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## TYPE OF CONSTRUCTION:

GRADING, EARTH WORK, DRAINAGE STRUCTURES, SUB-SURFACE DRAINAGE, BASE COURSE, PORTLAND CEMENT CONCRETE PAVEMENT, CONCRETE CURBS, ADA RAMPS, GRAVEL PARKING, PLANTING, SIGNAGE, AND FURNISHINGS

## NOTE:

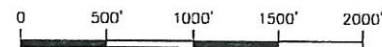
THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CITY OF BATON ROUGE AND PARISH OF EAST BATON ROUGE, LOUISIANA, LATEST EDITION, AS AMENDED BY THE PROJECT SPECIFICATIONS, SHALL GOVERN THIS PROJECT.

# CITY OF BATON ROUGE AND PARISH OF EAST BATON ROUGE DEPARTMENT OF TRANSPORTATION AND DRAINAGE ENGINEERING DIVISION PLANS OF PROPOSED PERKINS RD. OVERPASS RAYMOND AVE. TO CHRISTIAN ST. CITY PARISH PROJECT No. 23-EN-HC-0037

PERKINS RD. OVERPASS  
STA. 47+26.91  
BEGIN C.P. No. 23-EN-HC-0037

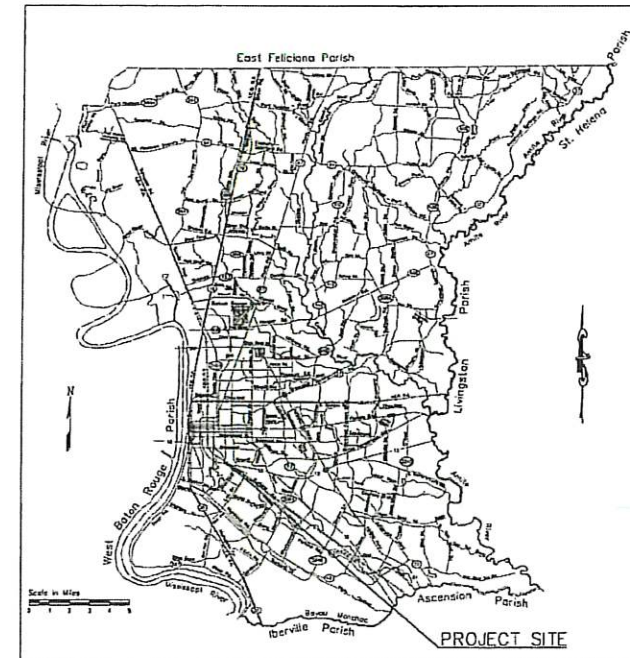


## LAYOUT MAP



## DATUM USED:

HORIZONTAL: LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83. DISTANCES ARE U.S. SURVEY FEET  
VERTICAL: LEICA NETWORK SYSTEM USING TRIMBLE R12 DUAL FREQUENCY GPS UNITS. NAVD 1988 DATUM, GEOID 18  
REFERENCE BENCHMARKS: LEICA NETWORK SYSTEM USING TRIMBLE R12 DUAL FREQUENCY GPS UNITS. NAVD 1988 DATUM, GEOID 18



## VICINITY MAP

## RECOMMENDED FOR APPROVAL

*[Signature]*  
CARBO LANDSCAPE ARCHITECTURE  
DATE: 02/11/2026

## RECOMMENDED FOR APPROVAL

*[Signature]*  
MOVEBR PROGRAM MANAGER  
DATE: 02/20/2026

## RECOMMENDED FOR APPROVAL

*[Signature]*  
CHIEF TRAFFIC ENGINEER  
DATE: 3/18/26

## RECOMMENDED FOR APPROVAL

*[Signature]*  
CHIEF DESIGN & CONSTRUCTION ENGINEER  
DATE: 3/18/26

## APPROVED

*[Signature]*  
DIRECTOR OF DEPARTMENT OF  
TRANSPORTATION & DRAINAGE,  
DIV. OF ENGINEERING  
DATE: 3-18-26

|                                                                          |                         |
|--------------------------------------------------------------------------|-------------------------|
| SHEET NUMBER                                                             | G1.00                   |
| PARISH                                                                   | EAST BATON ROUGE PARISH |
| CITY PROJECT                                                             | 23-EN-HC-0037           |
| DATE                                                                     | 10/10/2025              |
| CHECKED                                                                  |                         |
| REVISION DESCRIPTION                                                     |                         |
| DATE                                                                     |                         |
| BY                                                                       |                         |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION                               |                         |
| TITLE SHEET AND LAYOUT MAP                                               |                         |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS                              |                         |
| BR                                                                       |                         |
| W. Shannon Blakeman<br>REG. No. 8-393<br>LICENSED<br>LANDSCAPE ARCHITECT |                         |
| CIARBO                                                                   |                         |



GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH LA ONE CALL AND ANY OTHER UTILITY COMPANY ON THE LOCATION OF ALL UNDERGROUND UTILITIES, PRIOR TO BEGINNING ANY WORK. ANY DISRUPTION OF UNDERGROUND UTILITIES SHALL BE REPAIRED AT NO EXPENSE TO OWNER OR THE LANDSCAPE ARCHITECT.
2. CONTRACTOR SHALL COORDINATE WITH EBR CITY-PARISH OFFICIALS ON ALL CONSTRUCTION ACTIVITIES INCLUDING MATERIAL STAGING AND SITE ACCESS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY REMAINING STRUCTURES OR PAVING. ANY DAMAGE TO REMAINING STRUCTURES OR PAVING SHALL BE REPAIRED BY CONTRACTOR AT NO EXPENSE TO OWNER. ANY REPAIRS SHALL MATCH OR EXCEED THE ORIGINAL CONDITIONS OF THE DAMAGED AREA(S) AND SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR THE OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL PROVIDE MATS OR OTHER PROTECTION FOR EXISTING CONCRETE PAVING OR ASPHALT TO REMAIN. ANY DAMAGE SHALL BE REPAIRED AT NO EXPENSE TO OWNER OR L.A.
5. CONTRACTOR SHALL VERIFY WITH L.A. AND MOVEBR CONSTRUCTION MANAGER ALL EXISTING CONCRETE PATHWAYS WITHIN THE LIMIT OF WORK TO BE REMOVED.
6. CONTRACTOR SHALL VERIFY WITH L.A. AND MOVEBR CONSTRUCTION MANAGER ALL EXISTING TREES WITHIN THE LIMIT OF WORK TO BE REMOVED.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY SUBSURFACE OBSTRUCTIONS THAT MAY INTERFERE WITH PROPOSED IMPROVEMENTS, AND ANY UNFORESEEN ITEMS ENCOUNTERED DURING EXCAVATION SHALL BE REPORTED TO THE L.A. AND OWNER PRIOR TO ANY ACTION.

DEMOLITION NOTES:

1. CONTRACTOR RESPONSIBLE FOR THE PROTECTION OF ANY STRUCTURES OR PAVING TO REMAIN. ANY DAMAGE TO STRUCTURES OR PAVING TO REMAIN SHALL BE REPAIRED BY CONTRACTOR AT NO EXPENSE TO OWNER. ANY REPAIRS SHALL MATCH OR EXCEED THE ORIGINAL CONDITIONS OF THE DAMAGED AREA(S) AND SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR THE OWNER'S REPRESENTATIVE.
2. CONTRACTOR SHALL PROVIDE MATS OR OTHER PROTECTION FOR WORK AROUND EXISTING CONCRETE PAVING OR ASPHALT TO REMAIN.
3. NO MECHANICAL EQUIPMENT TRENCHING WITH THE ROOT ZONE OF EXISTING TREES TO REMAIN WILL BE ALLOWED. HAND DIGGING SHALL BE PERMITTED IN THESE AREAS. AVOID IMPACTS TO TREE ROOTS.
4. CONTRACTOR SHALL VERIFY WITH L.A. AND OWNER ALL EXISTING CONCRETE PATHWAYS WITHIN THE LIMIT OF WORK TO BE REMOVED.
3. CONTRACTOR SHALL VERIFY WITH L.A. AND OWNER ALL EXISTING TREES WITHIN THE LIMIT OF WORK TO BE REMOVED.
4. ANY TREES WITHIN THE PROJECT AREA NOTED TO REMAIN SHALL RECEIVE TREE PROTECTION FENCING THROUGHOUT CONSTRUCTION. SEE SPECIFICATIONS AND TREE PROTECTION DETAIL ON SHEET L1.00 FOR INFORMATION.
5. DO NOT PARK ANY VEHICLES, OR CONSTRUCTION EQUIPMENT, STORE MATERIALS, POUR OUT ANY CHEMICALS OR PAINT WASTE, OR CLEAN PAINT BRUSHES BENEATH ANY EXISTING TREE CANOPIES.
6. CONTRACTOR SHALL COORDINATE MATERIAL STAGING, ROAD CLOSURES, AND ANY OTHER DISRUPTIONS W/ EBR CITY-PARISH, MOVEBR CONSTRUCTION MANAGER, AND LANDSCAPE ARCHITECT.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY SUBSURFACE OBSTRUCTIONS THAT MAY INTERFERE WITH PROPOSED IMPROVEMENTS, AND ANY UNFORESEEN ITEMS ENCOUNTERED DURING EXCAVATION SHALL BE REPORTED TO THE L.A. AND OWNER PRIOR TO ANY ACTION.
8. CONTRACTOR SHALL COORDINATE DISPOSAL OF ALL RECYCLABLE MATERIALS (I.E. CARDBOARD, PAPER, PLASTIC, ETC.) WITH OWNER.
9. REMOVAL OF FENCING AND CATCH BASINS ARE INCLUDED UNDER PAY ITEM "STRUCTURES AND OBSTRUCTIONS"

LAYOUT AND SLEEVING NOTES:

1. CONTRACTOR SHALL REPORT ANY PLAN DISCREPANCIES TO THE MOVEBR CONSTRUCTION MANAGER AND THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING.
2. CONTRACTOR SHALL STAKE OUT ALL PAVING WITH GRADE STAKES FOR MOVEBR CONSTRUCTION MANAGER AND LANDSCAPE ARCHITECT APPROVAL PRIOR TO FORMING.
3. LAYOUT AND GRADING OF PAVED AREAS SHALL BE SUBJECT TO APPROVAL BY THE MOVEBR CONSTRUCTION MANAGER AND THE LANDSCAPE ARCHITECT PRIOR TO ANY POURING.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND INSTALLATION OF SLEEVES AT LOCATIONS SHOWN ON PLANS.
5. ALL SLEEVE LOCATIONS SHALL CONTAIN (2) 4" SCHEDULE 40 PVC PIPES SLEEVES (UNLESS OTHERWISE NOTED) AND SHALL BE LOCATED DIRECTLY UNDER PAVEMENT.
6. ALL SLEEVES FOR ELECTRICAL LINES SHALL COMPLY WITH LOCAL ELECTRICAL CODE IN REGARDS TO DEPTH AND SPACING FROM OTHER UTILITIES. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS.
7. ENDS OF SLEEVES SHALL BE CAPPED WITH PVC CAPS AND MARKED WITH A FLAG. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLAG LOCATION.
8. COORDINATE AND VERIFY ALL SLEEVE LOCATIONS WITH ELECTRICAL AND LAYOUT PLANS.

GRADING AND DRAINAGE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE OF ALL LANDSCAPED AND PAVED AREAS WITHIN THE WORK AREA. ANY "BIRD BATHS" TO BE REPAIRED AT NO EXPENSE TO OWNER OR L.A.
2. LANDSCAPE ARCHITECT WILL NOT BE RESPONSIBLE FOR DRAINAGE OF SITE COMPONENTS THAT ARE NOT WITHIN THE DESIGN SCOPE OF WORK (I.E. EXISTING PAVED AREAS: ROADWAY).
3. CONTRACTOR SHALL DIRECT WATER AS INDICATED BY CONTOURS, SPOT ELEVATIONS, AND SLOPE ARROWS.
4. ANY DAMAGE TO PROPOSED DRAINAGE SYSTEM DURING CONSTRUCTION SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE CITY-PARISH OR LANDSCAPE ARCHITECT.
5. CONTRACTOR SHALL REPORT ANY PLAN DISCREPANCIES TO MOVEBR CONSTRUCTION MANAGER OR LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING.
6. ALL PAVING SHALL HAVE A MINIMUM SLOPE OF 1% AND ALL UNPAVED AREAS SHALL HAVE A MINIMUM SLOPE OF 2% UNLESS OTHERWISE NOTED ON THE PLANS. NO PAVED PATHWAYS ARE TO EXCEED A 2% CROSS SLOPE.
7. ALL PIPE AND FITTINGS SHALL BE AS NOTED IN THE SPECIFICATIONS.
8. GRADES AND SLOPES OF SIDEWALK FORMING TO BE APPROVED IN FIELD BY MOVEBR CONSTRUCTION MANAGER AND LANDSCAPE ARCHITECT PRIOR TO ALL CONCRETE POURS.

### HARDSCAPE NOTES:

1. CONTRACTOR SHALL STAKE ALL PROPOSED IMPROVEMENTS, INCLUDING CENTERLINES OF SIDEWALKS W/ GRADE STAKES, FOR LANDSCAPE ARCHITECT'S & OWNER'S APPROVAL PRIOR TO FORMING.
2. CONTRACTOR SHALL PROVIDE SAMPLE OF ALL BRICK, WOOD, GRANITE, CAST STONE, PAVERS, AGGREGATE PAVING, AND CONCRETE FINISHES FOR APPROVAL BY LANDSCAPE ARCHITECT, CIVIL, & OWNER PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL PROVIDE MOCK-UPS OF EACH TYPE OF MASONRY, AND PAVING TO DEPICT COLOR, TEXTURE, AND PATTERN PRIOR TO INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF ALL CONCRETE WORK. 3800 PSI MINIMUM STRENGTH CONCRETE UNLESS OTHERWISE NOTED.
5. COMPACT ALL SOIL SUBGRADES TO 95% STANDARD PROCTOR DENSITY UNLESS OTHERWISE NOTED.
6. REFER TO DETAILS AND SPECIFICATIONS ON LANDSCAPE ARCHITECT'S PLANS FOR GREATER DETAIL.

GENERAL LANDSCAPE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE DRAINAGE OF ALL NEWLY BUILT BED AND LAWN AREAS AND SHALL TURTLE-BACK OR SLOPE BED AREAS AS DIRECTED OR NOTED ON PLANS AND / OR DETAILS. CONTRACTOR SHALL ALSO PROVIDE DRAINAGE SWALES THROUGH NEW BED AREAS AS NEEDED TO PROMOTE POSITIVE DRAINAGE OF ADJACENT AREAS. COORDINATE WITH LANDSCAPE ARCHITECT.
2. CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH GENERAL CONTRACTOR AND IRRIGATION CONTRACTOR.
3. ALL TREE LOCATIONS AND BED LINES SHALL BE FLAGGED BY LANDSCAPE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT, PRIOR TO PROCEEDING. UPON COMPLETION OF BEDS, ALL SHRUBS SHALL BE PLACED IN CONTAINERS FOR APPROVAL BY LANDSCAPE ARCHITECT.
4. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF EXISTING LANDSCAPE MATERIAL WITHIN PROPOSED PLANTING AREAS PER LANDSCAPE PLANS. CARE SHALL BE TAKEN SO AS NOT TO DISTURB ROOT STRUCTURE OF ANY EXISTING TREES WITH TRENCHING OR FILL.
5. LANDSCAPE CONTRACTOR SHALL REPORT ANY PLAN DISCREPANCIES TO LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING. WRITTEN DIMENSIONS AND QUANTITIES TAKE PRECEDENCE OVER SCALED DIMENSIONS AND DRAWN QUANTITIES.
6. EXISTING SOIL CONDITIONS MAY REQUIRE EXCAVATION TO A MINIMUM DEPTH OF 6". EXACT DEPTH TO BE DETERMINED ON SITE W/ LANDSCAPE ARCHITECT. NEW SOIL MIX SHALL BE ADDED TO REPLACE DISPLACED SOIL AND BUILD UP AN ADDITIONAL 6"-9" TO ACCOUNT FOR EXCAVATION AND AID DRAINAGE.
7. SOIL PREPARATION DEPTHS FOR BED AND LAWN AREAS SHALL BE MODIFIED UNDER EXISTING TREE CANOPIES. COORDINATE WORK W/ LANDSCAPE ARCHITECT.
8. CONTRACTOR TO NOTIFY OWNER TO HAVE PEST CONTROL COMPANY RE-CHECK ALL AREAS WHERE SOIL HAS BEEN DISTURBED ADJACENT TO BUILDING SLAB.
9. ALL TREES ON THE PROJECT SHALL BE SPECIMEN QUALITY AND MATCHING. IF ANY TREE OR TREES DELIVERED TO THE SITE ARE NOT OF SUPERIOR QUALITY OR ARE DAMAGED IN THE OPINION OF THE LANDSCAPE ARCHITECT, THE TREE OR TREES WILL BE REJECTED.
10. ALL WORK SHALL BE SEQUENCED AND PERFORMED TO MINIMIZE THE DISRUPTION OF PEDESTRIAN OR VEHICULAR CIRCULATION THROUGH THE SITE.
11. THE STANDARDS SET FORTH IN THE 'AMERICAN STANDARD FOR NURSERY STOCK' (ANSI Z60.1), LATEST EDITION, REPRESENT GENERAL GUIDELINE SPECIFICATIONS ONLY AND WILL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL. ALL PLANTS MUST MEET MINIMUM SIZE NOTED ON THE PLANT SCHEDULE. TREES SHALL BE NO. 1 GRADE SPECIMEN AND SHRUBS SHALL BE HEAVY WELL SHAPED SPECIMENS.

PLANTING NOTES:

- TOPSOIL. TOPSOIL SHALL BE FERTILE, FRIABLE SOIL OBTAINED FROM WELL DRAINED ARABLE LAND. IT SHALL BE FREE DRAINING, NON-TOXIC AND CAPABLE OF SUSTAINING HEALTHY PLANT GROWTH. TOPSOIL SHALL BE REASONABLY FREE OF CALCIUM CARBONATE, SUBSOIL, REFUSE, ROOTS, AND OTHER DELETERIOUS SUBSTANCES. THE CONTRACTOR SHALL FURNISH A WRITTEN SOIL ANALYSIS PREPARED BY AN ACCREDITED SOIL ANALYST. THE ANALYSIS SHALL INDICATE PH, TOTAL SOLUBLE SALTS, AND PLASTICITY INDEX AND PARTICLE SIZE GRADATION.
2. SAND. SAND SHALL BE LOOSE, GRANULAR SOIL CONTAINING PARTICLES SMALLER THAN GRAVEL BUT COARSER THAN SILT. SANDY SOIL SHALL OBTAIN A MINIMUM OF 90% SAND AND NO GREATER THAN 5% CLAY.
3. PEAT MOSS. PEAT MOSS SHALL BE IMPORTED CANADIAN SPHAGNUM PEAT MOSS, BROWN, LOW IN CONTENT OF WOODY MATERIAL AND FREE OF ANY MINERAL MATTER HARMFUL TO PLANT LIFE. PEAT MOSS SHALL HAVE AN ACID RATING OF APPROXIMATELY 4.5 PH AND HAVE A WATER ABSORBING CAPACITY OF 1100 TO 1200 % BY WEIGHT. PEAT MOSS SHALL BE THOROUGHLY PULVERIZED BEFORE USE EXCEPT WHEN USED AS A TOP-DRESSING. NO NATIVE OR SEDGE PEATS SHALL BE APPROVED.
4. ORGANIC SOIL CONDITIONER. ORGANIC SOIL CONDITIONER SHALL BE PARTIALLY DECOMPOSED GROUND PINE BARK. SAWDUST WILL NOT BE ACCEPTED, PARTICLE SIZE AND SURFACE AREA SHALL BE SUCH AS TO RESIST DISPLACEMENT BY WIND OR BY SURFACE STORM WATER OR IRRIGATION RUNOFF FOR TWO GROWING SEASONS.
5. COMMERCIAL FERTILIZER. FERTILIZER SHALL BE A COMPLETE, SLOW RELEASE, 12-6-6 FERTILIZER OR APPROVED ALTERNATE DELIVERED IN ORIGINAL UNOPENED CONTAINERS BEARING THE MANUFACTURER'S GUARANTEED ANALYSIS. TO BE APPLIED AT MANUFACTURERS RECOMMENDED RATE.
6. HERBICIDE. SNAPSHOT PRE-EMERGENT HERBICIDE MANUFACTURED BY DOW AGRA OR APPROVED EQUAL - APPLIED AT MANUFACTURER'S RECOMMENDATIONS.
7. TOPDRESSING. TOPDRESSING SHALL BE PINESTRAW (UNLESS OTHERWISE SPECIFIED ON PLANS) OF SUFFICIENT CHARACTER TO RESIST DISPLACEMENT BY WIND OR STORM WATER OR BY IRRIGATION RUNOFF. PINESTRAW SHALL BE APPLIED AT A MIN. DEPTH OF 3" AND SPREAD EVENLY OVER THE ENTIRE BED AREA TO RETAIN MOISTURE AND PROTECT ROOT SYSTEMS. PINESTRAW TO BE FRESHLY HARVESTED, UNIFORM IN COLOR, AND FREE OF DELETERIOUS MATERIALS. CONTRACTOR IS REQUIRED TO SUBMIT A SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PLACING.
9. COMPOSTED COW MANURE. COMPOSTED COW MANURE SHALL BE A MINIMUM OF 50% COW MANURE BY WEIGHT. CONTRACTOR TO PROVIDE SAMPLE AND ANALYSIS FOR APPROVAL BY LANDSCAPE ARCHITECT.
9. STANDARD PLANTING MIX (FULL BED PREPARATION). THE PLANTING MIX FOR ALL NORMAL BED AREAS AND PITS SHALL CONSIST OF:
  - 1 CY ORGANIC SOIL CONDITIONER PER 50 SF OF BED AREA
  - 1 CY COMPOSTED COW MANURE PER 150 SF OF BED AREA
  - 3.8 CF BALE OF PEAT MOSS OR COFFEE CHAFF PER 50 SF OF BED AREA
  - SAND TOPSOIL MAY BE ADDED TO BE PLANTING MIX IF THE EXISTING SOIL IS OF POOR QUALITY. THE LANDSCAPE ARCHITECT WILL MAKE THIS DETERMINATION PRIOR TO THE BEGINNING OF WORK.
  - COMMERCIAL FERTILIZER AND PRE-EMERGENT HERBICIDE PER MANUFACTURER'S RECOMMENDATIONS.
  - SUBSTITUTIONS MAY BE MADE ON THE ADVICE OF THE LANDSCAPE ARCHITECT.
10. RAIN GARDEN BED PREPARATION
  - BED PREP IN ALL RAIN GARDEN BED AREAS SHALL BE INSTALLED TO A DEPTH OF 12" UNLESS OTHERWISE NOTED.
  - PLANTING MIX FOR ALL RAIN GARDEN BED AREAS SHALL CONSIST OF THE FOLLOWING (% BY VOLUME):
    - 35% TOPSOIL
    - 40% SAND
    - 5% COFFEE CHAFF OR RICE HULLS
    - 5% COW MANURE
    - 15% SOIL CONDITIONER
    - COMMERCIAL FERTILIZER AND PRE-EMERGENT HERBICIDE PER MANUFACTURER'S RECOMMENDATIONS
  - A PRE-MIXED BIOSWALE OR RAIN GARDEN SOIL MIX OF SIMILAR COMPOSITION MAY BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL AS A SUBSTITUTE FOR THE ABOVE CUSTOM MIX.

SURVEY DATA:

PT STA = 43+50.89  
X = 3335298.932  
Y = 701654.172

PI STA = 54+53.30  
X = 333553.741  
Y = 700581.620

PI STA = 58+37.70  
X = 3335782.167  
Y = 700272.446

TBM "H"  
ARROW ON FIRE HYDRANT  
EL. = 57.78'

TBM "I"  
R.R. SPIKE IN POWER POLE (REMOVED)  
EL. = 41.23'

TBM "J"  
R.R. SPIKE IN POWER POLE  
EL. = 37.71'

[illegible]



| CP ITEM NO. | DESCRIPTION                                                       | QUANTITY | UNIT  |
|-------------|-------------------------------------------------------------------|----------|-------|
|             |                                                                   |          |       |
|             | ADJUSTING UTILITY BOXES                                           |          |       |
| 1112103     | ADJUSTING UTILITY BOXES                                           | 6        | EA    |
|             | PAVEMENT STRIPING AND MARKINGS                                    |          |       |
| 1195104     | FOUR (4) INCH WIDE THERMOPLASTIC REFLECTIVE STRIPING (90 MIL)     | 159      | LF    |
| 1195161     | YIELD LINE (125 MIL)                                              | 2        | EA    |
| 1195250     | SINGLE HEAD ARROW (60 MIL)                                        | 2        | EA    |
| 1195312     | TWELVE (12) INCH WIDE THERMOPLASTIC REFLECTIVE STRIPING (125 MIL) | 128      | LF    |
| 1195504     | FOUR (4) INCH WIDE PAINTED REFLECTIVE STRIPING                    | 608      | LF    |
| 1195558     | ACCESSIBILITY PARKING SPACE MARKER (PAINTED)                      | 4        | EA    |
| 1195559     | SHARED LANE MARKER (PAINTED)                                      | 4        | EA    |
|             | CLEARING AND GRUBBING                                             |          |       |
| 2010100     | CLEARING AND GRUBBING                                             | 1        | LS    |
| 2010300     | REMOVAL OF TREES (6" TO 12")                                      | 14       | EA    |
| 2010301     | REMOVAL OF TREES (13" TO 24")                                     | 1        | EA    |
| 2010401     | LIGHT CHANNEL CLEARING                                            | 1        | LS    |
|             | REMOVAL OF EXISTING STRUCTURES                                    |          |       |
| 2020100     | REMOVAL OF STRUCTURES AND OBSTRUCTIONS                            | 1        | LS    |
| 2020400     | REMOVAL OF ASPHALT SURFACING                                      | 89       | SY    |
| 2020600     | REMOVAL OF CONCRETE WALKS AND DRIVES                              | 257      | SY    |
| 2020900     | SAW CUTTING CONCRETE OR ASPHALT                                   | 431      | LF    |
|             | EXCAVATION AND EMBANKMENT                                         |          |       |
| 2030800     | EXCAVATION AND EMBANKMENT                                         | 1        | LS    |
| 2030900     | GEOTEXTILE FABRIC                                                 | 2,745    | SY    |
|             | AGGREGATE BASE COURSE                                             |          |       |
| 3020504     | STONE BASE COURSE (4" THICK)                                      | 34       | SY    |
| 3020506     | STONE BASE COURSE (6" THICK)                                      | 2,077    | SY    |
| 3020509     | STONE BASE COURSE (9" THICK)                                      | 432      | SY    |
|             | AGGREGATE SURFACE COURSE                                          |          |       |
| 4020301     | AGGREGATE SURFACE COURSE (1" THICK)                               | 614      | SY    |
|             | CONCRETE STRUCTURES                                               |          |       |
| 6010100     | CLASS 6A4000 CONCRETE - TRAILHEAD SIGNAGE BASE                    | 18       | CY    |
|             | DRAINAGE WORK                                                     |          |       |
| 7010115     | 15" STORM DRAIN PIPE                                              | 600      | LF    |
| 7010318     | 18" EQUIV. REINFORCED CONCRETE PIPE ARCH                          | 80       | LF    |
| 7010915     | 15" PLASTIC PIPE                                                  | 45       | LF    |
| 7020104     | SINGLE CURB INLET - PIPE UNDER CURB                               | 2        | EA    |
| 7020311     | GRATE INLET                                                       | 7        | EA    |
| 7020600     | YARD DRAIN INLET                                                  | 1        | EA    |
| 7021000     | ADJUSTING DRAIN MANHOLE AND INLETS AND JUNCTION BOXES             | 1        | EA    |
| 7030106     | 6" PERFORATED PIPE UNDERDRAIN                                     | 440      | LF    |
| 7050112     | 12" THICK RIPRAP                                                  | 29       | SY    |
|             | FENCING                                                           |          |       |
| 9020104     | CHAIN LINK FENCE (4-FT. HEIGHT)                                   | 723      | LF    |
| 9020203     | 3-FT. CHAIN LINK FENCE GATE (4 FT. HEIGHT)                        | 2        | EA    |
|             | EROSION CONTROL                                                   |          |       |
| 9031000     | WATER                                                             | 6        | M-GAL |
| 9031600     | STORM WATER POLLUTION PREVENTION PLAN                             | 1        | LS    |
|             | LANDSCAPING                                                       |          |       |
| 9040501     | ARBORICULTURAL WORK                                               | 1        | LS    |
|             | TRAFFIC SIGNS, STRIPING, AND RAISED MARKERS                       |          |       |
| 9050100     | TEMPORARY SIGNS AND BARRICADES                                    | 1        | LS    |
|             | CONCRETE CURB, WALKS, DRIVES, AND INCIDENTAL PAVING               |          |       |
| 9070106     | INTEGRAL CONCRETE CURB (6" BARRIER)                               | 738      | LF    |
| 9070304     | 4" CONCRETE WALKS                                                 | 799      | SY    |
| 9070306     | 6" CONCRETE WALKS                                                 | 453      | SY    |
| 9070406     | 6" CONCRETE DRIVES                                                | 1,625    | SY    |
|             | MOBILIZATION                                                      |          |       |
| 9090100     | MOBILIZATION                                                      | 1        | LS    |

| SPECIALTY PAY ITEMS |                                                                |       |    |
|---------------------|----------------------------------------------------------------|-------|----|
| 9900001             | TEMPORARY STONE CONSTRUCTION ENTRANCE                          | 2     | EA |
| 9900006             | TRUNCATED DOME INSET (SIDEWALK HANDICAP RAMPS)                 | 132   | SF |
| 9900009             | CONCRETE COLLAR                                                | 1     | EA |
| 9900029             | NS COLORED SURFACE TREATMENT (BIKE LANES)                      | 100   | SY |
| 9900045             | STREET LIGHTING SYSTEMS                                        | 1     | LS |
| 9900082             | ROOT PRUNING AND TRENCHING                                     | 1     | LS |
| 9900086             | REINFORCED CONCRETE RETAINING WALL                             | 152   | LF |
| 9900090             | RECYCLED CONCRETE PAVERS FROM ON-SITE DEMOLITION               | 307   | SF |
| 9900094             | CONCRETE WHEEL STOP                                            | 41    | EA |
| 9900100             | CUSTOM TRAILHEAD SIGNAGE PANEL (FURNISH AND INSTALL)           | 6     | EA |
| 9900101             | CUSTOM TRAIL MARKER SIGNAGE PANEL (FURNISH AND INSTALL)        | 16    | EA |
| 9900102             | CUSTOM ACCESSIBLE PARKING SIGN (FURNISH AND INSTALL)           | 4     | EA |
| 9900104             | CUSTOM BARRIER CURB                                            | 336   | LF |
| 9900110             | PVC SLEEVING - 4" SCH. 40                                      | 314   | LF |
| 9900111             | STRUCTURAL FILL                                                | 541   | CY |
| 9900112             | TREE PROTECTION FENCING - PLASTIC CONSTRUCTION FENCING, 4' HT. | 149   | LF |
| 9900201             | TEMPORARY SILT FENCING                                         | 1,468 | LF |
| 9900203             | EROSION CONTROL MAT                                            | 967   | SY |
| 9900204             | TEMPORARY DROP INLET (HAY BALES)                               | 6     | EA |
| 9900301             | TREES - 45 GAL.                                                | 14    | EA |
| 9900302             | TREES - 2" CAL., 8'-10' HEIGHT                                 | 4     | EA |
| 9900303             | SHRUBS - 5 GAL.                                                | 159   | EA |
| 9900304             | SHRUBS - 3 GAL.                                                | 95    | EA |
| 9900305             | SHRUBS - 1 GAL.                                                | 680   | EA |
| 9900306             | GROUNDCOVER - 4" CUP                                           | 5,954 | EA |
| 9900307             | SOD - BERMUDA                                                  | 283   | SY |
| 9900308             | SEED MIX - PART SUN MEADOW MIX                                 | 4     | LB |
| 9900309             | DRAINAGE GRAVEL - 4"-6" RIVER SLICKS                           | 43    | CY |
| 9900310             | DRAINAGE GRAVEL - #57 LIMESTONE                                | 76    | CY |
| 9900311             | METAL EDGING (1/4" X 4" W/ 18" STAKES)                         | 1,250 | LF |
| 9900312             | BED PREP - 10" DEPTH (W/ MULCH)                                | 3,134 | SF |
| 9900313             | BED PREP - 4" DEPTH (W/ MULCH)                                 | 8,476 | SF |
| 9900314             | MEADOW SOIL PREP                                               | 8,411 | SF |
| 9900315             | BIORETENTION SOIL (W/ MULCH)                                   | 2,800 | SF |
| 9900316             | DECOMPOSED SHREDDED HARDWOOD MULCH                             | 353   | SF |
| 9900401             | LITTER RECEPTACLE                                              | 2     | EA |
| 9900402             | BIKE RACK                                                      | 6     | EA |

SHEET NUMBER

G1.02

EAST BATON ROUGE PARISH

23-EN-HC-0037

10/10/2025

10/10/2025

AN

REVISION #1

4/21/2025

1

100% FINAL PLANS — ISSUED FOR CONSTRUCTION

SUMMARY OF QUANTITIES

PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS

BR

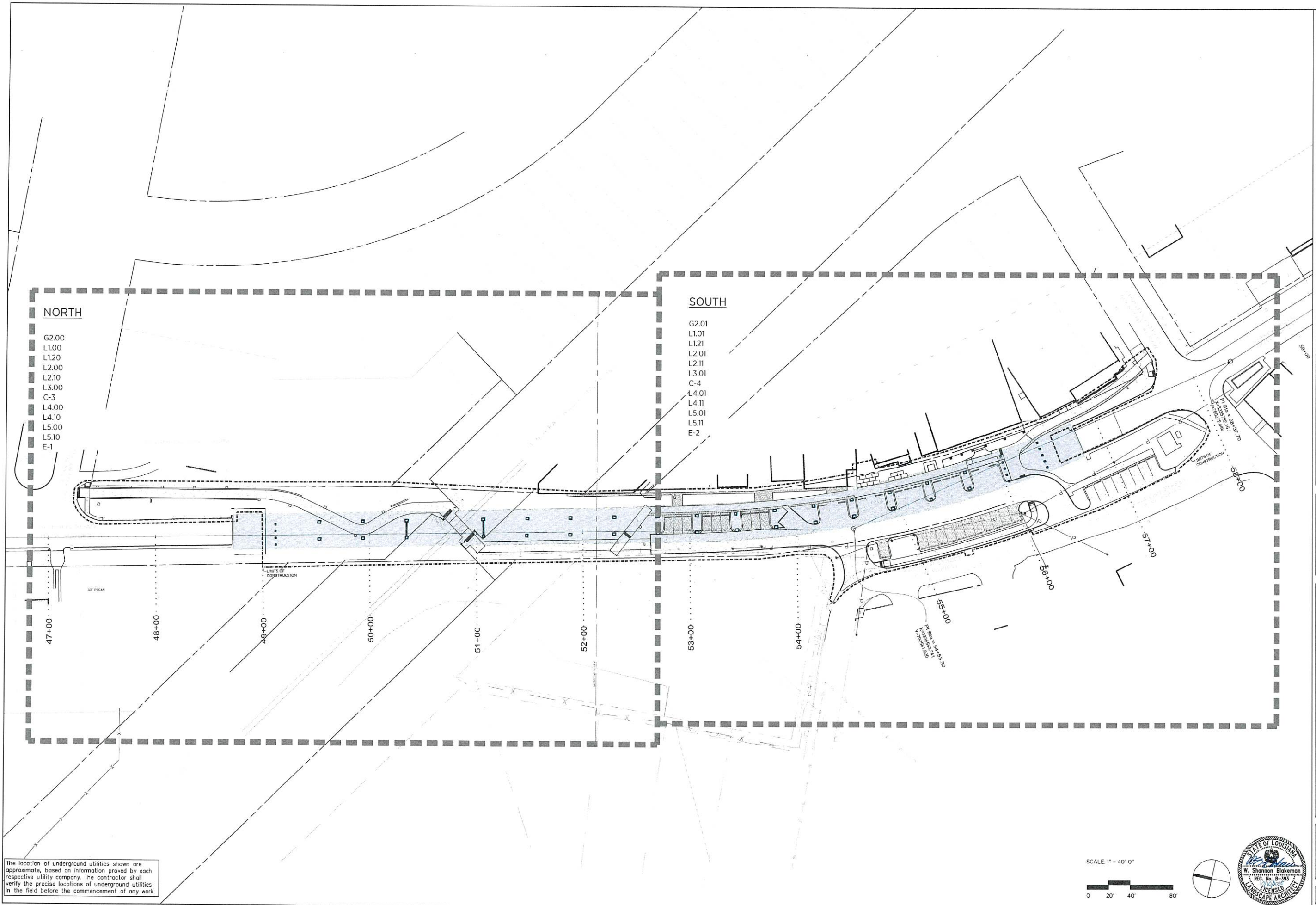
CITY OF BATON ROUGE

W. Shannon Blakeman

REG. No. B-393

LANDSCAPE ARCHITECT

CARBON

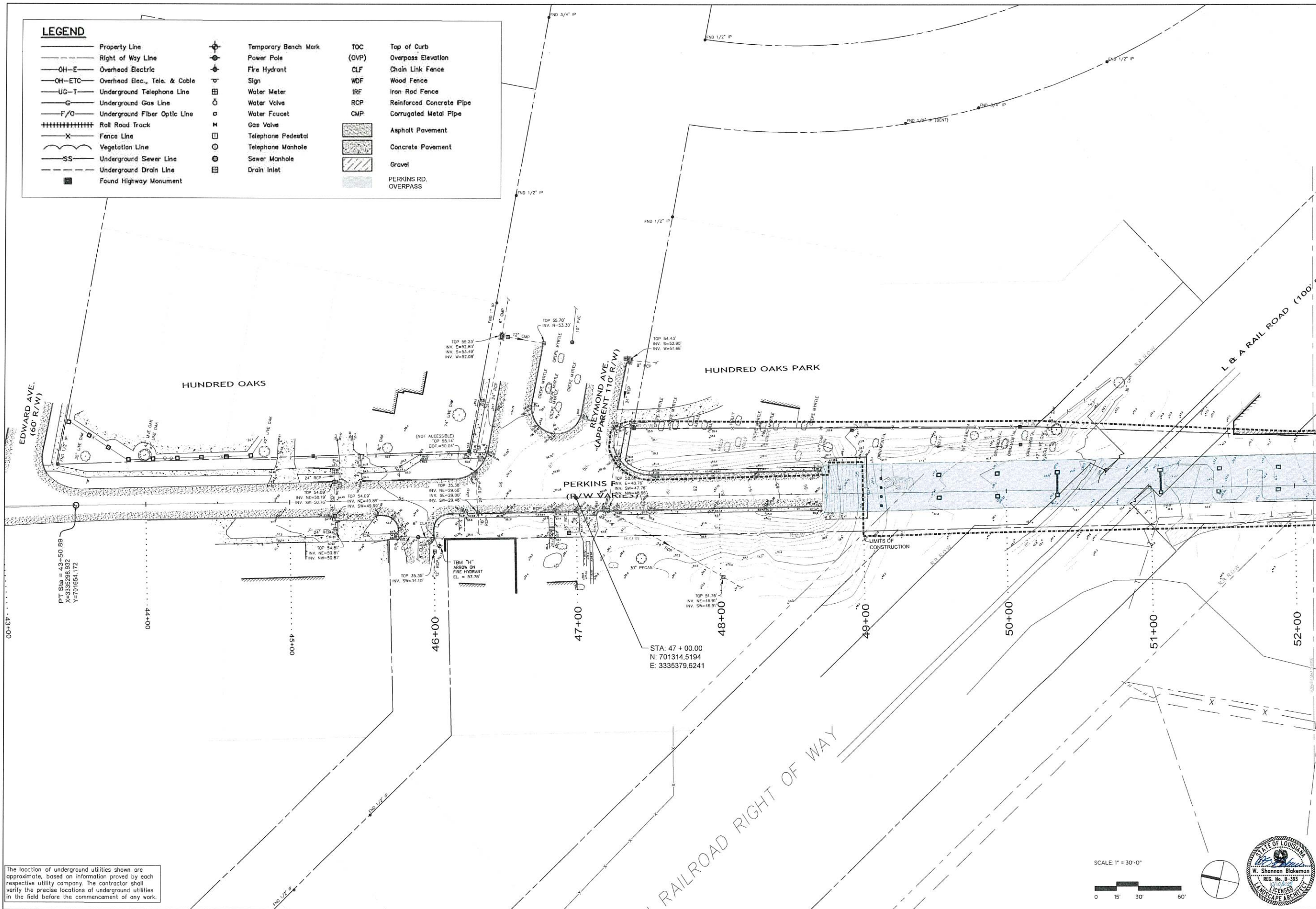


|                                                                                       |         |                         |            |
|---------------------------------------------------------------------------------------|---------|-------------------------|------------|
| SHEET NUMBER                                                                          |         | G1.03                   |            |
| PARISH                                                                                |         | EAST BATON ROUGE PARISH |            |
| CITY PROJECT                                                                          |         | 23-EN-HC-0037           |            |
| STATE PROJECT                                                                         |         |                         |            |
| DESIGNED                                                                              | CHECKED | DATE                    | 10/10/2025 |
| DRAWN                                                                                 | CHECKED | DATE                    |            |
| NO.                                                                                   | DATE    | BY                      |            |
| REVISION DESCRIPTION                                                                  |         |                         |            |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION                                            |         |                         |            |
| KEY SHEET PLAN                                                                        |         |                         |            |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS                                           |         |                         |            |
|  |         |                         |            |
|  |         |                         |            |
| CIARBO                                                                                |         |                         |            |



# LEGEND

|                                      |                      |                      |                          |
|--------------------------------------|----------------------|----------------------|--------------------------|
| Property Line                        | Temporary Bench Mark | TOC                  | Top of Curb              |
| Right of Way Line                    | Power Pole           | (OVP)                | Overpass Elevation       |
| OH-E Overhead Electric               | Fire Hydrant         | CLF                  | Chain Link Fence         |
| OH-ETC Overhead Elec., Tele. & Cable | Sign                 | WDF                  | Wood Fence               |
| UG-T Underground Telephone Line      | Water Meter          | IRF                  | Iron Rod Fence           |
| UG Underground Gas Line              | Water Valve          | RCP                  | Reinforced Concrete Pipe |
| F/O Underground Fiber Optic Line     | Water Faucet         | CMP                  | Corrugated Metal Pipe    |
| Roll Road Track                      | Gas Valve            | Asphalt Pavement     |                          |
| Fence Line                           | Telephone Pedestal   | Concrete Pavement    |                          |
| Vegetation Line                      | Telephone Manhole    | Gravel               |                          |
| SS Underground Sewer Line            | Sewer Manhole        | PERKINS RD. OVERPASS |                          |
| Underground Drain Line               | Drain Inlet          |                      |                          |
| Found Highway Monument               |                      |                      |                          |



|               |         |                         |            |
|---------------|---------|-------------------------|------------|
| SHEET NUMBER  |         | G2.00                   |            |
| PARISH        |         | EAST BATON ROUGE PARISH |            |
| CITY PROJECT  |         | 23-EN-HC-0037           |            |
| STATE PROJECT |         |                         |            |
| DESIGNED      | CHECKED | DATE                    | 10/10/2025 |
| DETAILED      | CHECKED | DATE                    |            |
| BY            |         | REVISION DESCRIPTION    |            |
| NO.           | DATE    |                         |            |

100% FINAL PLANS - ISSUED FOR CONSTRUCTION

SURVEY/EXISTING CONDITIONS - NORTH

PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS





BR

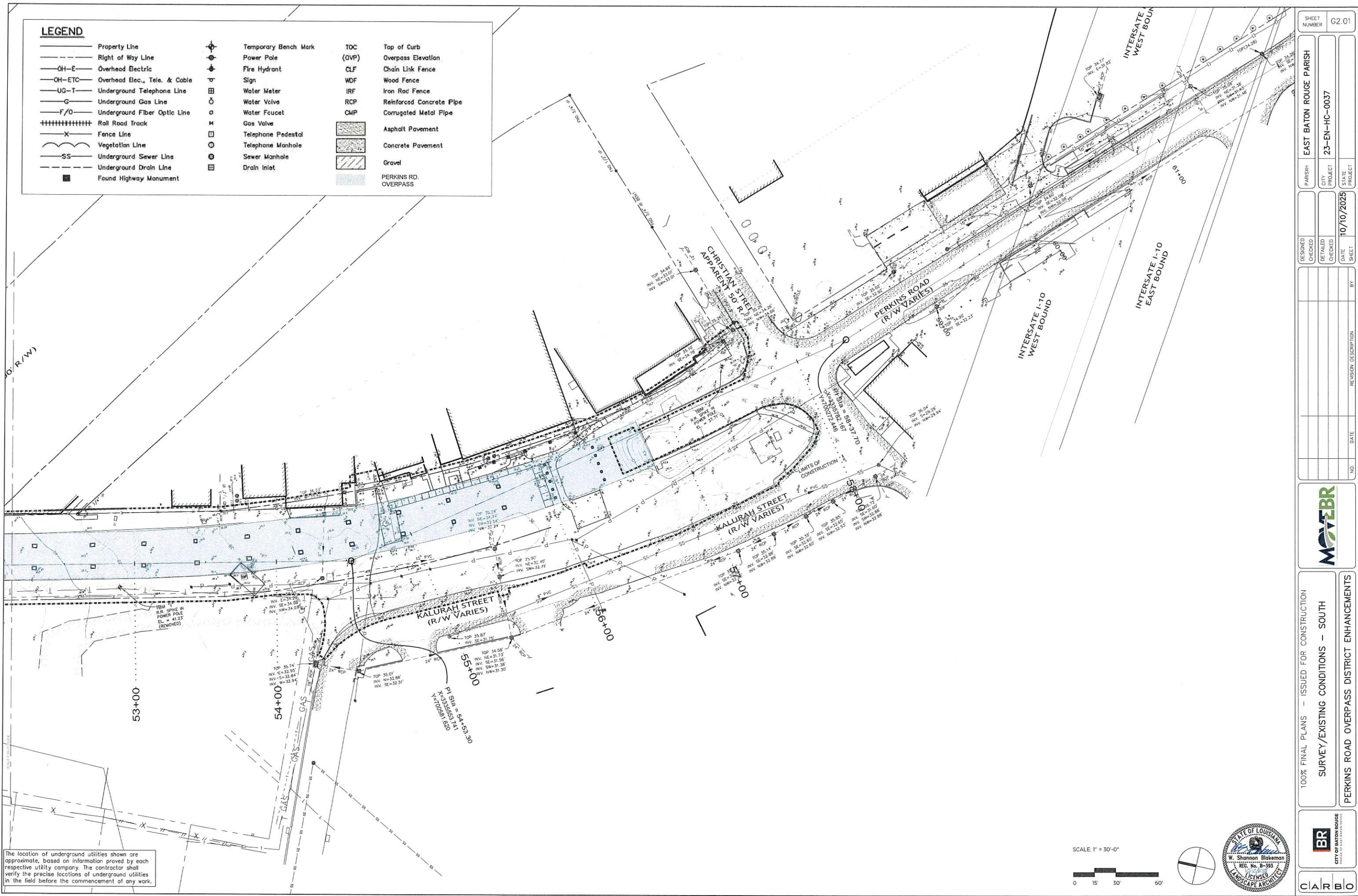
CITY OF BATON ROUGE

W. Shannon Blakeman

REGISTERED PROFESSIONAL ENGINEER

CIARBO





LEGEND

- |                                      |                      |       |                          |
|--------------------------------------|----------------------|-------|--------------------------|
| Property Line                        | Temporary Bench Mark | TOC   | Top of Curb              |
| Right of Way Line                    | Power Pole           | (OVP) | Overpass Elevation       |
| OH-E Overhead Electric               | Fire Hydrant         | CLF   | Chain Link Fence         |
| OH-ETC Overhead Elec., Tele. & Cable | Sign                 | WDF   | Wood Fence               |
| UG-T Underground Telephone Line      | Water Meter          | IRF   | Iron Rod Fence           |
| G Underground Gas Line               | Water Valve          | RCP   | Reinforced Concrete Pipe |
| F/O Underground Fiber Optic Line     | Water Faucet         | CMP   | Corrugated Metal Pipe    |
| Roll Road Track                      | Gas Valve            |       | Asphalt Pavement         |
| X Fence Line                         | Telephone Pedestal   |       | Concrete Pavement        |
| Vegetation Line                      | Telephone Manhole    |       | Gravel                   |
| SS Underground Sewer Line            | Sewer Manhole        |       | PERKINS RD. OVERPASS     |
| Underground Drain Line               | Drain Inlet          |       |                          |
| Found Highway Monument               |                      |       |                          |

The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.

