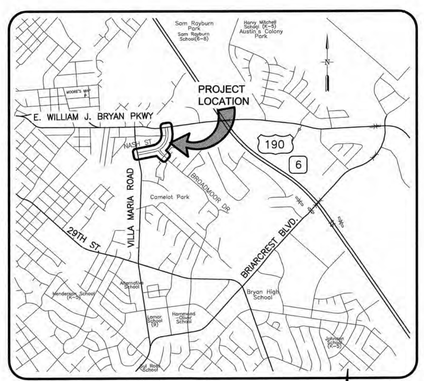
# CONSTRUCTION DRAWINGS FOR
# NASH STREET ROUNDABOUT PLANS

## (332-D3-1603)

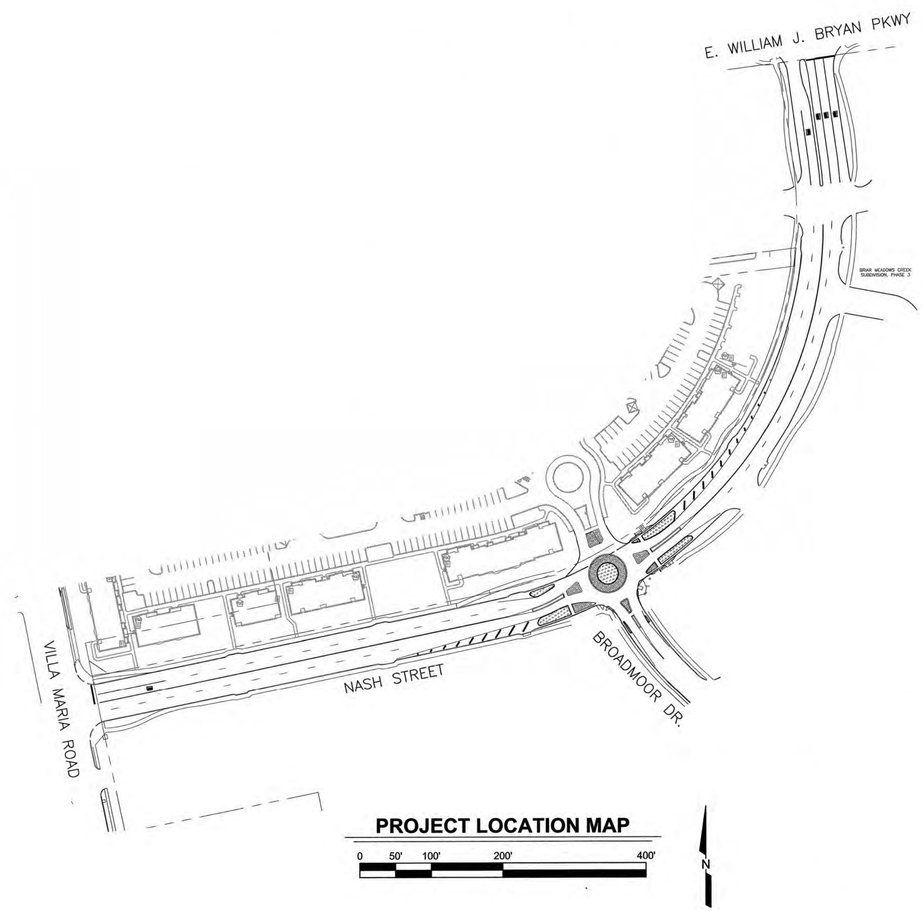
## BRYAN, TEXAS

## BLEYL & ASSOCIATES PROJECT NUMBER: 11377




**VICINITY MAP**

NOT TO SCALE




**PROJECT LOCATION MAP**

0 50' 100' 200' 400'

### SHEET LIST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14 B/CS STANDARD DRAINAGE DETAILS
15 B/CS STANDARD STREET DETAILS
16 B/CS EROSION CONTROL DETAILS


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| 2 | | | | |
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PREPARED FOR:
CLIENT NAME
ADDRESS
CITY, STATE, ZIP

SCALE: AS SHOWN
DATE: February 22, 2016
DRAWN BY: CKS
PROJECT MANAGER:


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Texas Board of Professional Engineers F-678


**COVER SHEET**

NASH ST. AT BROADMOOR ROUNDABOUT
332-D3-1603
CITY OF BRYAN, TEXAS

STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED
PROFESSIONAL ENGINEER
2-22-2016

PROJECT NUMBER
11377

FILE NAME:
11377- 01-2-COVER.DWG

SHEET:
01 OF: 16

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GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT BRYAN/COLLEGE STATION UNIFIED DESIGN GUIDELINES AND SPECIFICATIONS.
2. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND ALL UTILITY COMPANY REGULATIONS CONCERNING SAFETY AND HEALTH PRACTICES.
3. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA RULES AND REGULATIONS.
4. CONTRACTOR SHALL COMPLY WITH APPLICABLE TECHNICAL SPECIFICATIONS AND SPECIAL PROVISIONS REGARDING STORM WATER POLLUTION PREVENTION. ALL STORM WATER POLLUTION PREVENTION PLANNING AND IMPLEMENTATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONFORMANCE TO REGULATORY REQUIREMENTS IS MANDATORY.
5. CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT PERMANENTLY CHANGE, DIVERT, RESTRICT, IMPEDE OR INHIBIT EXISTING SURFACE DRAINAGE IN ANY WAY. ANY DAMAGE CAUSED BY A TEMPORARY CHANGE, DIVERSION, RESTRICTION, IMPEDIMENT OR RESTRICTION TO EXISTING SURFACE DRAINAGE SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
6. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER SUCH THAT TRUCKS AND OTHER VEHICLES DO NOT CREATE A DIRT NUISANCE OR SAFETY HAZARD IN ANY STREETS, PUBLIC OR PRIVATE. CLEAN UP OF STREETS SHALL BE DONE DAILY AT NO ADDITIONAL COST TO THE PROJECT.
7. TEXAS LAW ARTICLE 1436C, PROHIBITS ALL ACTIVITIES IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN SIX FEET OF ENERGIZED OVERHEAD POWER LINES, AND FEDERAL REGULATIONS, TITLE 29, PART 1910. 180 (L) AND PART 1926. 550 (A) (15) REQUIRE A MINIMUM CLEARANCE OF TEN FEET FROM THESE FACILITIES. THE ABOVE LAWS CARRY BOTH CRIMINAL AND CIVIL LIABILITIES, WITH CONTRACTORS AND OWNERS BEING LEGALLY RESPONSIBLE FOR THE SAFETY OF WORKERS UNDER THESE LAWS. IF THE CONTRACTOR MUST WORK NEAR OVERHEAD POWER LINES, CALL BTU AT (979) 821-5700 FOR THE LINES TO BE DE-ENERGIZED AND/OR MOVED AT THE CONTRACTOR'S EXPENSE.
8. PRIOR TO BUILDING AND CONSTRUCTION THE CONTRACTOR SHALL CONTACT BRYAN TEXAS UTILITIES FOR APPROVED METHOD OF BRACING THE EXISTING POWER POLES IN THE CONSTRUCTION AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING POWER POLES IN ACCORDANCE WITH BRYAN TEXAS UTILITY REQUIREMENTS.
9. CONTRACTOR SHALL ADEQUATELY PROTECT EXISTING STRUCTURES, UTILITIES, TREES, SHRUBS, LANDSCAPING AND OTHER OBJECTS. ALL COSTS FOR REPAIR AND/OR REPLACEMENT OF DAMAGE DUE TO CONTRACTOR'S OPERATIONS SHALL BE PAID BY CONTRACTOR AT NO ADDITIONAL COST TO PROJECT.
10. EXISTING PAVEMENT, CURB, SIDEWALK, DRIVEWAY, AND LANDSCAPED AREAS DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. ALL AREAS WHERE EXISTING VEGETATION AND GRASS HAS BEEN REMOVED OR SIGNIFICANTLY REDUCED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADEQUATELY SOD THE AREA WITHIN 14 CALENDAR DAYS AFTER LAST DISTURBANCE AND THEN WATER THE AREAS UNTIL GROWTH IS WELL ESTABLISHED AND THE SITE IS PROVISIONALLY ACCEPTED BY THE CITY'S PROJECT MANAGER.
11. CONTRACTOR SHALL RESTORE ALL SPRINKLER AND/OR IRRIGATION SYSTEMS DISTURBED OR DAMAGED DURING CONSTRUCTION TO ORIGINAL CONDITION OR BETTER (NO SEPARATE PAY).
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL MATERIALS WHICH ARE NOT TO BE REINSTALLED OR SALVAGED ON THE PROJECT IN A MANNER THAT COMPLIES WITH ALL APPLICABLE LAWS AND REGULATIONS (NO SEPARATE PAY).
13. NO EXCAVATIONS SHALL BE LEFT OPEN OVERNIGHT. ALL EXCAVATIONS WHICH CANNOT BE BACKFILLED OVERNIGHT SHALL BE COVERED WITH STEEL SHEETING WHEN IN PAVED AREAS. FOR NON-PAVED AREAS STEEL SHEETING, WOOD PLANKING, OR MATERIAL WHICH IS APPROVED BY THE CITY AND TXDOT. PROTECT THE EXCAVATION AREA WITH TRAFFIC BARRICADES EQUIPPED WITH YELLOW FLASHING LIGHTS AND COMPLETELY CORDON OFF WITH PLASTIC CONSTRUCTION FENCING APPROVED BY THE CITY AND TXDOT. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SAFETY OF EXCAVATION AREAS.
14. ALL TESTING PROCEDURES USED ON THIS PROJECT SHALL CONFORM TO THE B/CS UNIFIED DESIGN GUIDELINES AND SPECIFICATIONS, THE TCEQ, AWWA, NSF, OR APPLICABLE STANDARDS. THE TESTING EXPENSE FOR ANY FAILED TESTS SHALL BE BORNE BY THE CONTRACTOR.
15. UNLESS SPECIFICALLY STATED, AND OTHERWISE PROVIDED FOR ON THE BID PROPOSAL FORM, ALL WORK DESCRIBED IN THESE GENERAL NOTES SHALL BE CONSIDERED INCIDENTAL TO THE ITEMS OF WORK LISTED ON THE BID PROPOSAL FORM AND NO SEPARATE PAYMENT WILL BE MADE TO THE CONTRACTOR FOR SUCH WORK.
16. ANY REQUIRED CHANGES TO THE DRAWINGS RESULTING FROM THE ACCEPTANCE OF ALTERNATES AND/OR SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
17. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND DETERMINE THE DEPTH, LOCATION, ELEVATION, ALIGNMENT AND EXISTENCE OF ALL SURFACE OR UNDERGROUND UTILITIES AND STRUCTURES IN AND AROUND THE VICINITY OF THE WORK TO BE PERFORMED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF ANY CONFLICTS FOUND PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL ALLOW AMPLE TIME TO THE OWNER TO DETERMINE A RESOLUTION TO THE CONFLICT. NO ADDITIONAL PAYMENT SHALL BE MADE FOR DELAYS DUE TO SUCH CONFLICTS.
18. BLEYL & ASSOCIATES AND THE OWNER ARE AWARE OF THE FOLLOWING UTILITIES WITHIN THE PROJECT AREA:
    - 18.1. GAS LOW PRESSURE DISTRIBUTION
    - 18.2. TELEPHONE/COMMUNICATIONS
    - 18.3. ELECTRIC
    - 18.4. TV CABLE
    - 18.5. CITY OF BRYAN WATER
    - 18.6. CITY OF BRYAN WASTE WATER
    - 18.7. CITY OF BRYAN STORM

