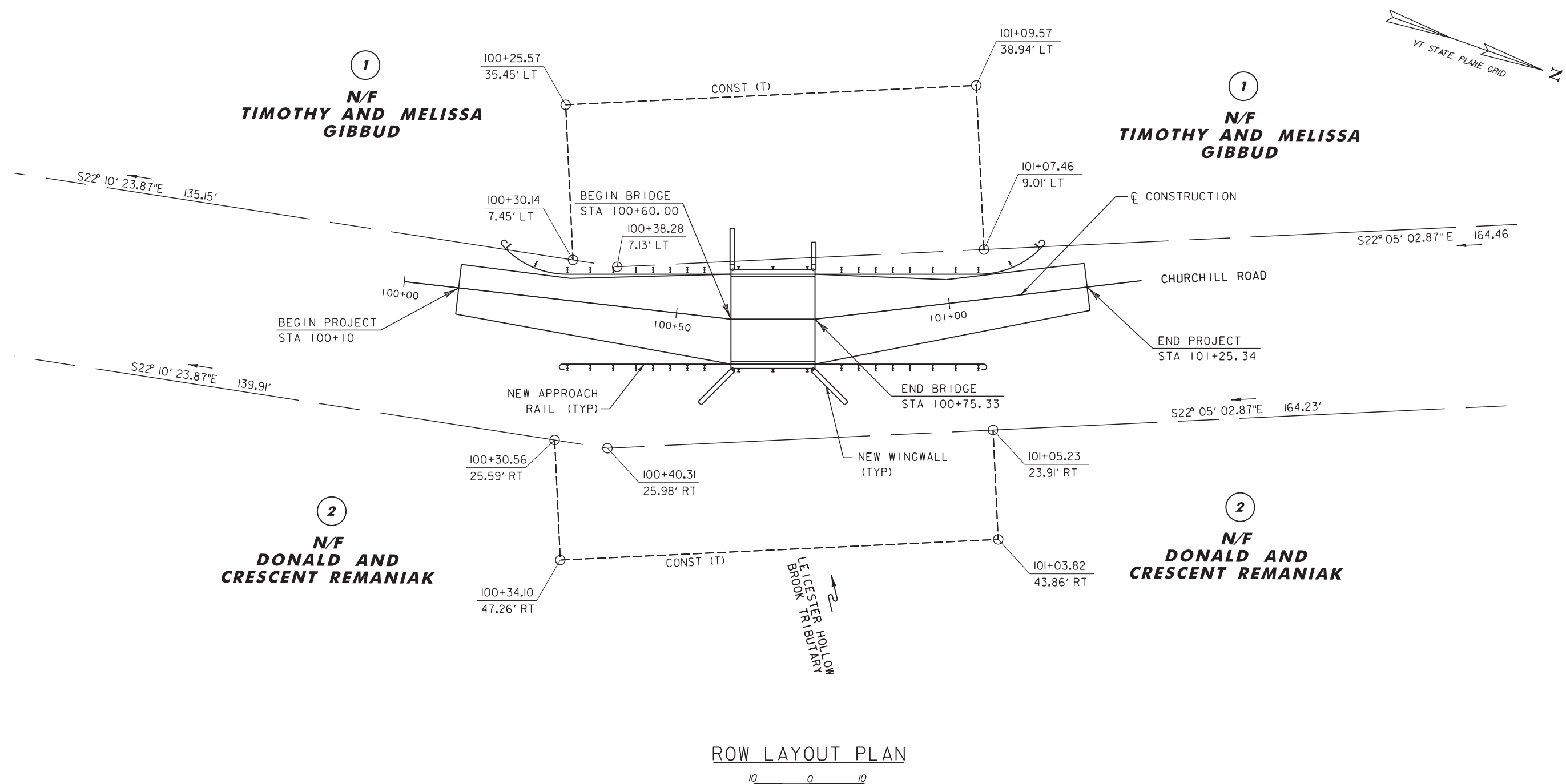


NOTES

- SEE STANDARD DRAWING G-1 & G-1d FOR ADDITIONAL DETAILS OF STEEL BEAM GUARD RAIL AND STANDARD SB-R4a-82 FOR ADDITIONAL DETAILS OF BOX BEAM RAIL.
- ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED AND CONFORM TO SECTION 714.07.
- BRIDGE RAIL TYPES A, C & E: HEAVY DUTY STEEL BEAM RAIL SHALL BE AASHTO M180, CLASS B-TYPE 11. POST AND BRACKETS, AS WELL AS PLATE AND SPECIAL WASHERS, SHALL BE AASHTO M223/M223M STEEL. BOLTS SHALL BE ASTM A307. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION TO AASHTO M111 OR M232 (HARDWARE).
- BRIDGE RAIL TYPE B & D: HEAVY DUTY STEEL BEAM RAIL SHALL BE AASHTO M180, CLASS B-TYPE 4. POSTS AND BRACKETS, AS WELL AS PLATE AND SPECIAL WASHERS, SHALL BE AASHTO M222/M222M STEEL. BOLTS SHALL BE AASHTO M164 TYPE 111.
- ALL POSTS SHALL BE SET NORMAL TO GRADE.
- BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY HEIGHT IN 25 FEET.
- APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM FOR 50 FEET FROM THE END OF THE BRIDGE.
- FOR THE TYPE A, B, C, OR D BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS PRACTICAL TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH RAIL POST 1.
- SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
- SEE STANDARD SHEET G-1 FOR DELINEATOR DETAILS AND PLACEMENT.
- ERECT DELINEATOR ON EVERY FIFTH POST OR APPROXIMATELY 30 FEET APART. PAYMENT SHALL BE SUBSIDIARY TO OTHER ITEMS.
- THE DROP-WEIGHT TEAR TEST IN SECTION 732 SHALL NOT APPLY TO THE STRUCTURAL TUBING ON THIS STANDARD.



| | | | |
|-----------------|--|-------------|------------|
| SHEET NAME: | BRIDGE RAILING DETAILS | | |
| PROJECT NAME: | CHURCHILL RD. (TH22) OVER LEICESTER HOLLOW BROOK TRIBUTARY | | |
| PROJECT LEADER: | J. Lund | DRAWN BY: | D. DePaulo |
| DESIGNED BY: | R. Joy | CHECKED BY: | R. Joy |
| | | SHEET | 8 OF 10 |



LINES SHOWN ON THIS PLAN AS EXISTING
PROPERTY LINES P/L ARE BELIEVED TO BE
ACCURATE BUT SHOULD NOT BE RELIED
UPON FOR PURPOSES UNRELATED TO THE
STATE OF VERMONT'S ACQUISITION OF LAND
AND RIGHTS FOR THIS PROJECT.

**FOR R.O.W.
USE ONLY**

| | | |
|-------------------------|---|-----------------------|
| SHEET NAME: R.O.W. PLAN | | |
| PROJECT NAME: | CHURCHILL RD. (TH22) OVER LEICESTER HOLLOW BROOK TRIBUTARY | |
| FILE NAME: | z17156row.dgn | PLOT DATE: 10/18/2019 |
| PROJECT LEADER: | J. Lund | DRAWN BY: D. DePaolo |
| DESIGNED BY: | R. Joy | CHECKED BY: R. Joy |
| ROW LAYOUT SHEET 1 OF 1 | | SHEET 10 OF 10 |