SCALE 1" = 30'-0"

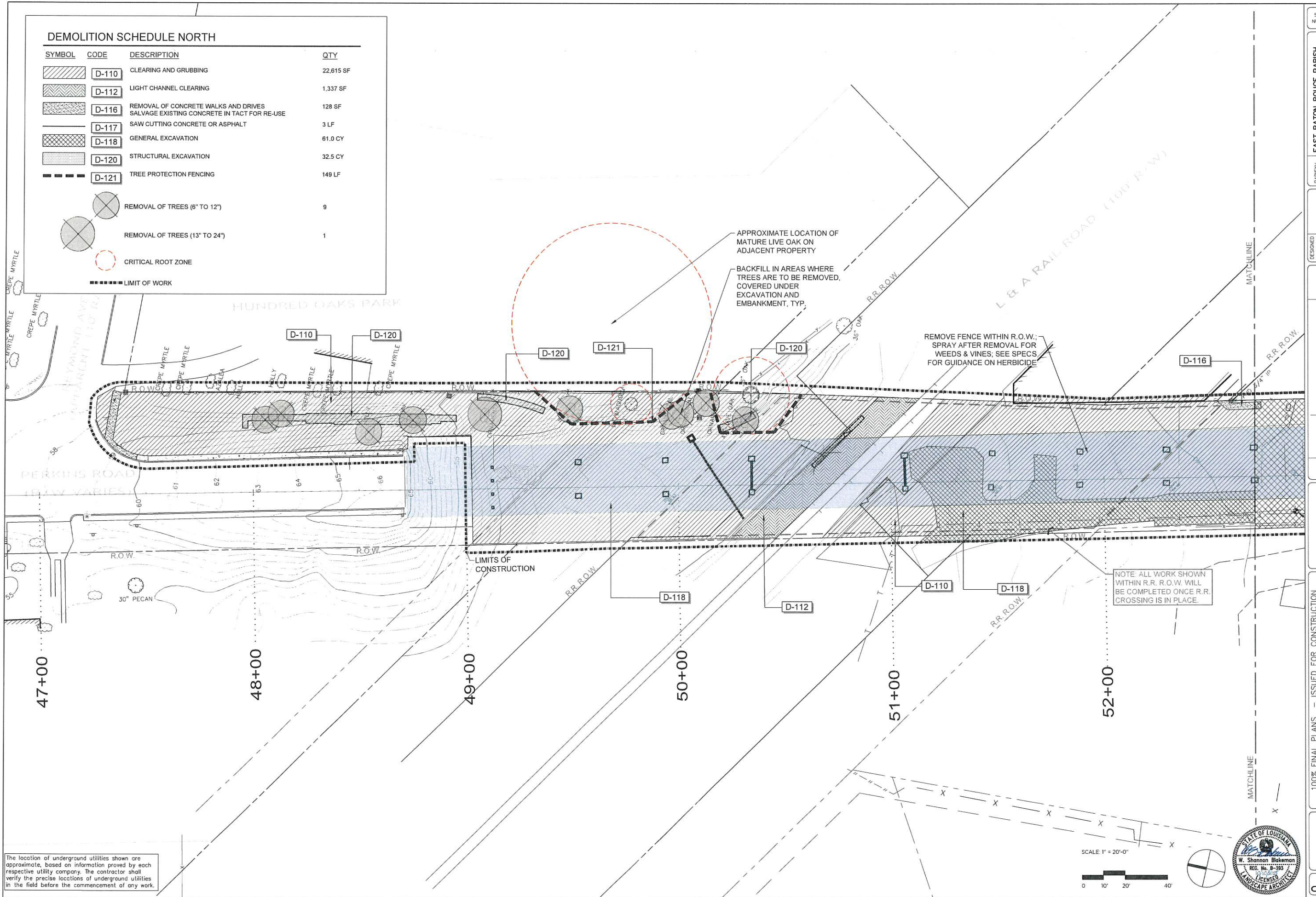


|                                             |         |                         |            |
|---------------------------------------------|---------|-------------------------|------------|
| SHEET NUMBER                                |         | G2.01                   |            |
| PARISH                                      |         | EAST BATON ROUGE PARISH |            |
| CITY PROJECT                                |         | 23-EN-HC-0037           |            |
| DESIGNED                                    | CHECKED | DATE                    | 10/10/2025 |
| DETAILED                                    | CHECKED | DATE                    | 10/10/2025 |
| NO.                                         |         | DATE                    | BY         |
| REVISION DESCRIPTION                        |         |                         |            |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |         |                         |            |
| SURVEY/EXISTING CONDITIONS - SOUTH          |         |                         |            |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |         |                         |            |
| BR                                          |         | CITY OF BATON ROUGE     |            |
| CLAIRBO                                     |         |                         |            |



# DEMOLITION SCHEDULE NORTH

| SYMBOL | CODE  | DESCRIPTION                                                                          | QTY       |
|--------|-------|--------------------------------------------------------------------------------------|-----------|
|        | D-110 | CLEARING AND GRUBBING                                                                | 22,615 SF |
|        | D-112 | LIGHT CHANNEL CLEARING                                                               | 1,337 SF  |
|        | D-116 | REMOVAL OF CONCRETE WALKS AND DRIVES<br>SALVAGE EXISTING CONCRETE IN TACT FOR RE-USE | 128 SF    |
|        | D-117 | SAW CUTTING CONCRETE OR ASPHALT                                                      | 3 LF      |
|        | D-118 | GENERAL EXCAVATION                                                                   | 61.0 CY   |
|        | D-120 | STRUCTURAL EXCAVATION                                                                | 32.5 CY   |
|        | D-121 | TREE PROTECTION FENCING                                                              | 149 LF    |
|        |       | REMOVAL OF TREES (6" TO 12")                                                         | 9         |
|        |       | REMOVAL OF TREES (13" TO 24")                                                        | 1         |
|        |       | CRITICAL ROOT ZONE                                                                   |           |
|        |       | LIMIT OF WORK                                                                        |           |



The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.

SCALE 1" = 20'-0"



|                                              |                     |
|----------------------------------------------|---------------------|
| SHEET NUMBER L1.00                           |                     |
| EAST BATON ROUGE PARISH                      |                     |
| CITY PROJECT                                 | 23-EN-HC-0037       |
| STATE PROJECT                                |                     |
| DESIGNED                                     |                     |
| CHECKED                                      |                     |
| DATE                                         | 10/10/2025          |
| DATE                                         |                     |
| NO.                                          |                     |
| DATE                                         |                     |
| BY                                           |                     |
| REVISION                                     |                     |
| DESCRIPTION                                  |                     |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION   |                     |
| SITE CLEARING & TREE PROTECTION PLAN - NORTH |                     |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS  |                     |
| BR                                           | CITY OF BATON ROUGE |
| CL                                           | ARCHITECT           |



# DEMOLITION SCHEDULE SOUTH

| SYMBOL | CODE  | DESCRIPTION                                                                          | QTY      |
|--------|-------|--------------------------------------------------------------------------------------|----------|
|        | D-110 | CLEARING AND GRUBBING                                                                | 3,595 SF |
|        | D-115 | REMOVAL OF ASPHALT SURFACING                                                         | 797 SF   |
|        | D-116 | REMOVAL OF CONCRETE WALKS AND DRIVES<br>SALVAGE EXISTING CONCRETE IN TACT FOR RE-USE | 2,189 SF |
|        | D-117 | SAW CUTTING CONCRETE OR ASPHALT                                                      | 429 LF   |
|        | D-118 | GENERAL EXCAVATION                                                                   | 498 CY   |
|        |       | REMOVAL OF TREES (6" TO 12")                                                         | 5        |
|        |       | CRITICAL ROOT ZONE                                                                   |          |
|        |       | LIMIT OF WORK                                                                        |          |

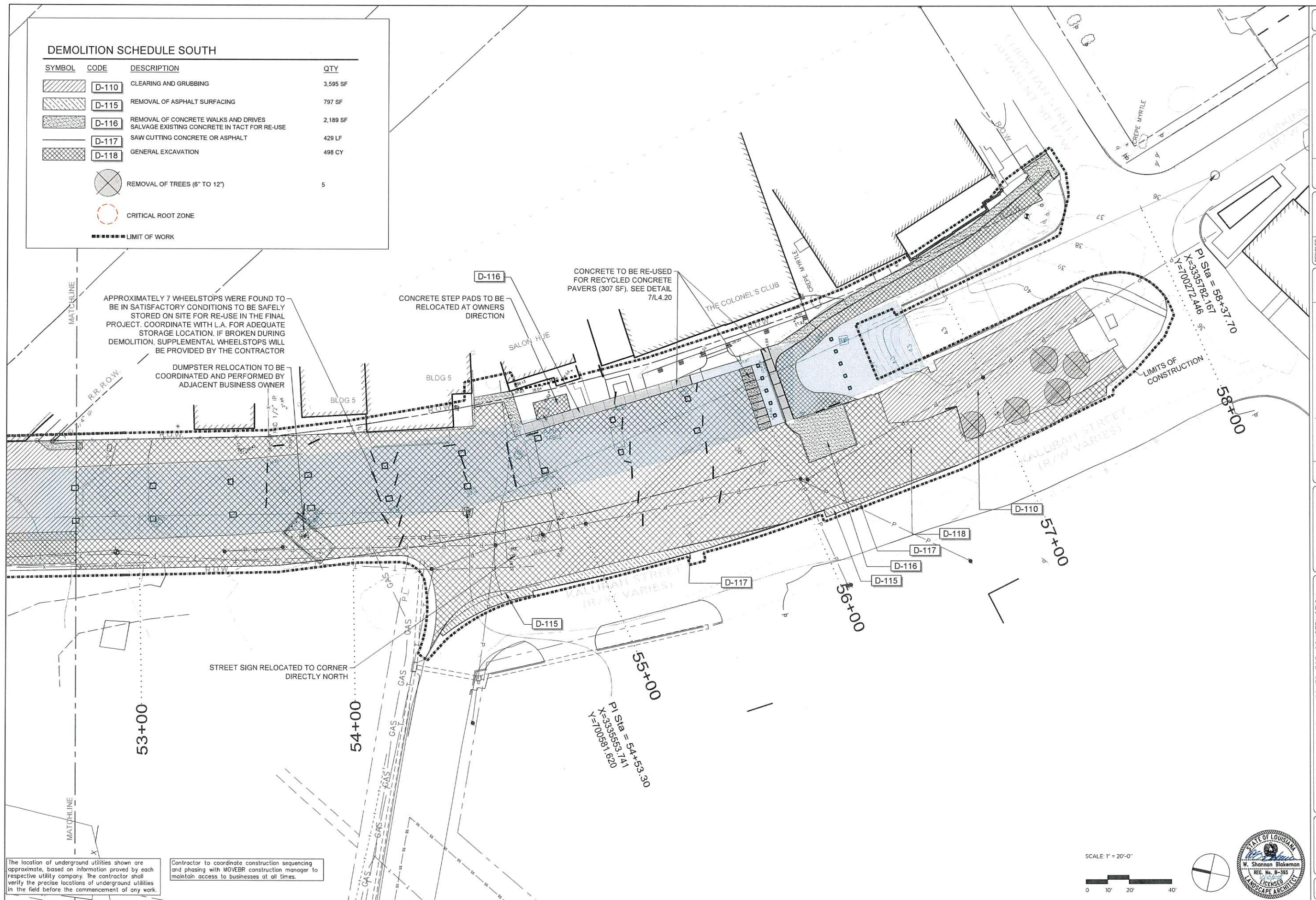
APPROXIMATELY 7 WHEELSTOPS WERE FOUND TO BE IN SATISFACTORY CONDITIONS TO BE SAFELY STORED ON SITE FOR RE-USE IN THE FINAL PROJECT. COORDINATE WITH L.A. FOR ADEQUATE STORAGE LOCATION. IF BROKEN DURING DEMOLITION, SUPPLEMENTAL WHEELSTOPS WILL BE PROVIDED BY THE CONTRACTOR

DUMPSTER RELOCATION TO BE COORDINATED AND PERFORMED BY ADJACENT BUSINESS OWNER

CONCRETE STEP PADS TO BE RELOCATED AT OWNERS DIRECTION

CONCRETE TO BE RE-USED FOR RECYCLED CONCRETE PAVERS (307 SF). SEE DETAIL 7/L.4.20

LIMITS OF CONSTRUCTION



The location of underground utilities shown are approximate, based on information provided by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.

Contractor to coordinate construction sequencing and phasing with MOVEBR construction manager to maintain access to businesses at all times.

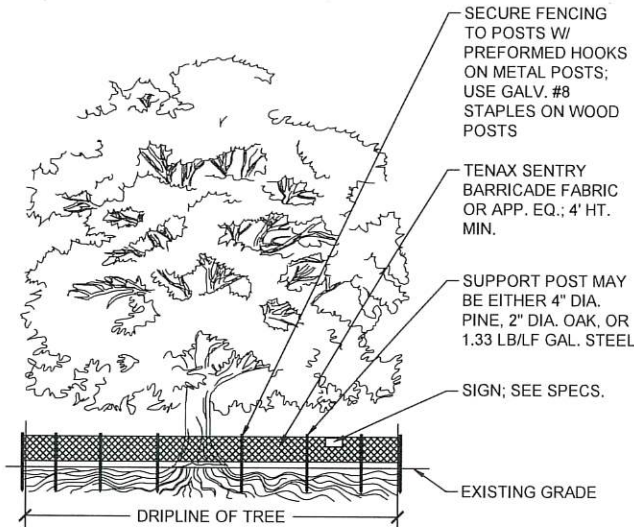
SCALE 1" = 20'-0"



|              |         |                                              |    |
|--------------|---------|----------------------------------------------|----|
| SHEET NUMBER |         | L1.01                                        |    |
| DESIGNED     | CHECKED | DATE                                         | BY |
|              |         | 10/10/2025                                   |    |
| PROJECT      |         | 23-EN-HC-0037                                |    |
| PARISH       |         | EAST BATON ROUGE PARISH                      |    |
| CITY         |         | BATON ROUGE                                  |    |
| STATE        |         | LOUISIANA                                    |    |
| DATE         |         | 10/10/2025                                   |    |
| SHEET        |         | 10/10/2025                                   |    |
| NO.          |         | 10/10/2025                                   |    |
| REVISION     |         | DESCRIPTION                                  |    |
| 1            |         | ISSUED FOR CONSTRUCTION                      |    |
| 2            |         | SITE CLEARING & TREE PROTECTION PLAN - SOUTH |    |
| 3            |         | PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS  |    |







1 TREE PROTECTION FENCE - TYPE 2  
SCALE: NTS



2 WEATHER PROOF TREE PROTECTION SIGN  
SCALE: 1"=1'-0"

#### TREE REMOVAL NOTES:

- ALL TREES DESIGNATED FOR REMOVAL SHALL HAVE THEIR TRUNKS CUT AS FLUSH WITH THE GROUND AS POSSIBLE.
- STANDARD REMOVAL:** ALL STUMPS, AT A MINIMUM, SHALL BE GRINDED INTO MULCH TO A DEPTH OF 12" BELOW THE EXISTING GRADE. MULCH SHALL BE REMOVED AND TOPSOIL SHALL BE ADDED TO FILL RESULTING VOID.
- AMENDED REMOVAL:** STUMPS WHICH CONFLICT WITH PROPOSED TREE PLANTINGS (AS INDICATED ON PLAN) SHALL COMPLY WITH THE FOLLOWING REMOVAL SPECIFICATIONS, IN ADDITION TO THE STANDARD REMOVAL AS DETAILED ABOVE:
  - FLAG THE PROPOSED TREE LOCATION.
  - EXCAVATE AND REMOVE ALL EXISTING ROOTS WITHIN A 5' RADIUS OF THE CENTER OF THE PROPOSED TREE LOCATION AND TO A DEPTH OF 4'.
  - THE FINAL EXCAVATION SHALL PROVIDE A "ROOT-FREE" ZONE THAT IS 3' CLEAR OF ALL SIDES OF THE PROPOSED TREE'S CONTAINER AND 2' CLEAR OF THE BOTTOM OF THE PROPOSED TREE'S CONTAINER.
  - CONTRACTOR IS RESPONSIBLE, AT NO COST TO OWNER OR L.A., FOR VERIFYING THE SIZE OF THE PROPOSED TREE'S CONTAINER AND ADJUSTING THE ROOT EXCAVATION AND REMOVAL LIMITS TO ACHIEVE THE SPECIFIED CLEARANCES.
  - CONTRACTOR IS RESPONSIBLE, AT NO COST TO THE OWNER OR L.A., FOR ANY ADDITIONAL EXISTING TREE ROOT REMOVAL AS NEEDED TO PROPERLY INSTALL THE PROPOSED TREES.

#### TREE PROTECTION NOTES:

- SEE PLAN FOR APPROXIMATE LOCATION OF TREE PROTECTION FENCING.
- EXISTING TREES SHALL BE PROTECTED AT ALL TIMES WITH 4' MIN. HT FENCING. LOCATION OF TREE PROTECTION FENCING SHALL BE SUBMITTED AS PART OF THE TREE PROTECTION PLAN AND APPROVED PRIOR TO INSTALLATION. CONSTRUCTION FENCE SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.
- MIN. 2'x2' WEATHERPROOF WARNING SIGN SHALL BE PLACED ON TREE PROTECTION FENCING. SIGNS SHALL BE VISIBLE ON ALL SIDES OF FENCED AREA AND SHALL BE SPACED NO MORE THAN 200' O.C. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REQUIRE ADDITIONAL WARNING SIGNS BASED UPON ACTUAL FIELD CONDITIONS.
- TEXT ON WARNING SIGNS SHALL BE 3" HIGH MIN. AND SHALL BE CLEARLY LEGIBLE IN BOTH ENGLISH AND SPANISH.
- FOR TREE PROTECTION AREAS WITH LESS THAN 200' PERIMETER, CONTRACTOR SHALL PROVIDE ONE (1) SIGN MIN.
- WARNING SIGNS SHALL BE SECURELY FASTENED TO POSTS.
- CONTRACTOR SHALL NOT STORE EQUIPMENT OR OTHER MATERIALS WITHIN THE DRIPLINE OF EXISTING TREES. CONTRACTOR SHALL COORDINATE MATERIAL STAGING WITH OWNER AND LANDSCAPE ARCHITECT.
  - ANY WORK THAT OCCURS WITHIN THE DRIPLINE OF ANY TREE SHALL BE DONE WITH THE DIRECTIONS OF A LICENSED ARBORIST.
- NO MECHANICAL TRENCHING WITHIN EXISTING TREE CANOPIES SHALL BE PERMITTED. **ONLY HAND DIGGING SHALL BE PERMITTED IN THESE AREAS.** AVOID SIGNIFICANT ROOTS.
- CONTRACTOR SHALL PHOTOGRAPH PROTECTED TREES FROM ALL SIDES AFTER INSTALLING TREE PROTECTION FENCING, AND SHALL SUBMIT THE PHOTOGRAPHS TO THE LANDSCAPE ARCHITECT PRIOR TO OTHER CONSTRUCTION ACTIVITIES.
- ANY ADDITIONAL PRUNING NECESSARY TO COMPLETE CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY A LICENSED ARBORIST. ALL PRUNING SHALL BE APPROVED AND COORDINATED WITH OWNER AND LANDSCAPE ARCHITECT WHILE ON SITE. CONTRACTOR SHALL HAVE WRITTEN APPROVAL PRIOR TO ANY PRUNING ACTIVITIES.
- THE LICENSED ARBORIST SHALL HOLD:
  - A CURRENT LOUISIANA DEPARTMENT OF AGRICULTURE ARBORIST LICENSE.
  - A CURRENT CITY OF BATON ROUGE ARBORIST LICENSE.
  - A GENERAL LIABILITY INSURANCE POLICY WITH LIAF MINIMAL COVERAGES.
  - WORKER'S COMPREHENSIVE INSURANCE, AS REQUIRED BY LOUISIANA LAW.
  - VEHICLE INSURANCE COVERAGE ON ALL VEHICLES UTILIZED IN THIS PROJECT.
  - A VALID WORKER'S COMPREHENSIVE INSURANCE POLICY ON ALL EMPLOYEES WORKING ON THIS SITE.
  - THE SITE MANAGER MUST BE A LOUISIANA LICENSED ARBORIST, OR A FULL-TIME EMPLOYEE OF THE SELECTED ARBORICULTURAL COMPANY AND MUST BE ON SITE DAILY, WHILE TREE WORK IS BEING COMPLETED.
- A PRE-PROJECT INSPECTION & KICK-OFF MEETING IS TO BE HELD WITH THE FOLLOWING PARTIES:
  - THE CONSULTING ARBORIST.
  - THE OWNER OF THE TREES, THE CITY OF BATON ROUGE, & MOVEBR
  - LOCAL UTILITY REPRESENTATIVES
  - SELECTED PROJECT CONTRACTORS
  - Hired ARBORISTS TO COMPLETE TASKS OUTLINE IN THIS DOCUMENT
  - OTHER CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK NEAR THE TREES ALONG THE CONSTRUCTION SITE
  - LOCAL NEIGHBORING HOMEOWNER'S ASSOCIATION REPRESENTATIVES.
- ONCE THE PROJECT SCOPE HAS BEEN DETERMINED AND LAID OUT, THEN THE REMOVAL OF ALL "REMOVAL TREES" SHALL OCCUR. DURING THIS PHASE OF THE PROJECT ALL WOOD WASTE GENERATED FROM THE TREES THAT CAN BE CHIPPED SHALL BE CHIPPED AND RECYCLED AS MULCH. THIS MULCH SHALL BE STOCKPILED AND THE UTILIZED AS PRESERVATION MULCH. LARGER WOOD WASTE DEBRIS THAT CANNOT BE CHIPPED, SHALL BE HAULED IMMEDIATELY OFF-SITE, AND DISPOSED OF BY THE LOUISIANA LICENSED ARBORIST CONTRACTOR.
- FOLLOWING THE TREE REMOVAL STAGE, THE TREE PRUNING STAGE SHALL OCCUR. CONSIDER RECYCLING THE PRUNED DEBRIS BY CHIPPING AND MULCHING THIS MATERIAL BACK TO THE ROOT SYSTEM OF THE "KEEP" TREES. A LOUISIANA LICENSED ARBORIST SHALL CONDUCT ALL PRUNING. PRUNING SHALL BE IN ACCORDANCE WITH CURRENT ARBORICULTURAL STANDARDS (ANSI 300). UNDER THE ANSI 300 PRUNING STANDARDS, ARBORIST WILL NOT:
  - LEAVE BRANCH STUBS.
  - MAKE UNNECESSARY HEADING CUTS.
  - CUT OFF THE BRANCH COLLAR (DO NOT MAKE A FLUSH CUT).
  - TOP OR LION'S TAIL TREES (STRIPPING A BRANCH FROM THE INSIDE LEAVING FOLIAGE JUST AT ENDS).
  - REMOVE MORE THAN 25 PERCENT OF THE FOLIAGE OF A SINGLE BRANCH.
  - REMOVE MORE THAT 25 PERCENT OF THE TOTAL TREE FOLIAGE.
  - DAMAGE OTHER PARTS OF THE TREE DURING PRUNING.
  - USE WOUND PAINT.
  - PRUNE A LIMB WITHOUT GOOD REASON.
  - CLIMB THE TREE WITH CLIMBING SPIKES.

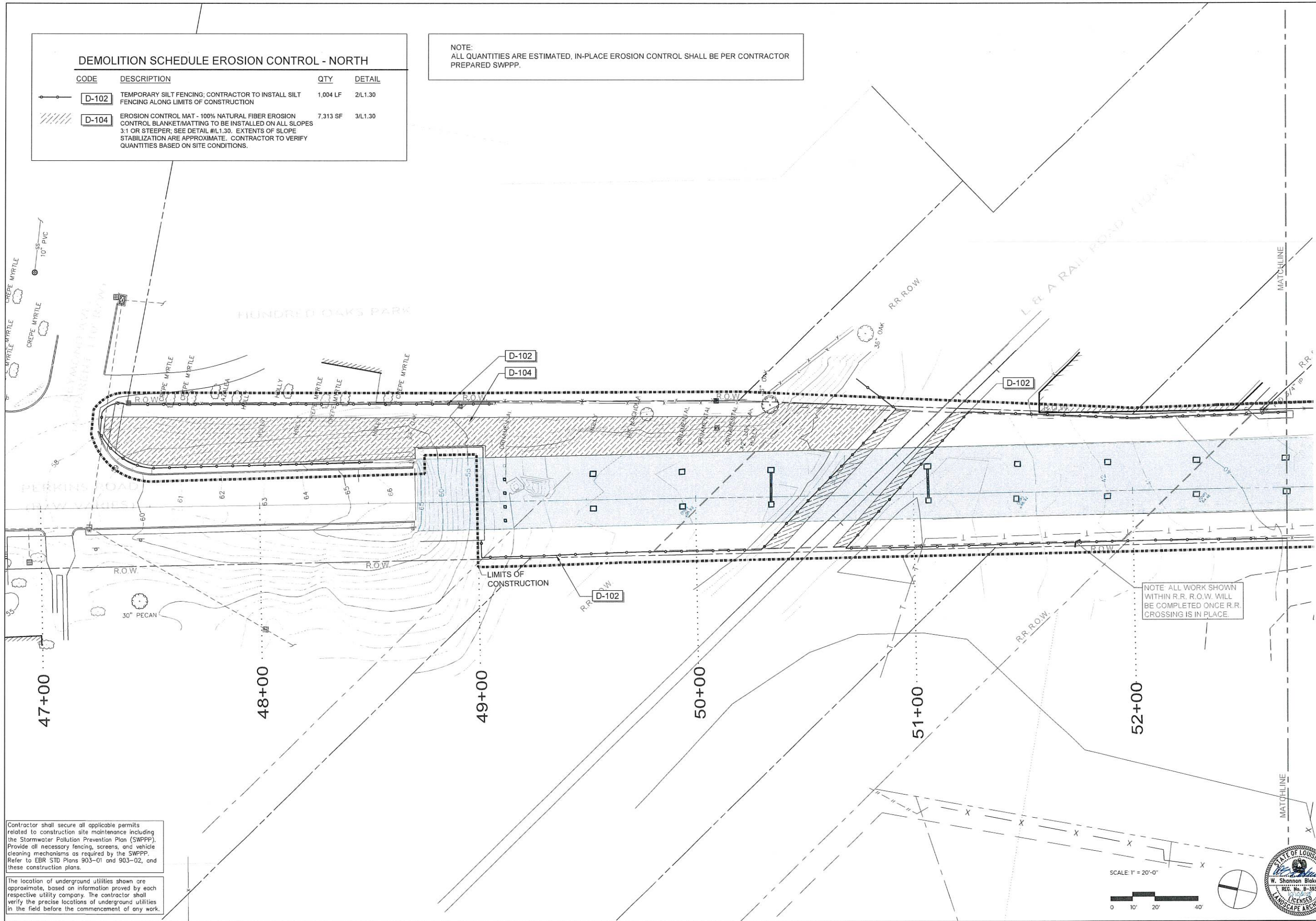




DEMOLITION SCHEDULE EROSION CONTROL - NORTH

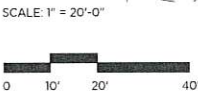
| CODE  | DESCRIPTION                                                                                                                                                                                                                                         | QTY      | DETAIL  |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|
| D-102 | TEMPORARY SILT FENCING; CONTRACTOR TO INSTALL SILT FENCING ALONG LIMITS OF CONSTRUCTION                                                                                                                                                             | 1,004 LF | 2/L1.30 |
| D-104 | EROSION CONTROL MAT - 100% NATURAL FIBER EROSION CONTROL BLANKET/MATTING TO BE INSTALLED ON ALL SLOPES 3:1 OR STEEPER; SEE DETAIL #L1.30. EXTENTS OF SLOPE STABILIZATION ARE APPROXIMATE. CONTRACTOR TO VERIFY QUANTITIES BASED ON SITE CONDITIONS. | 7,313 SF | 3/L1.30 |

NOTE:  
ALL QUANTITIES ARE ESTIMATED, IN-PLACE EROSION CONTROL SHALL BE PER CONTRACTOR PREPARED SWPPP.



Contractor shall secure all applicable permits related to construction site maintenance including the Stormwater Pollution Prevention Plan (SWPPP). Provide all necessary fencing, screens, and vehicle cleaning mechanisms as required by the SWPPP. Refer to EBR STD Plans 903-01 and 903-02, and these construction plans.

The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.



100% FINAL PLANS - ISSUED FOR CONSTRUCTION

EROSION CONTROL PLAN - NORTH

PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS

BR

CITY OF BATON ROUGE

PARISH OF EAST BATON ROUGE

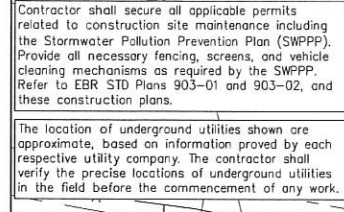
CLARBO

|          |                         |            |    |
|----------|-------------------------|------------|----|
| DESIGNED | CHECKED                 | DATE       | BY |
|          |                         |            |    |
| DETAILED | CHECKED                 | DATE       | BY |
|          |                         |            |    |
| PROJECT  | 23-EN-HC-0037           | 10/10/2025 |    |
| PARISH   | EAST BATON ROUGE PARISH |            |    |
| STATE    | LOUISIANA               |            |    |
| SHEET    |                         |            |    |
| NUMBER   | L1.20                   |            |    |

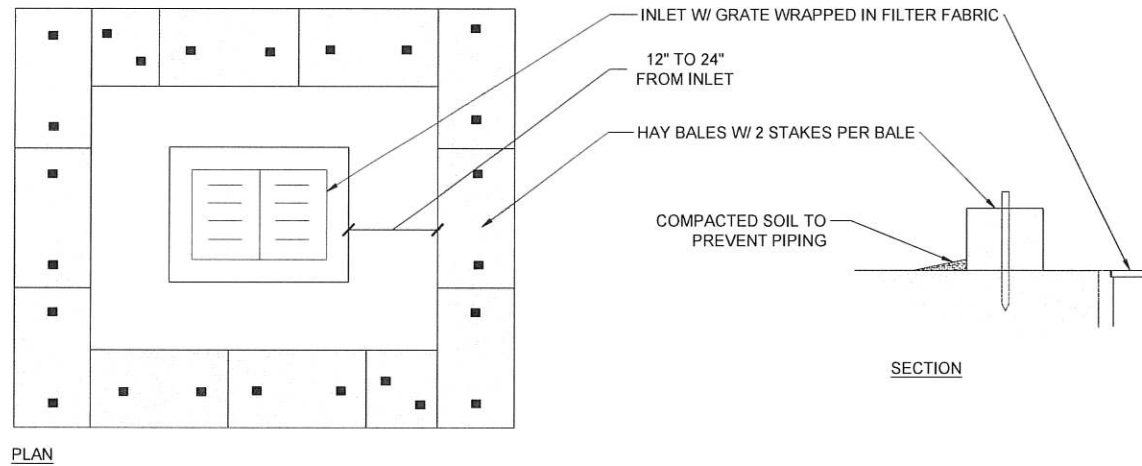


| DEMOLITION SCHEDULE EROSION CONTROL - SOUTH                                       |                                                                                                                                                                                                                                                                  |          |         |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|
| SYMBOL                                                                            | DESCRIPTION                                                                                                                                                                                                                                                      | QTY      | DETAIL  |
|  | <b>D-101</b> TEMPORARY DROP INLET (HAY BALES) - INSTALL AT ALL CATCH BASINS ON-SITE AND IN ADJACENT STREETS (TYP.). TO INCLUDE HAY BALES, REFER TO DETAILS 1/L1.30                                                                                               | 6        | 1/L1.30 |
|  | <b>D-102</b> TEMPORARY SILT FENCING; CONTRACTOR TO INSTALL SILT FENCING ALONG LIMITS OF CONSTRUCTION                                                                                                                                                             | 471 LF   | 2/L1.30 |
|  | <b>D-103</b> TEMPORARY STONE CONSTRUCTION ENTRANCE                                                                                                                                                                                                               | 1,604 SF | 5/L1.30 |
|  | <b>D-104</b> EROSION CONTROL MAT - 100% NATURAL FIBER EROSION CONTROL BLANKET/MATTING TO BE INSTALLED ON ALL SLOPES 3:1 OR STEEPER; SEE DETAIL #L1.30. EXTENTS OF SLOPE STABILIZATION ARE APPROXIMATE. CONTRACTOR TO VERIFY QUANTITIES BASED ON SITE CONDITIONS. | 1,388 SF | 3/L1.30 |
|  | LIGHT/POWER POLE TO BE BURIED OR RELOCATED BY ENTERGY PRIOR TO CONSTRUCTION                                                                                                                                                                                      | 3        |         |

NOTE:  
ALL QUANTITIES ARE ESTIMATED, IN-PLACE EROSION CONTROL SHALL BE PER CONTRACTOR  
PREPARED SWPPP.

[illegible]

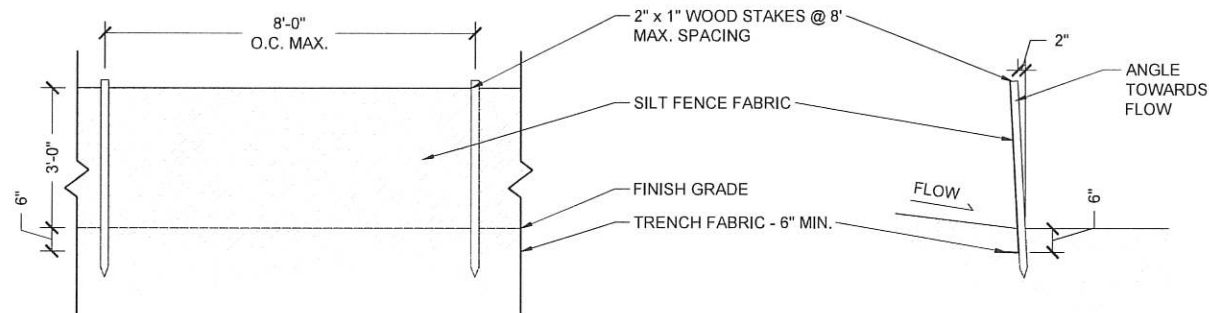




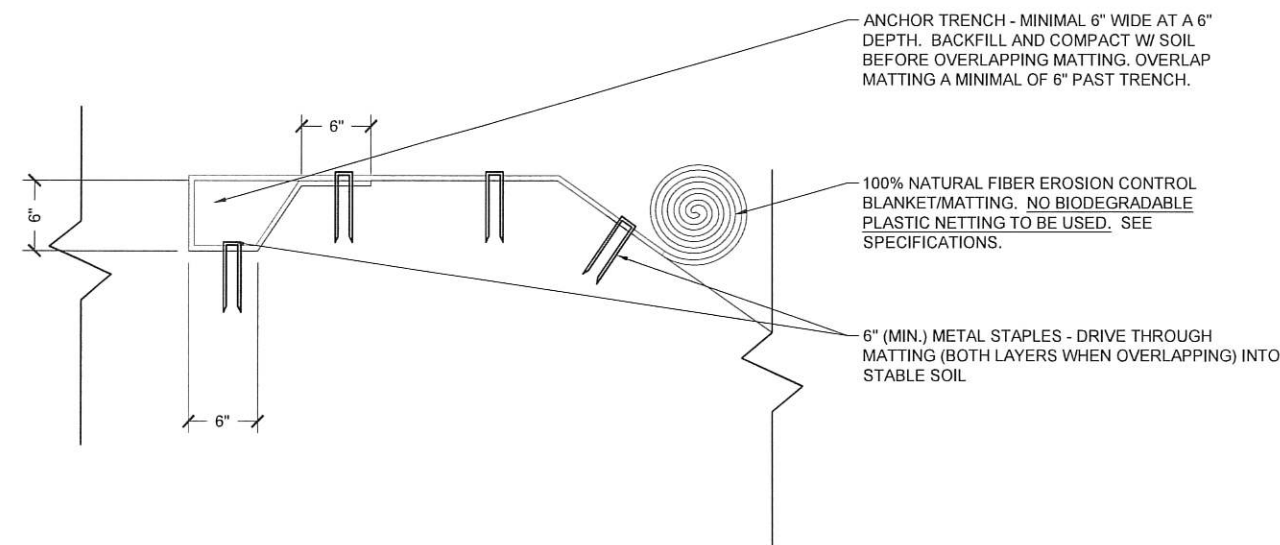
EROSION CONTROL BLANKET/MATTING TO BE MAINTAINED AND REMAIN IN PLACE UNTIL SATISFACTORY ESTABLISHMENT OF PLANT MATERIAL IS ACHIEVED AS DETERMINED BY LANDSCAPE ARCHITECT.