    THIS LIST IS PRESENTED ONLY AS INFORMATION TO THE CONTRACTOR AND SHOULD NOT BE CONSTRUED AS A COMPLETE LIST OF FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS TO MAINTAIN THE INTEGRITY OF THE EXISTING UTILITIES LISTED OR THOSE DISCOVERED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE PROJECT.
19. CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY AND PIPELINE COMPANIES 48 HOURS (MINIMUM) PRIOR TO EXCAVATION IN A PROJECT AREA. THE CONTRACTOR SHALL CONTACT 811 CALL, DIG TESS NOTIFICATION CENTER AT 1-800-DIG(344)-TESS(8377) AND TEXAS ONE CALL NOTIFICATION CENTER AT 1-800-245-4545 TO PROVIDE UTILITY LOCATIONS. ALL UTILITIES (INCLUDING BUT NOT LIMITED TO PIPELINES, NATURAL GAS LINES, FIBER OPTIC CABLE, BURIED ELECTRIC, TELEPHONE. TELEVISION, WATER, SANITARY SEWER. STORM SEWER, ETC.) SHALL BE IDENTIFIED PRIOR TO EXCAVATION.
20. ALL TRENCHING AND BACKFILLING SHALL BE PERFORMED PER THE SPECIFICATIONS AND THE TYPICAL TRENCH DETAIL FOUND IN THE STANDARD DETAILS. TESTING WILL BE PERFORMED BY A CERTIFIED LABORATORY AT THE OWNER'S EXPENSE, TO VERIFY PROPER BEDDING AND BACKFILL. ANY WORK THAT DOES NOT PASS TESTING SHALL BE REPLACED AND RETESTED AT CONTRACTOR'S EXPENSE. STRUCTURAL AREAS SHALL INCLUDE ALL SIDEWALKS AND SHALL EXTEND 5' BEYOND THE CURB LINES OF ALL STREETS, ALLEYS AND PARKING AREAS.
21. ON ALL PAVEMENTS TO BE REMOVED, INCLUDING DRIVEWAYS AND SIDEWALKS, THE PAVEMENT SHALL BE SAWCUT FULL DEPTH PRIOR TO REMOVAL. NO SEPARATE PAY.
22. THE CONSTRUCTION TRAFFIC CONTROL SIGNS, DEVICES AND BARRICADES CONSTITUTE MINIMUM REQUIREMENTS AND NOT INTENDED TO COVER SPECIAL CIRCUMSTANCES OR OTHER CONDITIONS THAT MAY ARISE DUE TO UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR SHALL PLACE AND MAINTAIN SUFFICIENT ADDITIONAL SIGNS, BARRICADES, AND WARNING DEVICES TO WARN THE PUBLIC AND PROVIDE FOR THE SAFE MOVEMENT OF TRAFFIC AND THE CONSTRUCTION ZONE SAFETY. WHERE PROJECT REQUIREMENTS ARE NOT FULLY SATISFIED BY THE STANDARDS SHOWN HEREON, THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL GOVERN. ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL DEVICES MARKINGS, STRIPING AND SIGNAGE REQUIRED FOR THIS PROJECT SHALL BE INCLUDED IN THE APPROPRIATE LUMP SUM BID ITEM. ANY CHANGES TO TRAFFIC CONTROL DEEMED NECESSARY DUE TO FIELD CONDITIONS SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE PROJECT.
23. CONTRACTOR SHALL IDENTIFY PERSONNEL OR SUB-CONTRACTORS RESPONSIBLE FOR DAILY TRAFFIC CONTROL IMPLEMENTATION. CONTRACTOR SHALL FURNISH TRAFFIC CONTROL TRAINING CERTIFICATION FOR IDENTIFIED PERSONNEL OR SUBCONTRACTORS WITHIN 60 DAYS PROJECT AWARD, AND NOTIFY THE CITY IMMEDIATELY IF THE IDENTIFIED PERSONNEL OR SUBCONTRACTOR IS CHANGED FOR THE PROJECT.
24. CONTRACTOR SHALL MAINTAIN ACCESS TO PROPERTIES ADJACENT TO AND IN THE WORK AREAS AT ALL TIMES.
25. CONTRACTOR SHALL ACCESS WORK SITE FROM 7:00 A.M. TO 6:00 P.M. ONLY. ANY LANE CLOSURE SHALL ONLY BE BETWEEN THE HOURS OF 8:30 AM AND 4:30 PM OR AS APPROVED IN ADVANCED, IN WRITING, BY THE OWNER.
26. WHERE ANY STREET OR ANY SECTION OF A STREET IS CLOSED, THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE BARRICADES, WARNING AND DIRECTING SIGNS, RED FLAGS AND LIGHTS AND/OR FLAGMAN AT THE END OF EACH STREET AND AT ALL INTERSECTIONS ALONG THE STREET WITHIN THE LIMITS OF THE WORK AREA. ALL EXPENSES INCURRED FOR THE ABOVE WORK SHALL BE PAID BY THE CONTRACTOR. ALL WARNING SIGNS AND BARRICADES SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES-LATEST EDITION.
27. CONTRACTOR SHALL NOTIFY THE CITY IN WRITING AT LEAST 48 HOURS PRIOR TO CLOSURE OF ANY STREET, INTERSECTION, OR LANE OF TRAFFIC. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO ALLOW ACCESS TO EMERGENCY VEHICLES AT ALL TIMES.
28. IF THE CONTRACTOR WISHES TO MODIFY THE PROPOSED TRAFFIC CONTROL PLAN, THE CONTRACTOR MAY SUBMIT A TRAFFIC CONTROL PLAN SEALED BY A LICENSED TEXAS PROFESSIONAL ENGINEER FOR APPROVAL.
29. PROVIDE WEDGE ANCHOR MOUNTS FOR CITY OF BRYAN SIGNS.

## SYMBOL LEGEND

| EXISTING | PROPOSED |
|---|---|
| FIRE HYDRANT | LANDING AS PER ADA REQUIRES |
| WATER VALVE | ADA RAMP WITH CURBED SIDES |
| STREET SIGN | ADA WARNING DETECTORS |
| STREET LIGHT | |
| CURB INLET | |
| EXISTING CONCRETE | |

## ABBREVIATIONS

| | |
|---|---|
| TB | TEMPORARY BENCHMARK |
| STA/ OS | STATION/ OFFSET |
| ELEC | ELECTRICAL |
| EXIST | EXISTING |
| LP | LIGHT POLE |
| FH | FIRE HYDRANT |

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PREPARED FOR:
CLIENT NAME
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PROJECT MANAGER:

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GENERAL NOTES AND LEGEND

NASH ST. AT BROADMOOR
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332-D3-1603
CITY OF BRYAN, TEXAS

STATE OF TEXAS
DAVID L. BESLY
81873
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02 OF: 16

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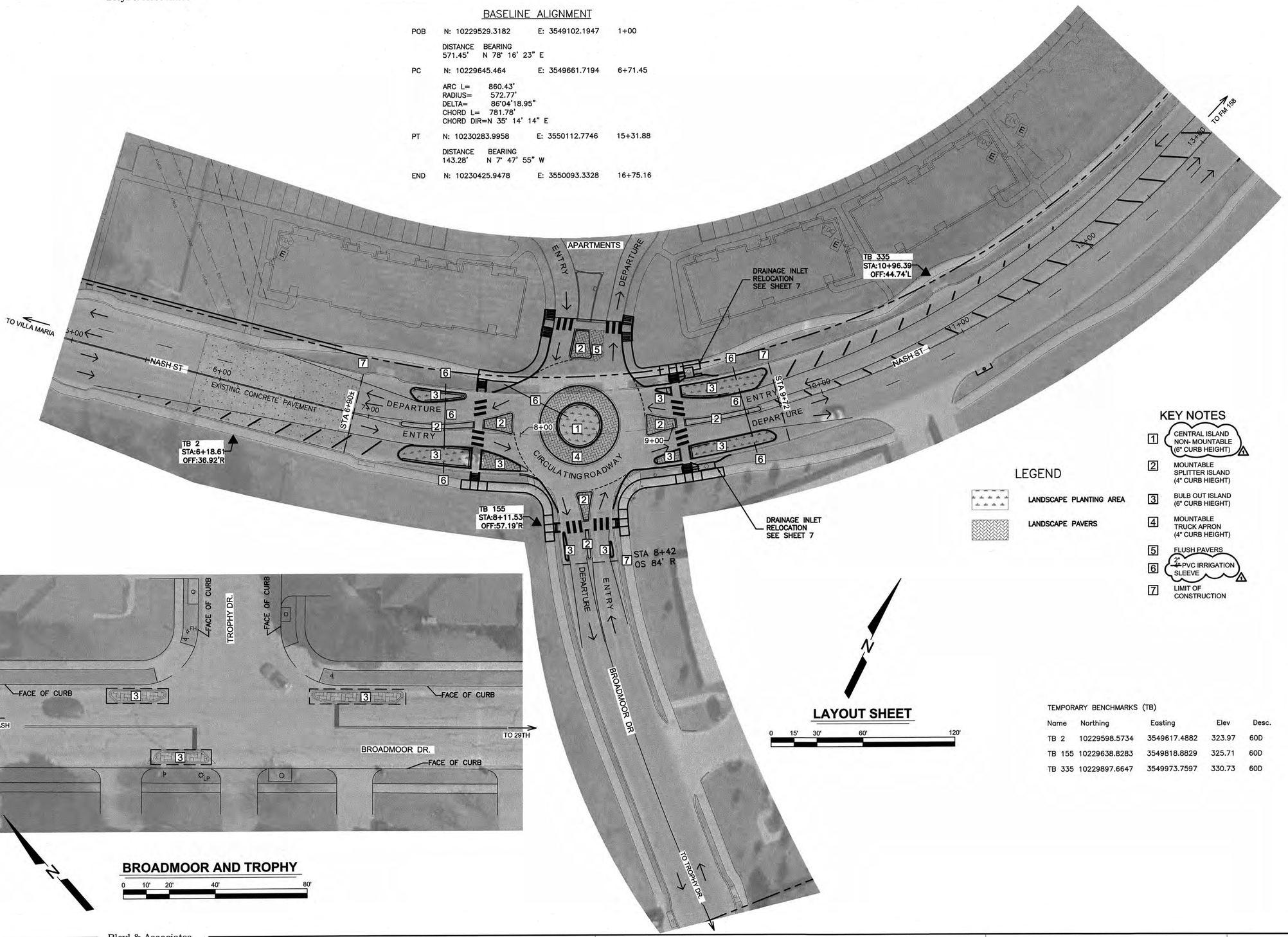
## BASELINE ALIGNMENT

| | | | |
|---|---|---|---|
| POB | N: 10229529.3182 | E: 3549102.1947 | 1+00 |
| | DISTANCE BEARING<br>571.45' N 78° 16' 23" E | | |
| PC | N: 10229645.464 | E: 3549661.7194 | 6+71.45 |
| | ARC L= 860.43'<br>RADIUS= 572.77'<br>DELTA= 86°04'18.95"<br>CHORD L= 781.78'<br>CHORD DIR=N 35° 14' 14" E | | |
| PT | N: 10230283.9958 | E: 3550112.7746 | 15+31.88 |
| | DISTANCE BEARING<br>143.28' N 7° 47' 55" W | | |
| END | N: 10230425.9478 | E: 3550093.3328 | 16+75.16 |




## LEGEND

- LANDSCAPE PLANTING AREA
- LANDSCAPE PAVERS

## KEY NOTES

1. CENTRAL ISLAND NON- MOUNTABLE (6" CURB HEIGHT)
2. MOUNTABLE SPLITTER ISLAND (4" CURB HIEGHT)
3. BULB OUT ISLAND (6" CURB HIEGHT)
4. MOUNTABLE TRUCK APRON (4" CURB HEIGHT)
5. FLUSH PAVERS
6. 2" PVC IRRIGATION SLEEVE
7. LIMIT OF CONSTRUCTION

TEMPORARY BENCHMARKS (TB)

| Name | Northing | Easting | Elev | Desc. |
|---|---|---|---|---|
| TB 2 | 10229598.5734 | 3549617.4882 | 323.97 | 60D |
| TB 155 | 10229638.8283 | 3549818.8829 | 325.71 | 60D |
| TB 335 | 10229897.6647 | 3549973.7597 | 330.73 | 60D |

| REV | DATE | BY | APP | COMMENT |
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| 1 | 3/17/16 | JP | DLB | REVISED SLEEVE TO 2" PVC |

PREPARED FOR:
CLIENT NAME
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CITY, STATE, ZIP

SCALE: AS SHOWN
DATE: March 22, 2016
DRAWN BY: CKS
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# LAYOUT SHEET

NASH ST. AT BROADMOOR
ROUNDABOUT
332-D3-1603
CITY OF BRYAN, TEXAS

STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED
PROFESSIONAL ENGINEER
3/22/2016