1 TEMPORARY DROP INLET (HAY BALES)  
SCALE: 1/2" = 1'-0"

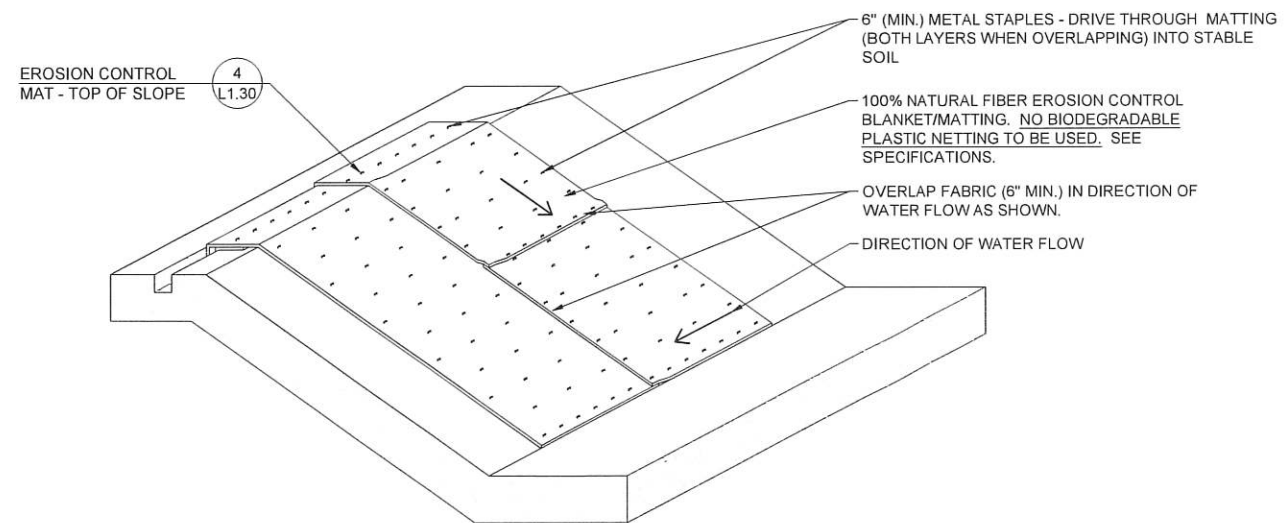
- NOTES:
- INSTALL SILT FENCING ALONG SAME CONTOUR WHEN POSSIBLE AND DOG-LEG AT THE END OF RUNS TO CONTAIN SEDIMENT.
  - INSTALL STAKES ON DOWNSTREAM SIDE OF THE FABRIC
  - OVERLAP FABRIC SEGMENTS BY AT LEAST 4"
  - SECURE FABRIC TO STAKES USING 1" SCREWS, 16 GAUGE WIRE, OR HEAVY DUTY UV RESISTANT CABLE TIES.



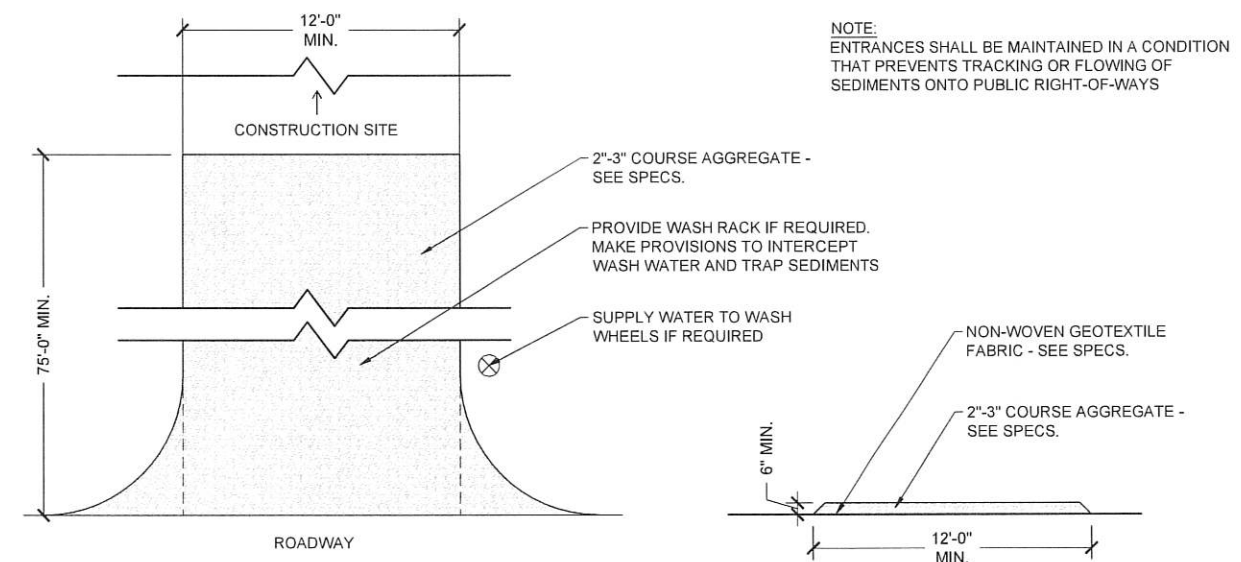
2 TEMPORARY SILT FENCING  
SCALE: 1/2" = 1'-0"



4 EROSION CONTROL MAT - TOP OF SLOPE  
SCALE: 1 1/2" = 1'-0"



3 EROSION CONTROL MAT - ALONG SLOPES  
SCALE: N.T.S.



5 TEMPORARY STONE CONSTRUCTION ENTRANCE  
SCALE: 1/4" = 1'-0"

SHEET NUMBER L1.30

EAST BATON ROUGE PARISH  
CITY PROJECT 23-EN-HC-0037  
STATE PROJECT

DESIGNED CHECKED  
DATE 10/10/2025  
SHEET

NO. DATE BY  
REVISION DESCRIPTION



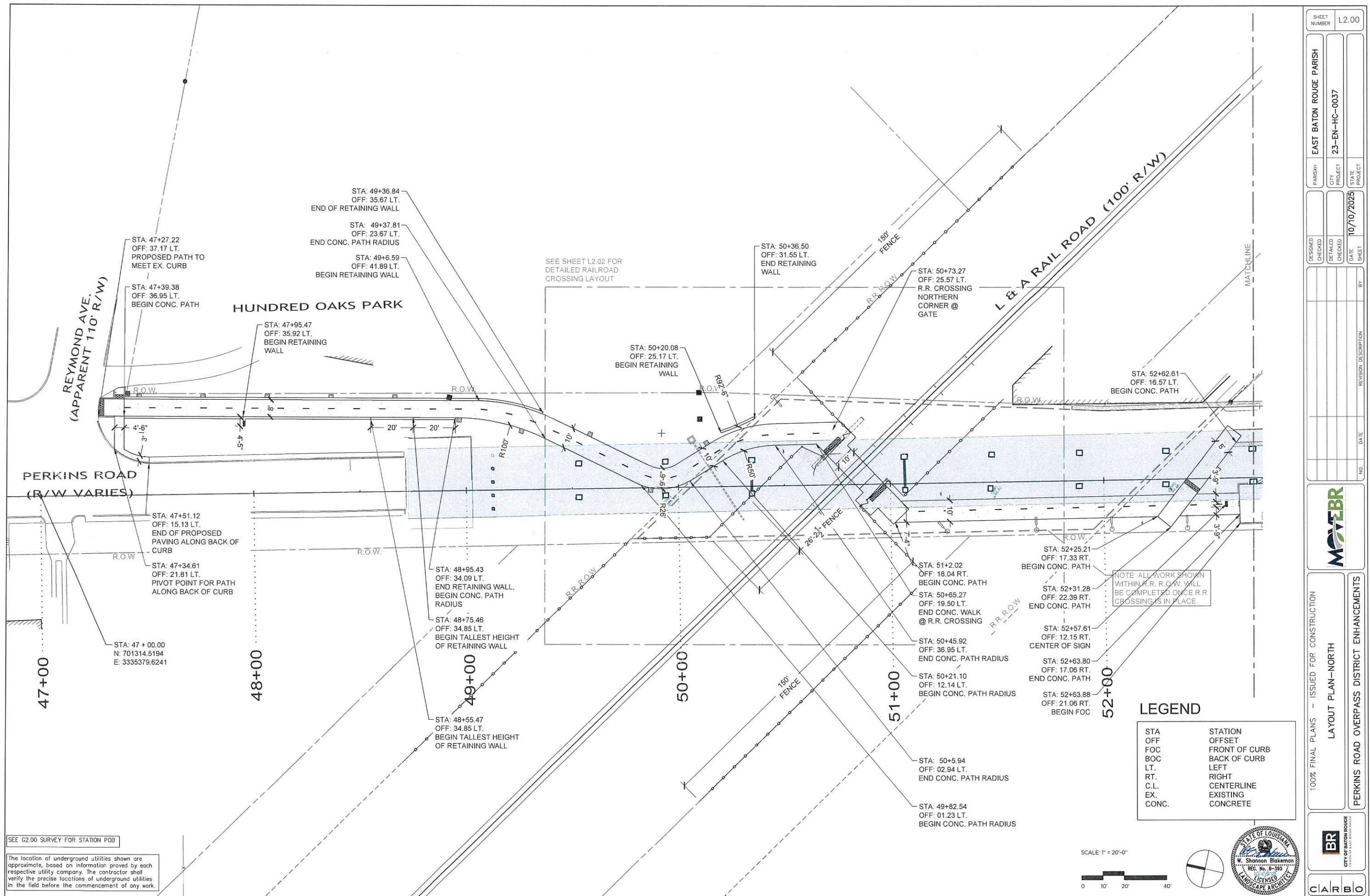
100% FINAL PLANS - ISSUED FOR CONSTRUCTION  
EROSION CONTROL DETAILS  
PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS



CIA/BIO







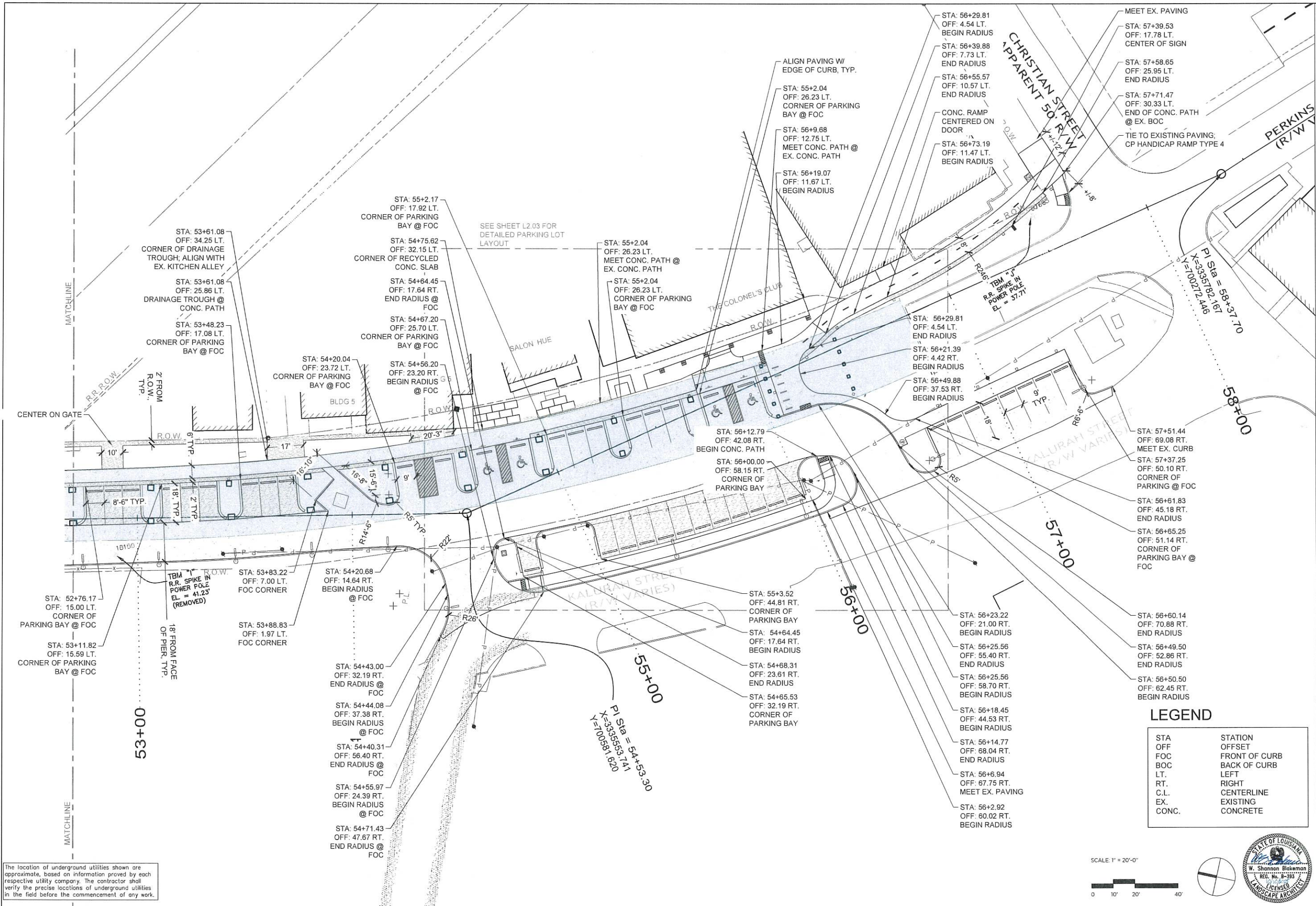
|                                                     |         |                         |    |
|-----------------------------------------------------|---------|-------------------------|----|
| SHEET NUMBER                                        |         | L2.00                   |    |
| PARISH                                              |         | EAST BATON ROUGE PARISH |    |
| CITY PROJECT                                        |         | 23-EN-HC-0037           |    |
| STATE PROJECT                                       |         |                         |    |
| DESIGNED                                            | CHECKED | DATE                    | BY |
|                                                     |         | 10/10/2025              |    |
| REVISION DESCRIPTION                                |         |                         |    |
| NO.                                                 | DATE    |                         |    |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION          |         |                         |    |
| LAYOUT PLAN-NORTH                                   |         |                         |    |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS         |         |                         |    |
| BR<br>CITY OF BATON ROUGE<br>OFFICE OF PUBLIC WORKS |         |                         |    |
| CIARBO                                              |         |                         |    |

STATE OF LOUISIANA  
W. Shannon Blakeman  
REG. NO. 8-383  
LICENSED LANDSCAPE ARCHITECT

SCALE: 1" = 20'-0"

0 10' 20' 40'





|                      |         |                         |            |
|----------------------|---------|-------------------------|------------|
| SHEET NUMBER         |         | L2.01                   |            |
| PARISH               |         | EAST BATON ROUGE PARISH |            |
| CITY PROJECT         |         | 23-EN-HC-0037           |            |
| STATE PROJECT        |         |                         |            |
| DESIGNED             | CHECKED | DATE                    | 10/10/2025 |
| DETAILED             | CHECKED | BY                      |            |
| REVISION DESCRIPTION |         | NO.                     |            |
| DATE                 |         |                         |            |

100% FINAL PLANS - ISSUED FOR CONSTRUCTION

LAYOUT PLAN-SOUTH

PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS

CITY OF BATON ROUGE

STATE OF LOUISIANA

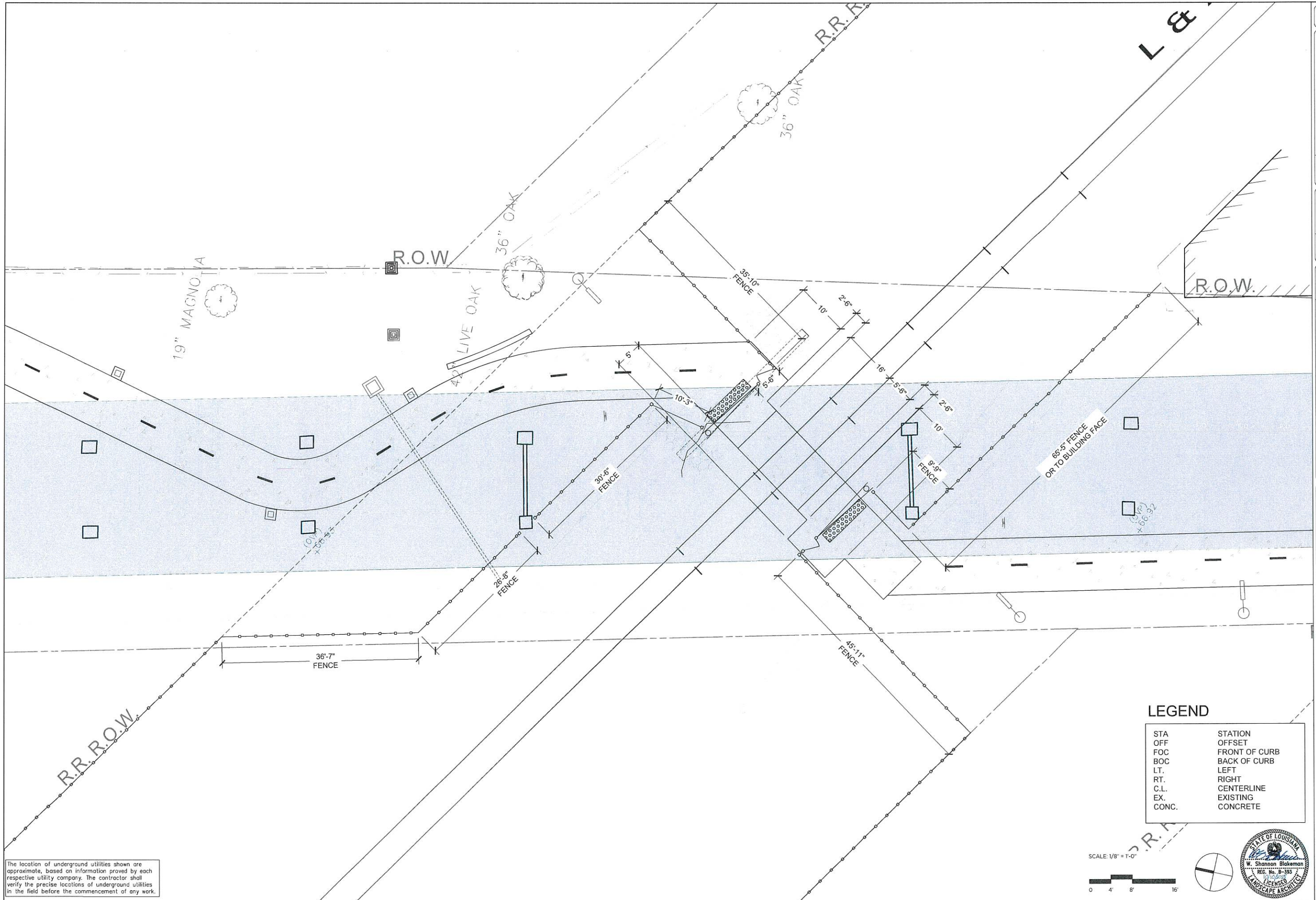
REGISTERED PROFESSIONAL ENGINEER

NO. 388

EXPIRATION DATE 12/31/2026

CARBON





The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.

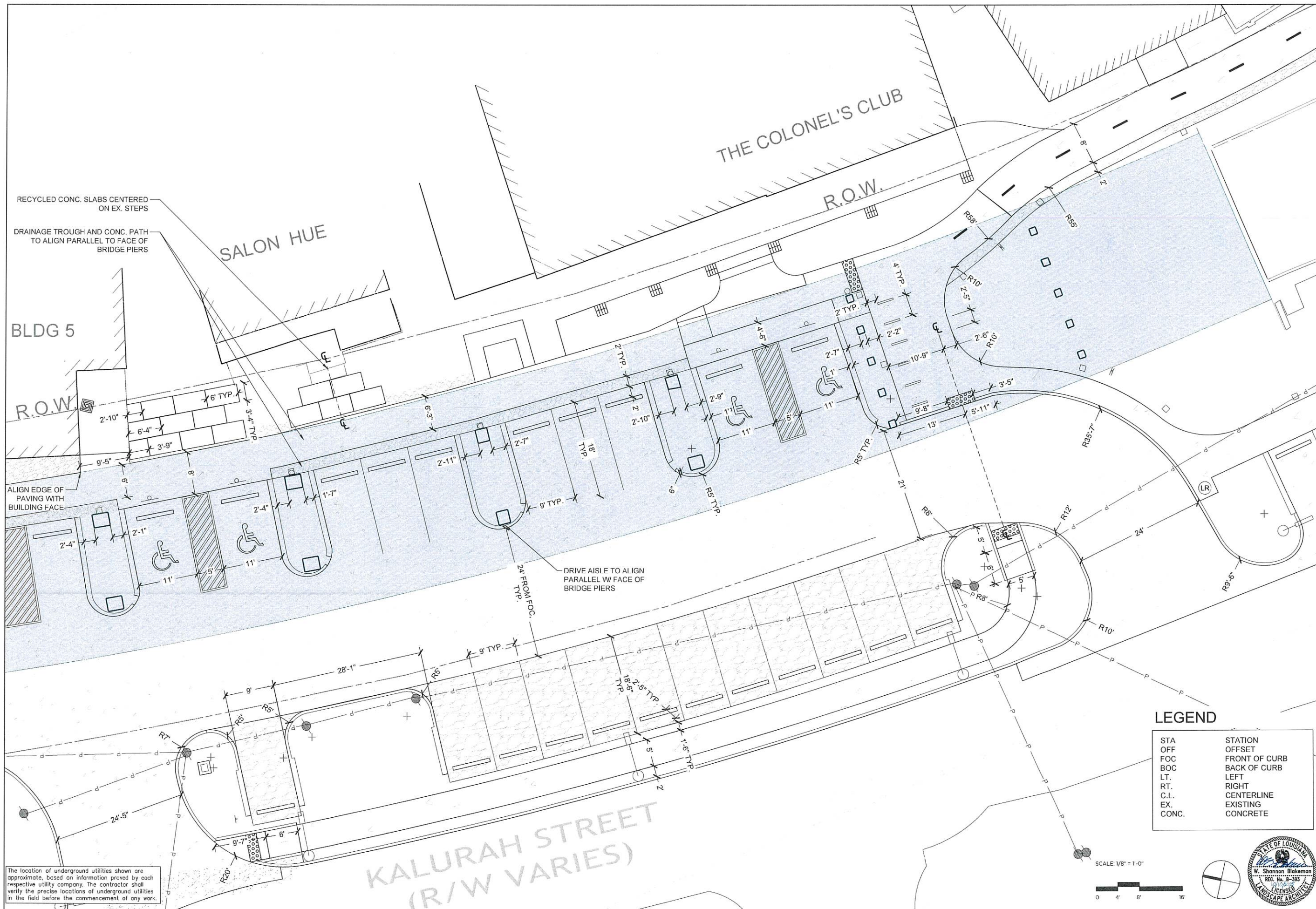
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|----------------------|---------|-------------------------|------------|
| SHEET NUMBER         |         | L2.02                   |            |
| PARISH               |         | EAST BATON ROUGE PARISH |            |
| CITY PROJECT         |         | 23-EN-HC-0037           |            |
| STATE PROJECT        |         |                         |            |
| DESIGNED             | CHECKED | DATE                    | 10/10/2025 |
| DETAILED             | CHECKED | DATE                    |            |
| REVISION DESCRIPTION |         | NO.                     | DATE       |
| BY                   |         |                         |            |

100% FINAL PLANS - ISSUED FOR CONSTRUCTION

LAYOUT PLAN DETAIL-NORTH

PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS





RECYCLED CONC. SLABS CENTERED ON EX. STEPS

DRAINAGE TROUGH AND CONC. PATH TO ALIGN PARALLEL TO FACE OF BRIDGE PIERS

BLDG 5

R.O.W.

ALIGN EDGE OF PAVING WITH BUILDING FACE

SALON HUE

THE COLONEL'S CLUB

R.O.W.

DRIVE AISLE TO ALIGN PARALLEL W/ FACE OF BRIDGE PIERS

24' FROM FOC.

LEGEND

|       |               |
|-------|---------------|
| STA   | STATION       |
| OFF   | OFFSET        |
| FOC   | FRONT OF CURB |
| BOC   | BACK OF CURB  |
| LT.   | LEFT          |
| RT.   | RIGHT         |
| C.L.  | CENTERLINE    |
| EX.   | EXISTING      |
| CONC. | CONCRETE      |

SCALE: 1/8" = 1'-0"

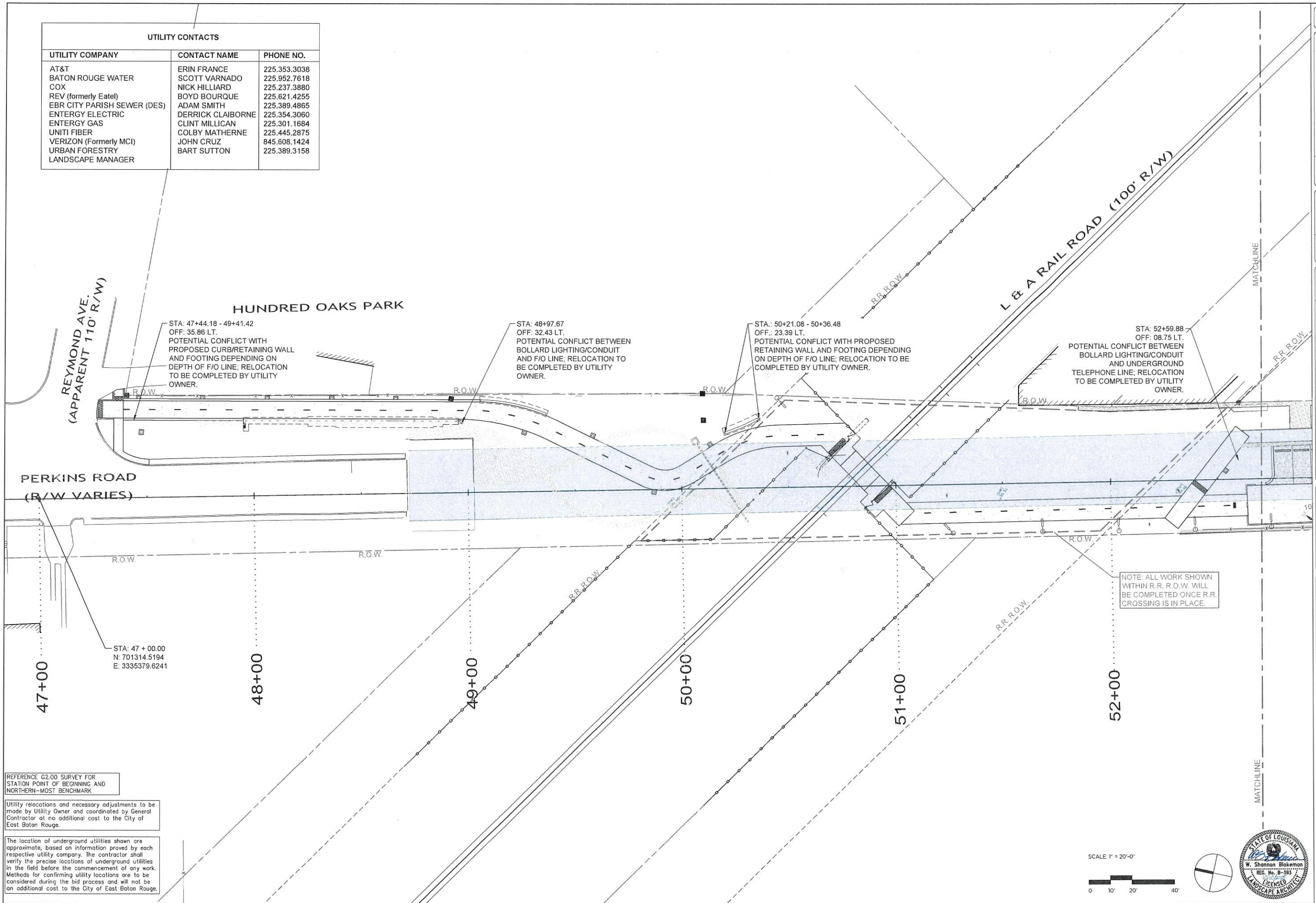


The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.

|                                             |         |                            |    |
|---------------------------------------------|---------|----------------------------|----|
| SHEET NUMBER                                |         | L2.03                      |    |
| PARISH                                      |         | EAST BATON ROUGE PARISH    |    |
| CITY PROJECT                                |         | 23-EN-HC-0037              |    |
| DESIGNED                                    | CHECKED | DATE                       | BY |
| DETAILED                                    | CHECKED | 10/10/2025                 |    |
| STATE PROJECT                               |         |                            |    |
| REVISION DESCRIPTION                        |         |                            |    |
| NO.                                         |         | DATE                       |    |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |         |                            |    |
| LAYOUT PLAN DETAIL - SOUTH                  |         |                            |    |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |         |                            |    |
| BR                                          |         | CITY OF BATON ROUGE        |    |
| CITY OF BATON ROUGE                         |         | PARISH OF EAST BATON ROUGE |    |
| W. Shannon Blakeman                         |         | REG. NO. 24-356            |    |
| LICENSED LANDSCAPE ARCHITECT                |         | STATE OF LOUISIANA         |    |
| CLARBO                                      |         |                            |    |



| UTILITY CONTACTS            |                   |              |
|-----------------------------|-------------------|--------------|
| UTILITY COMPANY             | CONTACT NAME      | PHONE NO.    |
| AT&T                        | ERIN FRANCE       | 225.353.3038 |
| BATON ROUGE WATER           | SCOTT VARNADO     | 225.952.7618 |
| COX                         | NICK HILLIARD     | 225.237.3880 |
| REV (formerly Eatel)        | BOYD BOURQUE      | 225.621.4255 |
| EBR CITY PARISH SEWER (DES) | ADAM SMITH        | 225.389.4865 |
| ENTERGY ELECTRIC            | DERRICK CLAIBORNE | 225.354.3060 |
| ENTERGY GAS                 | CLINT MILLICAN    | 225.301.1684 |
| UNITI FIBER                 | COLBY MATHERNE    | 225.445.2875 |
| VERIZON (Formerly MCI)      | JOHN CRUZ         | 845.608.1424 |
| URBAN FORESTRY              | BART SUTTON       | 225.389.3158 |
| LANDSCAPE MANAGER           |                   |              |



REFERENCE G2.00 SURVEY FOR  
STATION POINT OF BEGINNING AND  
NORTHERN-MOST BENCHMARK

Utility relocations and necessary adjustments to be  
made by Utility Owner and coordinated by General  
Contractor at no additional cost to the City of  
East Baton Rouge.

The location of underground utilities shown are  
approximate, based on information proved by each  
respective utility company. The contractor shall  
verify the precise locations of underground utilities  
in the field before the commencement of any work.  
Methods for confirming utility locations are to be  
considered during the bid process and will not be  
an additional cost to the City of East Baton Rouge.

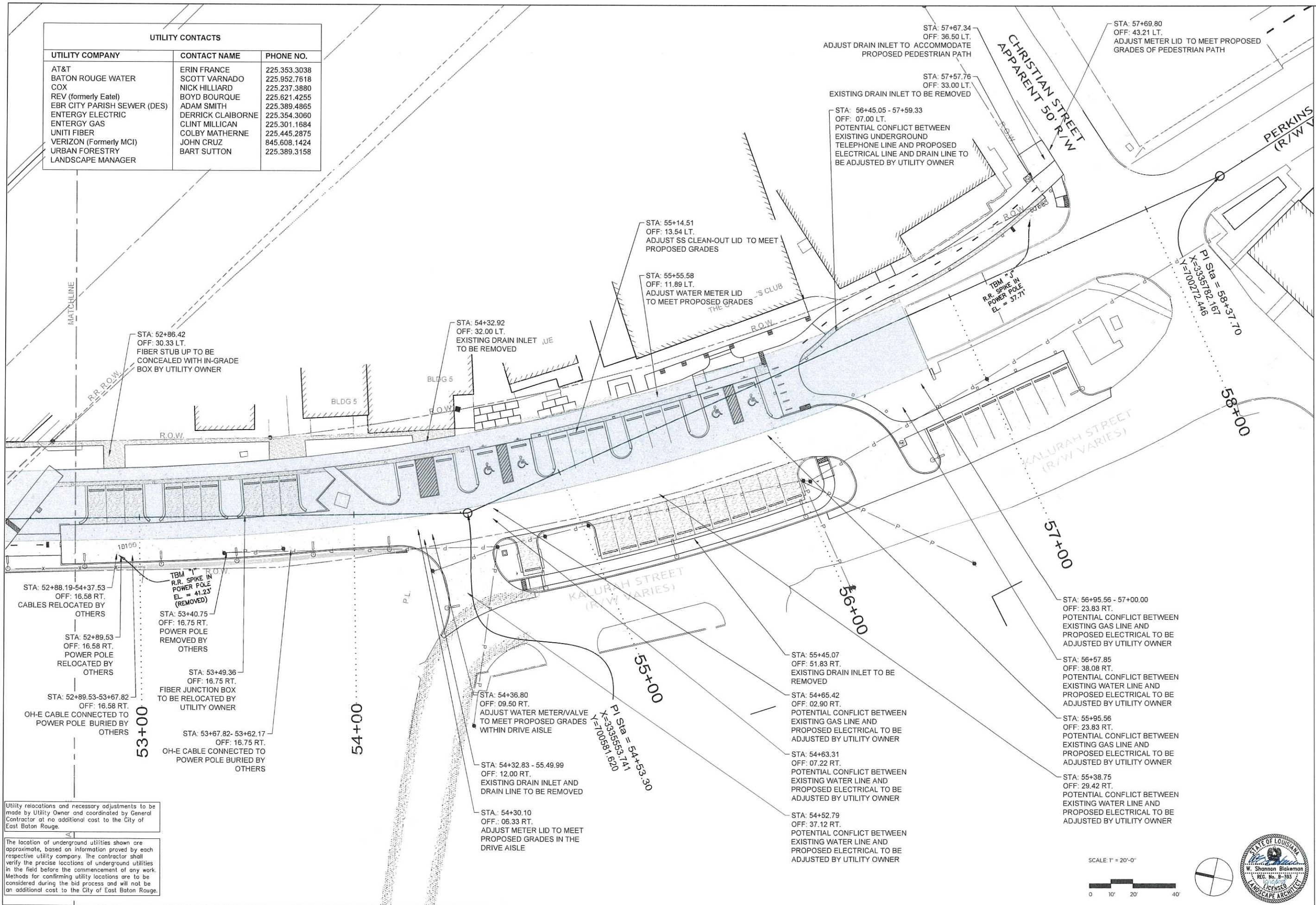
SCALE: 1" = 20'-0"



|                                                   |               |
|---------------------------------------------------|---------------|
| SHEET NUMBER L2.10                                |               |
| EAST BATON ROUGE PARISH                           |               |
| PARISH                                            | CITY PROJECT  |
| 23-EN-HC-0037                                     | STATE PROJECT |
| DESIGNED                                          | CHECKED       |
| DATE                                              | 10/10/2025    |
| BY                                                | 002           |
| NO.                                               | DATE          |
| REVISION DESCRIPTION                              |               |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION        |               |
| UTILITY SPACE ALLOCATION PLAN-NORTH               |               |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS       |               |
| BR                                                | CARBO         |
| CITY OF BATON ROUGE<br>OFFICE OF EAST BATON ROUGE |               |



| UTILITY CONTACTS            |                   |              |
|-----------------------------|-------------------|--------------|
| UTILITY COMPANY             | CONTACT NAME      | PHONE NO.    |
| AT&T                        | ERIN FRANCE       | 225.353.3038 |
| BATON ROUGE WATER           | SCOTT VARNADO     | 225.952.7618 |
| COX                         | NICK HILLIARD     | 225.237.3880 |
| REV (formerly Eatel)        | BOYD BOURQUE      | 225.621.4255 |
| EBR CITY PARISH SEWER (DES) | ADAM SMITH        | 225.389.4865 |
| ENTERGY ELECTRIC            | DERRICK CLAIBORNE | 225.354.3060 |
| ENTERGY GAS                 | CLINT MILLICAN    | 225.301.1684 |
| UNITI FIBER                 | COLBY MATHERNE    | 225.445.2875 |
| VERIZON (Formerly MCI)      | JOHN CRUZ         | 845.608.1424 |
| URBAN FORESTRY              | BART SUTTON       | 225.389.3158 |
| LANDSCAPE MANAGER           |                   |              |



Utility relocations and necessary adjustments to be made by Utility Owner and coordinated by General Contractor at no additional cost to the City of East Baton Rouge.

The location of underground utilities shown are approximate, based on information provided by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work. Methods for confirming utility locations are to be considered during the bid process and will not be an additional cost to the City of East Baton Rouge.



|                                             |            |                                             |             |
|---------------------------------------------|------------|---------------------------------------------|-------------|
| SHEET NUMBER                                |            | L2.11                                       |             |
| ISSUED FOR CONSTRUCTION                     |            | 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |             |
| UTILITY SPACE ALLOCATION PLAN-SOUTH         |            | UTILITY SPACE ALLOCATION PLAN-SOUTH         |             |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |            | PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |             |
| DESIGNED                                    | CHECKED    | DATE                                        | BY          |
| 10/10/2025                                  | 10/10/2025 |                                             |             |
| EAST BATON ROUGE PARISH                     |            | 23-EN-HC-0037                               |             |
| CITY                                        | PROJECT    | STATE                                       | PROJECT     |
| NO                                          | DATE       | REVISION                                    | DESCRIPTION |

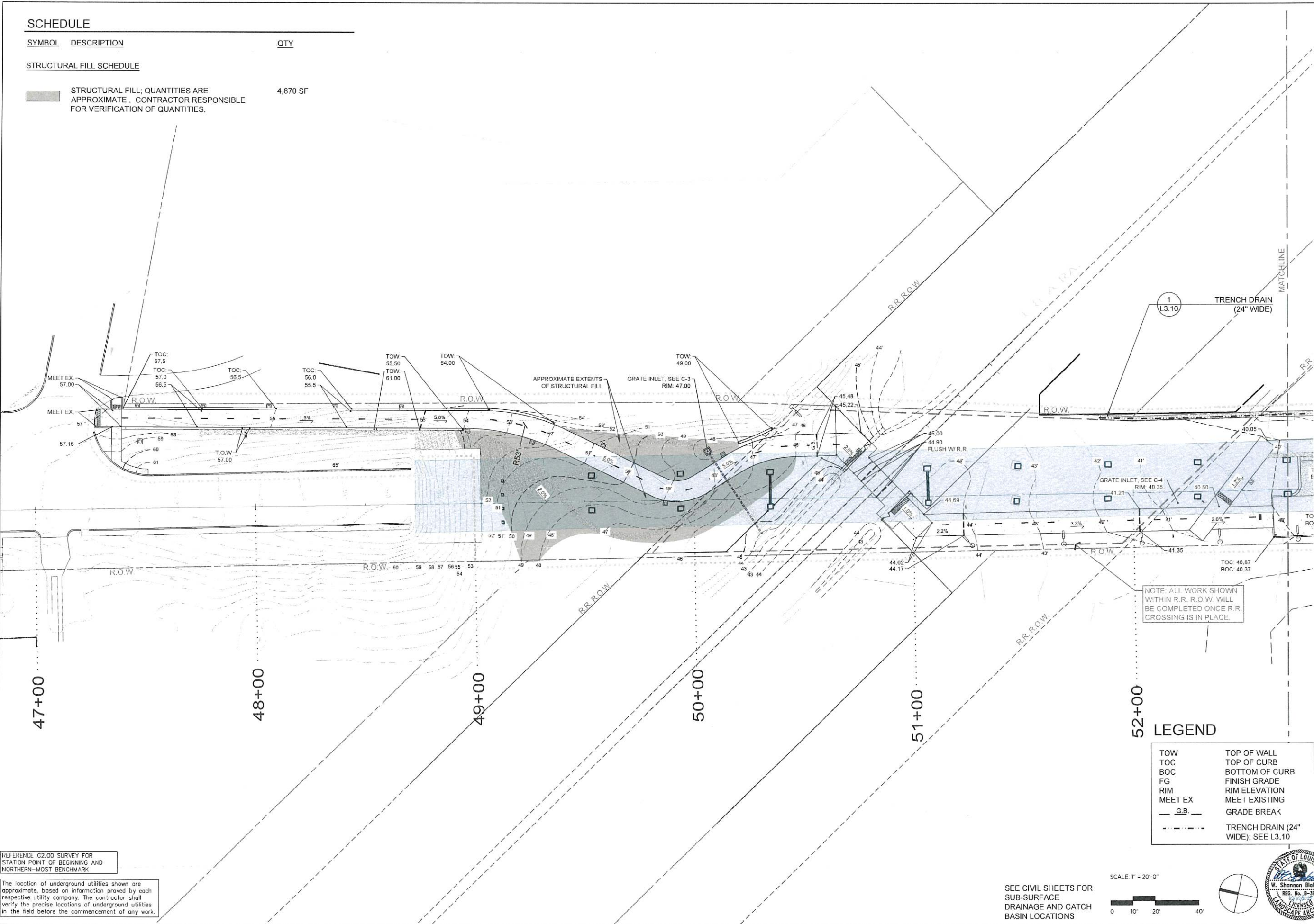


SCHEDULE

| SYMBOL | DESCRIPTION | QTY |
|--------|-------------|-----|
|--------|-------------|-----|

STRUCTURAL FILL SCHEDULE

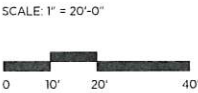
|  |                                                                                                     |          |
|--|-----------------------------------------------------------------------------------------------------|----------|
|  | STRUCTURAL FILL; QUANTITIES ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR VERIFICATION OF QUANTITIES. | 4,870 SF |
|--|-----------------------------------------------------------------------------------------------------|----------|



REFERENCE G2.00 SURVEY FOR STATION POINT OF BEGINNING AND NORTHERN-MOST BENCHMARK

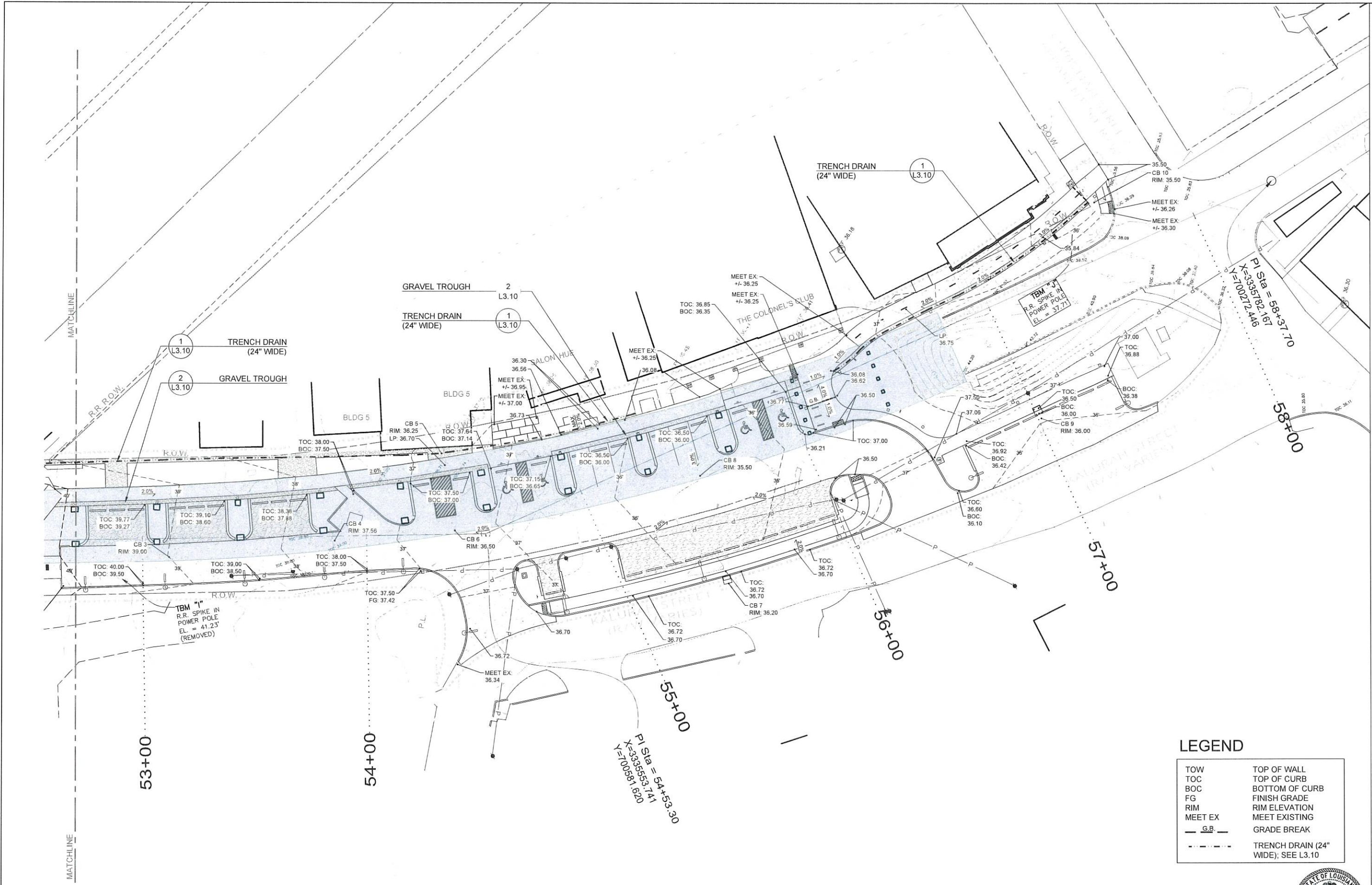
The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.

SEE CIVIL SHEETS FOR SUB-SURFACE DRAINAGE AND CATCH BASIN LOCATIONS



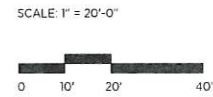
|                                             |                           |
|---------------------------------------------|---------------------------|
| SHEET NUMBER L3.00                          |                           |
| EAST BATON ROUGE PARISH                     |                           |
| PARISH                                      | QTY PROJECT 23-EN-HC-0037 |
| DESIGNED CHECKED                            | DATE 10/10/2025           |
| DETAILED CHECKED                            | BY                        |
| REVISION DESCRIPTION                        |                           |
| NO.                                         | DATE                      |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |                           |
| GRADING AND DRAINAGE PLAN - NORTH           |                           |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |                           |
| BR CITY OF BATON ROUGE                      | CARBON                    |





The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.

SEE CIVIL SHEETS FOR  
SUB-SURFACE  
DRAINAGE AND CATCH  
BASIN LOCATIONS



|               |         |                         |            |
|---------------|---------|-------------------------|------------|
| SHEET NUMBER  |         | L3.01                   |            |
| PARISH        |         | EAST BATON ROUGE PARISH |            |
| CITY PROJECT  |         | 23-EN-HC-0037           |            |
| STATE PROJECT |         |                         |            |
| DESIGNED      | CHECKED | DATE                    | 10/10/2025 |
| BY            | DATE    | REVISION DESCRIPTION    |            |
| NO.           |         |                         |            |

100% FINAL PLANS - ISSUED FOR CONSTRUCTION

GRADING AND DRAINAGE PLAN - SOUTH

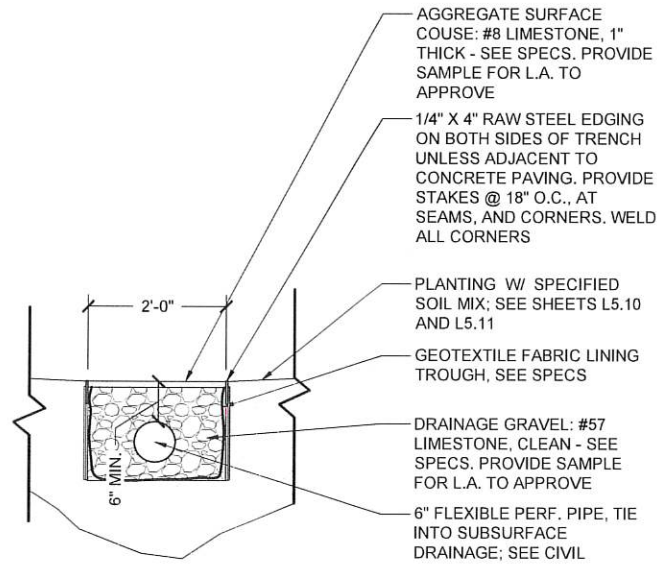
PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS

CITY OF BATON ROUGE  
PARISH OF EAST BATON ROUGE



PAY ITEM DISTRIBUTION:

- ITEM 4020301 - 1" AGGREGATE SURFACE COURSE
- ITEM 7030106 - 6" PERFORATED PIPE & EXCAVATION
- ITEM 9900310 - GRAVEL BACKFILL & GEOTEXTILE FABRIC
- ITEM 9900311 - METAL EDGING

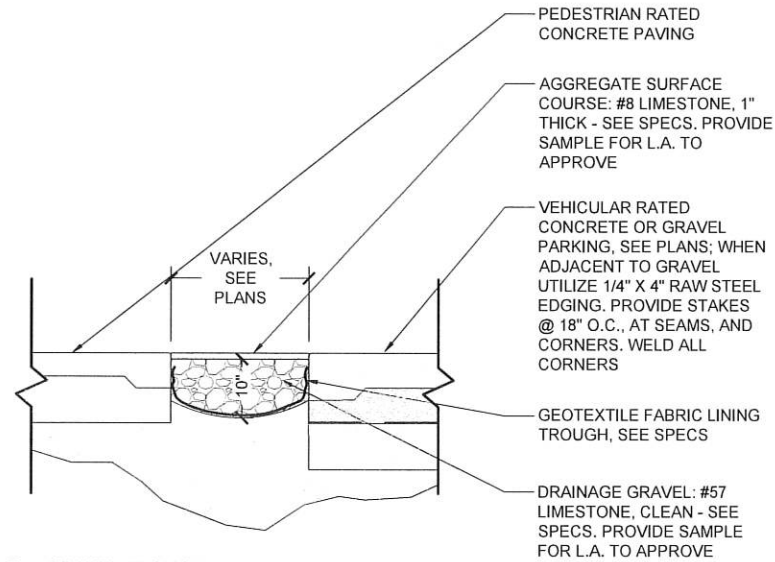


1 TRENCH DRAIN (24" WIDE)

SCALE: 3/4" = 1'-0"

PAY ITEM DISTRIBUTION:

- ITEM 4020301 - 1" AGGREGATE SURFACE COURSE
- ITEM 9900310 - GRAVEL BACKFILL & GEOTEXTILE FABRIC
- ITEM 9900311 - METAL EDGING



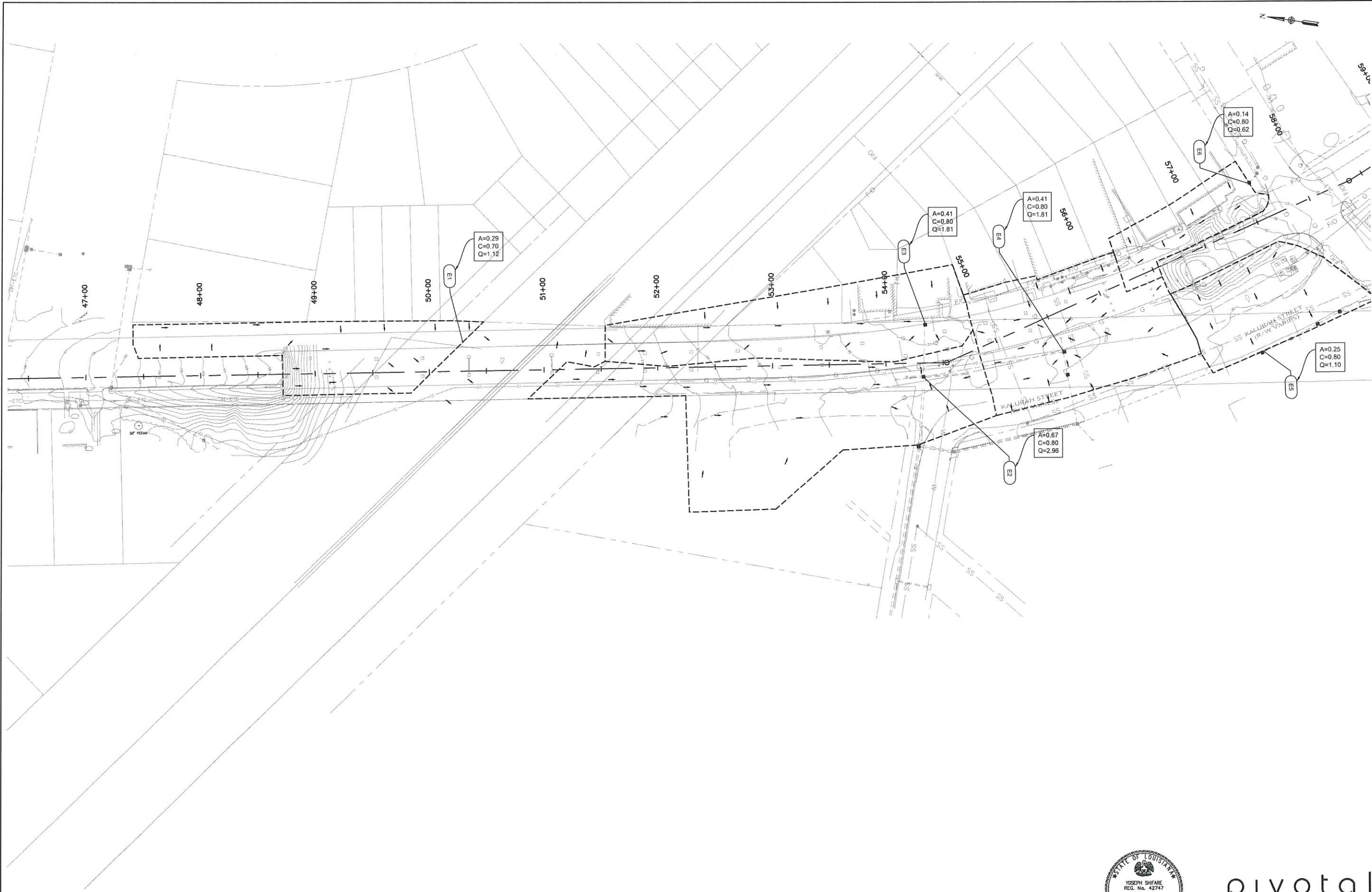
2 GRAVEL TROUGH

SCALE: 3/4" = 1'-0"

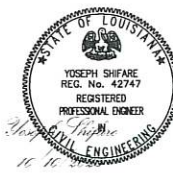


|                                             |  |                         |  |
|---------------------------------------------|--|-------------------------|--|
| SHEET NUMBER                                |  | L3.10                   |  |
| EAST BATON ROUGE PARISH                     |  | 23-EN-HC-0037           |  |
| PARISH                                      |  | CITY PROJECT            |  |
| DESIGNED                                    |  | 10/10/2025              |  |
| CHECKED                                     |  | DATE                    |  |
| DETAILED                                    |  | BY                      |  |
| CHECKED                                     |  | NO.                     |  |
| DATE                                        |  | REVISION DESCRIPTION    |  |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |  | DRAINAGE DETAILS - L.A. |  |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |  | C.A.R.B.O.              |  |





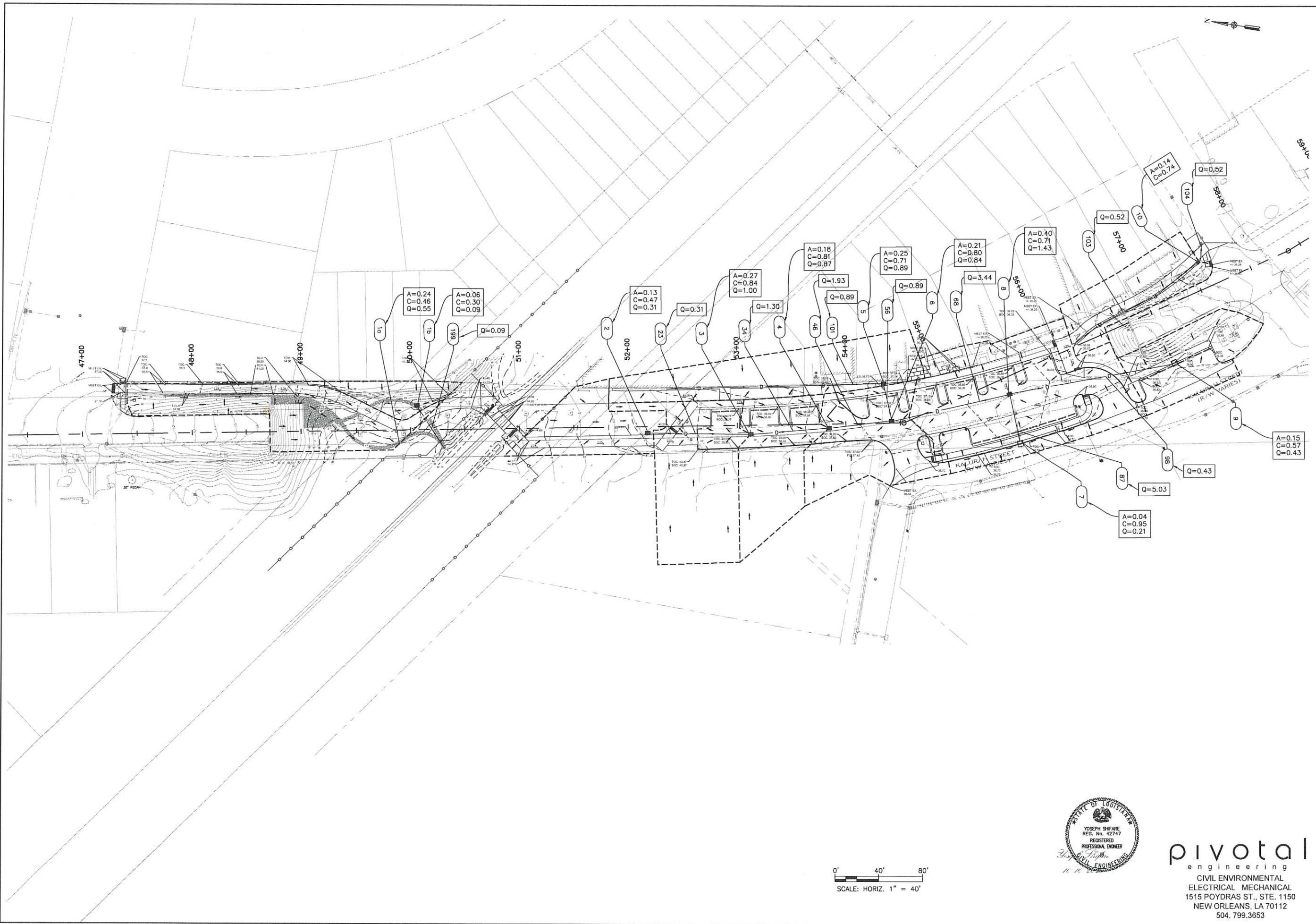
0' 40' 80'  
SCALE: HORIZ. 1" = 40'



**pivotal**  
engineering  
CIVIL ENVIRONMENTAL  
ELECTRICAL MECHANICAL  
1515 POYDRAS ST., STE. 1150  
NEW ORLEANS, LA 70112  
504.799.3653

|                                             |              |                         |            |
|---------------------------------------------|--------------|-------------------------|------------|
| SHEET NUMBER                                |              | C-1                     |            |
| PARISH                                      |              | EAST BATON ROUGE PARISH |            |
| CITY PROJECT                                |              | 23-EN-HC-0037           |            |
| STATE PROJECT                               |              |                         |            |
| DESIGNED Y.S.                               | CHECKED Y.S. | DATE                    | 10/10/2025 |
| DETAILED Y.S.                               | CHECKED Y.S. | DATE                    |            |
| NO.                                         |              | DATE                    |            |
| BY                                          |              | REVISION DESCRIPTION    |            |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |              |                         |            |
| EXISTING DRAINAGE MAP                       |              |                         |            |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |              |                         |            |
| CIVIL ENGINEERING                           |              | CITY OF BATON ROUGE     |            |
| CARBO                                       |              |                         |            |





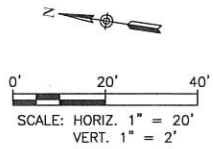
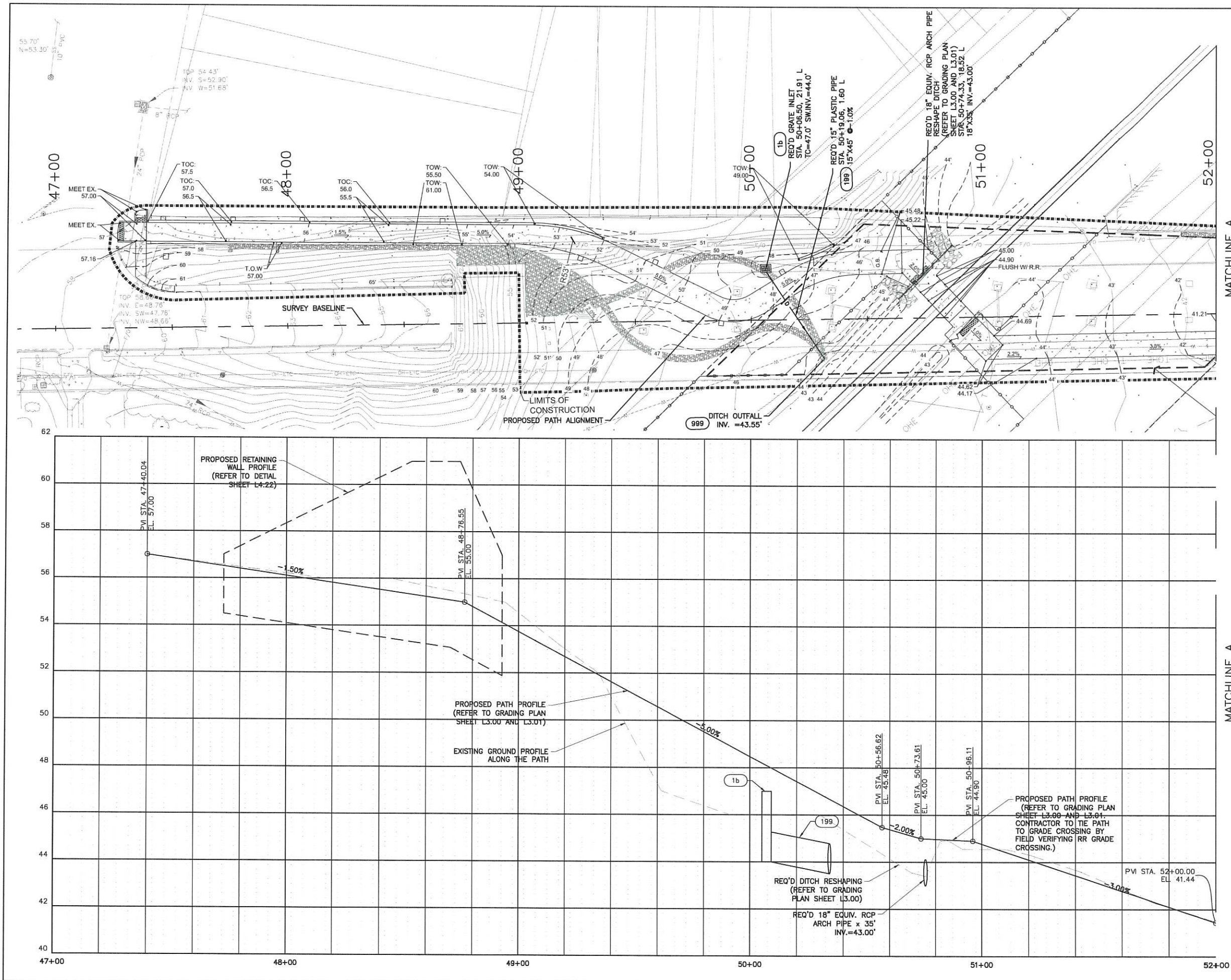
0' 40' 80'  
SCALE: HORIZ. 1" = 40'



**pivotal**  
engineering  
CIVIL ENVIRONMENTAL  
ELECTRICAL MECHANICAL  
1515 POYDRAS ST., STE. 1150  
NEW ORLEANS, LA 70112  
504.799.3653

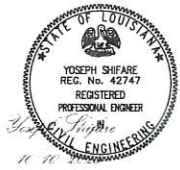
|                                             |  |                         |            |
|---------------------------------------------|--|-------------------------|------------|
| SHEET NUMBER                                |  | C-2                     |            |
| DESIGNED                                    |  | Y.S.                    | Y.S.       |
| CHECKED                                     |  | Y.S.                    | Y.S.       |
| DATE                                        |  | 10/10/2025              | 10/10/2025 |
| BY                                          |  |                         |            |
| REVISION DESCRIPTION                        |  |                         |            |
| NO.                                         |  |                         |            |
| DATE                                        |  |                         |            |
| PARISH                                      |  | EAST BATON ROUGE PARISH |            |
| CITY PROJECT                                |  | 23-EN-HC-0037           |            |
| STATE PROJECT                               |  |                         |            |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |  | PROPOSED DRAINAGE MAP   |            |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |  |                         |            |
| BR                                          |  | CITY OF BATON ROUGE     |            |
| CLAR                                        |  | BIO                     |            |





MATCHLINE A

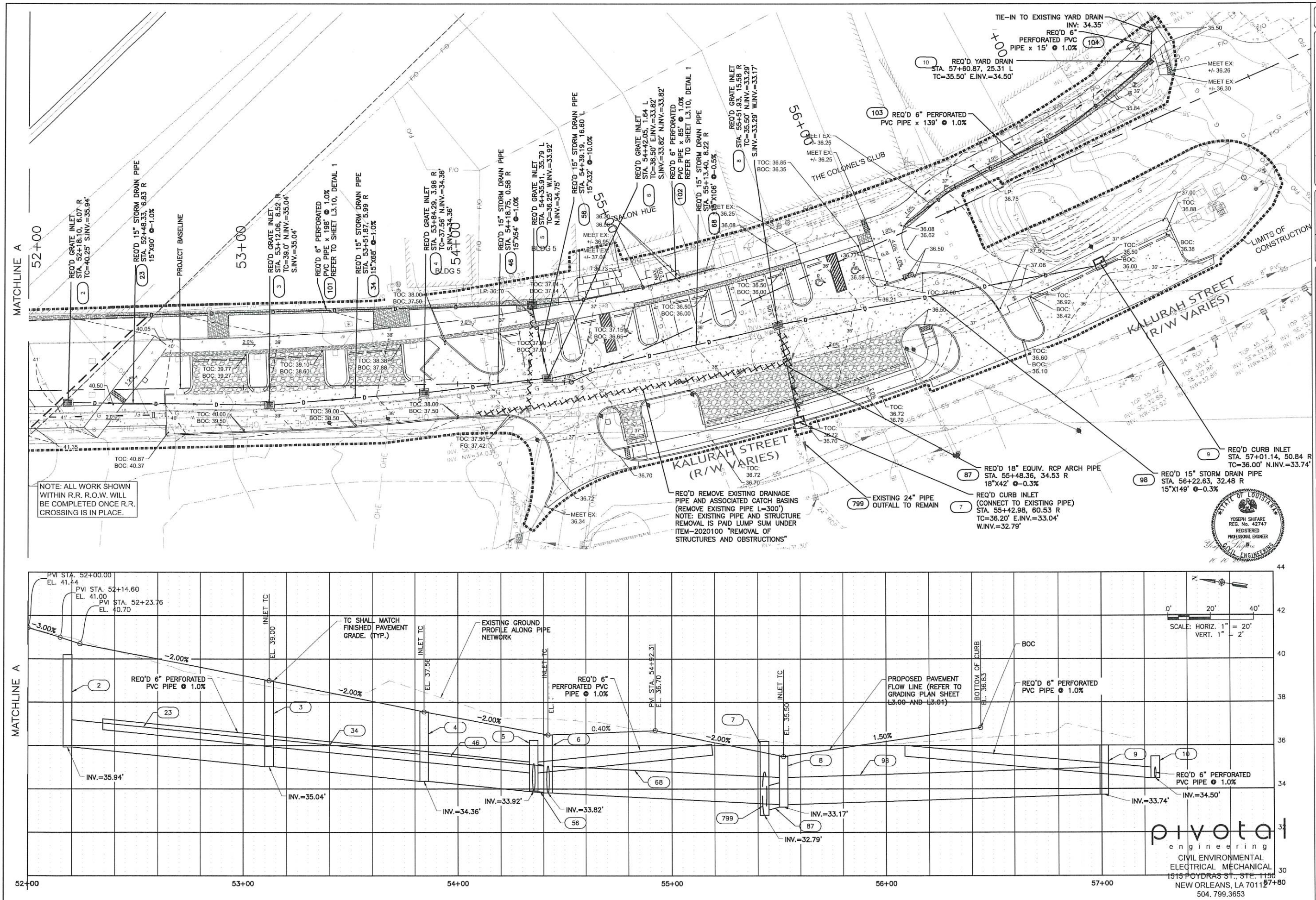
MATCHLINE A



**pivotal**  
engineering  
CIVIL ENVIRONMENTAL  
ELECTRICAL MECHANICAL  
1515 POYDRAS ST., STE. 1150  
NEW ORLEANS, LA 70112  
504.799.3653

|                                             |  |                                    |  |
|---------------------------------------------|--|------------------------------------|--|
| SHEET NUMBER C-3                            |  | EAST BATON ROUGE PARISH            |  |
| DESIGNED Y.S. CHECKED Y.S.                  |  | PARISH                             |  |
| DETAILED Y.S. CHECKED Y.S.                  |  | CITY PROJECT 23-EN-HC-0037         |  |
| DATE 10/10/2025                             |  | STATE PROJECT                      |  |
| BY                                          |  | REVISION DESCRIPTION               |  |
| NO.                                         |  | DATE                               |  |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |  | PROPOSED DRAINAGE IMPROVEMENT PLAN |  |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |  | CITY OF BATON ROUGE                |  |
| CIARBO                                      |  | REGISTERED PROFESSIONAL ENGINEER   |  |

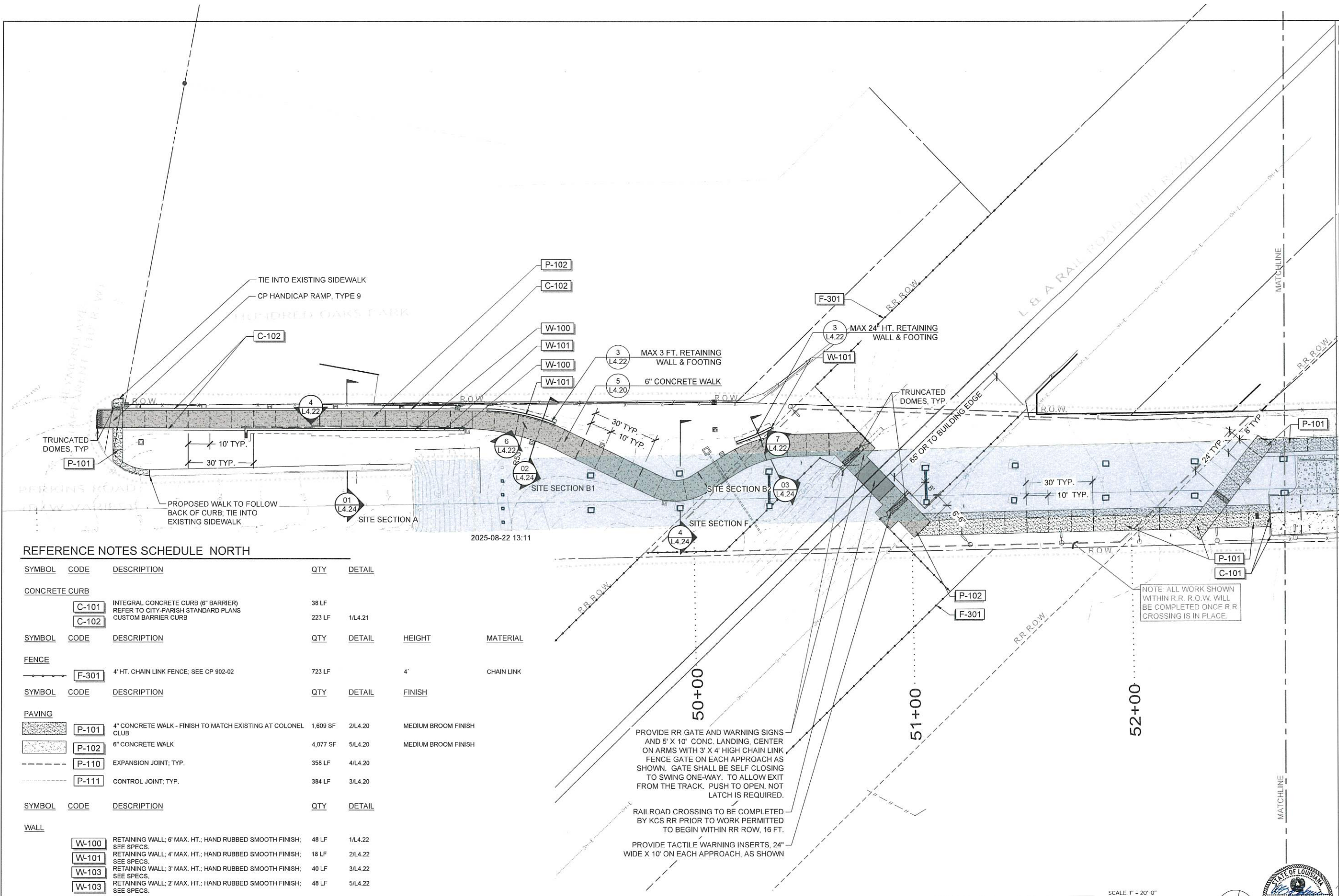




|                                                                                       |                      |               |            |
|---------------------------------------------------------------------------------------|----------------------|---------------|------------|
| SHEET NUMBER                                                                          |                      | C-4           |            |
| EAST BATON ROUGE PARISH                                                               |                      | 23-EN-HC-0037 |            |
| DESIGNED Y.S.                                                                         | CHECKED Y.S.         | DATE          | 10/10/2023 |
| BY                                                                                    | REVISION DESCRIPTION | NO.           | DATE       |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION                                            |                      |               |            |
| PROPOSED DRAINAGE IMPROVEMENT PLAN                                                    |                      |               |            |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS                                           |                      |               |            |
|  |                      |               |            |
| CITY OF BATON ROUGE<br>PARISH OF EAST BATON ROUGE                                     |                      |               |            |
|  |                      |               |            |

**pivotal**  
engineering  
CIVIL ENVIRONMENTAL  
ELECTRICAL MECHANICAL  
1515 POYDRAS ST., STE. 1150  
NEW ORLEANS, LA 70112  
504.799.3653





REFERENCE NOTES SCHEDULE NORTH

| <u>SYMBOL</u>                                                                       | <u>CODE</u> | <u>DESCRIPTION</u>                                                    | <u>QTY</u> | <u>DETAIL</u> |                     |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------|------------|---------------|---------------------|
| <u>CONCRETE CURB</u>                                                                |             |                                                                       |            |               |                     |
|  | C-101       | INTEGRAL CONCRETE CURB (6" BARRIER)                                   | 38 LF      |               |                     |
|  | C-102       | REFER TO CITY-PARISH STANDARD PLANS<br>CUSTOM BARRIER CURB            | 223 LF     | 1/L4.21       |                     |
| <u>SYMBOL</u>                                                                       | <u>CODE</u> | <u>DESCRIPTION</u>                                                    | <u>QTY</u> | <u>DETAIL</u> | <u>HEIGHT</u>       |
| <u>FENCE</u>                                                                        |             |                                                                       |            |               |                     |
|  | F-301       | 4' HT. CHAIN LINK FENCE; SEE CP 902-02                                | 723 LF     |               | 4'                  |
| <u>SYMBOL</u>                                                                       | <u>CODE</u> | <u>DESCRIPTION</u>                                                    | <u>QTY</u> | <u>DETAIL</u> | <u>FINISH</u>       |
| <u>PAVING</u>                                                                       |             |                                                                       |            |               |                     |
|  | P-101       | 4" CONCRETE WALK - FINISH TO MATCH EXISTING AT COLONEL CLUB           | 1,609 SF   | 2/L4.20       | MEDIUM BROOM FINISH |
|  | P-102       | 6" CONCRETE WALK                                                      | 4,077 SF   | 5/L4.20       | MEDIUM BROOM FINISH |
|  | P-110       | EXPANSION JOINT; TYP.                                                 | 358 LF     | 4/L4.20       |                     |
|  | P-111       | CONTROL JOINT; TYP.                                                   | 384 LF     | 3/L4.20       |                     |
| <u>SYMBOL</u>                                                                       | <u>CODE</u> | <u>DESCRIPTION</u>                                                    | <u>QTY</u> | <u>DETAIL</u> |                     |
| <u>WALL</u>                                                                         |             |                                                                       |            |               |                     |
|  | W-100       | RETAINING WALL; 6' MAX. HT.; HAND RUBBED SMOOTH FINISH;<br>SEE SPECS. | 48 LF      | 1/L4.22       |                     |
|  | W-101       | RETAINING WALL; 4' MAX. HT.; HAND RUBBED SMOOTH FINISH;<br>SEE SPECS. | 18 LF      | 2/L4.22       |                     |
|  | W-103       | RETAINING WALL; 3' MAX. HT.; HAND RUBBED SMOOTH FINISH;<br>SEE SPECS. | 40 LF      | 3/L4.22       |                     |
|  | W-103       | RETAINING WALL; 2' MAX. HT.; HAND RUBBED SMOOTH FINISH;<br>SEE SPECS. | 48 LF      | 5/L4.22       |                     |

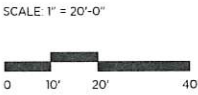
PROVIDE RR GATE AND WARNING SIGNS AND 5' X 10' CONC. LANDING, CENTER ON ARMS WITH 3' X 4' HIGH CHAIN LINK FENCE GATE ON EACH APPROACH AS SHOWN. GATE SHALL BE SELF CLOSING TO SWING ONE-WAY. TO ALLOW EXIT FROM THE TRACK. PUSH TO OPEN. NOT LATCH IS REQUIRED.

RAILROAD CROSSING TO BE COMPLETED BY KCS RR PRIOR TO WORK PERMITTED TO BEGIN WITHIN RR ROW, 16 FT.

PROVIDE TACTILE WARNING INSERTS, 24" WIDE X 10' ON EACH APPROACH, AS SHOWN

NOTE ALL WORK SHOWN WITHIN R.R. R.O.W. WILL BE COMPLETED ONCE R.R. CROSSING IS IN PLACE.

The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.



100% FINAL PLANS - ISSUED FOR CONSTRUCTION

HARDSCAPE & JOINT PLAN-NORTH

PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS

BR

CITY OF BATON ROUGE

PARISH OF EAST BATON ROUGE

CLARBO

|              |                         |       |            |
|--------------|-------------------------|-------|------------|
| DESIGNED     | CHECKED                 | DATE  | BY         |
|              |                         |       |            |
| DETAILED     | CHECKED                 | DATE  | BY         |
|              |                         |       |            |
| PROJECT      | 23-EN-HC-0037           | STATE | PROJECT    |
| PARISH       | EAST BATON ROUGE PARISH | DATE  | 10/10/2025 |
| SHEET        | 10/10/2025              | DATE  | 10/10/2025 |
| SHEET NUMBER | L4.00                   |       |            |











STRIPING SCHEDULE SOUTH

| SYMBOL                                                                            | DESCRIPTION                                                                          | QTY   |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------|
|  | NS COLORED SURFACE TREATMENT (BIKE LANES), GREEN - ASTM E-303 TESTED SLIP RESISTANCE | 73 SY |

THERMAPLASTIC TRAFFIC STRIPING

|                                                                                   |                                                                                                                                          |       |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------|
|  | CENTER LANE MARKING FOR SHARED-USE PATHS, 4" WIDTH, YELLOW- ASTM E-303 TESTED SLIP RESISTANCE                                            | 36 LF |
|  | TWELVE (12) INCH WIDE THERMOPLASTIC REFLECTIVE STRIPING (125 MIL), WHITE; REFER TO MUTCD FIGURE 3C-1 - ASTM E-303 TESTED SLIP RESISTANCE | 84 LF |
|  | TWELVE (12) INCH WIDE THERMOPLASTIC REFLECTIVE STRIPING (125 MIL), WHITE - ASTM E-303 TESTED SLIP RESISTANCE                             | 44 LF |

THERMAPLASTIC LEGENDS AND SYMBOLS

|                                                                                   |                                                                                                    |      |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------|
|  | SHARED LANE MARKER, WHITE, REFER TO MUTCD FIGURE 9C-9 - ASTM E-303 TESTED SLIP RESISTANCE          | 4 EA |
|  | PLASTIC LEGENDS AND SYMBOLS (CYCLIST RIGHT TURN SYMBOL), WHITE - ASTM E-303 TESTED SLIP RESISTANCE | 1 EA |
|  | PLASTIC LEGENDS AND SYMBOLS (CYCLIST LEFT TURN SYMBOL), WHITE - ASTM E-303 TESTED SLIP RESISTANCE  | 1 EA |
|  | YIELD LINE, WHITE, REFER TO MUTCD FIGURE 3B-16, WHITE - ASTM E-303 TESTED SLIP RESISTANCE          | 2 EA |

| SYMBOL                                                                             | DESCRIPTION                                | QTY    |
|------------------------------------------------------------------------------------|--------------------------------------------|--------|
|  | PAINTED TRAFFIC STRIPING                   |        |
|  | PAINTED TRAFFIC STRIPING (4" WIDTH), WHITE | 608 LF |

PAINTED LEGENDS AND SYMBOLS

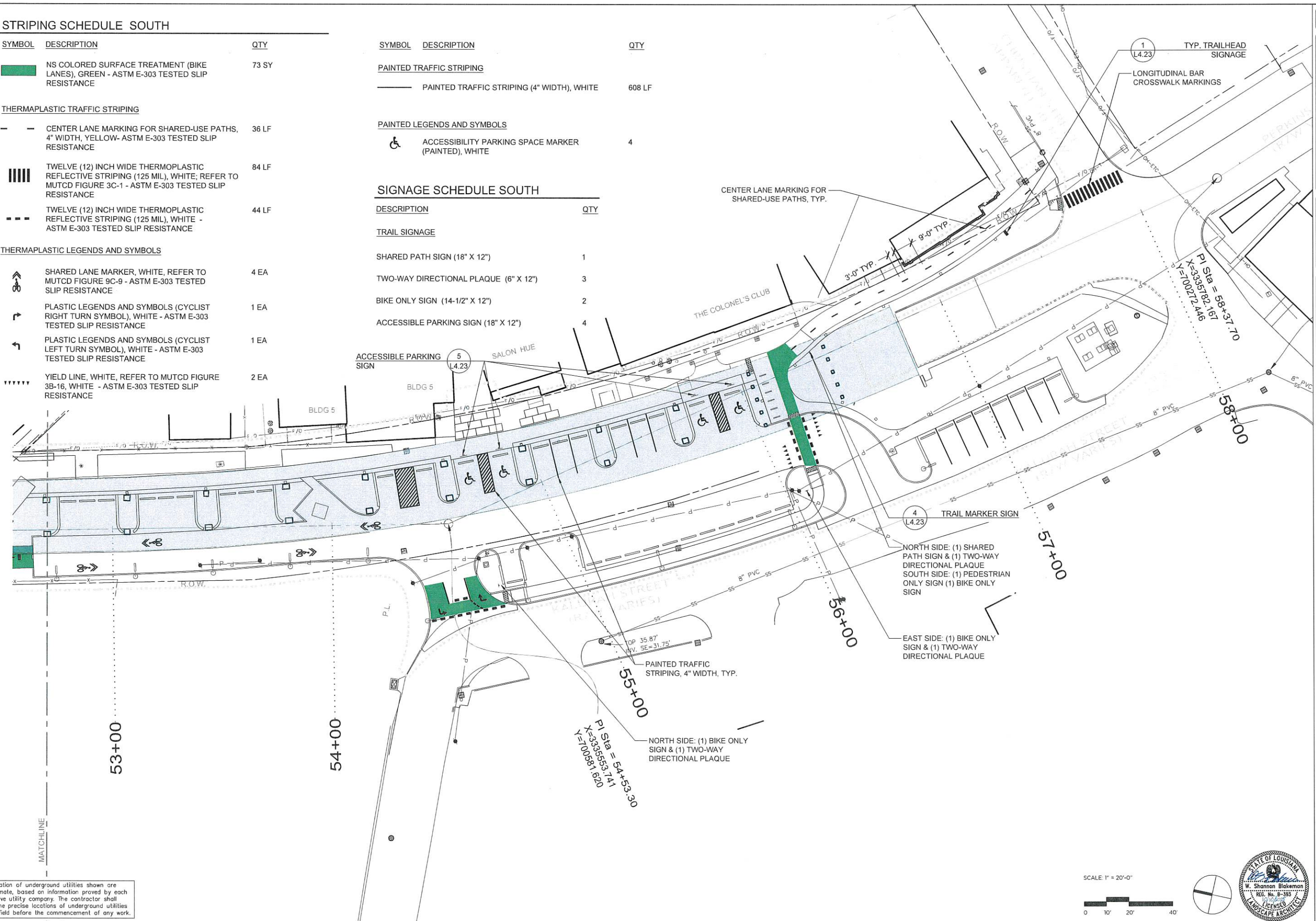
|                                                                                    |                                                     |   |
|------------------------------------------------------------------------------------|-----------------------------------------------------|---|
|  | ACCESSIBILITY PARKING SPACE MARKER (PAINTED), WHITE | 4 |
|------------------------------------------------------------------------------------|-----------------------------------------------------|---|

SIGNAGE SCHEDULE SOUTH

| DESCRIPTION | QTY |
|-------------|-----|
|-------------|-----|

TRAIL SIGNAGE

|                                       |   |
|---------------------------------------|---|
| SHARED PATH SIGN (18" X 12")          | 1 |
| TWO-WAY DIRECTIONAL PLAQUE (6" X 12") | 3 |
| BIKE ONLY SIGN (14-1/2" X 12")        | 2 |
| ACCESSIBLE PARKING SIGN (18" X 12")   | 4 |



The location of underground utilities shown are approximate, based on information provided by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.