PROJECT NUMBER
11377

FILE NAME:
11377- 03 LAYOUT.DWG

SHEET:
03 OF: 16

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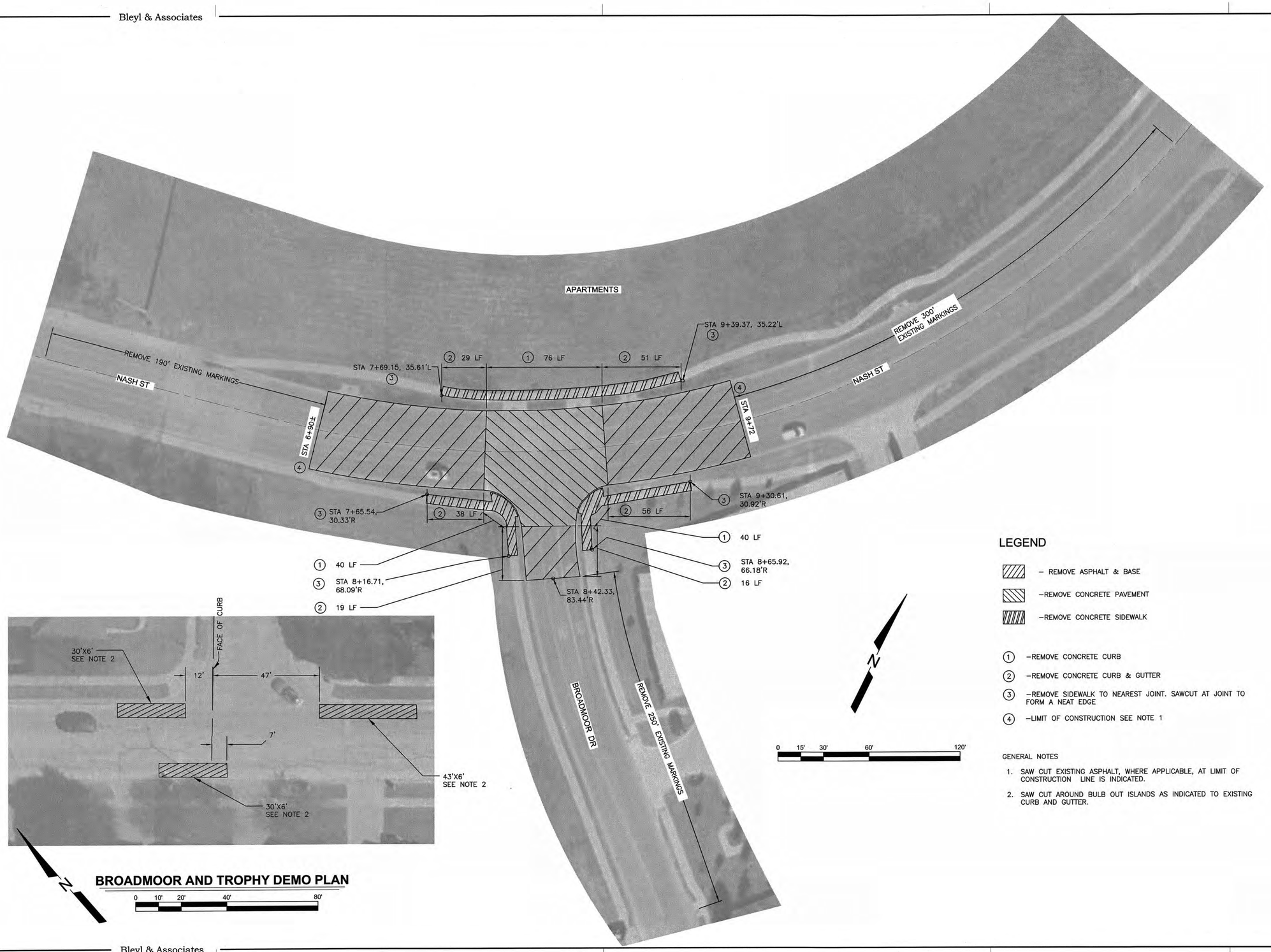





## BROADMOOR AND TROPHY DEMO PLAN

## LEGEND

- REMOVE ASPHALT & BASE
- REMOVE CONCRETE PAVEMENT
- REMOVE CONCRETE SIDEWALK

1. REMOVE CONCRETE CURB
2. REMOVE CONCRETE CURB & GUTTER
3. REMOVE SIDEWALK TO NEAREST JOINT. SAWCUT AT JOINT TO FORM A NEAT EDGE
4. LIMIT OF CONSTRUCTION SEE NOTE 1

GENERAL NOTES

1. SAW CUT EXISTING ASPHALT, WHERE APPLICABLE, AT LIMIT OF CONSTRUCTION LINE IS INDICATED.
2. SAW CUT AROUND BULB OUT ISLANDS AS INDICATED TO EXISTING CURB AND GUTTER.

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# DEMO PLAN

NASH ST. AT BROADMOOR ROUNDABOUT
332-D3-1603
CITY OF BRYAN, TEXAS

STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED
PROFESSIONAL ENGINEER
2-22-2016

PROJECT NUMBER
11377

FILE NAME:
11377– 04 DEMO.DWG

SHEET:
04 OF: 16

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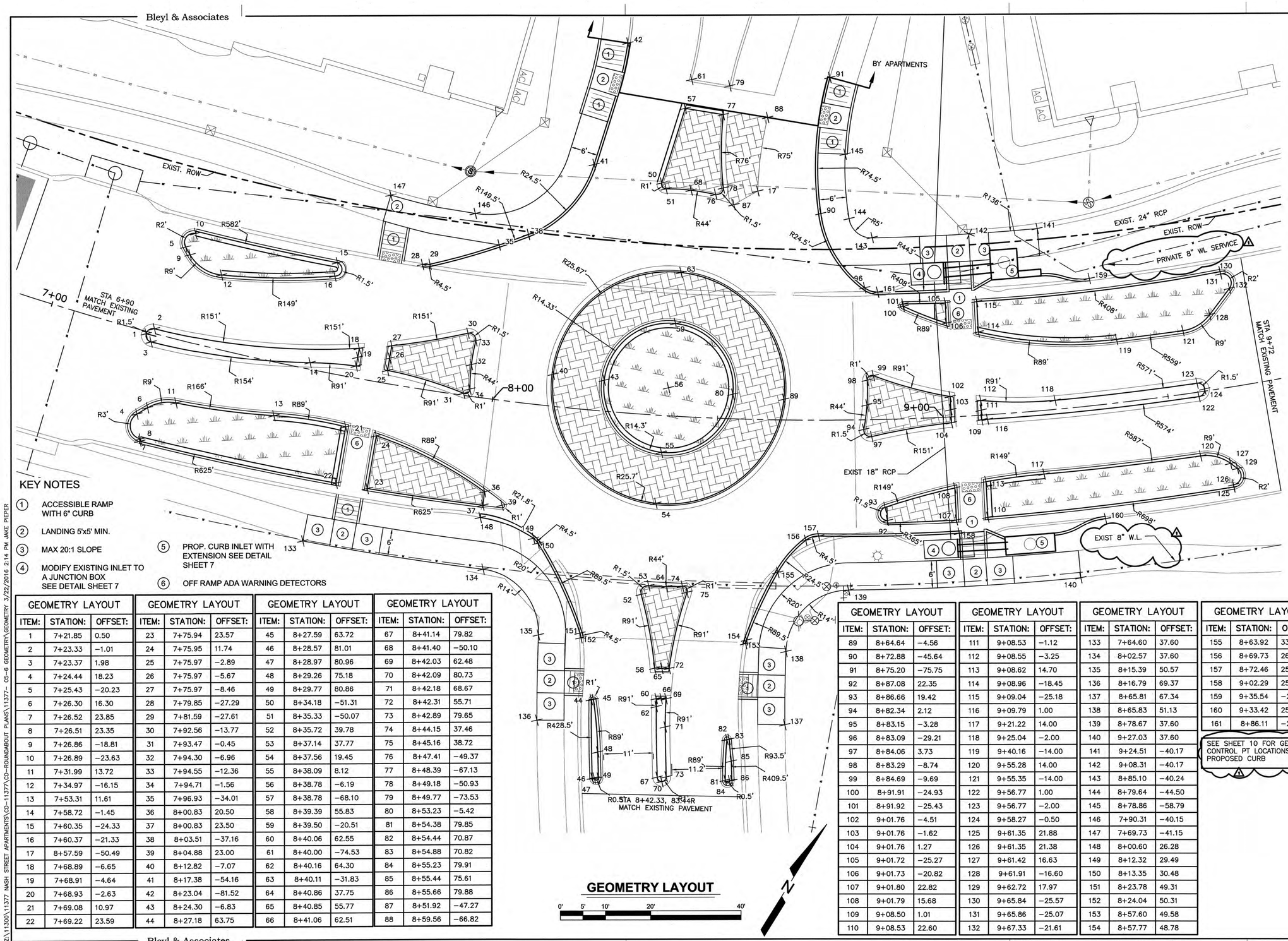


## KEY NOTES

1. ACCESSIBLE RAMP WITH 6" CURB
2. LANDING 5'x5' MIN.
3. MAX 20:1 SLOPE
4. MODIFY EXISTING INLET TO A JUNCTION BOX SEE DETAIL SHEET 7
5. PROP. CURB INLET WITH EXTENSION SEE DETAIL SHEET 7
6. OFF RAMP ADA WARNING DETECTORS

## GEOMETRY LAYOUT

0' 5' 10' 20' 40'

| GEOMETRY LAYOUT | | |
|---|---|---|
| ITEM: | STATION: | OFFSET: |
| 1 | 7+21.85 | 0.50 |
| 2 | 7+23.33 | −1.01 |
| 3 | 7+23.37 | 1.98 |
| 4 | 7+24.44 | 18.23 |
| 5 | 7+25.43 | −20.23 |
| 6 | 7+26.30 | 16.30 |
| 7 | 7+26.52 | 23.85 |
| 8 | 7+26.51 | 23.35 |
| 9 | 7+26.86 | −18.81 |
| 10 | 7+26.89 | −23.63 |
| 11 | 7+31.99 | 13.72 |
| 12 | 7+34.97 | −16.15 |
| 13 | 7+53.31 | 11.61 |
| 14 | 7+58.72 | −1.45 |
| 15 | 7+60.35 | −24.33 |
| 16 | 7+60.37 | −21.33 |
| 17 | 8+57.59 | −50.49 |
| 18 | 7+68.89 | −6.65 |
| 19 | 7+68.91 | −4.64 |
| 20 | 7+68.93 | −2.63 |
| 21 | 7+69.08 | 10.97 |
| 22 | 7+69.22 | 23.59 |

| GEOMETRY LAYOUT | | |
|---|---|---|
| ITEM: | STATION: | OFFSET: |
| 23 | 7+75.94 | 23.57 |
| 24 | 7+75.95 | 11.74 |
| 25 | 7+75.97 | −2.89 |
| 26 | 7+75.97 | −5.67 |
| 27 | 7+75.97 | −8.46 |
| 28 | 7+79.85 | −27.29 |
| 29 | 7+81.59 | −27.61 |
| 30 | 7+92.56 | −13.77 |
| 31 | 7+93.47 | −0.45 |
| 32 | 7+94.30 | −6.96 |
| 33 | 7+94.55 | −12.36 |
| 34 | 7+94.71 | −1.56 |
| 35 | 7+96.93 | −34.01 |
| 36 | 8+00.83 | 20.50 |
| 37 | 8+00.83 | 23.50 |
| 38 | 8+03.51 | −37.16 |
| 39 | 8+04.88 | 23.00 |
| 40 | 8+12.82 | −7.07 |
| 41 | 8+17.38 | −54.16 |
| 42 | 8+23.04 | −81.52 |
| 43 | 8+24.30 | −6.83 |
| 44 | 8+27.18 | 63.75 |

| GEOMETRY LAYOUT | | |
|---|---|---|
| ITEM: | STATION: | OFFSET: |
| 45 | 8+27.59 | 63.72 |
| 46 | 8+28.57 | 81.01 |
| 47 | 8+28.97 | 80.96 |
| 48 | 8+29.26 | 75.18 |
| 49 | 8+29.77 | 80.86 |
| 50 | 8+34.18 | −51.31 |
| 51 | 8+35.33 | −50.07 |
| 52 | 8+35.72 | 39.78 |
| 53 | 8+37.14 | 37.77 |
| 54 | 8+37.56 | 19.45 |
| 55 | 8+38.09 | 8.12 |
| 56 | 8+38.78 | −6.19 |
| 57 | 8+38.78 | −68.10 |
| 58 | 8+39.39 | 55.83 |
| 59 | 8+39.50 | −20.51 |
| 60 | 8+40.06 | 62.55 |
| 61 | 8+40.00 | −74.53 |
| 62 | 8+40.16 | 64.30 |
| 63 | 8+40.11 | −31.83 |
| 64 | 8+40.86 | 37.75 |
| 65 | 8+40.85 | 55.77 |
| 66 | 8+41.06 | 62.51 |