SHEET NUMBER

L4.11

EAST BATON ROUGE PARISH

23-EN-HC-0037

DESIGNED

CHECKED

DATE

10/10/2025

BY

NO.

REVISION DESCRIPTION



100% FINAL PLANS - ISSUED FOR CONSTRUCTION

SIGNAGE AND STRIPING LAYOUT PLAN-SOUTH

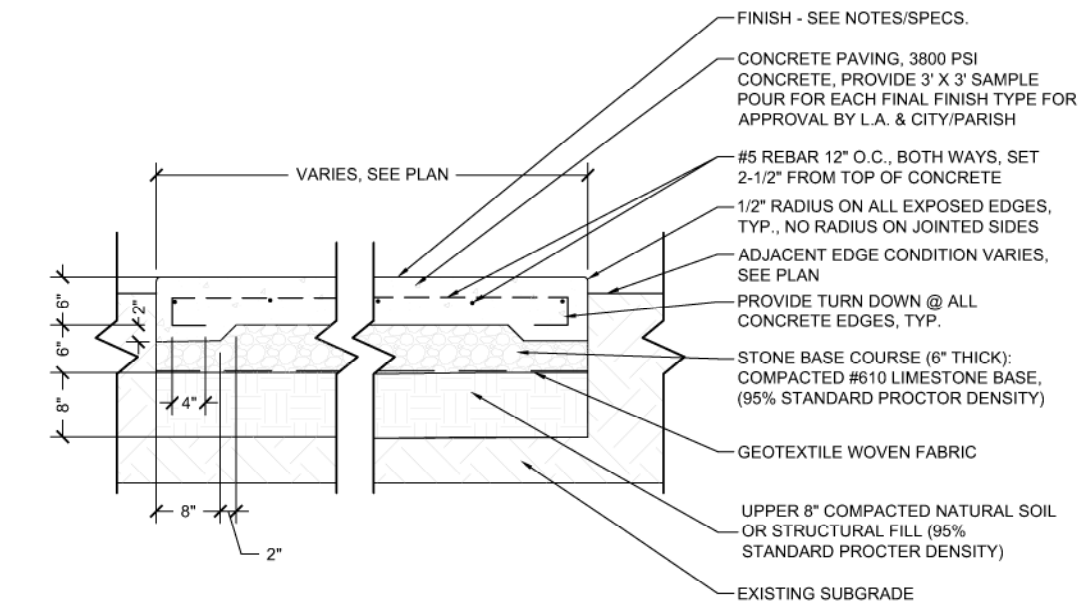
PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS

  
CITY OF BATON ROUGE  
PARISH OF EAST BATON ROUGE

  
W. Shannon Blakeman  
REG. NO. 8-355  
LICENSED LANDSCAPE ARCHITECT

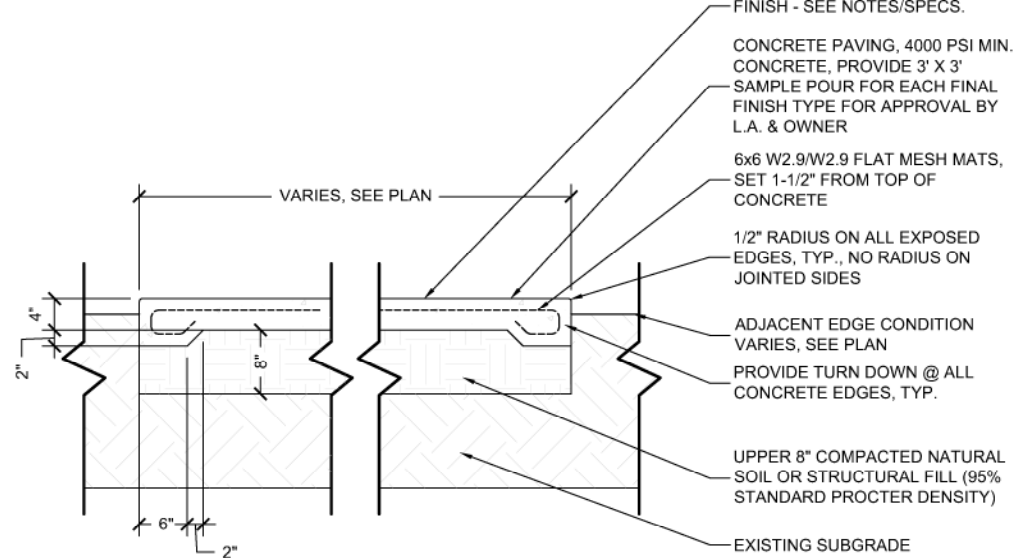






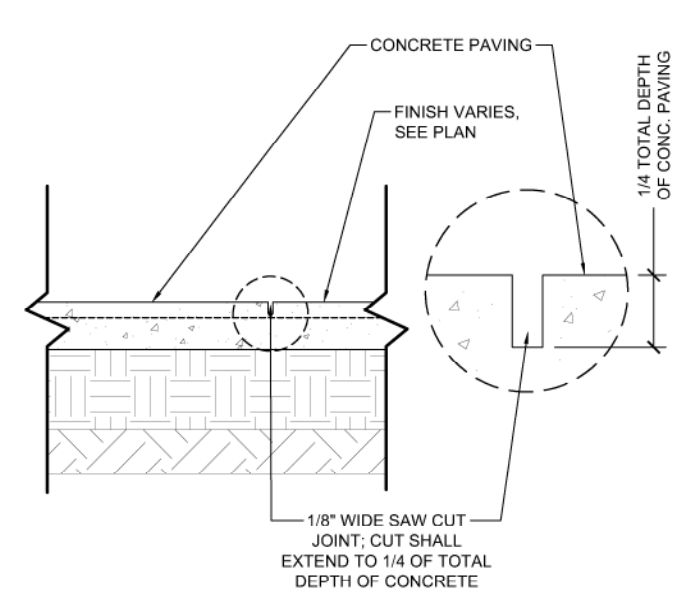
**1** 6" CONCRETE DRIVE

SCALE: 1" = 1'-0"



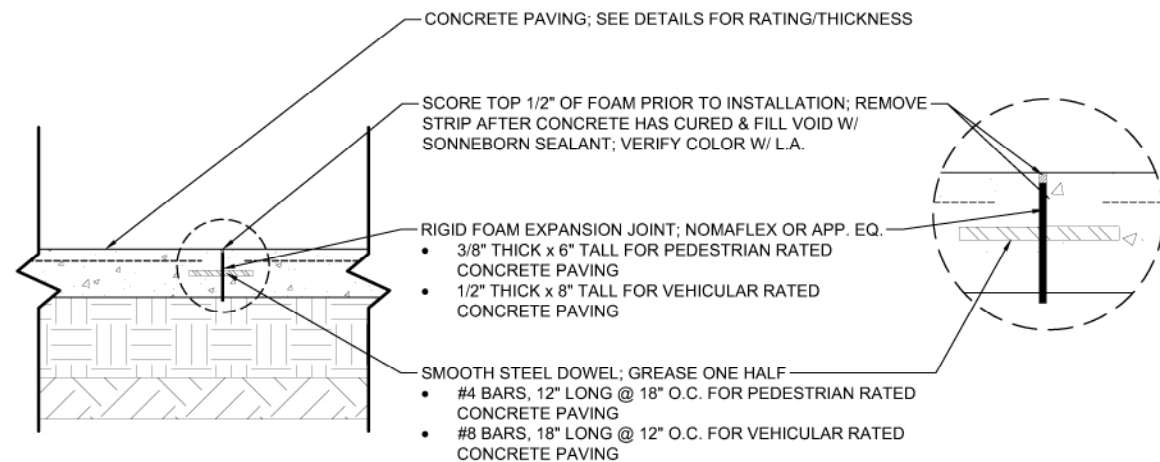
**2** PEDESTRIAN-RATED CONCRETE PAVING

SCALE: 1" = 1'-0"



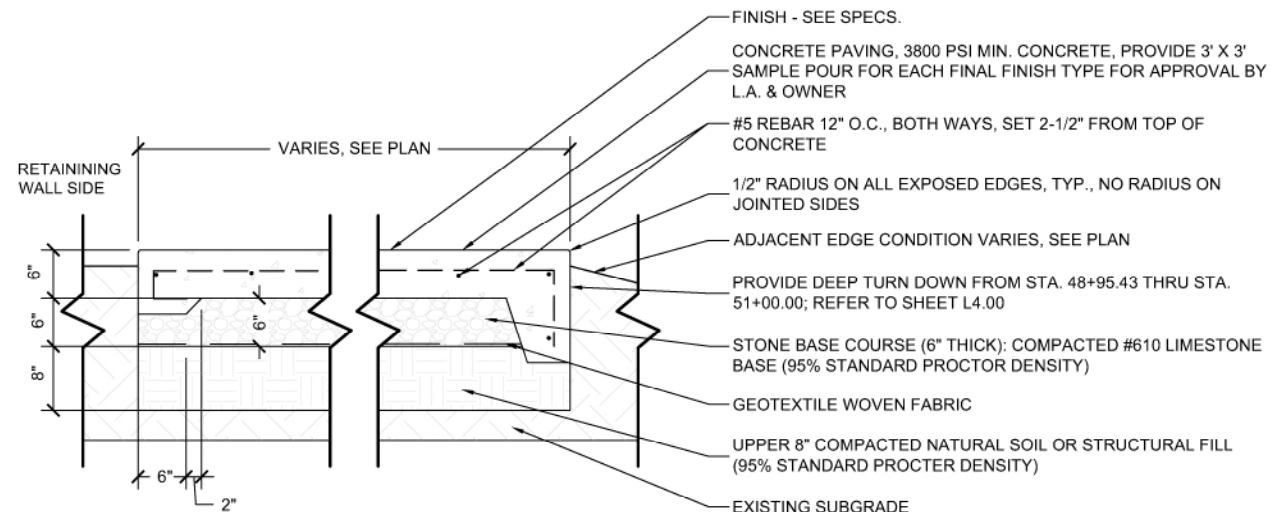
**3** CONTROL JOINT - TYPICAL DETAIL

SCALE: 1" = 1'-0"



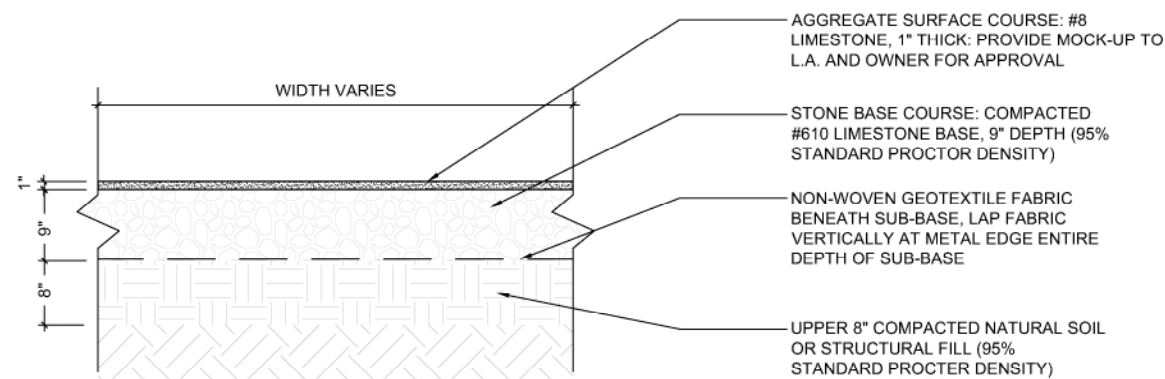
**4** EXPANSION JOINT - TYPICAL DETAIL

SCALE: 1" = 1'-0"



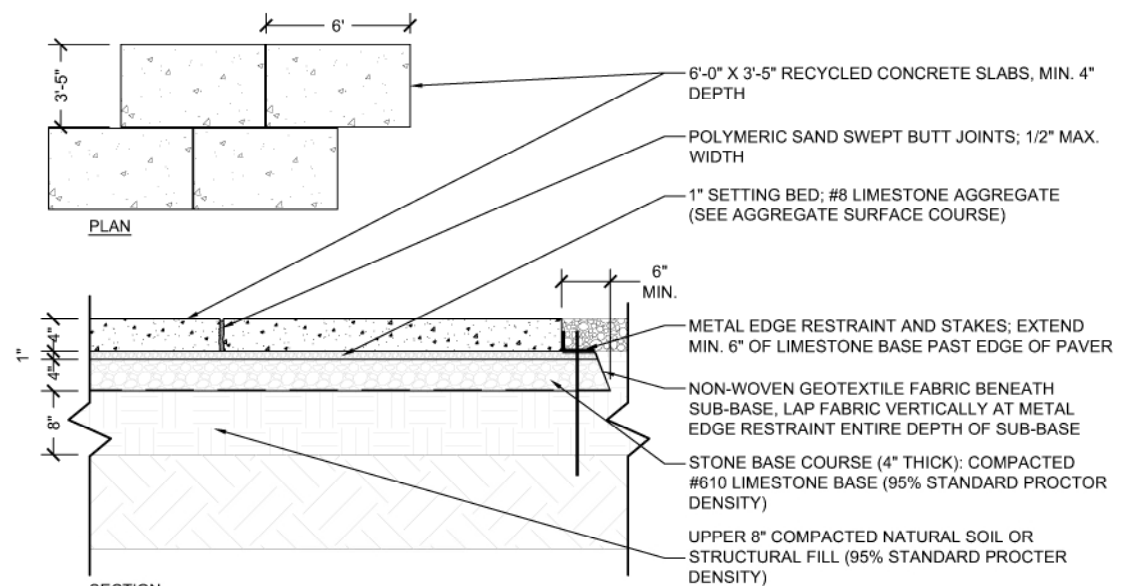
**5** 6" CONCRETE WALK

SCALE: 1" = 1'-0"



**6** GRAVEL PARKING, TYP. SECTION

SCALE: 1" = 1'-0"



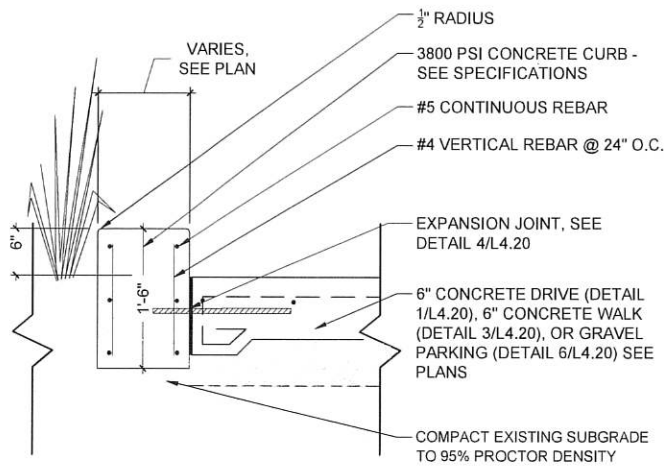
**7** RECYCLED CONCRETE PAVERS FROM ON-SITE DEMOLITION

SCALE: 1" = 1'-0"

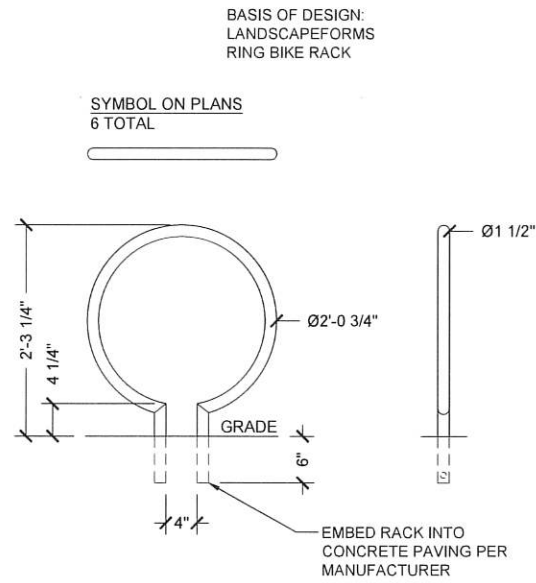
- NOTES:
- FOR SCHEDULE SEE SHEETS L4.00, L4.01, L4.10, & L4.11
  - REINFORCING STEEL IS INCIDENTAL TO CONCRETE WALKS AND DRIVE PAV ITEMS.
  - ~~SETTING BED AND COMPACTED LIMESTONE IS INCIDENTAL TO CONCRETE WALKS AND DRIVE PAV ITEMS.~~



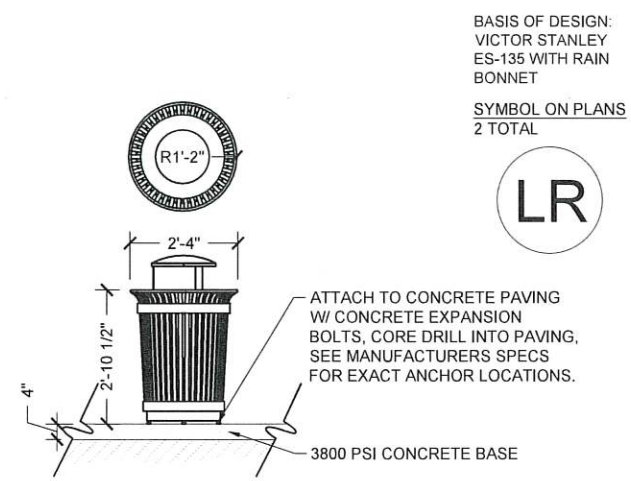




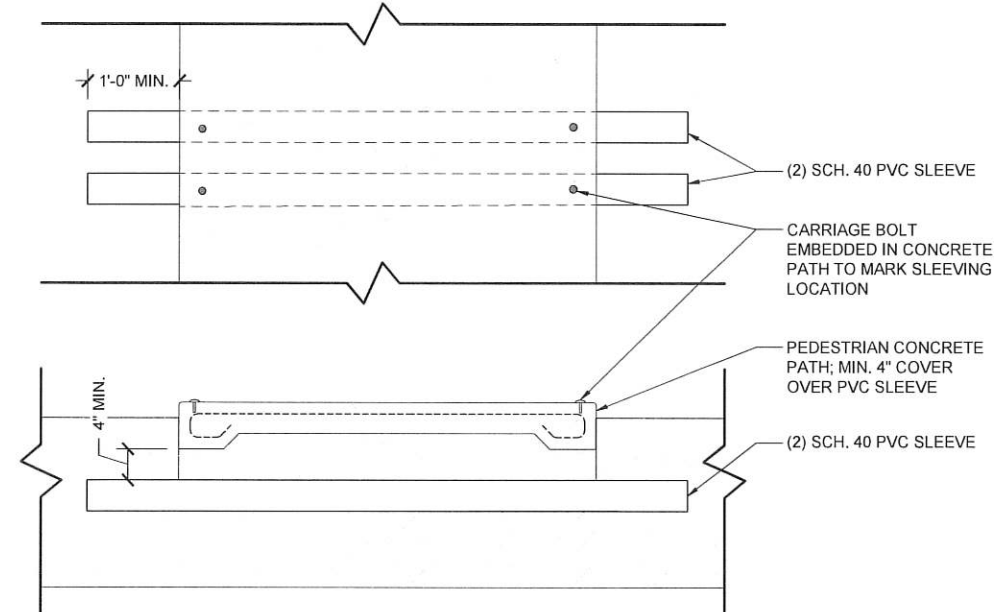
**1** CUSTOM BARRIER CURB  
SCALE: 1" = 1'-0"



**2** RING BIKE RACK  
SCALE: 1" = 1'-0"



**3** LITTER RECEPTACLE MOUNT DETAIL  
SCALE: 1/2" = 1'-0"

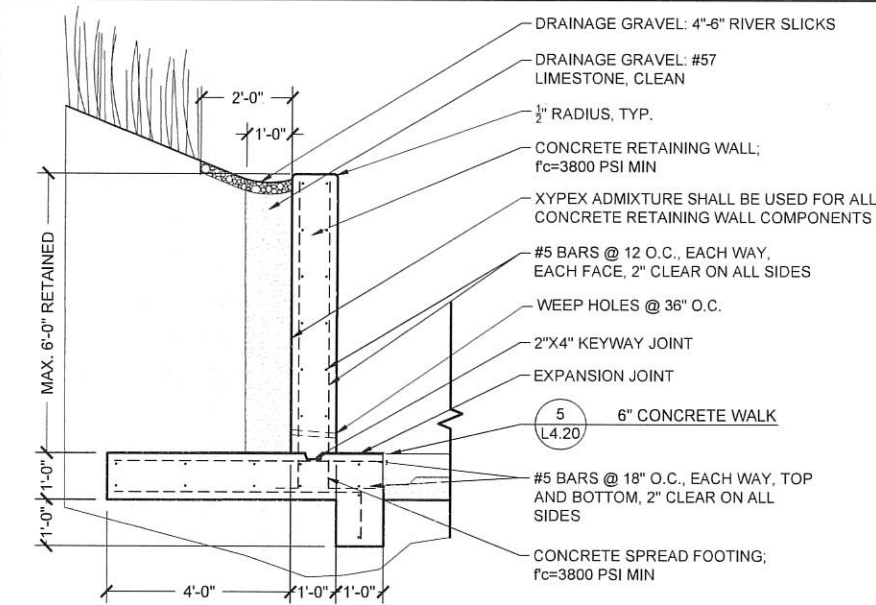


**4** TYP. SLEEVE DETAIL  
SCALE: 1" = 1'-0"

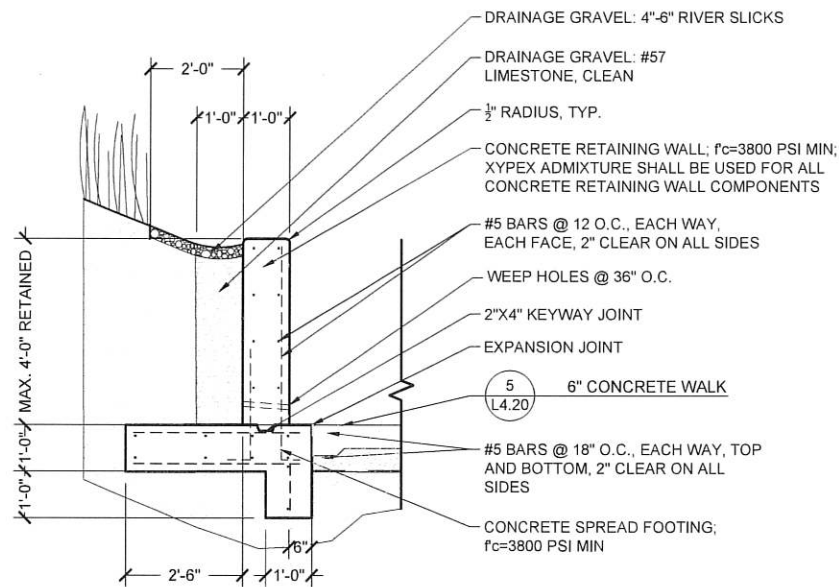
|                                             |                         |
|---------------------------------------------|-------------------------|
| SHEET NUMBER                                | L 4.21                  |
| PARISH                                      | EAST BATON ROUGE PARISH |
| CITY PROJECT                                | 23-EN-HC-0037           |
| STATE PROJECT                               |                         |
| DESIGNED                                    | CHECKED                 |
| DATE                                        | 10/10/2025              |
| BY                                          |                         |
| NO.                                         |                         |
| DATE                                        |                         |
| REVISION DESCRIPTION                        |                         |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |                         |
| CURB AND WALL DETAILS                       |                         |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |                         |
| BR                                          |                         |
| CITY OF BATON ROUGE                         |                         |
| W. Shannon Blakeman                         |                         |
| REG. No. B-383                              |                         |
| LICENSED LANDSCAPE ARCHITECT                |                         |
| CIARBO                                      |                         |



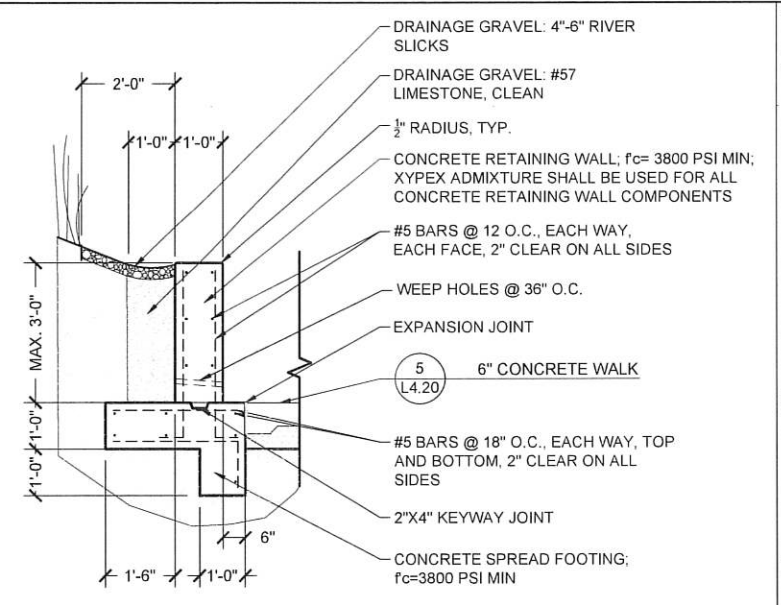




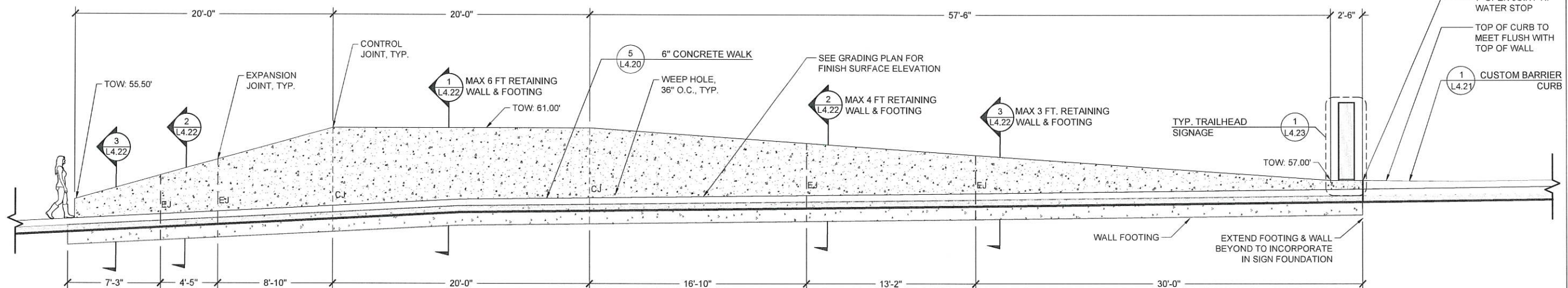
**1** MAX 6 FT RETAINING WALL & FOOTING  
SCALE: 1/2" = 1'-0"



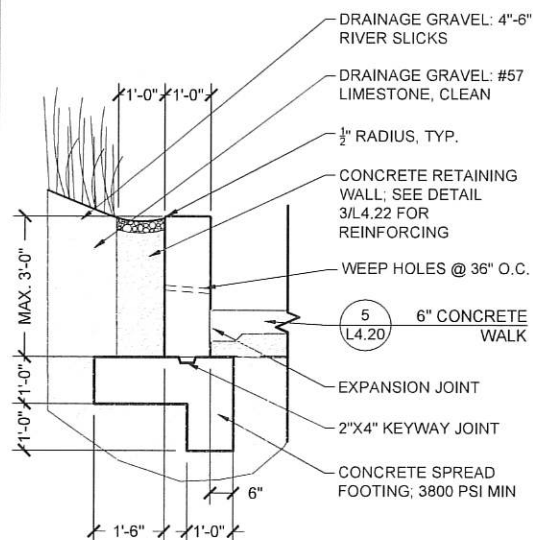
**2** MAX 4 FT RETAINING WALL & FOOTING  
SCALE: 1/2" = 1'-0"



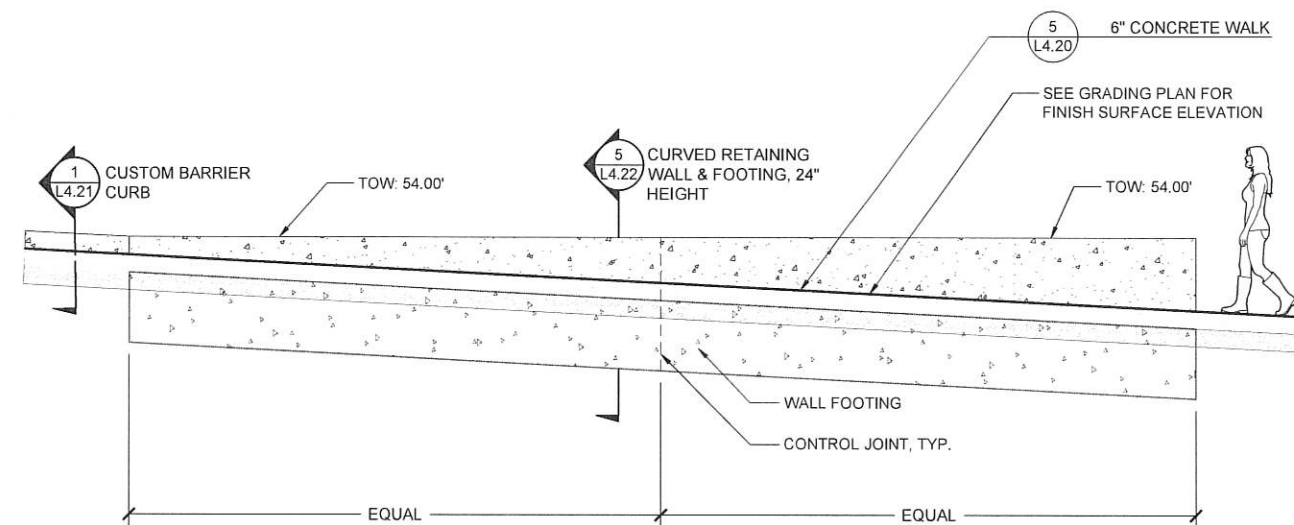
**3** MAX 3 FT. RETAINING WALL & FOOTING  
SCALE: 1/2" = 1'-0"



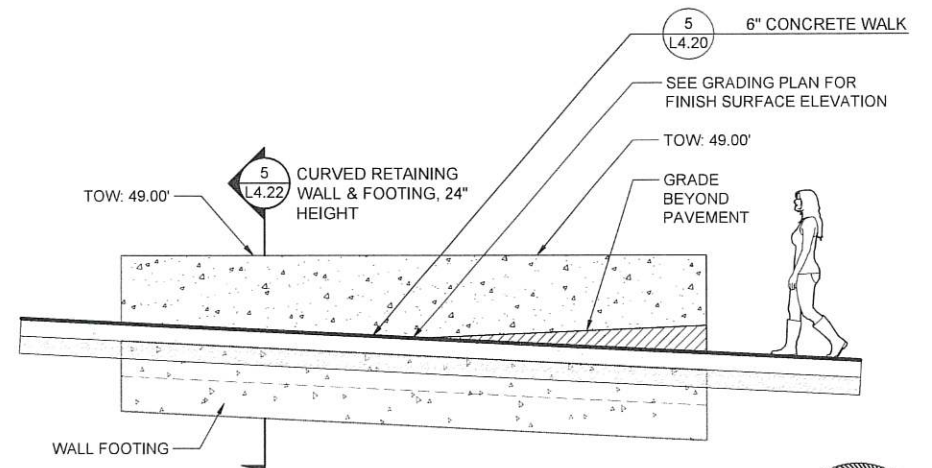
**4** WALL ELEVATION A  
SCALE: 1/4" = 1'-0"



**5** CURVED RETAINING WALL & FOOTING, 24" HEIGHT  
SCALE: 1/2" = 1'-0"



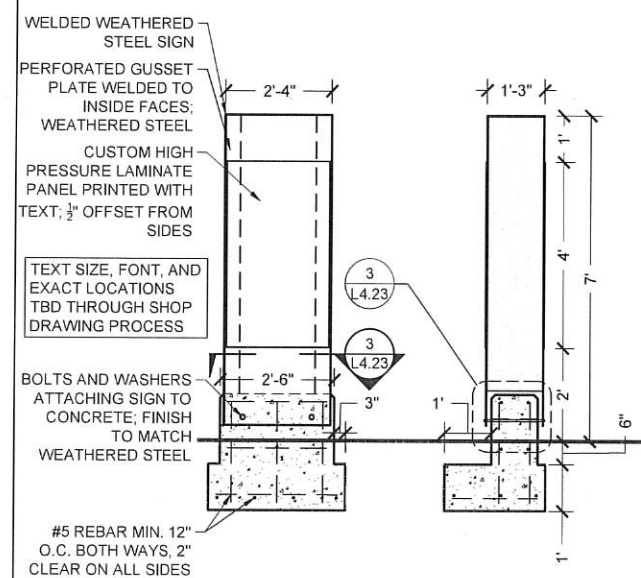
**6** WALL ELEVATION B  
SCALE: 3/8" = 1'-0"



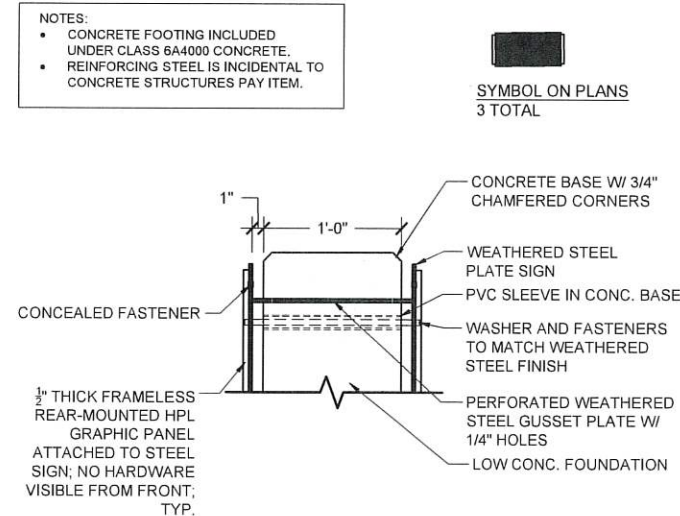
**7** WALL ELEVATION C  
SCALE: 3/8" = 1'-0"

|                                                                                                                  |  |                         |  |
|------------------------------------------------------------------------------------------------------------------|--|-------------------------|--|
| SHEET NUMBER                                                                                                     |  | L4.22                   |  |
| PARISH                                                                                                           |  | EAST BATON ROUGE PARISH |  |
| CITY                                                                                                             |  | BATON ROUGE             |  |
| PROJECT                                                                                                          |  | 23-EN-HC-0037           |  |
| DATE                                                                                                             |  | 10/10/2025              |  |
| BY                                                                                                               |  |                         |  |
| NO.                                                                                                              |  |                         |  |
| DATE                                                                                                             |  |                         |  |
| REVISION DESCRIPTION                                                                                             |  |                         |  |
|                                                                                                                  |  |                         |  |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION<br>METAL GRATE DETAILS<br>PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |  |                         |  |
|                                                                                                                  |  |                         |  |
|                                                                                                                  |  |                         |  |

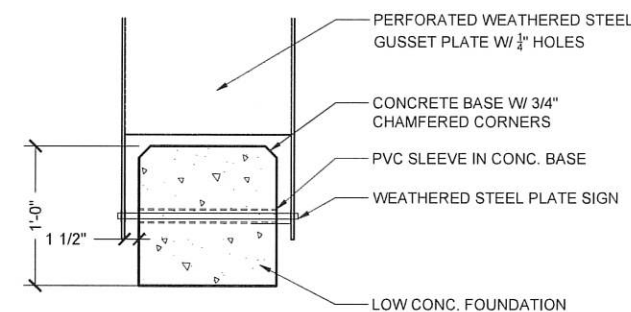




**1** TYP. TRAILHEAD SIGNAGE  
SCALE: 1/2" = 1'-0"



**2** TYP. ANCHOR PLAN DETAIL  
SCALE: 1 1/2" = 1'-0"



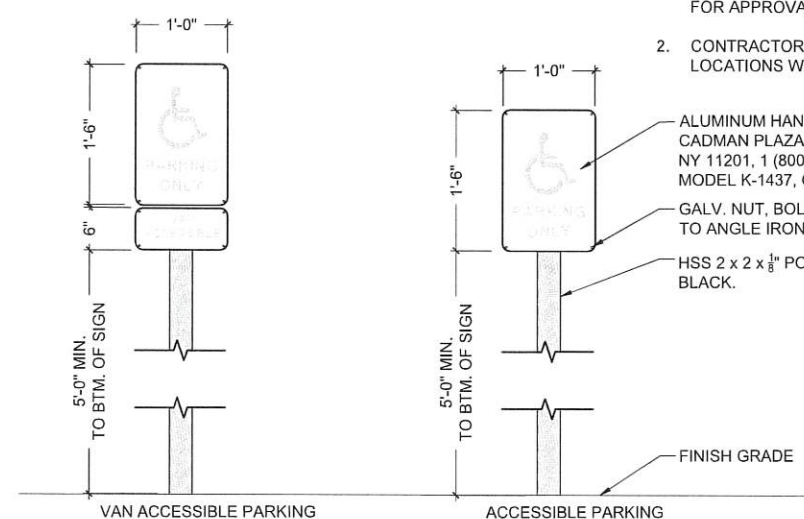
**3** TYP. ANCHORED FOUNDATION ATTACH.  
SCALE: 1 1/2" = 1'-0"

SYMBOL ON PLANS  
4 TOTAL

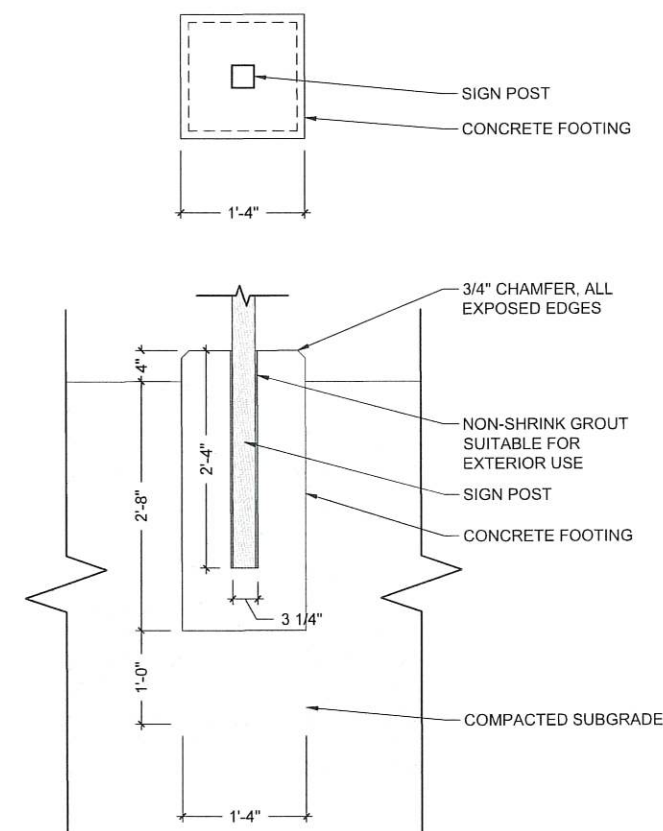
NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS DETAILING SIGN COLOR, FINISH, AND TEXT FOR APPROVAL BY LANDSCAPE ARCHITECT.
2. CONTRACTOR TO FIELD VERIFY SIGN LOCATIONS WITH LANDSCAPE ARCHITECT.

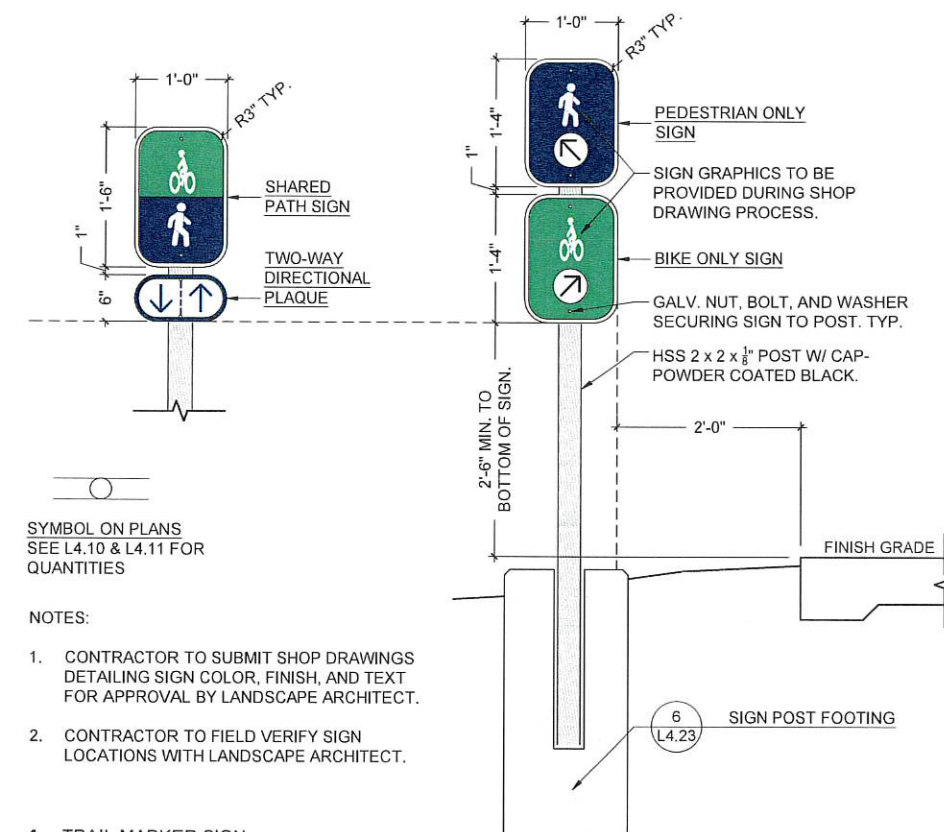
ALUMINUM HANDICAP PARKING SIGN, 300 CADMAN PLAZA WEST, SUITE 1303, BROOKLYN NY 11201, 1 (800) 952 1457 BY MY PARKING SIGN-MODEL K-1437, OR APPROVED EQUAL  
GALV. NUT, BOLT, AND WASHER SECURING SIGN TO ANGLE IRON FRAME- SEE FRAME SECTION  
HSS 2 x 2 x 1/8" POST W/ CAP- POWDER COATED BLACK.



**5** ACCESSIBLE PARKING SIGN  
SCALE: 1" = 1'-0"



**6** SIGN POST FOOTING  
SCALE: 1" = 1'-0"



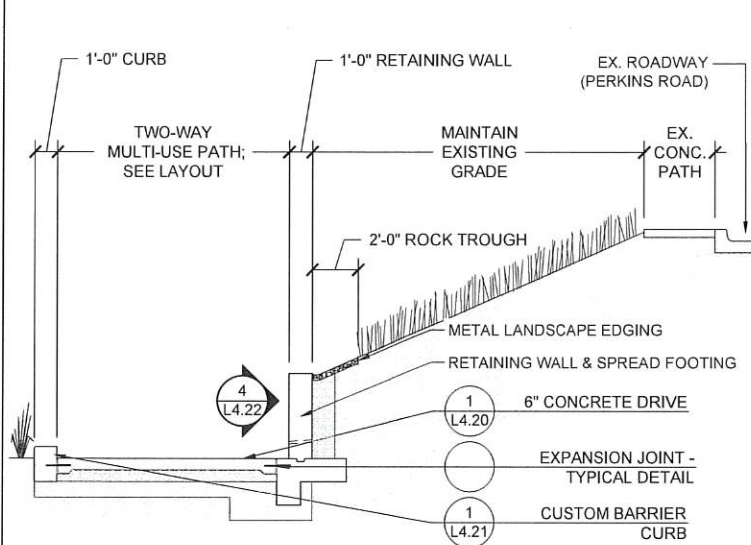
**4** TRAIL MARKER SIGN  
SCALE: 1" = 1'-0"

SYMBOL ON PLANS  
SEE L4.10 & L4.11 FOR  
QUANTITIES

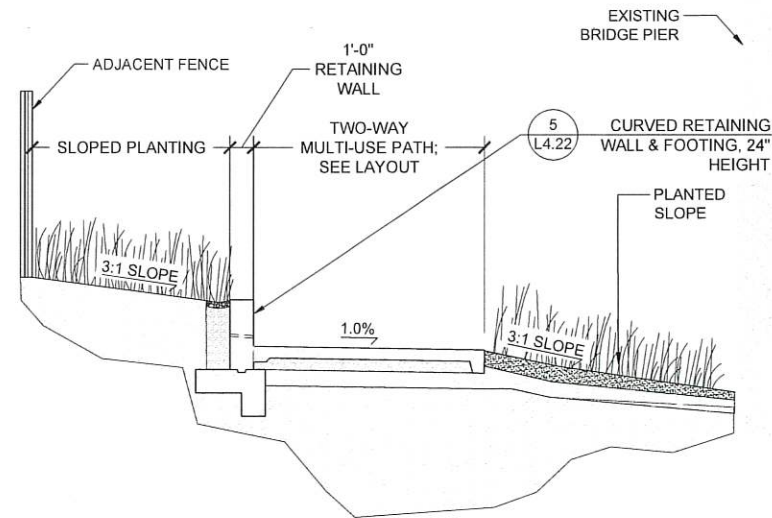
NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS DETAILING SIGN COLOR, FINISH, AND TEXT FOR APPROVAL BY LANDSCAPE ARCHITECT.
2. CONTRACTOR TO FIELD VERIFY SIGN LOCATIONS WITH LANDSCAPE ARCHITECT.

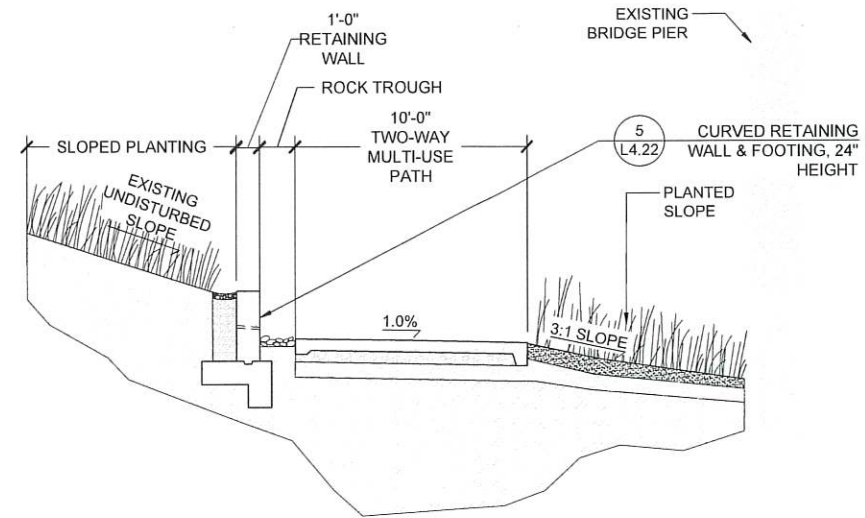




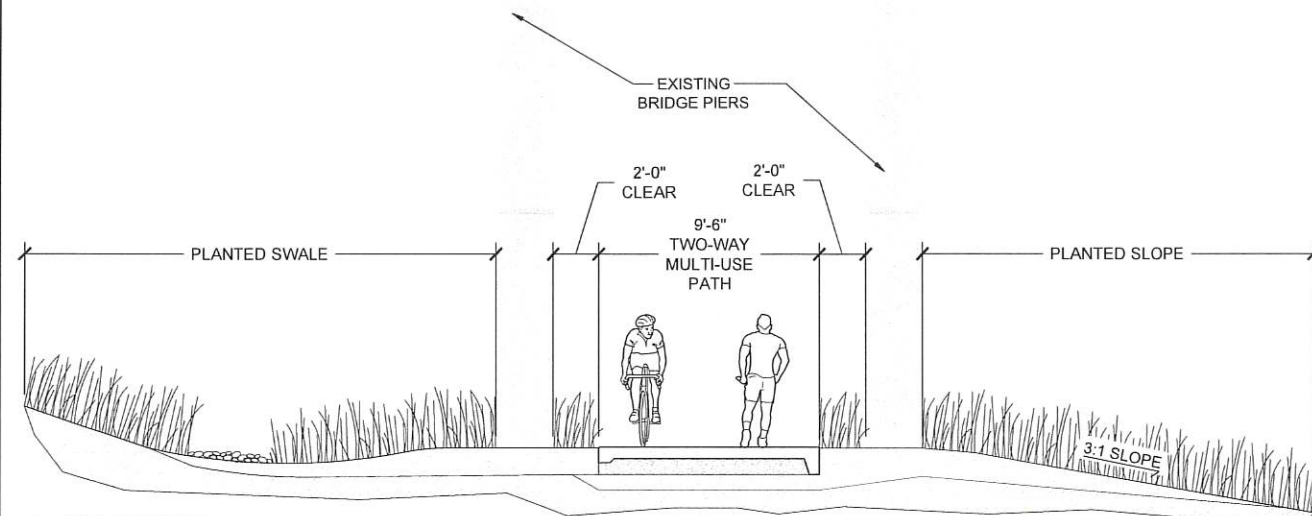
**1** SITE SECTION A  
SCALE: 1/4" = 1'-0"



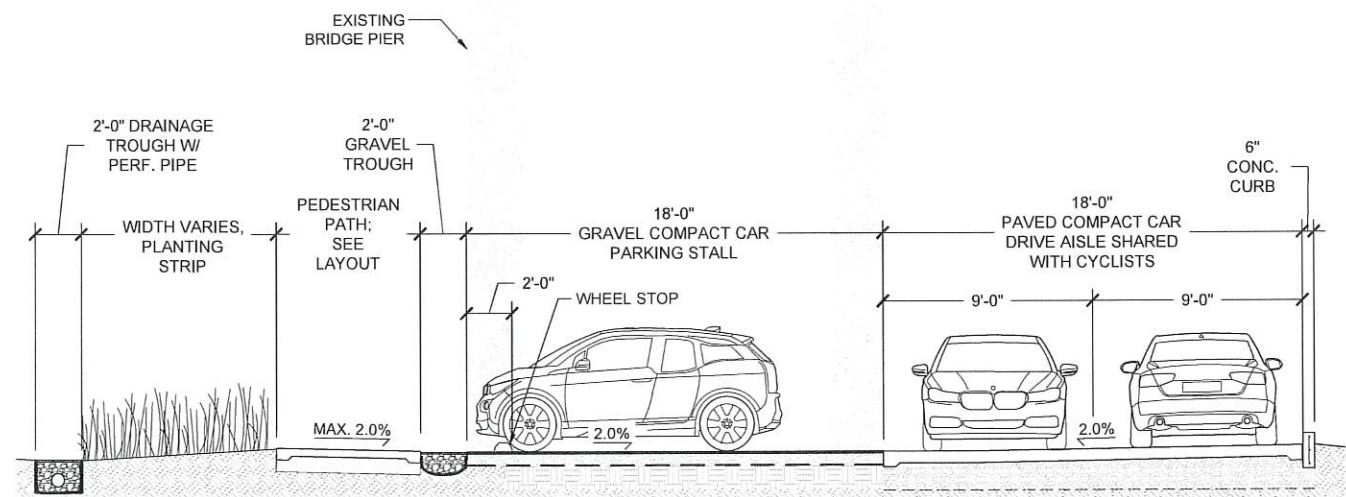
**2** SITE SECTION B1  
SCALE: 1/4" = 1'-0"



**3** SITE SECTION B2  
SCALE: 1/4" = 1'-0"

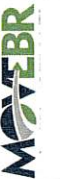


**4** SITE SECTION F  
SCALE: 1/4" = 1'-0"



**5** SITE SECTION C  
SCALE: 1/4" = 1'-0"

|                      |                  |
|----------------------|------------------|
| SHEET NUMBER         | L4.24            |
| PARISH               | EAST BATON ROUGE |
| CITY PROJECT         | 23-EN-HC-0037    |
| STATE PROJECT        |                  |
| DESIGNED             |                  |
| CHECKED              |                  |
| DATE                 | 10/10/2025       |
| BY                   |                  |
| REVISION DESCRIPTION |                  |
| NO.                  |                  |
| DATE                 |                  |



100% FINAL PLANS - ISSUED FOR CONSTRUCTION

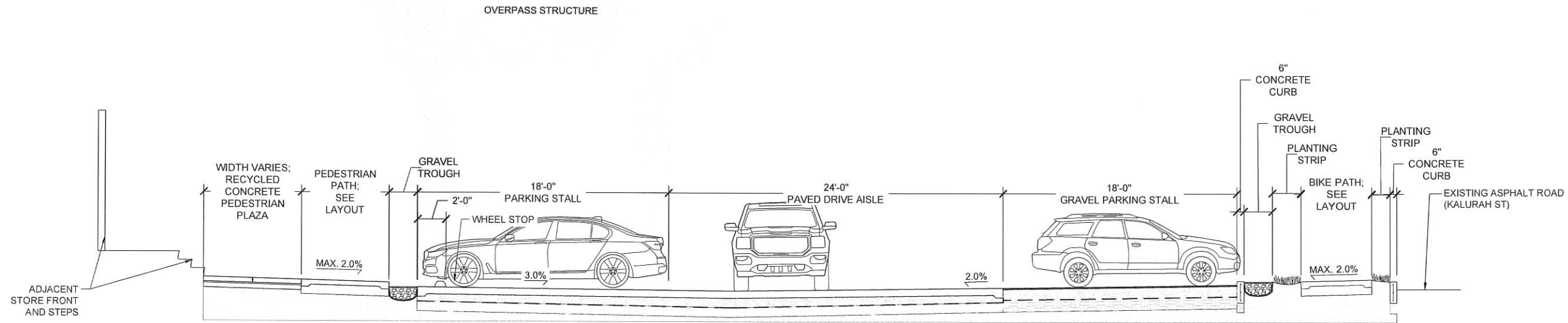
SITE SECTIONS 1

PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS

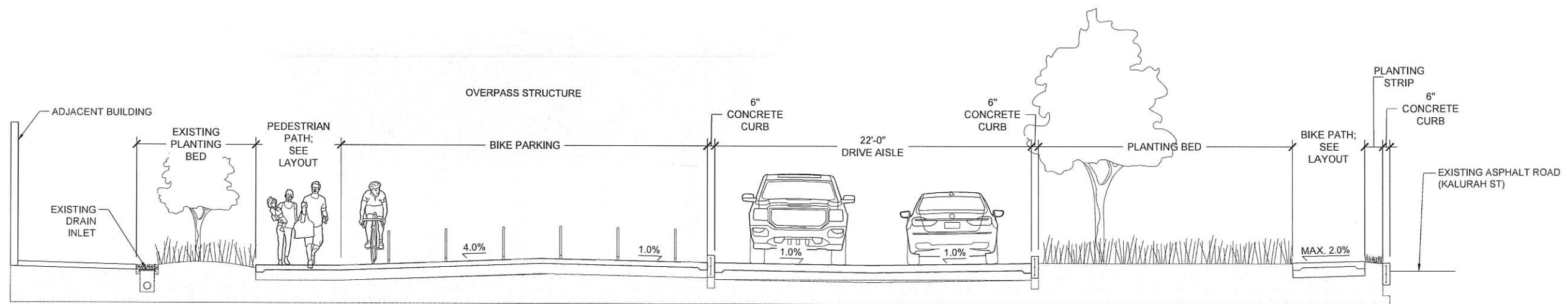


CARBO





1 SITE SECTION D  
SCALE: 1/4" = 1'-0"



2 SITE SECTION E  
SCALE: 1/4" = 1'-0"

SHEET NUMBER L4.25

EAST BATON ROUGE PARISH  
23-EN-HC-0037

PARISH CITY PROJECT STATE PROJECT

DESIGNED CHECKED  
DETAILED CHECKED  
DATE 10/10/2025  
SHEET

BY

REVISION DESCRIPTION

DATE

NO.



100% FINAL PLANS - ISSUED FOR CONSTRUCTION  
SITE SECTIONS II  
PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS



CIARBO





2025-08-28 09:15

PLANT SCHEDULE NORTH

SYMBOL COMMON / BOTANICAL NAME

TREES

POSSUMHAW / ILEX DECIDUA

SHRUBS

CINNAMON FERN / OSMUNDA CINNAMOMEA

DWARF PALMETTO / SABAL MINOR

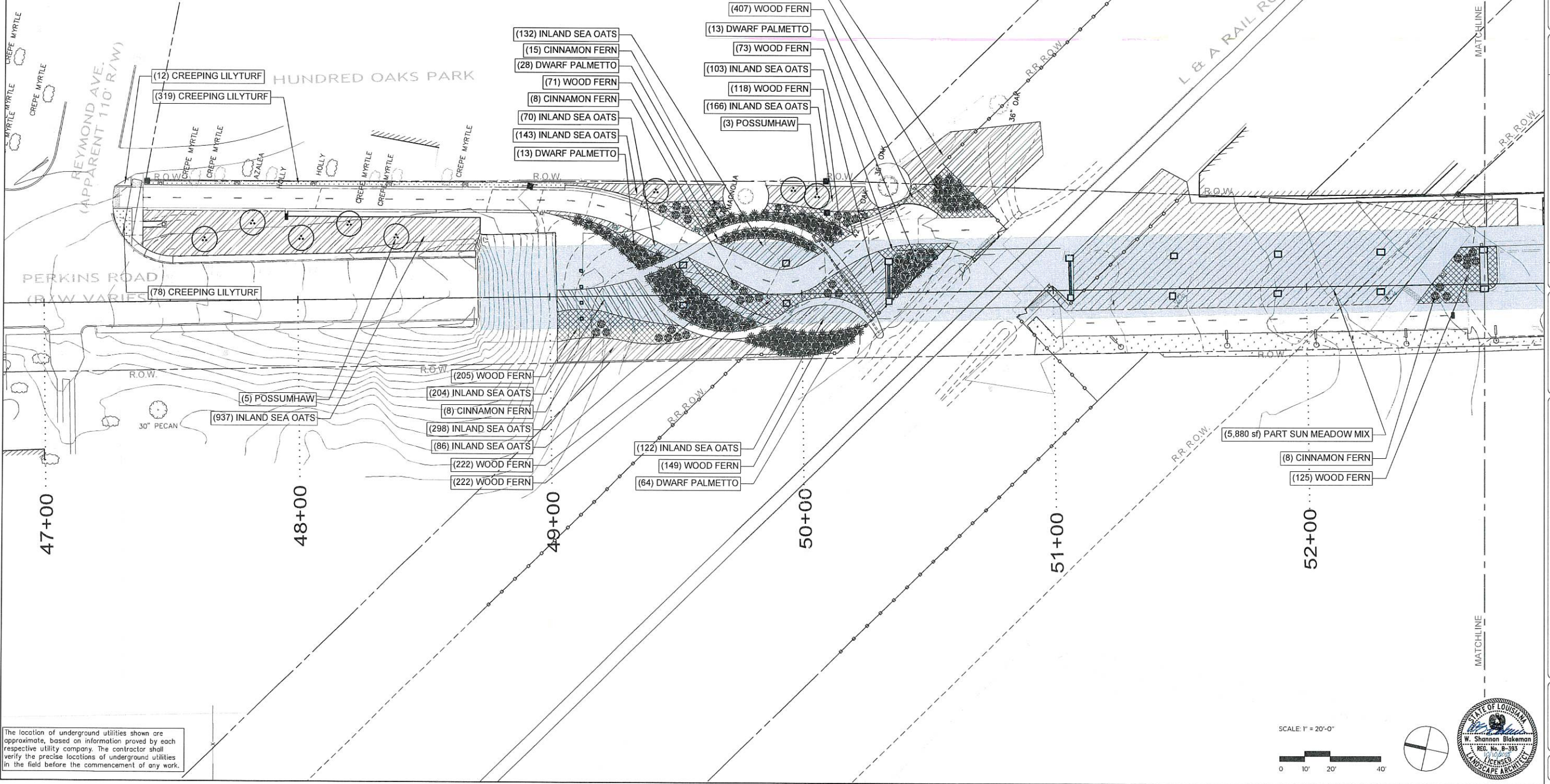
GROUND COVERS

PART SUN MEADOW MIX

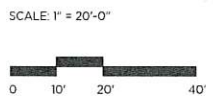
CREeping LILYTURF / LIRIOPE SPICATA

INLAND SEA OATS / CHASMANTHIUM LATIFOLIUM

WOOD FERN / TELYPTERIS KUNTHII



The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.



|                                               |         |                         |             |
|-----------------------------------------------|---------|-------------------------|-------------|
| SHEET NUMBER                                  |         | L5.00                   |             |
| PARISH                                        |         | EAST BATON ROUGE PARISH |             |
| CITY PROJECT                                  |         | 23-EN-HC-0037           |             |
| STATE PROJECT                                 |         |                         |             |
| DESIGNED                                      | CHECKED | DATE                    | 10/10/2025  |
| DETAILED                                      | CHECKED | DATE                    |             |
| NO.                                           |         | DATE                    |             |
| BY                                            |         | REVISION                | DESCRIPTION |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION    |         |                         |             |
| PLANTING PLAN-NORTH                           |         |                         |             |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS   |         |                         |             |
| BR CITY OF BATON ROUGE ENGINEERING DEPARTMENT |         |                         |             |
| C/A/R/B/O                                     |         |                         |             |



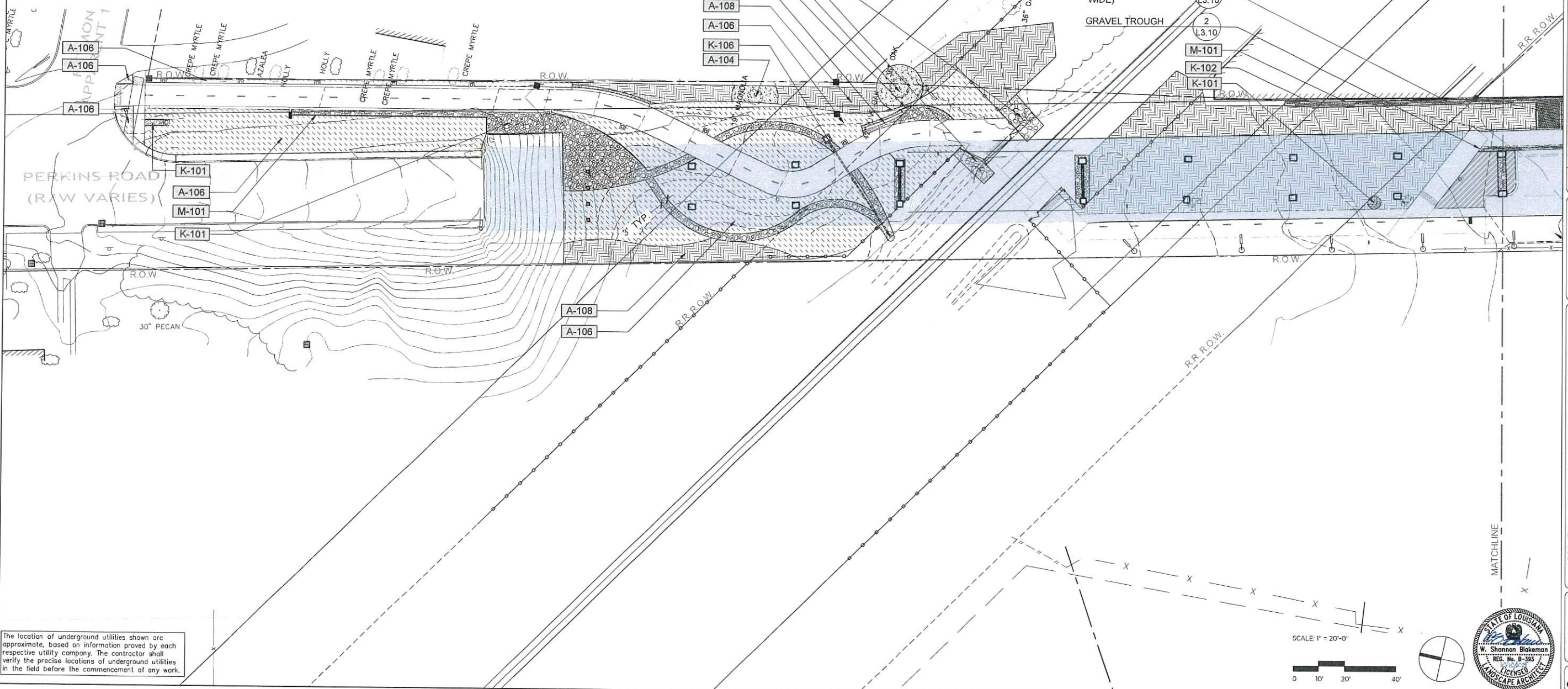




REFERENCE NOTES SCHEDULE NORTH

2026-02-11 11:44

| SYMBOL              | CODE  | DESCRIPTION                                                                                                                                                                | QTY      | DETAIL  |
|---------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|
| SOIL PREP AND MULCH |       |                                                                                                                                                                            |          |         |
|                     | A-104 | DECOMPOSED SHREDDED HARDWOOD MULCH<br>SEE SPECIFICATIONS - CONTRACTOR RESPONSIBLE FOR<br>VERIFICATION OF QUANTITIES. 3" DEPTH BENEATH EXISTING<br>TREES.                   | 353 SF   |         |
|                     | A-106 | TYP. BED PREP - 4" DEPTH<br>SEE SPECIFICATIONS - CONTRACTOR RESPONSIBLE FOR<br>VERIFICATION OF QUANTITIES. 4" DEPTH SOIL MIX, 3" PINE<br>STRAW MULCH.                      | 7,458 SF | 2/L5.21 |
|                     | A-107 | TYP. BIORETENTION SOIL MIX<br>SEE SPECIFICATIONS AND REFER TO DETAIL H/L5.30 -<br>CONTRACTOR RESPONSIBLE FOR VERIFICATION OF<br>QUANTITIES. 14" DEPTH, 3" PINE STRAW MULCH | 330 SF   | 3/L5.21 |
|                     | A-108 | TYP. MEADOW SOIL PREP<br>SEE SPECIFICATIONS - CONTRACTOR RESPONSIBLE FOR<br>VERIFICATION OF QUANTITIES.                                                                    | 8,411 SF | 4/L5.21 |
| ROCK                |       |                                                                                                                                                                            |          |         |
|                     | K-101 | DRAINAGE GRAVEL - 4"-6" RIVER SLICKS                                                                                                                                       | 2,021 SF |         |
|                     | K-102 | DRAINAGE GRAVEL - LIMESTONE<br>SEE DETAILS ON SHEET L3.10                                                                                                                  | 367 SF   |         |
|                     | K-106 | 12" THICK RIPRAP (10 LB)                                                                                                                                                   | 263 SF   |         |
| METAL               |       |                                                                                                                                                                            |          |         |
|                     | M-101 | METAL EDGING<br>SEE SPECIFICATIONS - CONTRACTOR RESPONSIBLE FOR<br>VERIFICATION OF QUANTITIES. SAMPLE REQUIRED. 3/16" THICK,<br>4" HT.                                     | 312 LF   | 6/L5.20 |



The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.

100% FINAL PLANS - ISSUED FOR CONSTRUCTION

SOIL PREP PLAN-NORTH

PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS

BR

CITY OF BATON ROUGE

PARISH OF EAST BATON ROUGE

CARBO

LANDSCAPE ARCHITECT

W. Shannon Blakeman

REG. No. B-393

1

4/2/2026

Revision #1

DESIGNED

CHECKED

DATE

10/10/2025

BY

REVISION DESCRIPTION

PARISH

CITY

STATE

PROJECT

23-EN-HC-0037

15.10



## 2026-02-11 11:46

The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.

SCALE: 1" = 20'-0"

0 10' 20' 40'

STATE OF LOUISIANA  
W. Shannon Blakeman  
REG. NO. 8-383  
LICENSED LANDSCAPE ARCHITECT

The location of underground utilities shown are approximate, based on information proved by each respective utility company. The contractor shall verify the precise locations of underground utilities in the field before the commencement of any work.

SCALE: 1" = 20'-0"



|                 |       |
|-----------------|-------|
| SHEET<br>NUMBER | L5.11 |
|-----------------|-------|

|         |                         |
|---------|-------------------------|
| PARISXH | EAST BATON ROUGE PARISH |
|---------|-------------------------|

23-EN-HC-0037

STATE  
PROJECT

|          |            |
|----------|------------|
| CHECKED  |            |
| DETAILED |            |
| CHECKED  |            |
| DATE     | 10/10/2025 |
| SHEET    |            |

|       |            |
|-------|------------|
| DATE  | 10/10/2023 |
| SHEET |            |

[illegible]

| NO. | DATE | REVISION DESCRIPTION | BY |
|-----|------|----------------------|----|
|-----|------|----------------------|----|



100% FINAL PLANS - ISSUED FOR CONSTRUCTION

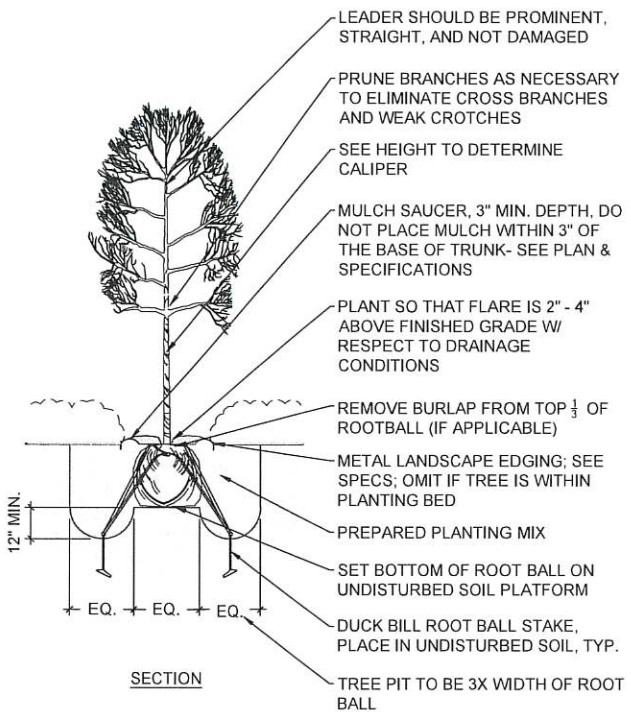
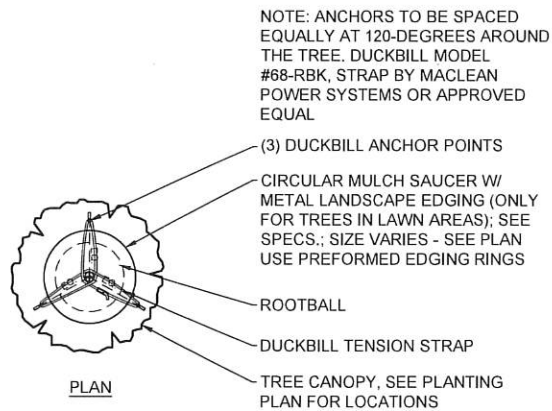
SOIL PREP PLAN—SOUTH

PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS

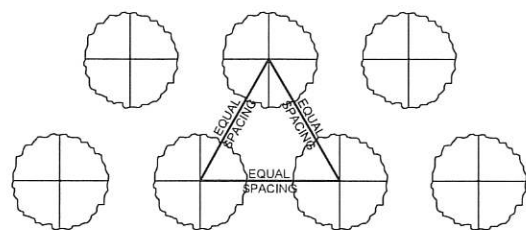


C | A | R | B | O |

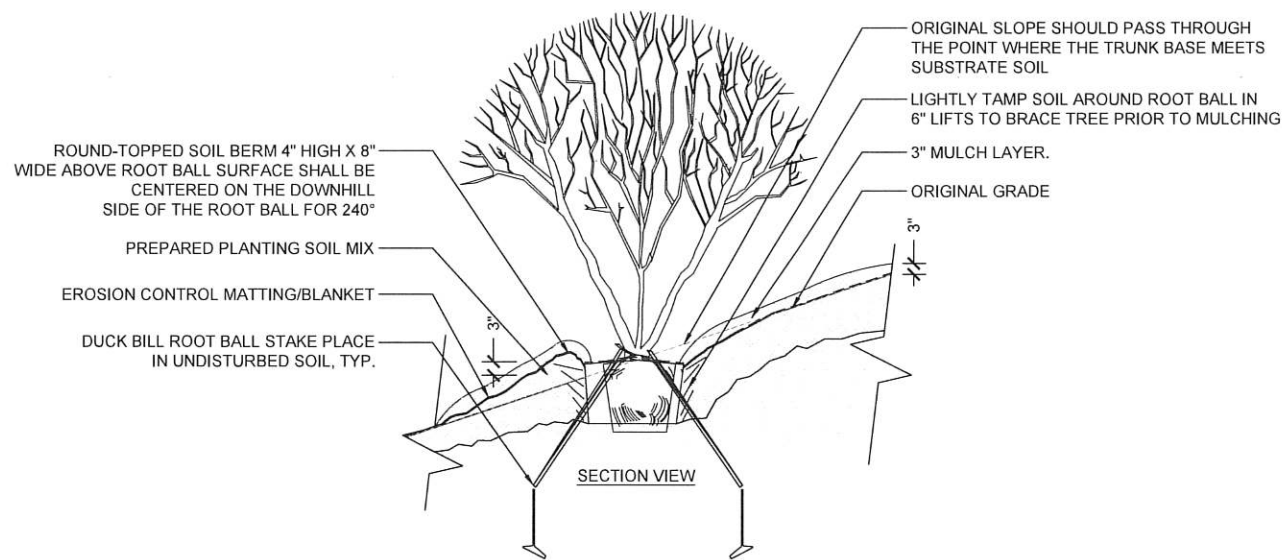




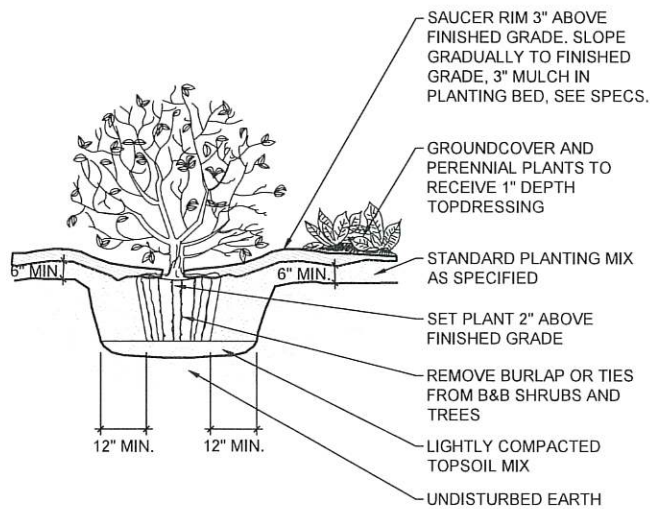
1 TREE PLANTING - ROOT BALL ANCHORS  
SCALE: 1/4" = 1'-0"



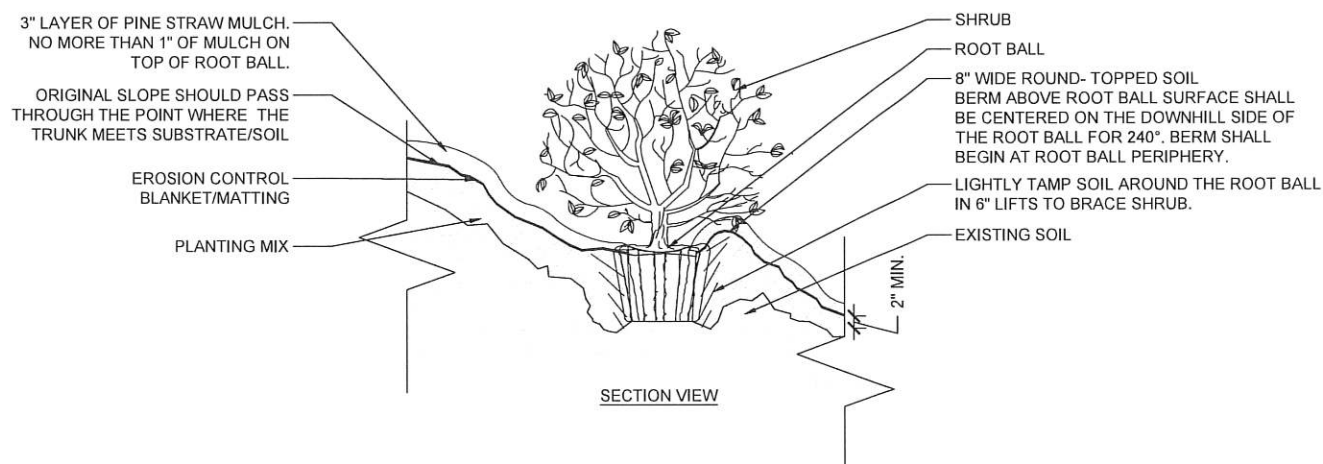
5 TYPICAL SHRUB & GROUNDCOVER LAYOUT  
SCALE: 1/2" = 1'-0"



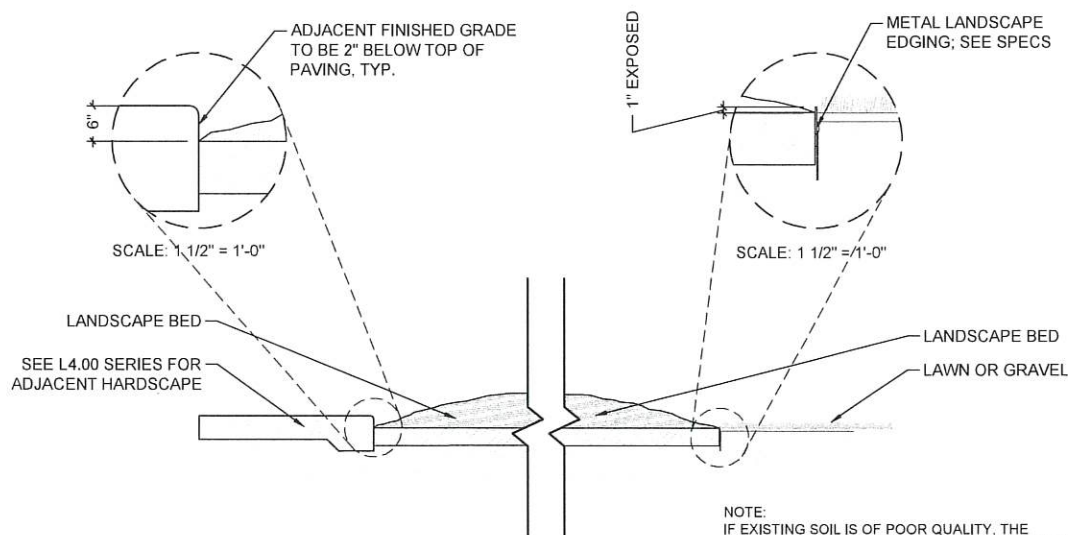
2 MULTI-TRUNK TREE W/ ROOT BALL ANCHORS ON SLOPE  
SCALE: 1/2" = 1'-0"



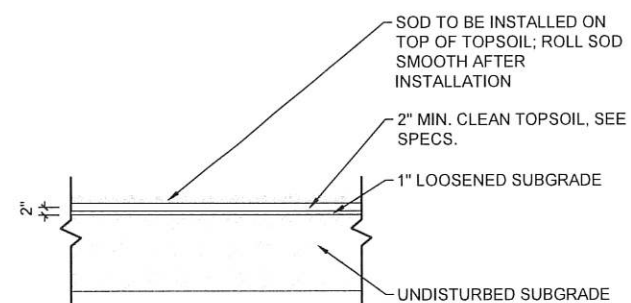
3 SHRUB PLANTING  
SCALE: 1/2" = 1'-0"



4 TYP. SHRUB ON SLOPE  
SCALE: 3/4" = 1'-0"



6 TYPICAL LANDSCAPE BED EDGE  
SCALE: 3/4" = 1'-0"

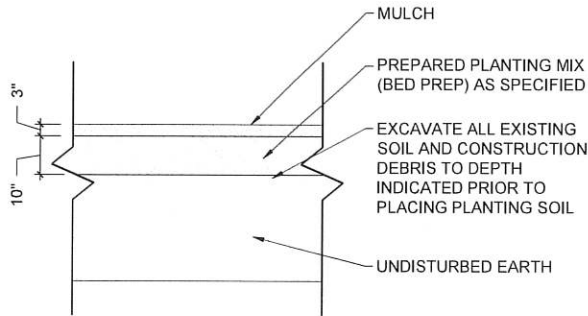


7 TYPICAL SOD LAWN  
SCALE: 1/2" = 1'-0"

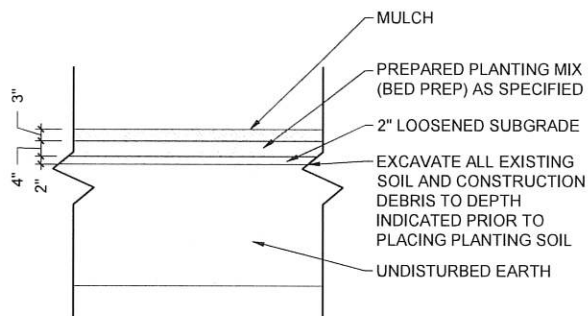
100% NATURAL FIBER EROSION CONTROL BLANKET/MATTING SHALL BE PLACED ON ALL DISTURBED AND SEEDED AREA ON SLOPES 3:1 OR GREATER. TIGHT WOVEN BLANKET/MATTING IS TO REMAIN UNTIL SEEDING/PLANTING MEETS SATISFACTORY ESTABLISHMENT AS DETERMINED BY THE LANDSCAPE ARCHITECT.

|                                             |                         |
|---------------------------------------------|-------------------------|
| SHEET NUMBER                                | L5.20                   |
| PARISH                                      | EAST BATON ROUGE PARISH |
| CITY PROJECT                                | 23-EN-HC-0037           |
| STATE PROJECT                               | 10/10/2025              |
| DATE                                        | 10/10/2025              |
| SHEET                                       | 002                     |
| BY                                          |                         |
| REVISION DESCRIPTION                        |                         |
| NO.                                         |                         |
| DATE                                        |                         |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |                         |
| PLANTING DETAILS                            |                         |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |                         |
| BR                                          |                         |
| CITY OF BATON ROUGE                         |                         |
| W. Shannon Blakeman                         |                         |
| REG. NO. 8-393                              |                         |
| LICENS. LANDSCAPE ARCHITECT                 |                         |
| CIARBO                                      |                         |

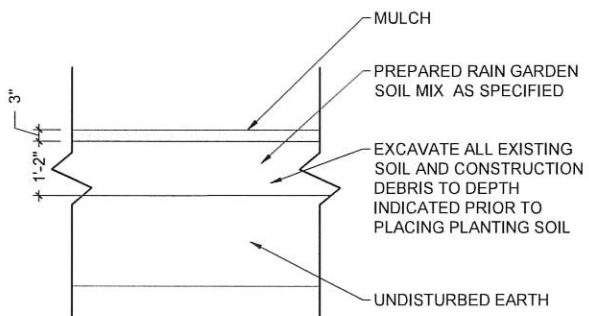




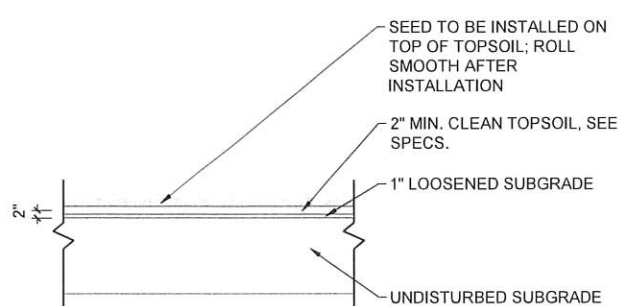
1 TYP. BED PREP - 10" DEPTH  
SCALE: 1/2" = 1'-0"



2 TYP. BED PREP - 4" DEPTH  
SCALE: 1/2" = 1'-0"



3 TYP. BIORETENTION SOIL PROFILE  
SCALE: 1/2" = 1'-0"



4 TYP. MEADOW SOIL PREP  
SCALE: 1/2" = 1'-0"

NOTE:  
MULCH LAYER IS INCIDENTAL TO  
ALL PLANTING SOIL PAY ITEMS

#### MEADOW INSTALLATION NOTES:

- CONTRACTOR SHALL CONSULT THE SEED SUPPLIER FOR ANY SPECIFIC RECOMMENDATIONS OR METHODS IN ADDITION TO THE FOLLOWING.
- REMOVE ANY ROCKS OR CONSTRUCTION DEBRIS LARGER THAN 2" DIAMETER PRIOR TO PREPPING THE SOIL.
- BACKFILL THE AREAS WITH CLEAN TOPSOIL (SEE SPECIFICATIONS) TO THE FINISHED GRADE LEVELS.
- INSTALL ALL TREES AND SHRUBS PER THE LANDSCAPE PLANS PRIOR TO PROCEEDING WITH MEADOW SEED INSTALLATION.
- WAIT A MINIMUM OF TWO (2) WEEKS AFTER COMPLETING TREE AND SHRUB INSTALLATION TO ALLOW WEEDS AND OTHER SEEDS IN THE TOPSOIL TO GERMINATE.
- SPRAY GLYPHOSATE HERBICIDE OVER THE ENTIRE AREA. CONTRACTOR SHALL FOLLOW EAST BATON ROUGE CITY-PARISH AND MANUFACTURER'S RECOMMENDATIONS FOR HERBICIDE APPLICATION. SPRAYING SHALL BE DONE DURING THE ACTIVE GROWING SEASON TO PROVIDE OPTIMAL EFFECTIVENESS.
- WAIT A MINIMUM OF TWO (2) WEEKS TO ALLOW ALL VEGETATION TO DIE OFF.
- LIGHTLY TILL OR DISC WITH A HEAVY METAL PLOW, PLANTER, PACKER, OR NO-TILL DRILL DRILL EQUIPMENT TO A MAXIMUM DEPTH OF 1" TO REMOVE ALL VEGETATION.
- WAIT A MINIMUM OF TWO (2) WEEKS TO ALLOW ANY ADDITIONAL WEEDS TO GERMINATE.
- IF NO WEEDS GERMINATE, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT FOR APPROVAL TO PROCEED WITH PLANTING. IF ADDITIONAL WEEDS GERMINATE, REPEAT STEPS 4-7 TO ENSURE A CLEAN AREA.
- ONCE THE AREA HAS BEEN PROPERLY PREPARED, LIGHTLY TILL OR DISC THE SOIL TO A DEPTH OF 1".
- SPREAD APPROXIMATELY 1" THICK LAYER OF BLACK COMPOST OVER THE ENTIRE AREA TO BE SEEDED AND LIGHTLY DISC INTO THE LOOSENED SOIL.
- BROADCAST SEED THE SPECIFIED SEED MIX OVER THE ENTIRE AREA.
- FOR BERMED OR SLOPED AREAS, INSTALL A NET-FREE, 100% BIODEGRADABLE EROSION CONTROL BLANKET ON TOP OF THE SEEDED AREAS USING BIODEGRADABLE STAPLES AT THE BLANKET MANUFACTURER'S RECOMMENDED SPACING.