| GEOMETRY LAYOUT | | |
|---|---|---|
| ITEM: | STATION: | OFFSET: |
| 67 | 8+41.14 | 79.82 |
| 68 | 8+41.40 | −50.10 |
| 69 | 8+42.03 | 62.48 |
| 70 | 8+42.09 | 80.73 |
| 71 | 8+42.18 | 68.67 |
| 72 | 8+42.31 | 55.71 |
| 73 | 8+42.89 | 79.65 |
| 74 | 8+44.15 | 37.46 |
| 75 | 8+45.16 | 38.72 |
| 76 | 8+47.41 | −49.37 |
| 77 | 8+48.39 | −67.13 |
| 78 | 8+49.18 | −50.93 |
| 79 | 8+49.77 | −73.53 |
| 80 | 8+53.23 | −5.42 |
| 81 | 8+54.38 | 79.85 |
| 82 | 8+54.44 | 70.87 |
| 83 | 8+54.88 | 70.82 |
| 84 | 8+55.23 | 79.91 |
| 85 | 8+55.44 | 75.61 |
| 86 | 8+55.66 | 79.88 |
| 87 | 8+51.92 | −47.27 |
| 88 | 8+59.56 | −66.82 |

| GEOMETRY LAYOUT | | |
|---|---|---|
| ITEM: | STATION: | OFFSET: |
| 89 | 8+64.64 | −4.56 |
| 90 | 8+72.88 | −45.64 |
| 91 | 8+75.20 | −75.75 |
| 92 | 8+87.08 | 22.35 |
| 93 | 8+86.66 | 19.42 |
| 94 | 8+82.34 | 2.12 |
| 95 | 8+83.15 | −3.28 |
| 96 | 8+83.09 | −29.21 |
| 97 | 8+84.06 | 3.73 |
| 98 | 8+83.29 | −8.74 |
| 99 | 8+84.69 | −9.69 |
| 100 | 8+91.91 | −24.93 |
| 101 | 8+91.92 | −25.43 |
| 102 | 9+01.76 | −4.51 |
| 103 | 9+01.76 | −1.62 |
| 104 | 9+01.76 | 1.27 |
| 105 | 9+01.72 | −25.27 |
| 106 | 9+01.73 | −20.82 |
| 107 | 9+01.80 | 22.82 |
| 108 | 9+01.79 | 15.68 |
| 109 | 9+08.50 | 1.01 |
| 110 | 9+08.53 | 22.60 |

| GEOMETRY LAYOUT | | |
|---|---|---|
| ITEM: | STATION: | OFFSET: |
| 111 | 9+08.53 | −1.12 |
| 112 | 9+08.55 | −3.25 |
| 113 | 9+08.62 | 14.70 |
| 114 | 9+08.96 | −18.45 |
| 115 | 9+09.04 | −25.18 |
| 116 | 9+09.79 | 1.00 |
| 117 | 9+21.22 | 14.00 |
| 118 | 9+25.04 | −2.00 |
| 119 | 9+40.16 | −14.00 |
| 120 | 9+55.28 | 14.00 |
| 121 | 9+55.35 | −14.00 |
| 122 | 9+56.77 | 1.00 |
| 123 | 9+56.77 | −2.00 |
| 124 | 9+58.27 | −0.50 |
| 125 | 9+61.35 | 21.88 |
| 126 | 9+61.35 | 21.38 |
| 127 | 9+61.42 | 16.63 |
| 128 | 9+61.91 | −16.60 |
| 129 | 9+62.72 | 17.97 |
| 130 | 9+65.84 | −25.57 |
| 131 | 9+65.86 | −25.07 |
| 132 | 9+67.33 | −21.61 |

| GEOMETRY LAYOUT | | |
|---|---|---|
| ITEM: | STATION: | OFFSET: |
| 133 | 7+64.60 | 37.60 |
| 134 | 8+02.57 | 37.60 |
| 135 | 8+15.39 | 50.57 |
| 136 | 8+16.79 | 69.37 |
| 137 | 8+65.81 | 67.34 |
| 138 | 8+65.83 | 51.13 |
| 139 | 8+78.67 | 37.60 |
| 140 | 9+27.03 | 37.60 |
| 141 | 9+24.51 | −40.17 |
| 142 | 9+08.31 | −40.17 |
| 143 | 8+85.10 | −40.24 |
| 144 | 8+79.64 | −44.50 |
| 145 | 8+78.86 | −58.79 |
| 146 | 7+90.31 | −40.15 |
| 147 | 7+69.73 | −41.15 |
| 148 | 8+00.60 | 26.28 |
| 149 | 8+12.32 | 29.49 |
| 150 | 8+13.35 | 30.48 |
| 151 | 8+23.78 | 49.31 |
| 152 | 8+24.04 | 50.31 |
| 153 | 8+57.60 | 49.58 |
| 154 | 8+57.77 | 48.78 |

| GEOMETRY LAYOUT | | |
|---|---|---|
| ITEM: | STATION: | OFFSET: |
| 155 | 8+63.92 | 33.73 |
| 156 | 8+69.73 | 26.60 |
| 157 | 8+72.46 | 25.65 |
| 158 | 9+02.29 | 25.81 |
| 159 | 9+35.54 | −28.03 |
| 160 | 9+33.42 | 25.13 |
| 161 | 8+86.11 | −28.20 |

SEE SHEET 10 FOR GEOMETRIC CONTROL PT LOCATIONS ON PROPOSED CURB

| REV | DATE | BY | APP | COMMENT |
|---|---|---|---|---|
| 4 | | | | |
| 3 | | | | |
| 2 | | | | |
| 1 | 3/17/16 | JP | DLB | ADD NOTW, LABEL WL |

PREPARED FOR:
CLIENT NAME
ADDRESS
CITY, STATE, ZIP

SCALE: AS SHOWN
DATE: March 22, 2016
DRAWN BY: CKS
PROJECT MANAGER:

Bleyl & Associates
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1792 Broadmoor Dr. Suite 210
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100 Nugent Street
Conroe, Texas 77301
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Fax: (936) 760-3833
Texas Board of Professional Engineers F-678

# GEOMETRY LAYOUT

NASH ST. AT BROADMOOR
ROUNDABOUT
332-D3-1603
CITY OF BRYAN, TEXAS

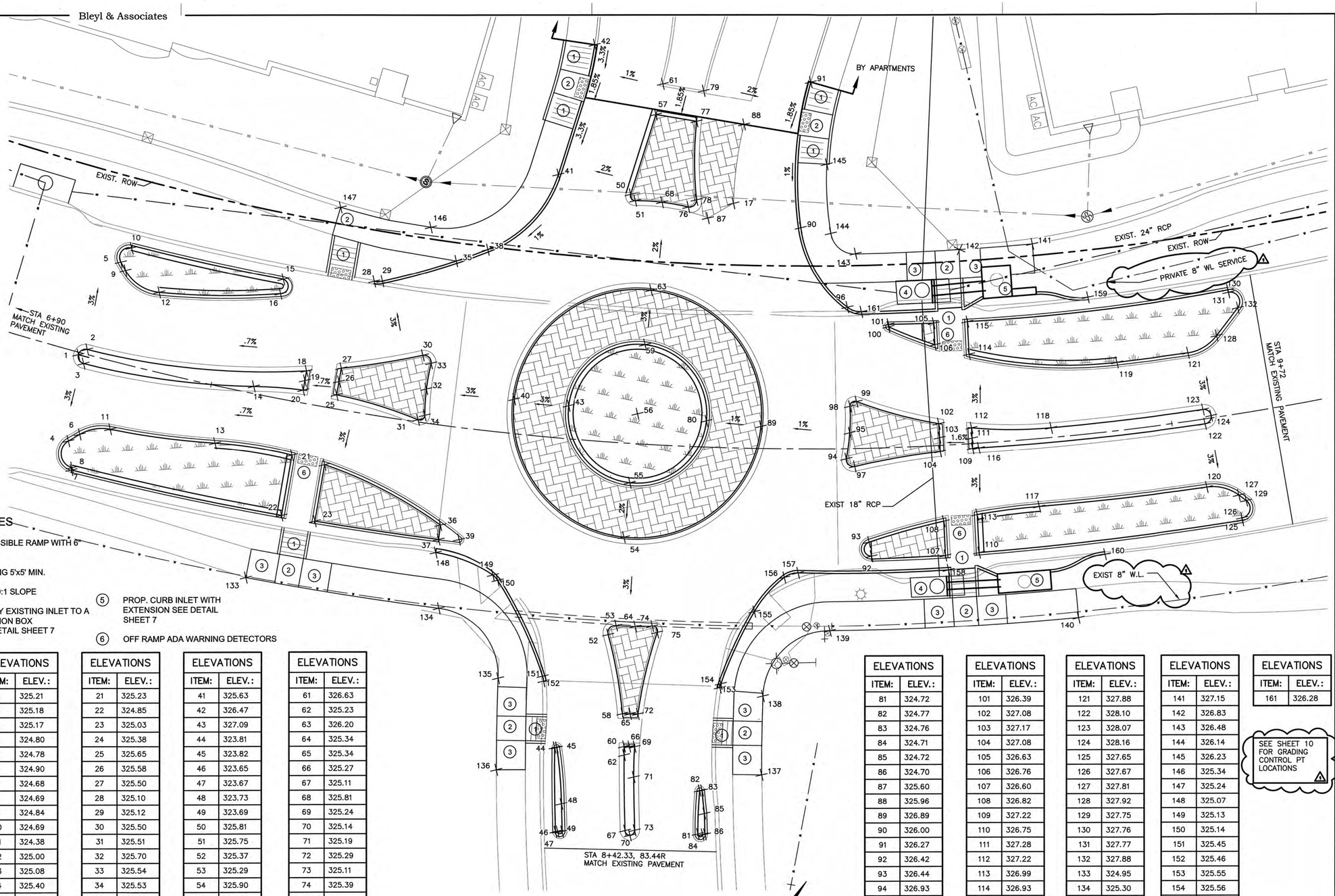
STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED
PROFESSIONAL ENGINEER
3/22/2016

PROJECT NUMBER
11377

FILE NAME:
11377- 05-6 GEOMETRY.DWG

SHEET:
05 OF: 16

Z:\11300\11377 NASH STREET APARTMENTS\CD-1137\CD-ROUNDABOUT PLANS\11377- 05-6 GEOMETRY\GEOMETRY 3/22/2016 2:14 PM JAKE PIEPER




## KEY NOTES

1. ACCESSIBLE RAMP WITH 6" CURB
2. LANDING 5'x5' MIN.
3. MAX 20:1 SLOPE
4. MODIFY EXISTING INLET TO A JUNCTION BOX SEE DETAIL SHEET 7
5. PROP. CURB INLET WITH EXTENSION SEE DETAIL SHEET 7
6. OFF RAMP ADA WARNING DETECTORS

| ELEVATIONS | |
|---|---|
| ITEM: | ELEV.: |
| 1 | 325.21 |
| 2 | 325.18 |
| 3 | 325.17 |
| 4 | 324.80 |
| 5 | 324.78 |
| 6 | 324.90 |
| 7 | 324.68 |
| 8 | 324.69 |
| 9 | 324.84 |
| 10 | 324.69 |
| 11 | 324.38 |
| 12 | 325.00 |
| 13 | 325.08 |
| 14 | 325.40 |
| 15 | 325.00 |
| 16 | 325.09 |
| 17 | 325.78 |
| 18 | 325.47 |
| 19 | 325.53 |
| 20 | 325.47 |

| ELEVATIONS | |
|---|---|
| ITEM: | ELEV.: |
| 21 | 325.23 |
| 22 | 324.85 |
| 23 | 325.03 |
| 24 | 325.38 |
| 25 | 325.65 |
| 26 | 325.58 |
| 27 | 325.50 |
| 28 | 325.10 |
| 29 | 325.12 |
| 30 | 325.50 |
| 31 | 325.51 |
| 32 | 325.70 |
| 33 | 325.54 |
| 34 | 325.53 |
| 35 | 325.29 |
| 36 | 325.16 |
| 37 | 324.89 |
| 38 | 325.37 |
| 39 | 325.15 |
| 40 | 326.25 |

| ELEVATIONS | |
|---|---|
| ITEM: | ELEV.: |
| 41 | 325.63 |
| 42 | 326.47 |
| 43 | 327.09 |
| 44 | 323.81 |
| 45 | 323.82 |
| 46 | 323.65 |
| 47 | 323.67 |
| 48 | 323.73 |
| 49 | 323.69 |
| 50 | 325.81 |
| 51 | 325.75 |
| 52 | 325.37 |
| 53 | 325.29 |
| 54 | 325.90 |
| 55 | 326.82 |
| 56 | 327.32 |
| 57 | 326.58 |
| 58 | 325.29 |
| 59 | 327.02 |
| 60 | 325.24 |

| ELEVATIONS | |
|---|---|
| ITEM: | ELEV.: |
| 61 | 326.63 |
| 62 | 325.23 |
| 63 | 326.20 |
| 64 | 325.34 |
| 65 | 325.34 |
| 66 | 325.27 |
| 67 | 325.11 |
| 68 | 325.81 |
| 69 | 325.24 |
| 70 | 325.14 |
| 71 | 325.19 |
| 72 | 325.29 |
| 73 | 325.11 |
| 74 | 325.39 |
| 75 | 325.37 |
| 76 | 325.86 |
| 77 | 326.49 |
| 78 | 326.04 |
| 79 | 326.83 |
| 80 | 327.50 |

| ELEVATIONS | |
|---|---|
| ITEM: | ELEV.: |
| 81 | 324.72 |
| 82 | 324.77 |
| 83 | 324.76 |
| 84 | 324.71 |
| 85 | 324.72 |
| 86 | 324.70 |
| 87 | 325.60 |
| 88 | 325.96 |
| 89 | 326.89 |
| 90 | 326.00 |
| 91 | 326.27 |
| 92 | 326.42 |
| 93 | 326.44 |
| 94 | 326.93 |
| 95 | 327.08 |
| 96 | 326.25 |
| 97 | 326.83 |
| 98 | 326.93 |
| 99 | 326.67 |
| 100 | 326.40 |

| ELEVATIONS | |
|---|---|
| ITEM: | ELEV.: |
| 101 | 326.39 |
| 102 | 327.08 |
| 103 | 327.17 |
| 104 | 327.08 |
| 105 | 326.63 |
| 106 | 326.76 |
| 107 | 326.60 |
| 108 | 326.82 |
| 109 | 327.22 |
| 110 | 326.75 |
| 111 | 327.28 |
| 112 | 327.22 |
| 113 | 326.99 |
| 114 | 326.93 |
| 115 | 326.73 |
| 116 | 327.24 |
| 117 | 327.23 |
| 118 | 327.51 |
| 119 | 327.59 |
| 120 | 327.88 |

| ELEVATIONS | |
|---|---|
| ITEM: | ELEV.: |
| 121 | 327.88 |
| 122 | 328.10 |
| 123 | 328.07 |
| 124 | 328.16 |
| 125 | 327.65 |
| 126 | 327.67 |
| 127 | 327.81 |
| 128 | 327.92 |
| 129 | 327.75 |
| 130 | 327.76 |
| 131 | 327.77 |
| 132 | 327.88 |
| 133 | 324.95 |
| 134 | 325.30 |
| 135 | 325.60 |
| 136 | 325.42 |
| 137 | 325.46 |
| 138 | 325.68 |
| 139 | 326.13 |
| 140 | 327.17 |

| ELEVATIONS | |
|---|---|
| ITEM: | ELEV.: |
| 141 | 327.15 |
| 142 | 326.83 |
| 143 | 326.48 |
| 144 | 326.14 |
| 145 | 326.23 |
| 146 | 325.34 |
| 147 | 325.24 |
| 148 | 325.07 |
| 149 | 325.13 |
| 150 | 325.14 |
| 151 | 325.45 |
| 152 | 325.46 |
| 153 | 325.55 |
| 154 | 325.56 |
| 155 | 325.82 |
| 156 | 325.98 |
| 157 | 326.04 |
| 158 | 326.37 |
| 159 | 327.11 |
| 160 | 327.10 |

| ELEVATIONS | |
|---|---|
| ITEM: | ELEV.: |
| 161 | 326.28 |

SEE SHEET 10 FOR GRADING CONTROL PT LOCATIONS

## GRADING PLAN

0' 5' 10' 20' 40'

N

| REV | DATE | BY | APP | COMMENT |
|---|---|---|---|---|
| 4 | | | | |
| 3 | | | | |
| 2 | | | | |
| 1 | 3/17/16 | JP | DLB | ADDED NOTE |

PREPARED FOR:
CLIENT NAME
ADDRESS
CITY, STATE, ZIP

SCALE: AS SHOWN
DATE: March 22, 2016
DRAWN BY: CKS
PROJECT MANAGER:

Bleyl & Associates
Planning • Engineering • Management
1722 Broadmoor Dr. Suite 210
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Fax: (936) 760-3833
Texas Board of Professional Engineers F-678

# GRADING PLAN

NASH ST. AT BROADMOOR
ROUNDABOUT
332-D3-1603
CITY OF BRYAN, TEXAS

STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED
PROFESSIONAL ENGINEER

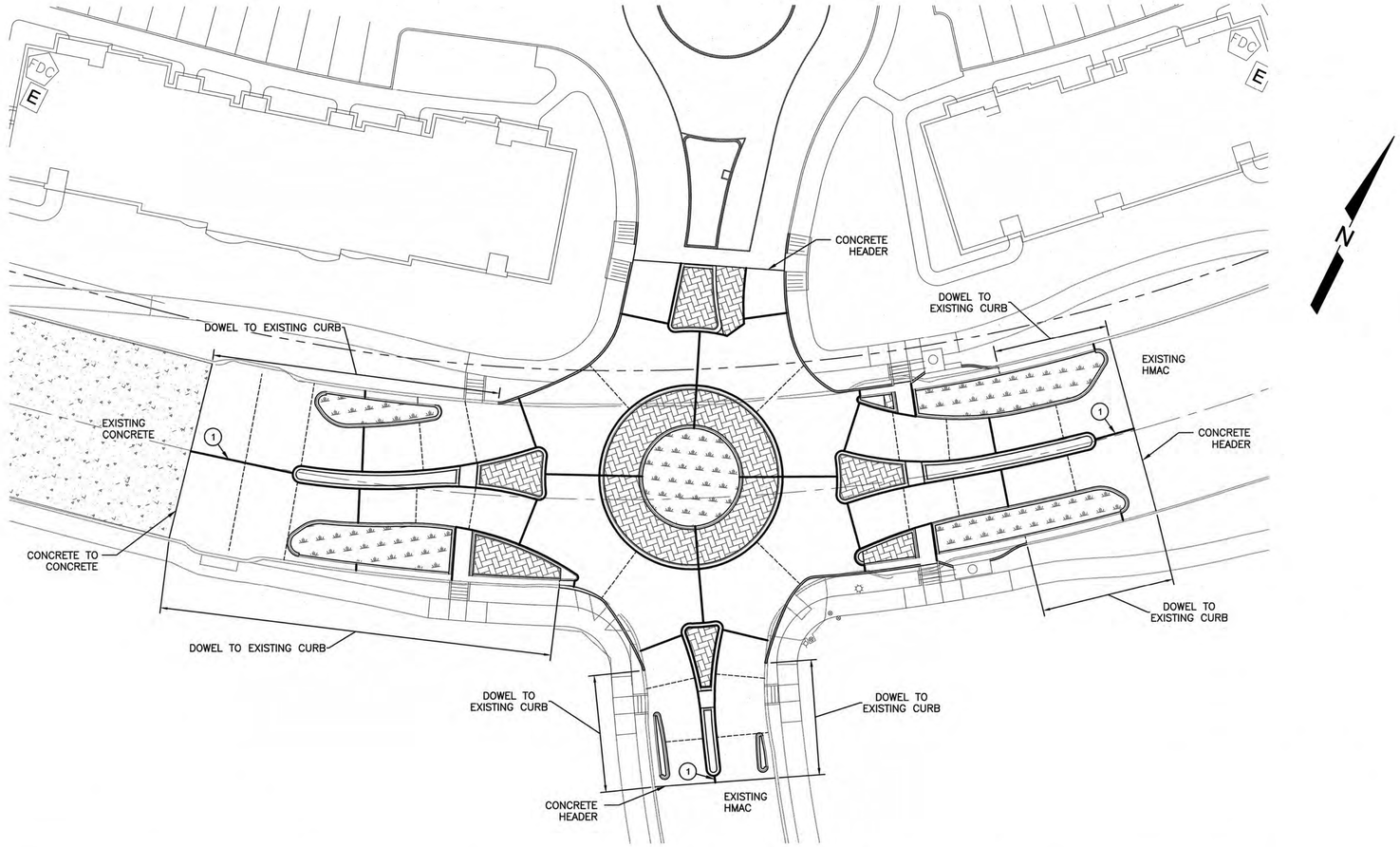
3/22/2016

PROJECT NUMBER
11377

FILE NAME:
11377- 05-6 GEOMETRY.DWG

SHEET:
06 OF: 16

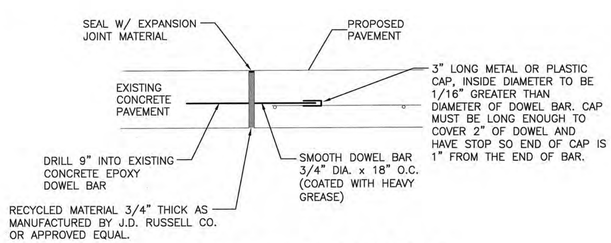
Z:\11300\11377 NASH STREET APARTMENTS\CD-11377\CD-ROUNDABOUT PLANS\11377- 05-6 GEOMETRY\GRADING 3/22/2016 2:15 PM JAKE PIEPER



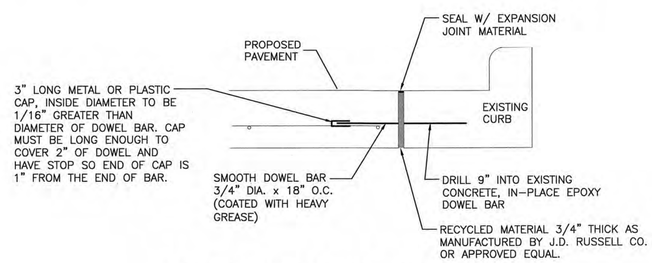

## CONCRETE JOINT LAYOUT

0 10' 20' 40' 80'

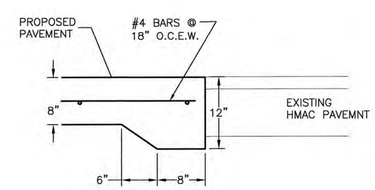
TYPE G EXPANSION JOINT
(1) TYPE D LONGITUDINAL JOINT
TYPE B CONTRACTION JOINT




## CONCRETE TO CONCRETE




## DOWEL TO EXISTING CURB




## CONCRETE HEADER

| REV | DATE | BY | APP | COMMENT |
|---|---|---|---|---|
| 4 | | | | |
| 3 | | | | |
| 2 | | | | |
| 1 | | | | |

PREPARED FOR:
CLIENT NAME
ADDRESS
CITY, STATE, ZIP

SCALE: AS SHOWN
DATE: February 22, 2016
DRAWN BY: CKS
PROJECT MANAGER:

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Texas Board of Professional Engineers F-678

# CONCRETE JOINT LAYOUT

NASH ST. AT BROADMOOR ROUNDABOUT
332-D3-1603
CITY OF BRYAN, TEXAS

STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED
PROFESSIONAL ENGINEER
2-22-2016