#### MEADOW MAINTENANCE NOTES:

- MAINTAIN AND ESTABLISH MEADOW BY WATERING, WEEDING, MOWING, TRIMMING, REPLANTING, RE-MULCHING AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH A HEALTHY, VIABLE MEADOW. PROVIDE MATERIALS AND INSTALLATION THE SAME AS THOSE USED IN THE ORIGINAL INSTALLATION.
- AS NECESSARY, FILL IN SOIL SUBSIDENCE THAT MAY OCCUR BECAUSE OF SETTLING OR OTHER PROCESSES. REPLACE MATERIALS AND MEADOW DAMAGED OR LOST IN AREAS OF SUBSIDENCE.
- APPLY TREATMENTS AS REQUIRED TO KEEP MEADOW AND SOIL FREE OF PESTS AND PATHOGENS OR DISEASE. USE INTEGRATED PEST MANAGEMENT PRACTICES WHENEVER POSSIBLE TO MINIMIZE THE USE OF PESTICIDES AND REDUCE HAZARDS.
- SCHEDULE IRRIGATION TO PREVENT WILTING, PUDDLING, EROSION, AND DISPLACEMENT OF PLUGS OR MULCH.
- WATER MEADOW WITH FINE SPRAY UNLESS RAINFALL PRECIPITATION IS ADEQUATE, UNTIL MEADOW GRASSES HAVE ESTABLISHED.

#### PLANT SCHEDULE

| SYMBOL                                                                                | QTY      | COMMON / BOTANICAL NAME                                    | SIZE    | HEIGHT       | REMARKS                                                                                 |
|---------------------------------------------------------------------------------------|----------|------------------------------------------------------------|---------|--------------|-----------------------------------------------------------------------------------------|
| <b>TREES</b>                                                                          |          |                                                            |         |              |                                                                                         |
|  | 14       | POSSUMHAW / ILEX DECIDUA                                   | 45 GAL. | 8' MIN.      | CONTAINER GROWN, MULTI-TRUNK (3-5 CANES), FULL CANOPY SPREAD, SPECIMEN QUALITY          |
| <b>DECIDUOUS TREES</b>                                                                |          |                                                            |         |              |                                                                                         |
|  | 4        | POND CYPRESS / TAXODIUM ASCENDENS 'NUTANS'                 | 2" CAL. | 8' - 10' HT. | CONTAINER GROWN, STRAIGHT TRUNK, FULL CANOPY, SPECIMEN QUALITY                          |
| <b>SHRUBS</b>                                                                         |          |                                                            |         |              |                                                                                         |
|  | 79       | CINNAMON FERN / OSMUNDA CINNAMOMEA                         | 3 GAL.  | 36" o.c.     |                                                                                         |
|  | 144      | DWARF PALMETTO / SABAL MINOR                               | 5 GAL.  | 60" o.c.     |                                                                                         |
|  | 16       | DWARF VIRGINIA WILLOW / ITEA VIRGINICA 'LITTLE HENRY'      | 3 GAL.  | 36" o.c.     |                                                                                         |
|  | 15       | DWARF WAX MYRTLE / MORELLA CERIFERA VAR. PUMILA            | 5 GAL.  | 60" o.c.     |                                                                                         |
|  | 162      | JERI IRIS / IRIS LOUISIANA 'JERI'                          | 1 GAL.  | 24" o.c.     |                                                                                         |
| <b>SHRUB AREAS</b>                                                                    |          |                                                            |         |              |                                                                                         |
|  | 322      | GULF COAST MUHLY / MUHLENBERGIA CAPILLARIS 'GULF COAST'    | 1 GAL.  | 36" o.c.     |                                                                                         |
| <b>GROUND COVERS</b>                                                                  |          |                                                            |         |              |                                                                                         |
|  | 6,011 SF | PART SUN MEADOW MIX                                        | —       |              | SEE SPECS FOR SPECIES MIX                                                               |
|  | 418      | ASIATIC JASMINE / TRACHELOSPERMUM ASIATICUM                | 4" CUP  | 12" o.c.     | TO REPLACE ANY EXISTING PLANTS DAMAGED DURING CONSTRUCTION                              |
|  | 2,545 SF | CELEBRATION BERMUDA GRASS / CYNODON DACTYLON 'CELEBRATION' | SOD     |              | CONTRACTOR RESPONSIBLE FOR VERIFICATION OF QUANTITIES                                   |
|  | 196      | CHEROKEE SEDGE / CAREX CHEROKEENSIS                        | 1 GAL.  | 18" o.c.     |                                                                                         |
|  | 409      | CREeping LILYTURF / LIRIOPE SPICATA                        | 4" CUP  | 12" o.c.     | TO MATCH EXISTING ALONG FENCELINE AND SUPPLEMENT DAMAGE TO EXISTING DURING CONSTRUCTION |
|  | 390      | FROG FRUIT / PHYLA INCISA                                  | 4" CUP  | 24" o.c.     |                                                                                         |
|  | 3,099    | INLAND SEA OATS / CHASMANTHIUM LATIFOLIUM                  | 4" CUP  | 18" o.c.     |                                                                                         |
|  | 1,638    | WOOD FERN / THELYPTERIS KUNTHII                            | 4" CUP  | 18" o.c.     |                                                                                         |

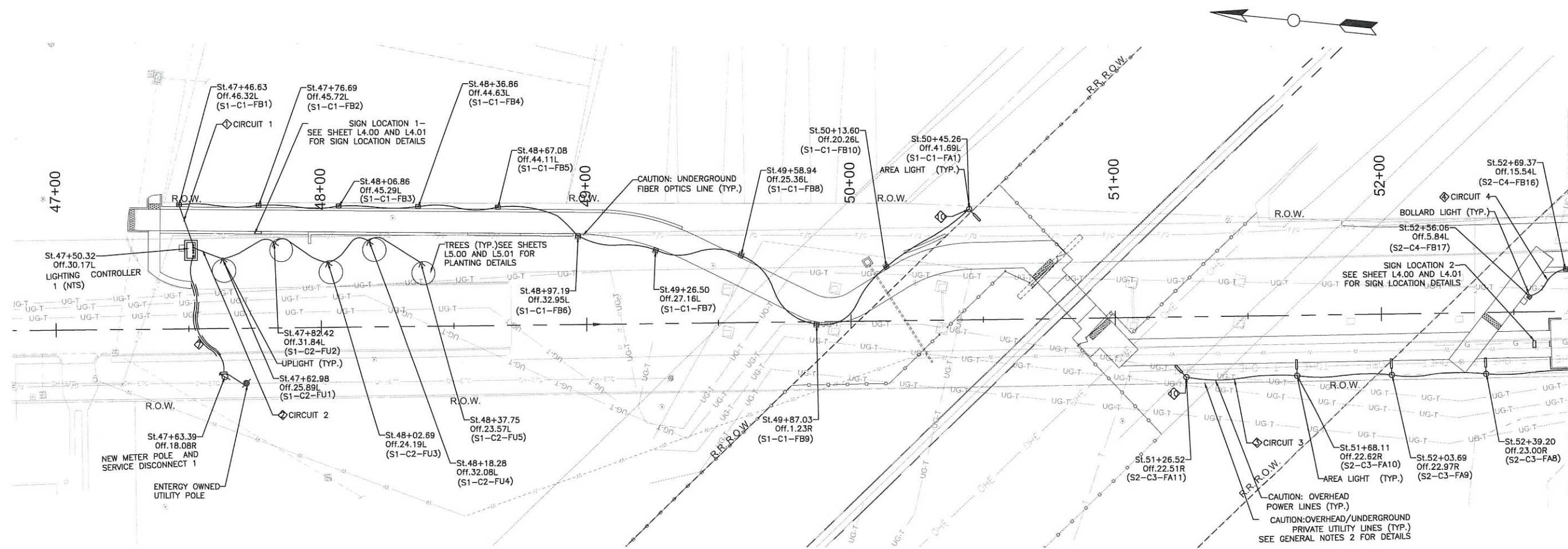
ONE YEAR WARRANTY PERIOD ON ALL TREES, SHRUBS, AND  
GROUNDCOVERS FROM DATE OF SUBSTANTIAL COMPLETION.

2026-02-11 11:49



|                                             |                  |
|---------------------------------------------|------------------|
| SHEET NUMBER                                | L5.21            |
| PARISH                                      | EAST BATON ROUGE |
| CITY PROJECT                                | 23-EN-HC-0037    |
| STATE PROJECT                               |                  |
| DESIGNED                                    | CHECKED          |
| DATE                                        | 10/10/2025       |
| BY                                          |                  |
| REVISION                                    | DESCRIPTION      |
| NO.                                         | DATE             |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |                  |
| SOIL PROFILE DETAILS AND PLANTING SCHEDULE  |                  |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |                  |
| BR CITY OF BATON ROUGE                      |                  |
| CIAR BIO                                    |                  |





ELECTRICAL LIGHTING PLAN  
1" = 20'



**pivotal**  
engineering  
CIVIL ENVIRONMENTAL  
ELECTRICAL MECHANICAL  
1515 POYDRAS ST., STE. 1150  
NEW ORLEANS, LA 70112  
504.799.3653

|                                             |                         |
|---------------------------------------------|-------------------------|
| SHEET NUMBER                                | E-1                     |
| PARISH                                      | EAST BATON ROUGE PARISH |
| CITY PROJECT                                | 23-EN-HC-0037           |
| DESIGNED                                    | K.P. B.M.               |
| CHECKED                                     | J.J. B.M.               |
| DATE                                        | 10/10/2025              |
| BY                                          |                         |
| REVISION DESCRIPTION                        |                         |
| NO.                                         |                         |
| DATE                                        |                         |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |                         |
| ELECTRICAL LIGHT PLAN 1                     |                         |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |                         |
| BR                                          |                         |
| CITY OF BATON ROUGE                         |                         |
| CLARIBO                                     |                         |

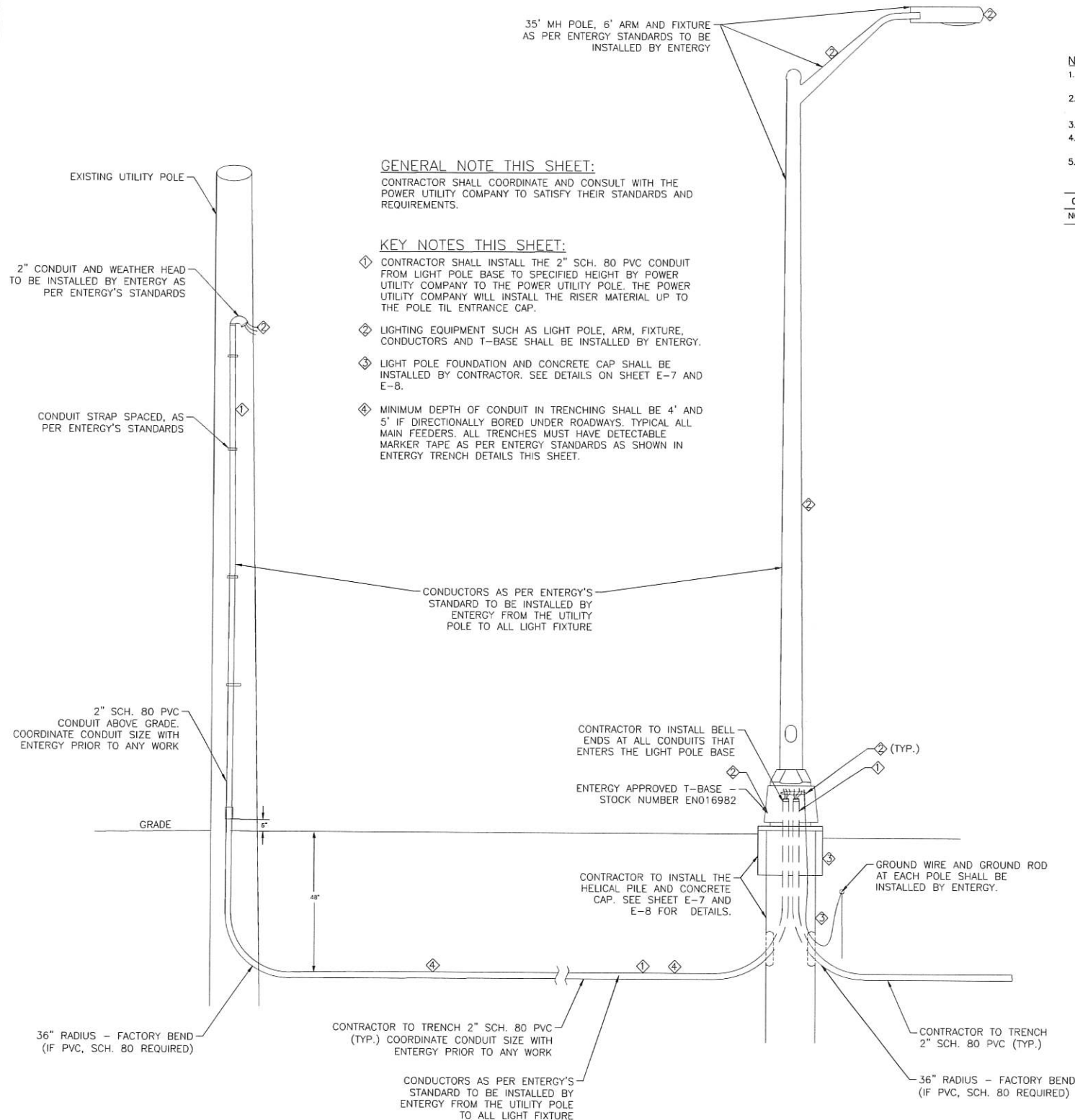












**GENERAL NOTE THIS SHEET:**

CONTRACTOR SHALL COORDINATE AND CONSULT WITH THE POWER UTILITY COMPANY TO SATISFY THEIR STANDARDS AND REQUIREMENTS.

**KEY NOTES THIS SHEET:**

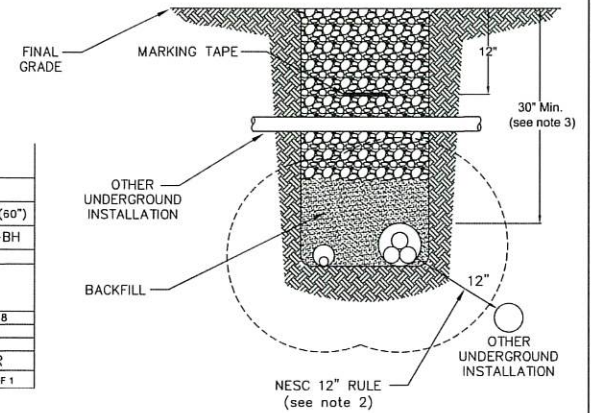
- CONTRACTOR SHALL INSTALL THE 2" SCH. 80 PVC CONDUIT FROM LIGHT POLE BASE TO SPECIFIED HEIGHT BY POWER UTILITY COMPANY TO THE POWER UTILITY POLE. THE POWER UTILITY COMPANY WILL INSTALL THE RISER MATERIAL UP TO THE POLE TIL ENTRANCE CAP.
- LIGHTING EQUIPMENT SUCH AS LIGHT POLE, ARM, FIXTURE, CONDUCTORS AND T-BASE SHALL BE INSTALLED BY ENTERGY.
- LIGHT POLE FOUNDATION AND CONCRETE CAP SHALL BE INSTALLED BY CONTRACTOR. SEE DETAILS ON SHEET E-7 AND E-8.
- MINIMUM DEPTH OF CONDUIT IN TRENCHING SHALL BE 4' AND 5' IF DIRECTIONALLY BORED UNDER ROADWAYS. TYPICAL ALL MAIN FEEDERS. ALL TRENCHES MUST HAVE DETECTABLE MARKER TAPE AS PER ENTERGY STANDARDS AS SHOWN IN ENTERGY TRENCH DETAILS THIS SHEET.

**NOTES:**

- RIGHT OF WAY SHALL BE CLEARED AND TO FINAL GRADE BEFORE TRENCHING BEGINS.
- SEPARATION FROM OTHER FACILITIES IS GOVERNED BY THE NESC 320B, 353A, AND 354A AND IS GENERALLY 12".
- NO FACILITIES SHALL BE OPERATED WITH LESS THAN 30" OF COVER.
- EXCAVATION IN ROCK REQUIRES A MINIMUM DEPTH OF 4" BACKFILL PER NESC 352A1.
- BACKFILL SHALL NOT HAVE ANY MATERIAL THAT COULD DAMAGE CONDUIT PER NESC 321B.

|     |          |                                              |     |       |      |         |     |     |            |
|-----|----------|----------------------------------------------|-----|-------|------|---------|-----|-----|------------|
| 0   | 09-04-18 | UGCS Revision Project-derived From UG0502011 | ERG | JRH   | APPR | ENTERGY | PLT | 1=1 | SH. 1 OF 1 |
| NO. | DATE:    | REVISION                                     | BY: | APPR: |      |         |     |     |            |

|                                 |                |
|---------------------------------|----------------|
| DIS CODE                        |                |
| UTR (Depth) (Special)           |                |
| (Depth) -3(36") -4(48") -5(60") |                |
| (Special) Blank, -HD, -BH       |                |
| ENTERGY SERVICES, INC.          |                |
| TRENCH DETAILS                  |                |
| APPROVED BY: JRH                | DATE: 09-04-18 |
| CHECKED BY: SAS                 | SCALE: 1=1     |
| DRAWN BY: ERG                   | CEA NO. 00000  |
| No.                             | UG-UTR         |



**ENTERGY TRENCH DETAILS**

**Entergy Standard Street Lights**

| MATERIAL DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MANUFACTURER | CATALOG NUMBER                                                      | ILLUSTRATION     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------|------------------|
| Lighting: COBRA LED equivalent to a 400 watt HPS COBRA. Distribution type III, input watts minimum 210 (input wattage labeling rounded to nearest 10th per ANSI). Delivered Lumens minimum 26,161. CCT 4k, CRI 70, 4.27 minimum foot candles based on 25' mounting height. Gray in color. 7 pin photo control receptacle and dimmable driver. NO REFRACTOR. Must include Entergy approved LED photo control stock code 0032114260. Must meet Entergy LED Specification DK08-12; latest revision. DIS CU = SLLEDCOBRA16, LABEL = C4 | COOPER       | VERDMA0485DUT310K4N7APU0008<br>Or<br>VERDMCA4210740UT3AP10KPR7U0008 | <br>COLOR = GRAY |

**Entergy Standard Aluminum poles from Entergy, available with 6 ft Cantilever or 10 ft truss standard arms**

| STOCK NUMBER | MATERIAL DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                   | MANUFACTURER                    | CATALOG NUMBER                                 | ILLUSTRATION |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------|--------------|
| EN016855     | Pole, St. Light : Alum., Round, tapered 35' Mounting Height, Anchor base 11" bolt circle diameter, shaft with pole cap, bolt covers, All poles are drilled to accept up to two 8' cantilever style arms at 180 degrees (approved for single arm as well). Bottom 8" OD and top 4 1/2" OD to be held for the top 3' of pole. Overall height 31'10". Minimum Wall thickness .188" full length of pole. Shipped without 1" anchors bolts. | Hapco<br>Union Metal<br>Valmont | 76062-002<br>P09-Y283S<br>311045806T4AD25BFLAB |              |
|              | Meets latest revision of American Association of State Highway and Transportation Officials (AASHTO), Standard Specifications for Structural Supports for Highway Signs, Luminaries, and Traffic Signals<br>DIS = SLPRA32-2C                                                                                                                                                                                                           |                                 |                                                |              |

**Entergy Standard aluminum pole mounting arm/brackets are 6ft (cantilever) and 10ft (truss) in the Baton Rouge area**

| STOCK NUMBER | MATERIAL DESCRIPTION                                                                                                                                                                             | MANUFACTURER                    | CATALOG NUMBER                             | ILLUSTRATION |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------|--------------|
| EN016848     | Bracket, street light, 6 ft., aluminum, cantilever style, with clamp type mounting for 4-1/2" diameter pole, 3' 6" rise. Meeting Class D strength requirements of ANSI C136.13, latest revision. | Valmont<br>Hapco<br>Union Metal | 21-030606AP13024<br>76060-002<br>P09-Y265N |              |

|                                                                                                                      |                                  |                                  |
|----------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|
| TITLE: Luminaire Components, Accessories, Foundation/Anchor, Breakaway Coupling, Adapter and Cable Material Standard | STANDARD NUMBER: DK04-01 Rev. 45 | EFFECTIVE DATE: January 08, 2020 |
| PREPARED BY: Lighting, Meters, Safety, and Tools Team Distribution Standards                                         | APPROVED BY: Shawn Corkran       |                                  |

| STOCK NUMBER                                  | PURCHASE DESCRIPTION                                                                                                                                                                                                                                                                 | MANUFACTURER                    | CATALOG NUMBER             | ILLUSTRATION |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------|--------------|
| EN016982<br>REPLACES LP337-0085<br>MP202-2800 | Base, pole, street light, aluminum, frangible, designed to breakaway when struck by a vehicle, meeting 1994 AASHTO Standard and approved for use by the Federal Highway Administration, with 10" - 12" bolt circle top and bottom, minimum 17" high, and with removable access door. | Valmont<br>Union Metal<br>Hapco | TB2-17<br>A2850-G<br>70511 |              |

**ENTERGY LIGHT FIXTURE, ARM, POLE AND T-BASE DETAILS**

**ELECTRICAL UTILITY POLE AND ENTERGY OWNED POLE, T-BASE, ARM AND FIXTURE DETAILS (N.T.S.)**



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ELECTRICAL MECHANICAL  
1515 POYDRAS ST., STE. 1150  
NEW ORLEANS, LA 70112  
504. 799.3653

|                                             |                         |
|---------------------------------------------|-------------------------|
| SHEET NUMBER                                | E-4                     |
| PARISH                                      | EAST BATON ROUGE PARISH |
| CITY PROJECT                                | 23-EN-HC-0037           |
| STATE PROJECT                               |                         |
| DESIGNED                                    | K.P. I.J., B.M.         |
| CHECKED                                     | I.J., B.M.              |
| DATE                                        | 10/10/2025              |
| BY                                          |                         |
| REVISION DESCRIPTION                        |                         |
| NO.                                         |                         |
| DATE                                        |                         |
| 100% FINAL PLANS - ISSUED FOR CONSTRUCTION  |                         |
| ENTERGY OWNED STREET LIGHT DETAILS          |                         |
| PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS |                         |
| BR                                          | CITY OF BATON ROUGE     |
| CIARBO                                      |                         |



Description:

LED Outdoor Commercial Bollard - PMBO

Specifications:

- Rugged die-cast aluminum housing
- Dark Bronze powder coat finish with high-impact, polycarbonate lens
- CCT field selectable feature offers 3000K, 4000K and 5000K options
- Field selectable lumen range from 1,825 to 3,290 nominal lumens
- Anchor bolt mounted
- Anchor bolt kit ordered separately, use PMBOR-ACSY-AB

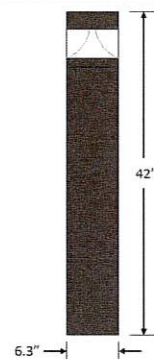
Performance:

|                                                  |                             |
|--------------------------------------------------|-----------------------------|
| Input Power                                      | 23 W                        |
| Input Voltage                                    | Universal 120-277 VAC       |
| Input Frequency                                  | 50/60 Hz                    |
| Lumens/LPW (Delivered)                           | 1,970/2685/3240/145 (LM-79) |
| Lumen selectable values based on 4000K selection |                             |
| CRI                                              | 80 CRI                      |
| Life (hours)                                     | 50000                       |
| EMI/RFI                                          | FCC Part 15, Class A        |
| Warranty                                         | 5-year Limited Warranty     |
| Labels                                           | cULus Wet Location Listed   |
| Dimming                                          | 0-10VDC                     |
| Ingress Protection                               | IP65                        |
| Operating Temperature                            | -40 °C to 55 °C             |
| THD                                              | <20%                        |
| Power Factor                                     | >0.90                       |

PMBOR-FLT-LS-CS-BZ

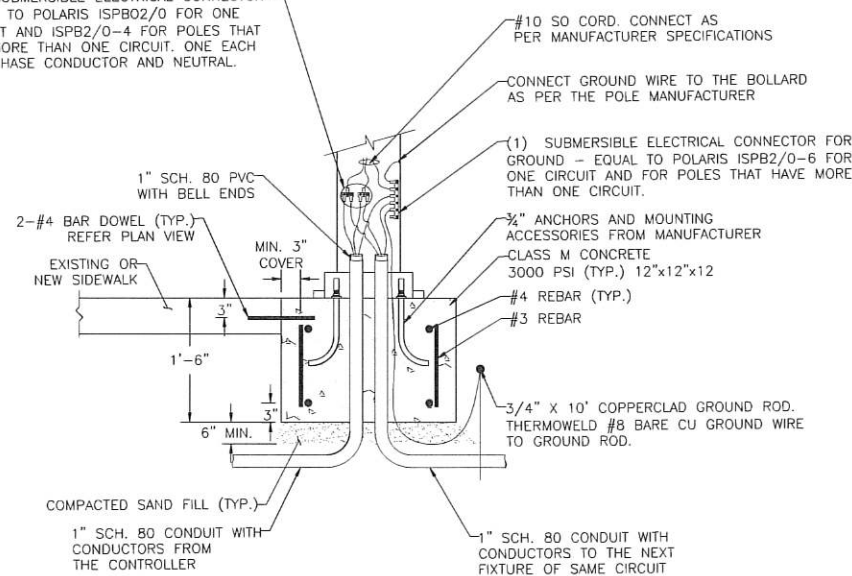


Dimensions:



|          | Low Setting |       |       | Mid Setting |       |       | High Setting |       |       |
|----------|-------------|-------|-------|-------------|-------|-------|--------------|-------|-------|
|          | 3000K       | 4000K | 5000K | 3000K       | 4000K | 5000K | 3000K        | 4000K | 5000K |
| Watts    | 13W         | 14W   | 13W   | 18W         | 19W   | 18W   | 23W          | 22W   | 23W   |
| Lumens   | 1827        | 1974  | 1942  | 2507        | 2686  | 2665  | 3090         | 3244  | 3296  |
| Efficacy | 139         | 144   | 148   | 138         | 145   | 146   | 134          | 145   | 144   |

(2) SUBMERSIBLE ELECTRICAL CONNECTOR—EQUALLY TO POLARIS ISPB2/0 FOR ONE CIRCUIT AND ISPB2/0-4 FOR POLES THAT HAS MORE THAN ONE CIRCUIT. ONE EACH FOR PHASE CONDUCTOR AND NEUTRAL.



A SECTION  
N.T.S.

BOLLARD LIGHT FIXTURE AND ELECTRICAL DETAILS (N.T.S.)

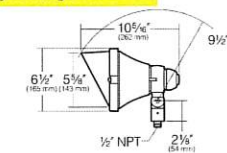
Scarab™ EL700

120 TO 277 VOLT DIE-CAST ALUMINUM LED



Standard Features

EL700/12L  
12 Light Emitting Diodes



Ordering Information

| Fixture                      | Source              |
|------------------------------|---------------------|
| EL700S3/7L3KUV <sup>1</sup>  | 9W, 7 LEDs, 3000K   |
| EL700S3/7L4KUV <sup>1</sup>  | 9W, 7 LEDs, 4200K   |
| EL700S3/7L5KUV <sup>1</sup>  | 9W, 7 LEDs, 5100K   |
| EL700F3/7L3KUV <sup>1</sup>  | 9W, 7 LEDs, 3000K   |
| EL700F3/7L4KUV <sup>1</sup>  | 9W, 7 LEDs, 4200K   |
| EL700F3/7L5KUV <sup>1</sup>  | 9W, 7 LEDs, 5100K   |
| EL700S3/9L3KUV <sup>1</sup>  | 11W, 9 LEDs, 3000K  |
| EL700S3/9L4KUV <sup>1</sup>  | 11W, 9 LEDs, 4200K  |
| EL700S3/9L5KUV <sup>1</sup>  | 11W, 9 LEDs, 5100K  |
| EL700F3/9L3KUV <sup>1</sup>  | 11W, 9 LEDs, 3000K  |
| EL700F3/9L4KUV <sup>1</sup>  | 11W, 9 LEDs, 4200K  |
| EL700F3/9L5KUV <sup>1</sup>  | 11W, 9 LEDs, 5100K  |
| EL700S3/12L3KUV <sup>1</sup> | 14W, 12 LEDs, 3000K |
| EL700S3/12L4KUV <sup>1</sup> | 14W, 12 LEDs, 4200K |
| EL700S3/12L5KUV <sup>1</sup> | 14W, 12 LEDs, 5100K |
| EL700F3/12L3KUV <sup>1</sup> | 14W, 12 LEDs, 3000K |
| EL700F3/12L4KUV <sup>1</sup> | 14W, 12 LEDs, 4200K |
| EL700F3/12L5KUV <sup>1</sup> | 14W, 12 LEDs, 5100K |

<sup>1</sup>S = Spot, F = Narrow Flood, 3 = 350mA, UV = Universal Voltage from 120 to 277V with a ±10% tolerance.

Finish  
TGIC powder coat.

Color: Black Cat. No.: BL  
Dark Bronze DB  
Verde Green GR

Aluminum Adjustable Glare Shield

Spun aluminum shield with 45° cut and drain hole. Includes die-cast low copper alloy (< 0.6%) aluminum lens ring. The shield is rotatable 360°. Replaces standard lens ring/hood on fixture.

|             | EL700/7L | EL700/9L | EL700/12L |           |
|-------------|----------|----------|-----------|-----------|
| Finish      | EL700/7L | EL700/9L | EL700/12L |           |
| Black       | AGS72BL  | AGS73BL  | AGS74BL   | No Option |
| Dark Bronze | AGS72DB  | AGS73DB  | AGS74DB   | No Option |
| Verde Green | AGS72GR  | AGS73GR  | AGS74GR   | No Option |

Aluminum Full Glare Shield

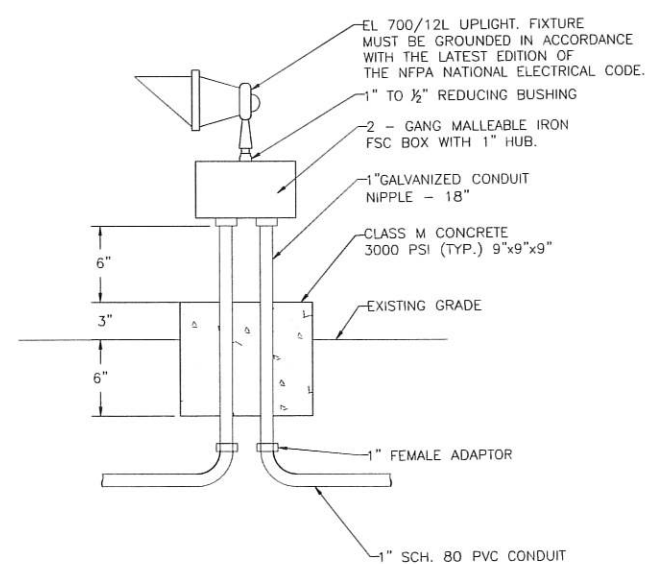
Spun aluminum shield with drain hole. Includes die-cast low copper aluminum lens ring. Replaces standard lens ring/hood on fixture.

|             | EL700/7L | EL700/9L | EL700/12L |           |
|-------------|----------|----------|-----------|-----------|
| Finish      | EL700/7L | EL700/9L | EL700/12L |           |
| Black       | FGS72BL  | FGS73BL  | FGS74BL   | No Option |
| Dark Bronze | FGS72DB  | FGS73DB  | FGS74DB   | No Option |
| Verde Green | FGS72GR  | FGS73GR  | FGS74GR   | No Option |

Debris Screen

Stainless steel wire screen welded to flange, and held in place with spring clips. Screen inserts inside full glare shield only. All debris screens are black iridite colored.

|        | EL700/7L | EL700/9L | EL700/12L |           |
|--------|----------|----------|-----------|-----------|
| Finish | EL700/7L | EL700/9L | EL700/12L |           |
| Black  | DS72     | DS73     | DS74      | No Option |



UPLIGHT FIXTURE AND ELECTRICAL DETAILS (N.T.S.)

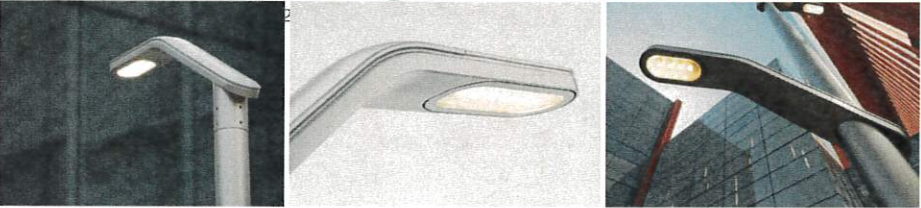


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Torres Area Light

landscapeforms



General Description

- Single, double, or staggered configurations
- Offered in 5 standard pole heights (12', 14', 16', 20', and 25')
- Optional integrated Wattstopper™ FSP-211 photo/motion sensor
- Optional ANSI H4-47 pin twist lock receptacle
- Mounting template and anchor hardware included
- Cast aluminum luminaire ships prewired and fully assembled
- Zero up-light, International Dark-Sky approved
- UL Listed, suitable for wet locations

Electrical

Surge protected 100V-277V 50/60 Hz, Class 2 integrated LED 0-10V dimmable driver. LED cartridge with weatherproof quick disconnect provides ease of installation and serviceability. Torres area light ships prewired.

Housing

Luminaire components are cast aluminum. Acrylic lens seals to the LED cartridge housing. Luminaire mounts to a tenon on the pole and is secured with eight set screws. Driver compartment cover is secured by three screws on top of the luminaire. All hardware is magni-coated.

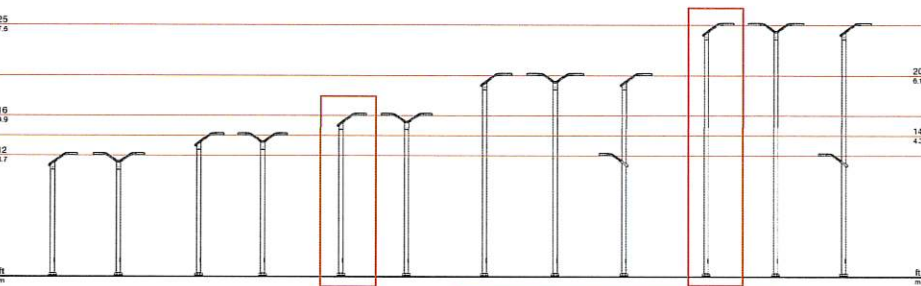
Torres Area Light

Light Source: Nichia LEDs  
Color Temperature: 3000K, 3500K, 4000K  
CRI: 80 min  
Optics: PMMA  
Lens: Clear or Frosted Acrylic

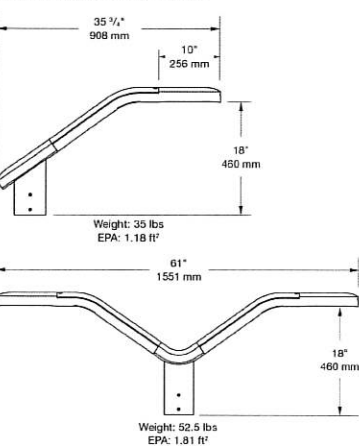
| Model        | Distribution Type | Drive Current | Lumens | Watts | Efficacy | BUG Rating |
|--------------|-------------------|---------------|--------|-------|----------|------------|
| AH236-T2-21F | Type II           | 215mA         | 2886   | 25    | 115      | B1-U0-G1   |
| AH236-T2-32F | Type II           | 320mA         | 4150   | 38    | 109      | B1-U0-G1   |
| AH236-T3-21F | Type III          | 215mA         | 2827   | 25    | 113      | B1-U0-G1   |
| AH236-T3-32F | Type III          | 320mA         | 4065   | 38    | 107      | B1-U0-G1   |
| AH236-T4-21F | Type IV           | 215mA         | 2785   | 25    | 111      | B1-U0-G1   |
| AH236-T4-32F | Type IV           | 320mA         | 4006   | 38    | 105      | B1-U0-G1   |
| AH256-T2-31F | Type II           | 310mA         | 5979   | 55    | 109      | B2-U0-G1   |
| AH256-T2-41F | Type II           | 415mA         | 7753   | 73    | 106      | B2-U0-G2   |
| AH256-T3-31F | Type III          | 310mA         | 5857   | 55    | 106      | B1-U0-G1   |
| AH256-T3-41F | Type III          | 415mA         | 7596   | 73    | 104      | B2-U0-G1   |
| AH256-T4-31F | Type IV           | 310mA         | 5771   | 55    | 105      | B2-U0-G2   |
| AH256-T4-41F | Type IV           | 415mA         | 7484   | 73    | 103      | B2-U0-G2   |

Pole Description

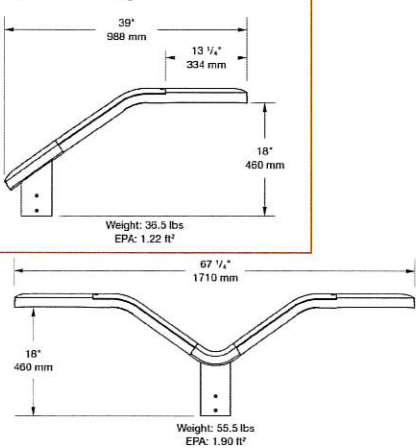
Round pole is 5" in diameter and manufactured from seamless 6061 aluminum tubing and heat treated to produce a T6 temper. Wall thickness varies from 0.125" to 0.250" depending on mounting height and number of luminaires. Flush mounted hand hole cover includes two magni-coated fasteners. Base options included a two piece cast aluminum cover or cast aluminum nut covers. Pole is topped with standard dimension 2 3/8" diameter x 3" tenon.