PROJECT NUMBER
11377

FILE NAME:
11377– 07 CC JOINTS.DWG

SHEET:
07 OF: 16

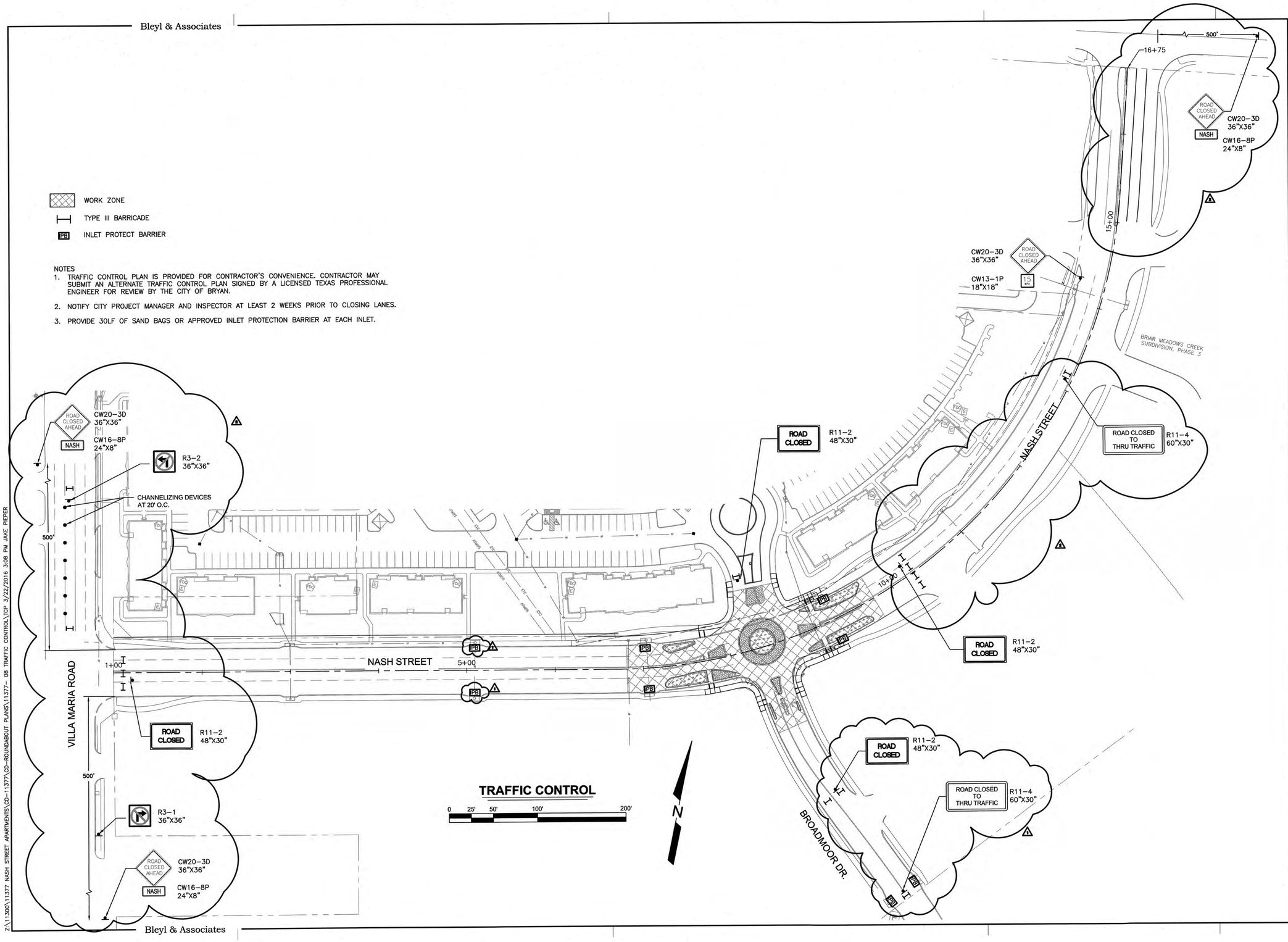
Z:\11300\11377 NASH STREET APARTMENTS\CD-11377\CD-ROUNDABOUT PLANS\11377- 07 CC JOINTS\LAYOUT 2/22/2016 12:33 PM WILLIAM BYRN

WORK ZONE

TYPE III BARRICADE

PB INLET PROTECT BARRIER

NOTES
1. TRAFFIC CONTROL PLAN IS PROVIDED FOR CONTRACTOR'S CONVENIENCE. CONTRACTOR MAY SUBMIT AN ALTERNATE TRAFFIC CONTROL PLAN SIGNED BY A LICENSED TEXAS PROFESSIONAL ENGINEER FOR REVIEW BY THE CITY OF BRYAN.
2. NOTIFY CITY PROJECT MANAGER AND INSPECTOR AT LEAST 2 WEEKS PRIOR TO CLOSING LANES.
3. PROVIDE 30LF OF SAND BAGS OR APPROVED INLET PROTECTION BARRIER AT EACH INLET.




| REV | DATE | BY | COMMENT |
|---|---|---|---|
| 4 | | | |
| 3 | | | |
| 2 | 3/22/16 | JP | UPDATED SIGNS AND TURNED ON STRIPING |
| 1 | 3/7/16 | JP | REVISED FOR ADDENDUM #1 |

PREPARED FOR:
CLIENT NAME
ADDRESS
CITY, STATE, ZIP

SCALE: AS SHOWN
DATE: March 22, 2016
DRAWN BY: CKS
PROJECT MANAGER:

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Texas Board of Professional Engineers F-678

# TRAFFIC CONTROL

NASH ST. AT BROADMOOR ROUNDABOUT
332-D3-1603
CITY OF BRYAN, TEXAS

STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED
PROFESSIONAL ENGINEER
3/22/16

PROJECT NUMBER
11377

FILE NAME:
11377– 08 TRAFFIC CONTROL.DWG

SHEET:
08 OF: 16

Z:\11300\11377 NASH STREET APARTMENTS\CD-11377\CD-ROUNDABOUT PLANS\11377– 08 TRAFFIC CONTROL\TCP 3/22/2016 3:08 PM JAKE PIEPER

## KEY NOTES & ESTIMATED QUANTITIES

| | | |
|---|---|---|
| 1 | 4" WHITE SOLID | ~~730~~ 795 LF |
| 2 | 4" YELLOW SOLID | ~~2,320~~ 2,420 LF |
| 3 | 4" WHITE BROKEN | ~~360~~ 330 LF |
| 4 | 24" WHITE STOP BAR | 70 LF |
| 5 | 8" WHITE SOLID | 560 LF |
| 6 | 24" WHITE CROSSWALKS | 56 EA |
| 7 | 6" WHITE DASH | 60 LF |
| 8 | ARROW (W) | ~~6~~ 7 EA |
| 9 | "ONLY" (W) | ~~5 EA~~ 6 |
| 10 | ~~24"~~ 12" WHITE CHEVRON | 186 LF |
| 11 | **12" YELLOW CHEVRON** | **315 LF** |

## STRIPING GENERAL NOTES

1. PHYSICALLY REMOVE EXISTING CONFLICTING MARKINGS USING AIR BLAST OR GRINDING AS NECESSARY, MAKING SURE TO MINIMIZE DAMAGE TO EXISTING PAVEMENT.
2. PROVIDE TYPE I THERMOPLASTIC MARKINGS IN ACCORDANCE WITH TXDOT ITEM 666 "RETROREFLECTORIZED PAVEMENT MARKINGS" INCLUDING SURFACE PREPARATION AND SEALER APPLICATION. NO ADDITIONAL PAYMENT WILL BE MADE FOR SURFACE PREPARATION OR SEALER APPLICATION, INCLUDE COSTS IN UNIT PRICE BID FOR MARKINGS.
3. CITY OF BRYAN TO PROVIDE STREETNAME SIGNS FOR INSTALLATION ON PROPOSED STOP AND YIELD SIGNS.

## SIGNS

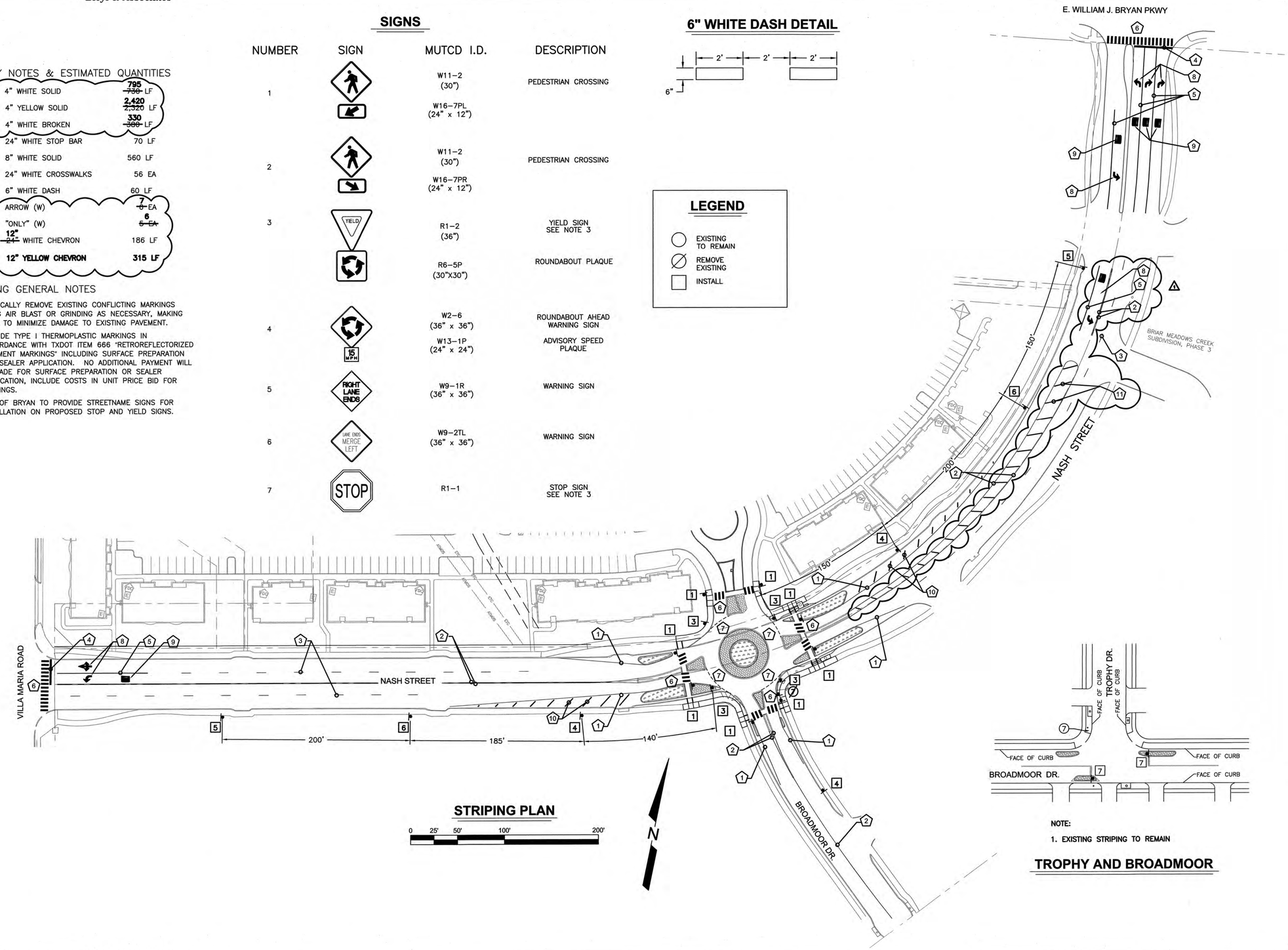
| NUMBER | SIGN | MUTCD I.D. | DESCRIPTION |
|---|---|---|---|
| 1 |  | W11-2 (30") | PEDESTRIAN CROSSING |
| | | W16-7PL (24" x 12") | |
| 2 |  | W11-2 (30") | PEDESTRIAN CROSSING |
| | | W16-7PR (24" x 12") | |
| 3 |   | R1-2 (36") | YIELD SIGN SEE NOTE 3 |
| |  | R6-5P (30"X30") | ROUNDABOUT PLAQUE |
| 4 |   | W2-6 (36" x 36") | ROUNDABOUT AHEAD WARNING SIGN |
| | | W13-1P (24" x 24") | ADVISORY SPEED PLAQUE |
| 5 |   | W9-1R (36" x 36") | WARNING SIGN |
| 6 |   | W9-2TL (36" x 36") | WARNING SIGN |
| 7 |   | R1-1 | STOP SIGN SEE NOTE 3 |

## 6" WHITE DASH DETAIL




## LEGEND

- EXISTING TO REMAIN
- REMOVE EXISTING
- INSTALL




## STRIPING PLAN

0 25' 50' 100' 200'

NOTE:

1. EXISTING STRIPING TO REMAIN

## TROPHY AND BROADMOOR

| REV | DATE | BY | APP | COMMENT |
|---|---|---|---|---|
| 4 | | | | |
| 3 | | | | |
| 2 | | | | |
| 1 | 3/7/16 | JCP | DLB | REVISE STRIPING |

PREPARED FOR:
CLIENT NAME
ADDRESS
CITY, STATE, ZIP

SCALE: AS SHOWN
DATE: March 22, 2016
DRAWN BY: CKS
PROJECT MANAGER:

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Texas Board of Professional Engineers F-678

**STRIPING AND SIGN PLAN**

NASH ST. AT BROADMOOR ROUNDABOUT
332-D3-1603
CITY OF BRYAN, TEXAS

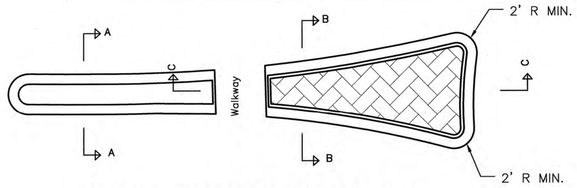
STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED
PROFESSIONAL ENGINEER
3/22/2016

PROJECT NUMBER
11377

FILE NAME:
11377- 09 STRIPING.DWG

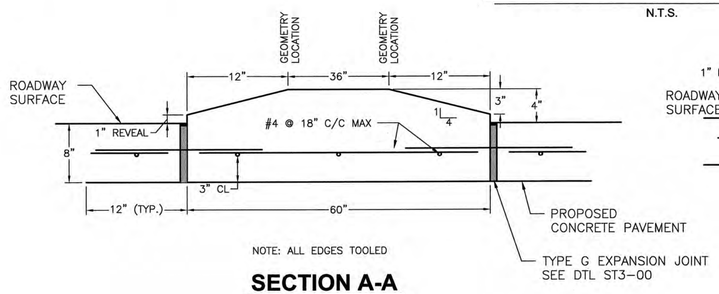
SHEET:
09 OF: 16

Z:\11300\11377 NASH STREET APARTMENTS\CD-11377\CD-ROUNDABOUT PLANS\11377- 09 STRIPING\STRIPING 3/22/2016 2:26 PM JAKE PIEPER




## MOUNTABLE SPLITTER ISLAND

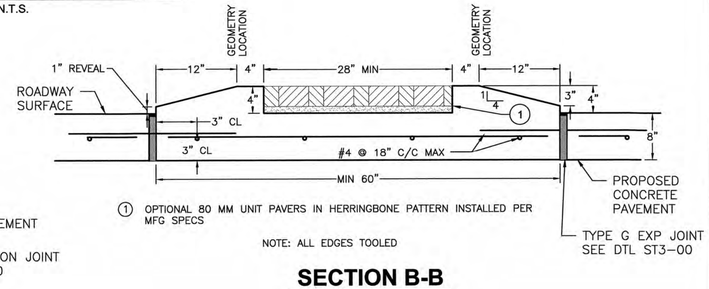
N.T.S.




NOTE: ALL EDGES TOOLED

## SECTION A-A

N.T.S.

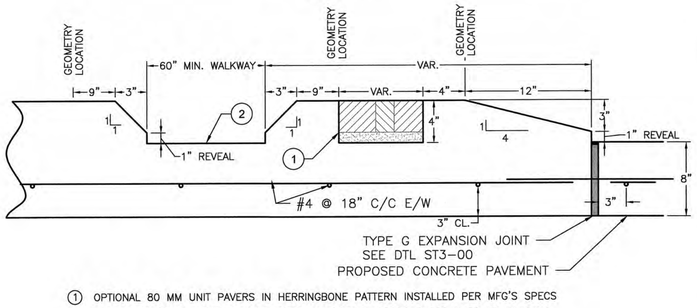



① OPTIONAL 80 MM UNIT PAVERS IN HERRINGBONE PATTERN INSTALLED PER MFG SPECS

NOTE: ALL EDGES TOOLED

## SECTION B-B

N.T.S.



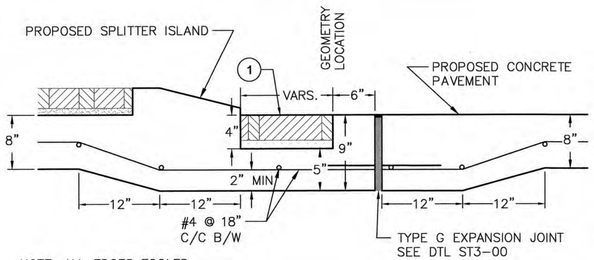

① OPTIONAL 80 MM UNIT PAVERS IN HERRINGBONE PATTERN INSTALLED PER MFG'S SPECS

② SLOPED TO DRAIN TYPICALLY WITH ROADWAY CROWN. CROSS SLOPE MATCHES RUNNING SLOPE OF ROADWAY UP TO 2%. MAX. DESIRABLE

NOTE: ALL EDGES TOOLED

## SECTION C-C

N.T.S.

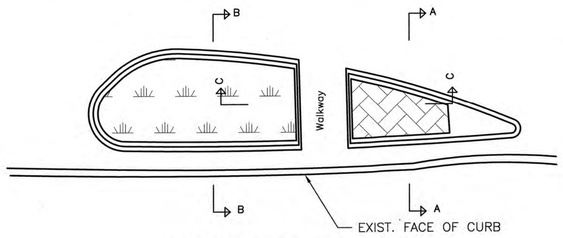



NOTE: ALL EDGES TOOLED

① OPTIONAL 80 MM UNIT PAVERS IN HERRINGBONE PATTERN INSTALLED PER MFG'S SPECS

## FLUSH PAVER DETAIL

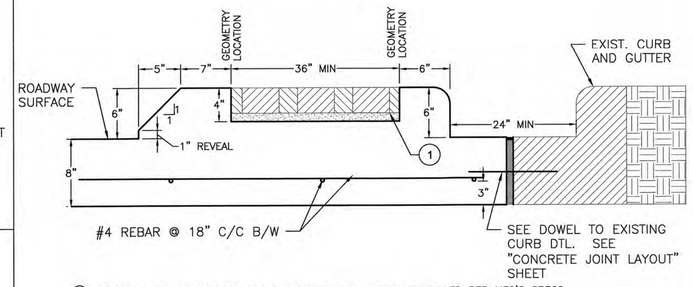
N.T.S.




NOTE: CURB RAMPS NOT SHOWN

## BULB OUT DETAIL

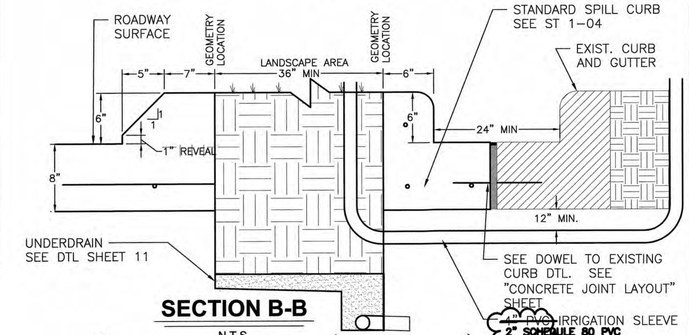
N.T.S.




① OPTIONAL 80 MM UNIT PAVERS IN HERRINGBONE PATTERN INSTALLED PER MFG'S SPECS

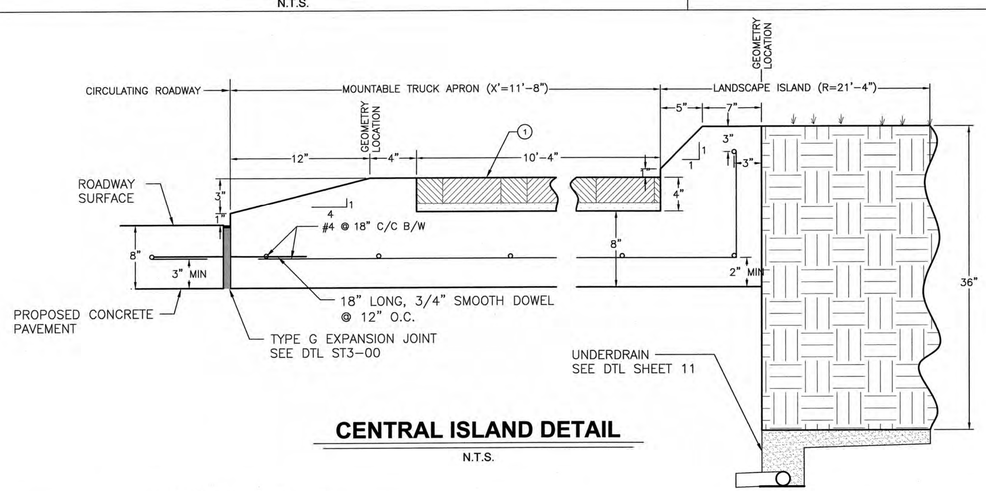
## SECTION A-A

N.T.S.



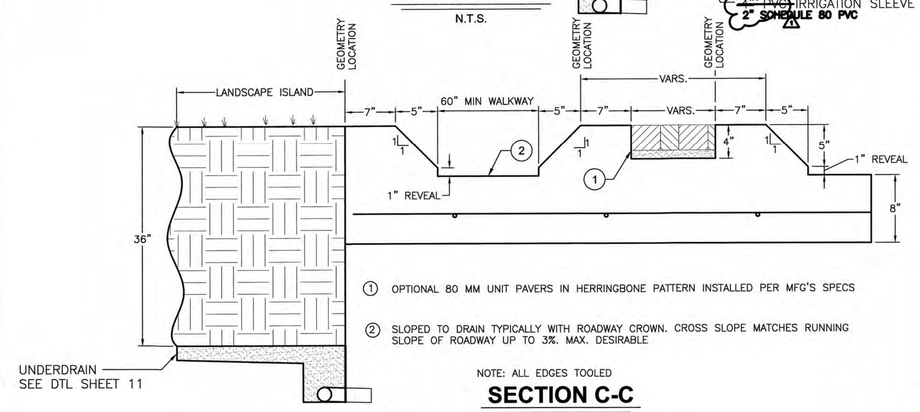

## SECTION B-B

N.T.S.




## CENTRAL ISLAND DETAIL

N.T.S.




① OPTIONAL 80 MM UNIT PAVERS IN HERRINGBONE PATTERN INSTALLED PER MFG'S SPECS

② SLOPED TO DRAIN TYPICALLY WITH ROADWAY CROWN. CROSS SLOPE MATCHES RUNNING SLOPE OF ROADWAY UP TO 3%. MAX. DESIRABLE

NOTE: ALL EDGES TOOLED

## SECTION C-C

N.T.S.

| REV | DATE | BY | APP | COMMENT |
|---|---|---|---|---|
| 1 | 3/17/16 | JP | DLB | 2" IRRIGATION SLEEVE |

PREPARED FOR:
CLIENT NAME
ADDRESS
CITY, STATE, ZIP

SCALE: AS SHOWN
DATE: March 22, 2016
DRAWN BY: –
PROJECT MANAGER:

Bleyl & Associates
Planning • Engineering • Management
1722 Broadmoor Dr, Suite 210
Bryan, Texas 77802
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Fax: (979) 260-3848
100 Nugent Street
Conroe, Texas 77301
Phone: (936) 441-7500
Fax: (936) 760-3833
Texas Board of Professional Engineers F-678

NASH AT BROADMOOR ROUNDABOUT DETAILS
SHEET 1 OF 2

NASH ST. AT BROADMOOR ROUNDABOUT
332-D3-1603
CITY OF BRYAN, TEXAS

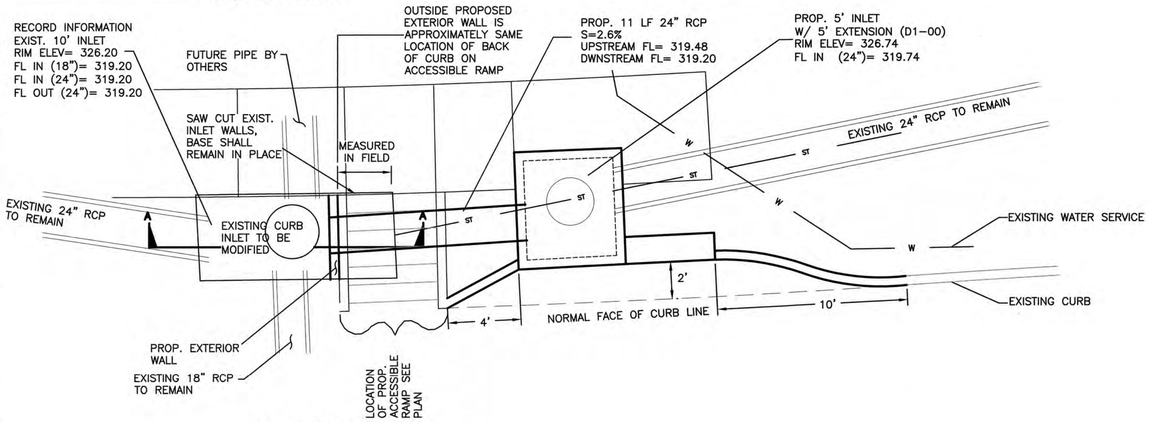
STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED
PROFESSIONAL ENGINEER
3/22/2016

PROJECT NUMBER
11377

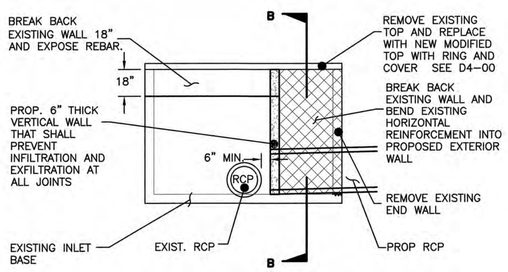
FILE NAME:
11377– 10–12 DETAILS.DWG

SHEET:
10 OF: 16

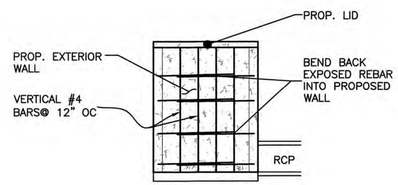
Z:\11300\11377 NASH STREET APARTMENTS\CD-11377\CD-ROUNDABOUT PLANS\11377– 10-12 DETAILS\DET1 3/22/2016 2:16 PM JAKE PIEPER



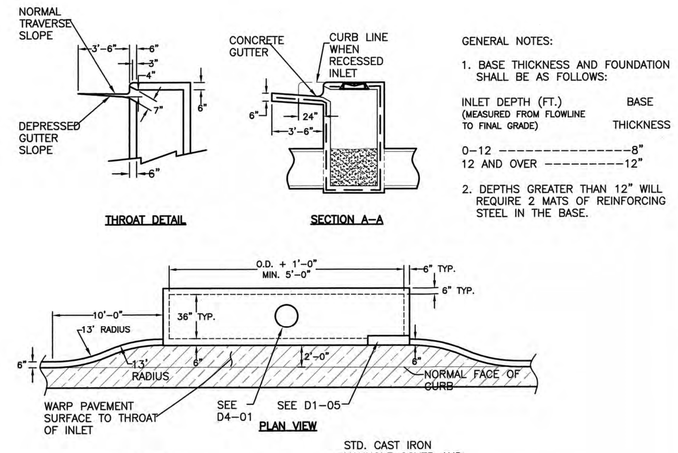

PLAN VIEW (NORTH INLET)
NTS




SECTION A
NTS




SECTION B
NTS



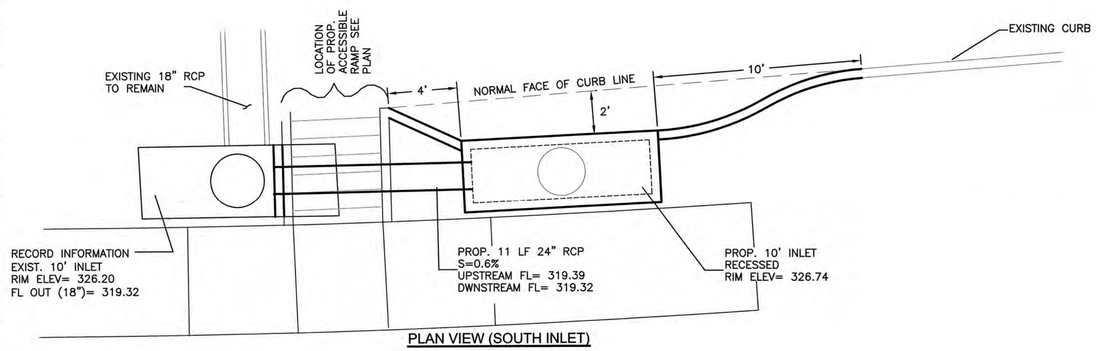

GENERAL NOTES:

1. BASE THICKNESS AND FOUNDATION SHALL BE AS FOLLOWS:

| INLET DEPTH (FT.) (MEASURED FROM FLOWLINE TO FINAL GRADE) | BASE THICKNESS |
|---|---|
| 0-12 | 8" |
| 12 AND OVER | 12" |

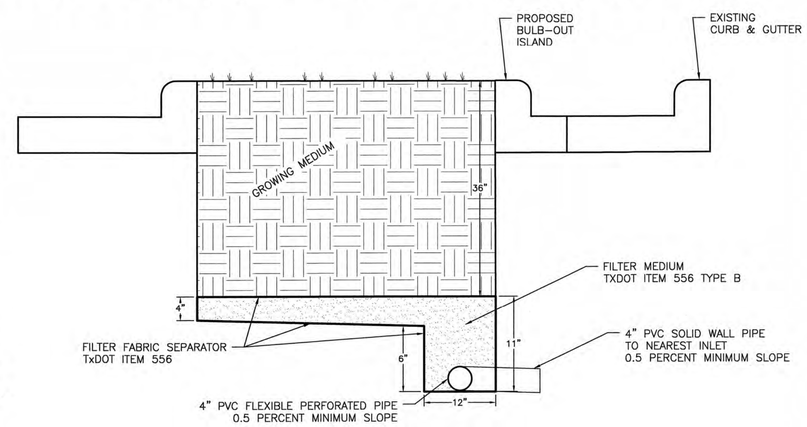
2. DEPTHS GREATER THAN 12" WILL REQUIRE 2 MATS OF REINFORCING STEEL IN THE BASE.

**RECESSED 10 FT. CURB INLET**
NOT TO SCALE




PLAN VIEW (SOUTH INLET)
NTS

**IN-SITU CURB INLET MODIFIED TO JUNCTION BOX**
NOT TO SCALE




**UNDERDRAIN DETAIL**
N.T.S.

NOTES:

1. VERIFY INLET DEPTH PRIOR TO CONSTRUCTION
2. CONSTRUCT UNDERDRAIN FROM OUTFALL END
3. PLUG OPEN END(S) OF PERFORATED PIPE
4. PLACE FILTER FABRIC IN TRENCH PRIOR TO PLACING FILTER MEDIUM OR PERFORATED PIPE
5. OVERLAP FILTER FABRIC ON TOP OF FILTER MEDIUM BY 18"

| REV | DATE | BY | APP | COMMENT |
|---|---|---|---|---|
| 4 | | | | |
| 3 | | | | |
| 2 | | | | |
| 1 | 3/17/16 | JP | DLB | ADD UNDERDRAIN DETAIL |

PREPARED FOR:
CLIENT NAME
ADDRESS
CITY, STATE, ZIP

SCALE: AS SHOWN
DATE: March 22, 2016
DRAWN BY: --
PROJECT MANAGER:

Bleyl & Associates
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Texas Board of Professional Engineers F-678

NASH AT BROADMOOR ROUNDABOUT DETAILS SHEETS 2 OF 2

NASH ST. AT BROADMOOR ROUNDABOUT
332-D3-1603
CITY OF BRYAN, TEXAS

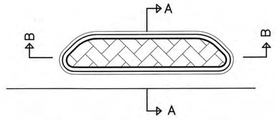
STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED
PROFESSIONAL ENGINEER
3/22/2016

PROJECT NUMBER
11377

FILE NAME:
11377- 10-12 DETAILS.DWG

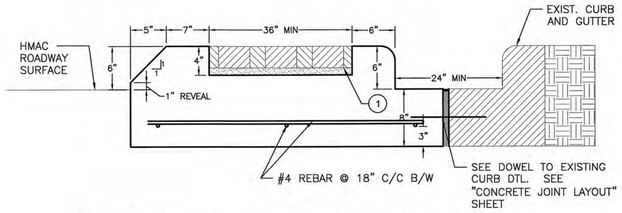
SHEET:
11 OF: 16

Z:\11300\11377 NASH STREET APARTMENTS\CD-11377\CD-ROUNDABOUT PLANS\11377- 10-12 DETAILS\DET1 (2) 3/22/2016 2:17 PM JAKE PIEPER




## BULB OUT ISLAND DETAIL

N.T.S.




① OPTIONAL 80 MM UNIT PAVERS IN HERRINGBONE PATTERN INSTALLED PER MFG'S SPECS

## SECTION A-A

N.T.S.



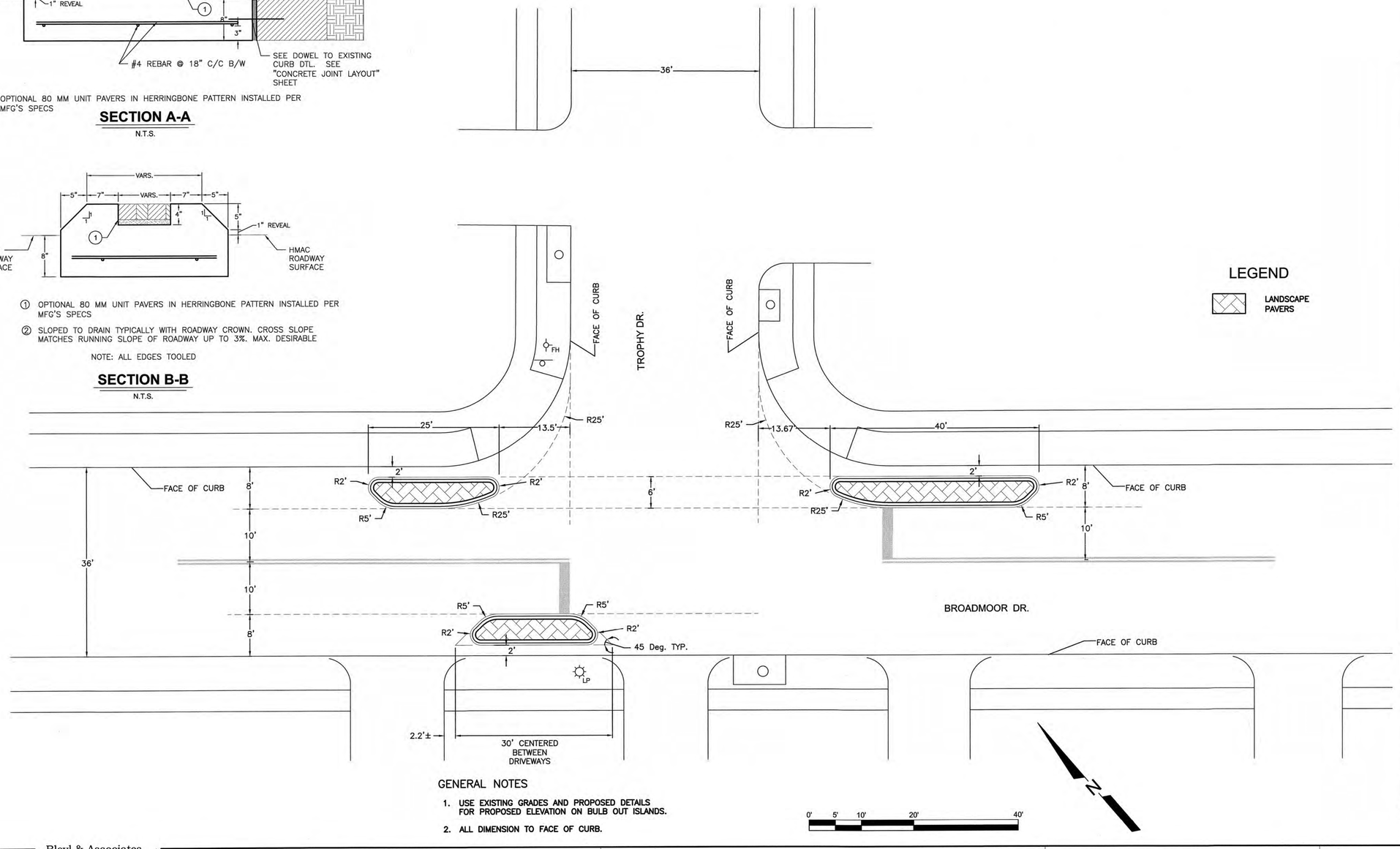

① OPTIONAL 80 MM UNIT PAVERS IN HERRINGBONE PATTERN INSTALLED PER MFG'S SPECS

② SLOPED TO DRAIN TYPICALLY WITH ROADWAY CROWN. CROSS SLOPE MATCHES RUNNING SLOPE OF ROADWAY UP TO 3%. MAX. DESIRABLE

NOTE: ALL EDGES TOOLED

## SECTION B-B

N.T.S.




## LEGEND

LANDSCAPE PAVERS

## GENERAL NOTES

1. USE EXISTING GRADES AND PROPOSED DETAILS FOR PROPOSED ELEVATION ON BULB OUT ISLANDS.
2. ALL DIMENSION TO FACE OF CURB.

| REV | DATE | BY | APP | COMMENT |
|---|---|---|---|---|
| 4 | | | | |
| 3 | | | | |
| 2 | | | | |
| 1 | | | | |

PREPARED FOR:
CLIENT NAME
ADDRESS:
CITY, STATE, ZIP

SCALE: AS SHOWN
DATE: February 22, 2016
DRAWN BY: –
PROJECT MANAGER:

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Fax: (936) 756-3853
Texas Board of Professional Engineers F-578

# BROADMOOR AND TROPHY BULB OUT ISLAND DETAIL SHEET

NASH ST. AT BROADMOOR ROUNDABOUT
332-D3-1603
CITY OF BRYAN, TEXAS

STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED
PROFESSIONAL ENGINEER

2-22-2016

PROJECT NUMBER
11377

FILE NAME:
11377– 10–12 DETAILS.DWG

SHEET:
12 OF: 16

Z:\11300\11377 NASH STREET APARTMENTS\CD–11377\CD–ROUNDABOUT PLANS\11377– 10–12 DETAILS\DET3 2/22/2016 12:15 PM WILLIAM BYRN