Torres Area Light AH236

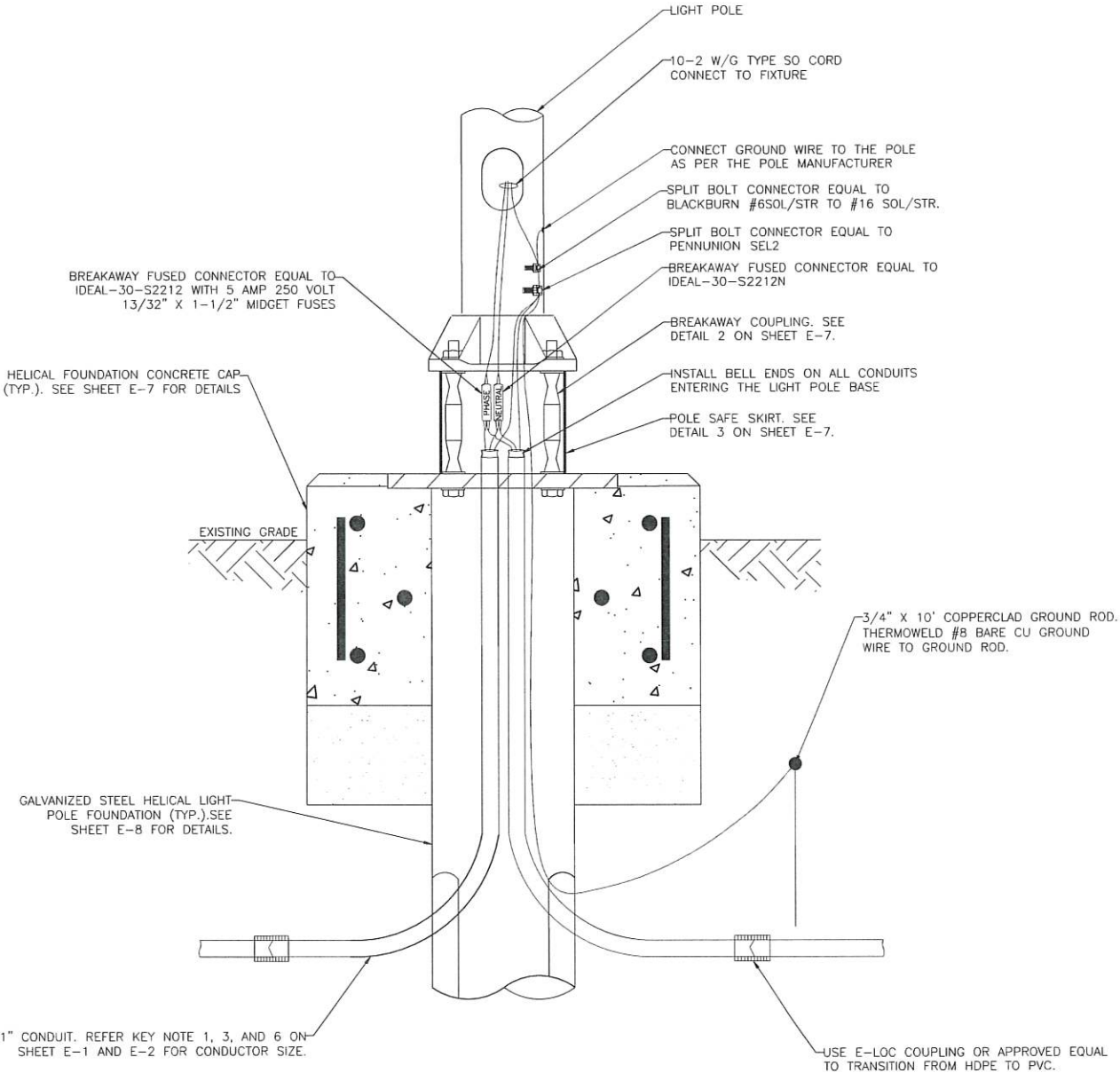


Torres Area Light AH256



AREA LIGHT FIXTURE DETAILS

NOTE: TORRES AREA LIGHT SHALL MEET THE LATEST EDITION OF AASHTO LTS STANDARD SPECIFICATIONS.



AREA LIGHT ELECTRICAL DETAILS (N.T.S.)



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SHEET NUMBERE-6

EAST BATON ROUGE PARISH

CITY PROJECT23-EN-HC-0037

STATE PROJECT

DESIGNED BY K.P. L.J., B.M.

CHECKED BY

DATE10/10/2025

BY

NO.

DATE

REVISION DESCRIPTION

100% FINAL PLANS - ISSUED FOR CONSTRUCTION

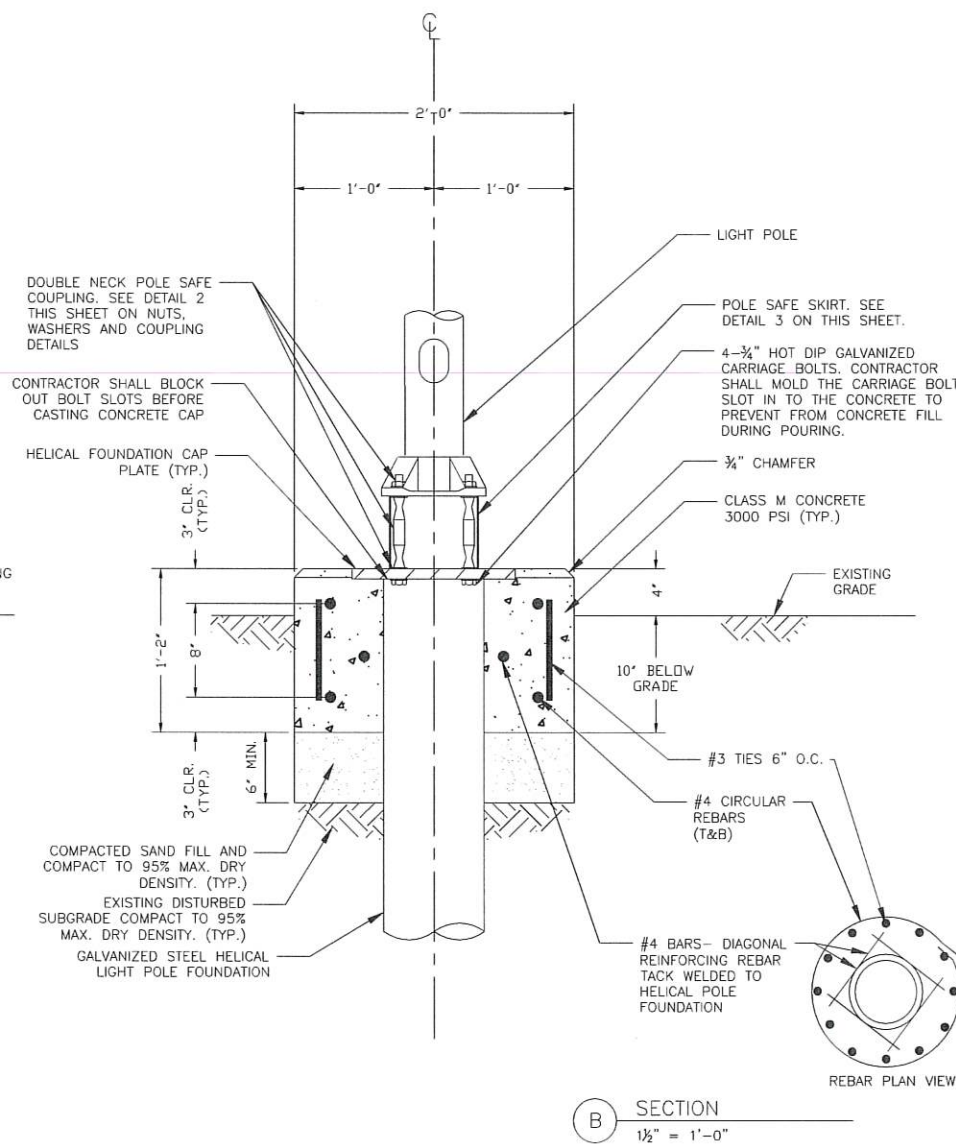
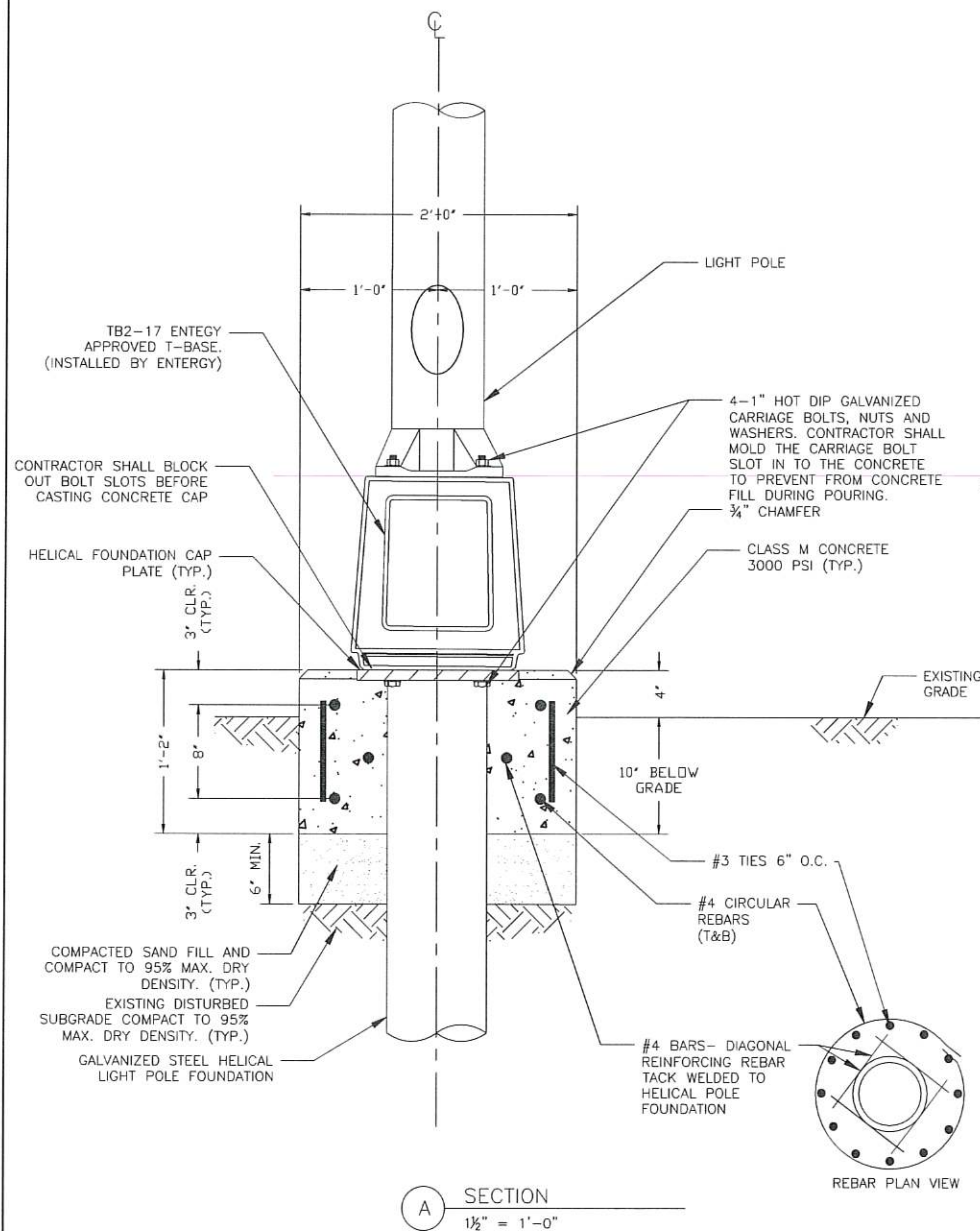
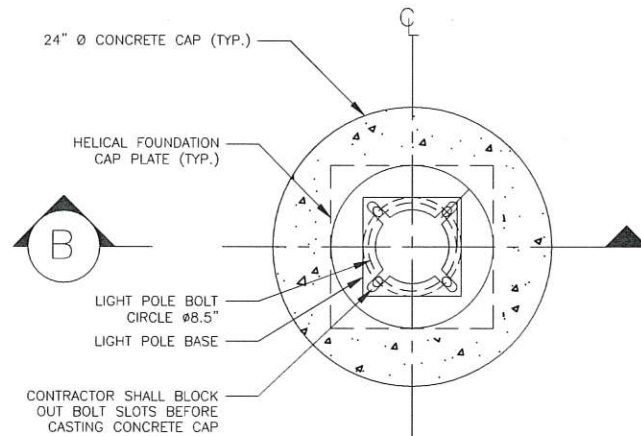
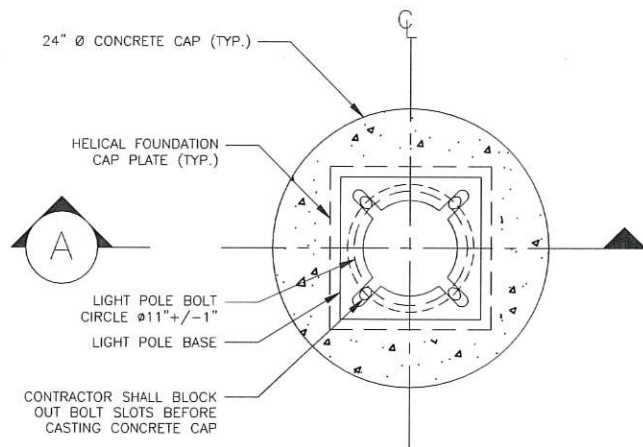
LIGHT FIXTURE DETAILS - 2

PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS

CITY OF BATON ROUGE  
OFFICE OF EAST BATON ROUGE

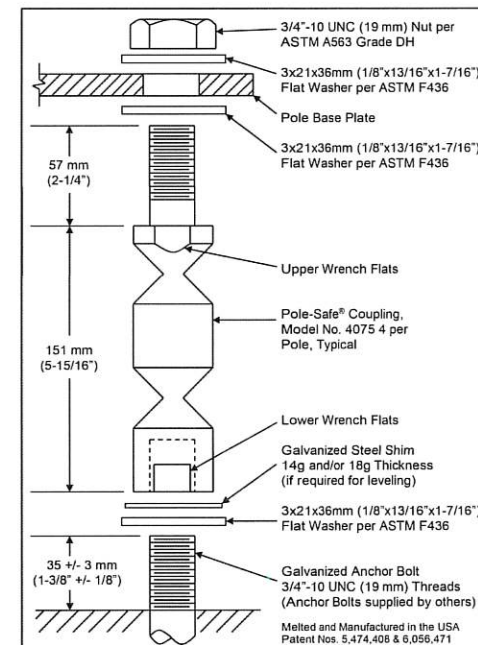
BIO





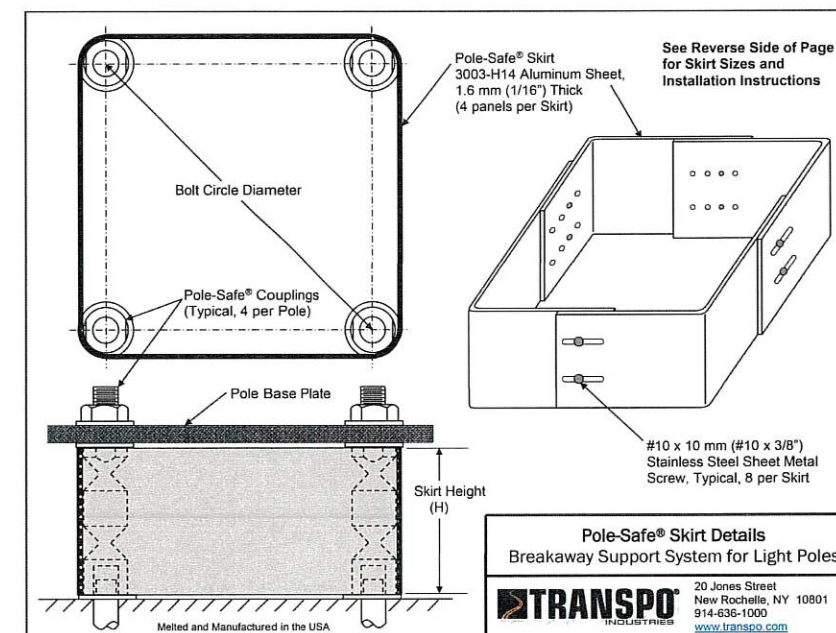
FOUNDATION DETAILS FOR ENTERGY OWNED LIGHT POLES

FOUNDATION DETAILS FOR AREA LIGHT POLES (16' AND 25')



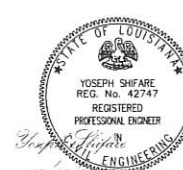
| SPECIFICATIONS                                                                                                                                                                                     |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>Performance Criteria:</b>                                                                                                                                                                       |  |  |  |
| 1. Pole-Safe® conforms to AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals."                                                              |  |  |  |
| 2. Pole-Safe® has been crash-tested and FHWA approved in accordance with the requirements of NCHRP Report 350, "Recommended Procedures for the Safety Performance Evaluation of Highway Features." |  |  |  |
| <b>Physical Properties per Coupling:</b>                                                                                                                                                           |  |  |  |
| 1. Ultimate Tensile Strength = 131.0 kN (29.4 kips), minimum.                                                                                                                                      |  |  |  |
| 2. Tensile Yield Strength = 113.6 kN (25.5 kips), minimum.                                                                                                                                         |  |  |  |
| 3. Ultimate Restrained Shear Strength = 8.9 kN (2.0 kips), minimum.                                                                                                                                |  |  |  |
| 4. Ultimate Restrained Shear Strength = 13.3 kN (3.0 kips), maximum.                                                                                                                               |  |  |  |
| <b>Corrosion Protection:</b>                                                                                                                                                                       |  |  |  |
| 1. Pole-Safe® couplings, nuts, bolts, and washers are galvanized after fabrication in accordance with ASTM A153. All leveling shims are galvanized after fabrication in accordance with ASTM A653. |  |  |  |
| <b>Pole-Safe® Model No. 4075</b>                                                                                                                                                                   |  |  |  |
| Breakaway Support System for Light Poles                                                                                                                                                           |  |  |  |
| 20 Jones Street<br>New Rochelle, NY 10801<br>914-636-1000<br><a href="http://www.transco.com">www.transco.com</a>                                                                                  |  |  |  |

2 BREAKAWAY COUPLING DETAILS  
1 1/2" = 1'-0"



3 BREAKAWAY SKIRT DETAILS  
1 1/2" = 1'-0"

- NOTES:**
1. CONCRETE SHALL BE CLASS M CONCRETE 3000 PSI COMPRESSIVE STRENGTH (PER LSSRB 2016).
  2. ALL REINFORCING SHALL BE ASTM 1615, GRADE 60.
  3. HELICAL PILES SHALL BE AS MANUFACTURED BY "CHANCE" OR ENGINEER-APPROVED EQUAL.
  4. CONTRACTOR SHALL BLOCK OUT THE BOLT SLOTS BEFORE CASTING THE CONCRETE CAP FLUSH WITH THE MOUNTING PLATE OF THE HELICAL FOUNDATION.
  5. BREAKAWAY COUPLING SHALL BE PROVIDED AS SHOWN, MODEL No. 4075 BY TRANSCO- OR ENGINEER-APPROVED EQUAL.
  6. LOCALLY AVAILABLE SAND FILL SHALL BE NON-PLASTIC MATERIAL FREE FROM ROOTS, CLAY LUMPS OR OTHER DELETERIOUS MATERIALS WITH NO MORE THAN 10% BY WEIGHT OF MATERIALS PASSING A U.S. STANDARD No. 200 MESH SIEVE.
  7. PILES SHALL BE CUSTOM FABRICATED TO A NOMINAL LENGTH OF 10 FEET.
  8. CONTRACTOR SHALL BLOCK OUT BOLT SLOTS BEFORE CASTING CONCRETE.
  9. POLE SAFE SKIRT SHALL BE CUSTOM TO FIT 8.5" BOLT CIRCLE.



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 ELECTRICAL MECHANICAL  
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 NEW ORLEANS, LA 70112  
 504.799.3653

|                      |               |
|----------------------|---------------|
| SHEET NUMBER         | E-7           |
| DESIGNED             | Y.S.          |
| CHECKED              | Y.S.          |
| DATE                 | 10/10/2025    |
| PROJECT              | 23-EN-HC-0037 |
| CITY                 | Y.S.          |
| STATE                | LA            |
| BY                   |               |
| REVISION DESCRIPTION |               |
| NO.                  |               |
| DATE                 |               |

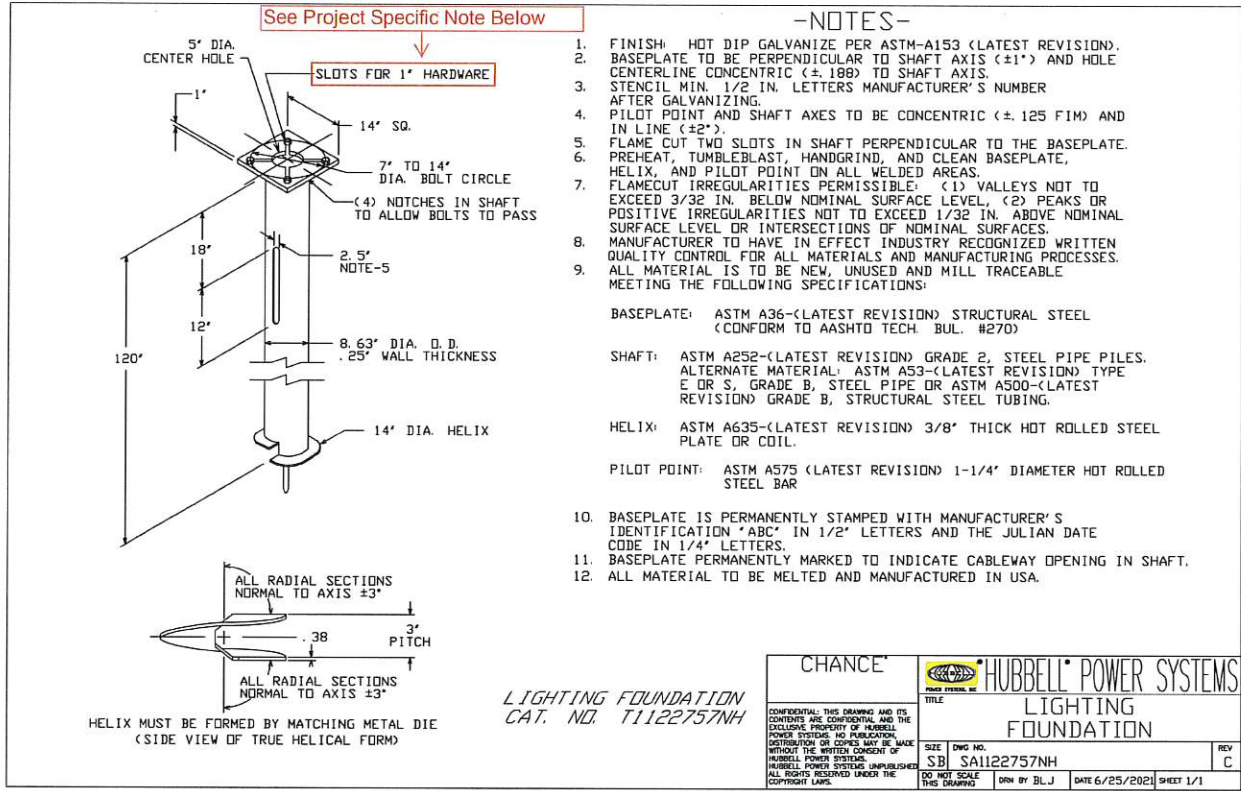
100% FINAL PLANS - ISSUED FOR CONSTRUCTION

FOUNDATION AND CONCRETE CAP DETAILS

PERKINS ROAD OVERPASS DISTRICT ENHANCEMENTS

CITY OF BATON ROUGE  
 PART OF EAST BATON ROUGE





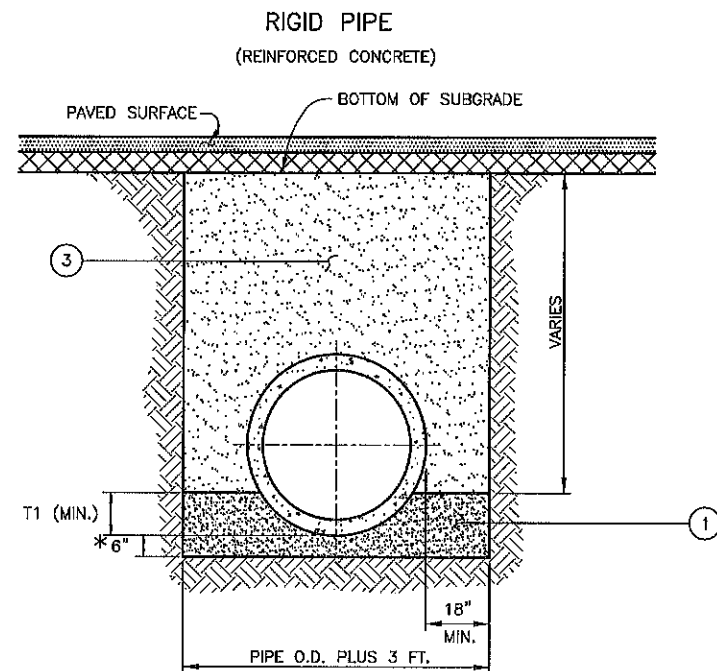
| ITEM NO.   | DESCRIPTION                                                                                                                     | UNIT | QUANTITY |
|------------|---------------------------------------------------------------------------------------------------------------------------------|------|----------|
| 9900045-1  | Bore 1" HDPE Sch.80 Conduit                                                                                                     | LF   | 380      |
| 9900045-2  | Bore 2" HDPE Sch.80 Conduit                                                                                                     | LF   | 70       |
| 9900045-3  | Trenching and Backfilling 1" Sch. 80 PVC                                                                                        | LF   | 2,180    |
| 9900045-4  | Trenching and Backfilling 2" Sch. 80 PVC                                                                                        | LF   | 300      |
| 9900045-5  | 3#6, 1#6 Green Gnd XHHW-2 Conductors (in 2" conduit paid under 9900045-2 or 9900045-4)                                          | LF   | 95       |
| 9900045-6  | 2#6, 1#6 Green Gnd XHHW-2 Conductors (in 1" conduit paid under 9900045-1 or 9900045-3)                                          | LF   | 480      |
| 9900045-7  | 2#8, 1#8 Green Gnd XHHW-2 Conductors (in 1" conduit paid under 9900045-1 or 9900045-3)                                          | LF   | 1,930    |
| 9900045-8  | 2#10, 1#10 Green Gnd XHHW-2 Conductors (in 1" conduit paid under 9900045-3)                                                     | LF   | 160      |
| 9900045-9  | Bollard Light Fixture - both 13.3W and 23W with 12"x12"x12" concrete Foundation (PMBOR-FLT-LS-CS-B2)                            | EA   | 34       |
| 9900045-10 | Area Light 16' MH - (TORRES - AH256-T4-41F)                                                                                     | EA   | 11       |
| 9900045-11 | Area Light 25' MH - (TORRES - AH256-T4-41F)                                                                                     | EA   | 2        |
| 9900045-12 | Uplight and 9"x9"x9" concrete Foundation (SCARAB - EL700/12L)                                                                   | EA   | 13       |
| 9900045-13 | Electrical Service Point (Controller) including concrete foundation                                                             | EA   | 2        |
| 9900045-14 | Breakaway Couplings, skirts and Fused Cable Connectors                                                                          | EA   | 13       |
| 9900045-15 | Meter Pole with Meter Base - 100 amps and Service Disconnect - 30 amps including 2" Sch. 80 PVC from Meter Pole to Entrance Cap | EA   | 2        |
| 9900045-16 | Helical Light Pole Foundation - For Entergy Owned Lights (1" Hardware)                                                          | EA   | 3        |
| 9900045-17 | Helical Light Pole Foundation - For Area Lights (3/4" Hardware)                                                                 | EA   | 13       |
| 9900045-18 | Helical Light Pole Foundation - Concrete Mowing Aprons                                                                          | EA   | 16       |
| 9900045-19 | Exploration Excavation                                                                                                          | EA   | 8        |

NOTE:  
HELICAL PILE SHOWN HERE ARE CUSTOM MADE. CONTRACTOR SHALL COORDINATE MEASUREMENTS, HARDWARE AND PART NO. WITH THE MANUFACTURER.  
CONTRACTOR SHALL SUBMIT MANUFACTURER SHOP DRAWING AND APPROVED BY THE ENGINEER BEFORE ORDERING AND/OR FABRICATION OF THE  
HELICAL PILE FOUNDATION.

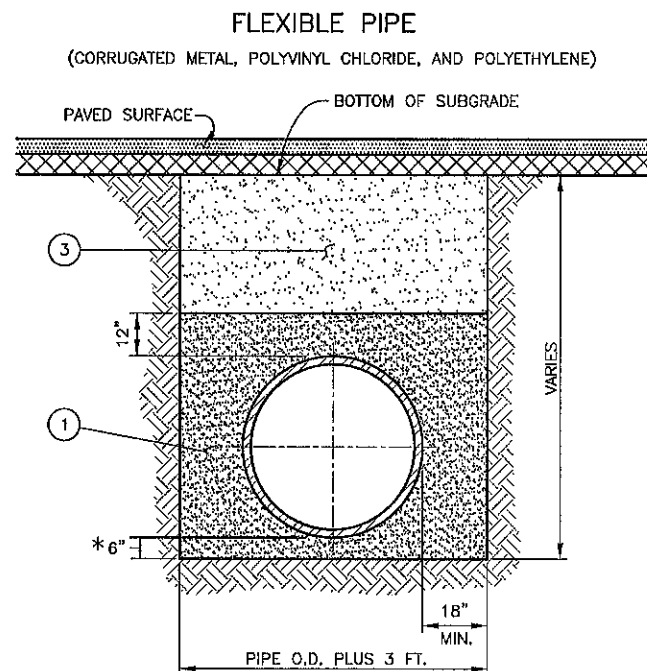
PROJECT SPECIFIC NOTE:  
16' AND 25' MH. AREA LIGHT -  
- HELICAL PILE SHALL HAVE SLOTS FOR  $3/4"$  HARDWARE  
- BOLTS: CARRIAGE BOLT,  $3/4"$  - 10UNC-2A PER ANSI B-18.5, SAE J427 GRADE-5  
- NUTS: HEAVY HEX NUTS PER ASTM A194 GRADE 2H OR ASTM A563 GRADE DH, MEETING THE SUPPLEMENTARY REQUIREMENTS OF ASTM A563;  $3/4"$  - 10UNC-2B PER ANSI B18.2.2.  
- WASHER SHALL BE HARDENED STEEL WASHER AS PER ASTM F436  
  
35' MH. STREET LIGHT -  
- HELICAL PILE SHALL HAVE SLOTS FOR 1" HARDWARE  
- BOLTS: CARRIAGE BOLT, 1-8UNC-2A PER ANSI B-18.5, SAE J429 GRADE-5.  
- NUTS: HEAVY HEX NUTS PER ASTM A194 GRADE 2H OR ASTM A563 GRADE DH, MEETING THE SUPPLEMENTARY REQUIREMENTS OF ASTM A563; 1-8UNC-2B PER ANSI B18.2.2.  
- WASHER SHALL BE HARDENED STEEL WASHER AS PER ASTM F436



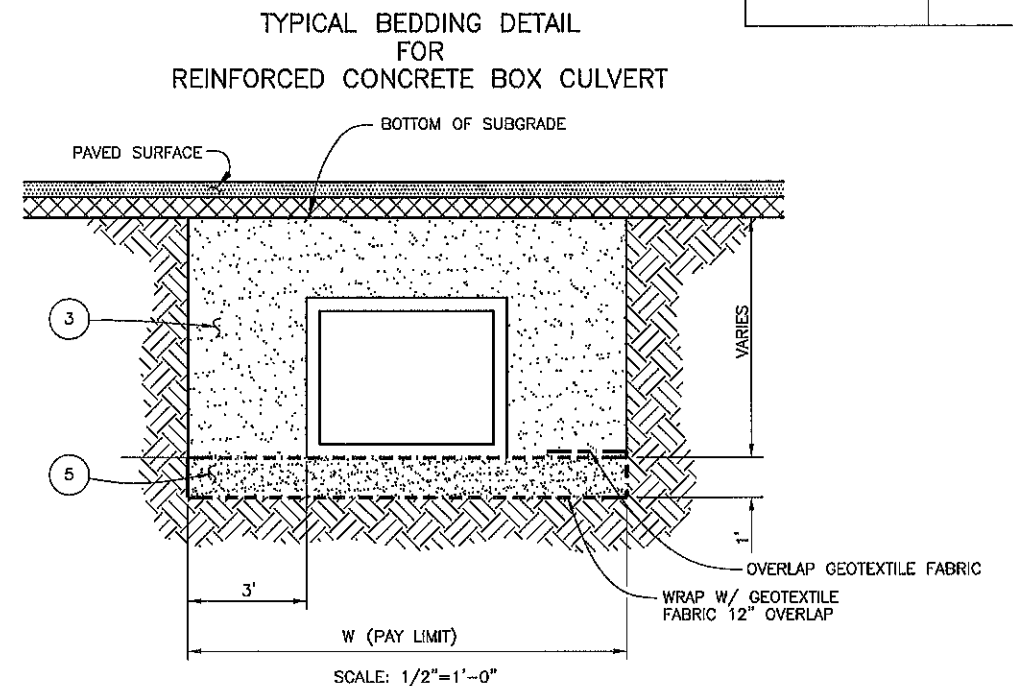
|             |       |
|-------------|-------|
| PROJECT NO. | SHEET |
|             |       |



PIPE UNDER OR WITHIN 5 FEET OF STREETS AND PAVED SURFACES.  
SCALE: 1/2"=1'-0"



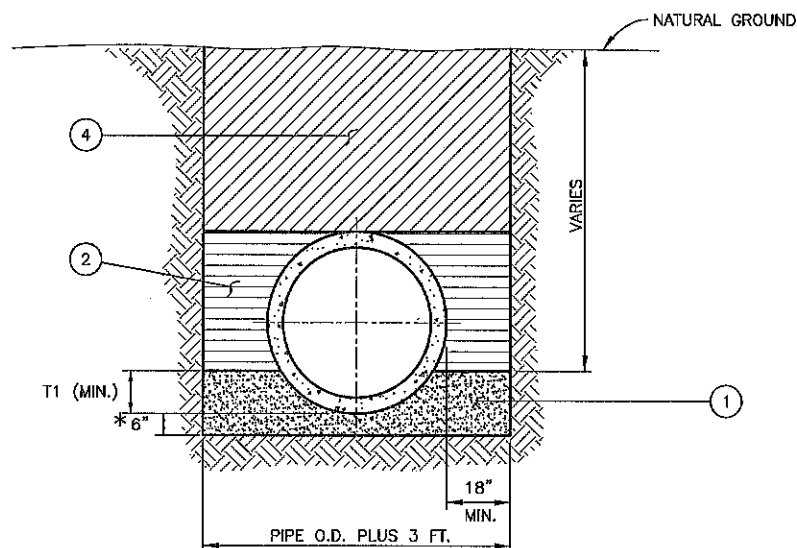
PIPE UNDER OR WITHIN 5 FEET OF STREETS AND PAVED SURFACES.  
SCALE: 1/2"=1'-0"



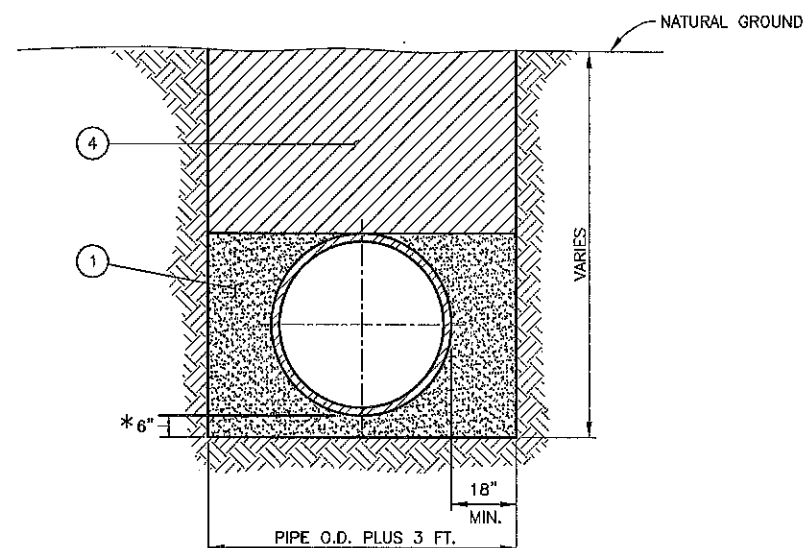
#### GENERAL NOTES

ALL MATERIALS AND WORK SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF BATON ROUGE AND PARISH OF EAST BATON ROUGE—"STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".

\* BEDDING UNDER PIPE SHALL BE 6" UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS.



OPEN GROUND OUTSIDE LIMITS OF STREETS AND PAVED SURFACES  
SCALE: 1/2"=1'-0"



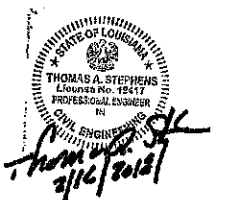
OPEN GROUND OUTSIDE LIMITS OF STREETS AND PAVED SURFACES  
SCALE: 1/2"=1'-0"

#### LEGEND

- BEDDING MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY. (NO DIRECT PAY).
- BACKFILL MATERIAL (QUALITY EXCAVATED OR SELECT MATERIAL OR SAND), COMPACTED TO A DENSITY AT LEAST EQUAL TO SURROUNDING UNDISTURBED SOIL. (NO DIRECT PAY).
- BACKFILL MATERIAL (BACKFILL SAND), COMPACTED TO 95% STANDARD PROCTOR DENSITY. (NO DIRECT PAY).
- BACKFILL MATERIAL (QUALITY EXCAVATED OR SELECT MATERIAL), COMPACTED TO A DENSITY AT LEAST EQUAL TO THE SURROUNDING UNDISTURBED SOIL. (NO DIRECT PAY).
- 67 LIMESTONE W/ GEOTEXTILE FABRIC.

#### PIPE BEDDING SCHEDULE (RIGID PIPE)

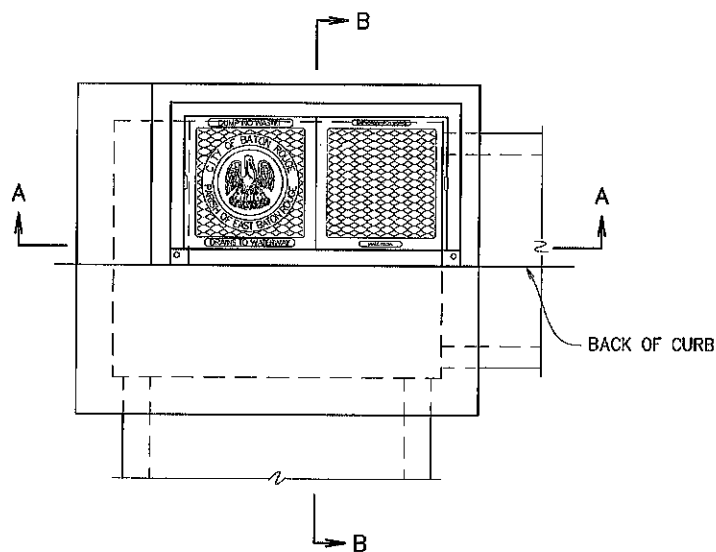
| PIPE SIZE | T1 (MIN.) |
|-----------|-----------|
| 12"-30"   | 6"        |
| 36"-60"   | 12"       |
| 66"-96"   | 18"       |



|      |             |    |
|------|-------------|----|
| DATE | DESCRIPTION | BY |
|      | REVISIONS   |    |

|                                                                                                        |                           |                         |
|--------------------------------------------------------------------------------------------------------|---------------------------|-------------------------|
| STANDARD PLAN NO.<br>701-01                                                                            | DATED<br>February 8, 2008 | SHEET NO.<br>1 OF 1     |
| STANDARD BEDDING AND BACKFILL<br>DETAILS FOR<br>STORM DRAINAGE CONDUIT                                 |                           |                         |
| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                           |                         |
| DESIGNED<br>R. ELLIS                                                                                   | DRAWN<br>G. VANICE        | CHECKED<br>R. ELLIS     |
|                                                                                                        |                           | APPROVED<br>T. STEPHENS |





TOP VIEW  
SINGLE CROSS DRAIN  
SCALE: 3/4"=1'-0"

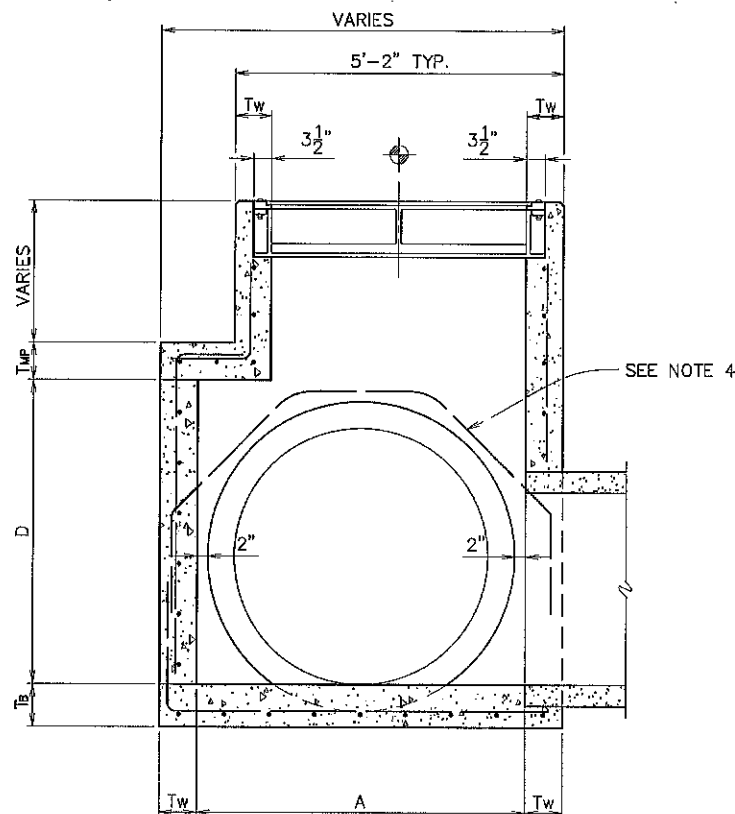
| PIPE SIZE  |                          | DIMENSION     |               |        |     |              |             |
|------------|--------------------------|---------------|---------------|--------|-----|--------------|-------------|
| ROUND PIPE | ARCH PIPE (ROUND EQUIV.) | A SINGLE PIPE | A DOUBLE PIPE | B      | C   | D ROUND PIPE | D ARCH PIPE |
| 15"        | 15"                      | 4'-0"         | 5'-0"         | 2'-3"  | 15" | 2'-0"        | 2'-0"       |
| 18"        | 15"                      | 4'-0"         | 5'-7"         | 2'-3"  | 15" | 2'-0"        | 2'-0"       |
| 24"        | 18"                      | 4'-0"         | 6'-7"         | 2'-10" | 15" | 2'-7"        | 2'-0"       |
| 30"        | 24"                      | 4'-9"         | 8'-9"         | 3'-5"  | 15" | 3'-2"        | 2'-2"       |
| 36"        | 30"                      | 4'-0"         | 8'-11"        | 4'-0"  | 15" | 3'-8"        | 2'-6"       |
| 42"        | 36"                      | 4'-8"         | 10'-5"        | 4'-8"  | 17" | 4'-3"        | 2'-11"      |
| 48"        | 42"                      | 5'-2"         | 11'-7"        | 5'-2"  | 19" | 4'-9"        | 3'-4"       |
| 54"        | 48"                      | 5'-9"         | 12'-11"       | 5'-9"  | 21" | 5'-4"        | 3'-9"       |
| 60"        | 54"                      | 6'-4"         | 14'-3"        | 6'-4"  | 23" | 5'-10"       | 4'-2"       |
| 72"        | 60"                      | 7'-8"         | 16'-8"        | 7'-8"  | 24" | 6'-11"       | 4'-7"       |
| 84"        | 72"                      | 8'-10"        | 20'-0"        | 8'-10" | 36" | 8'-0"        | 5'-5"       |

CENTERED CASTING

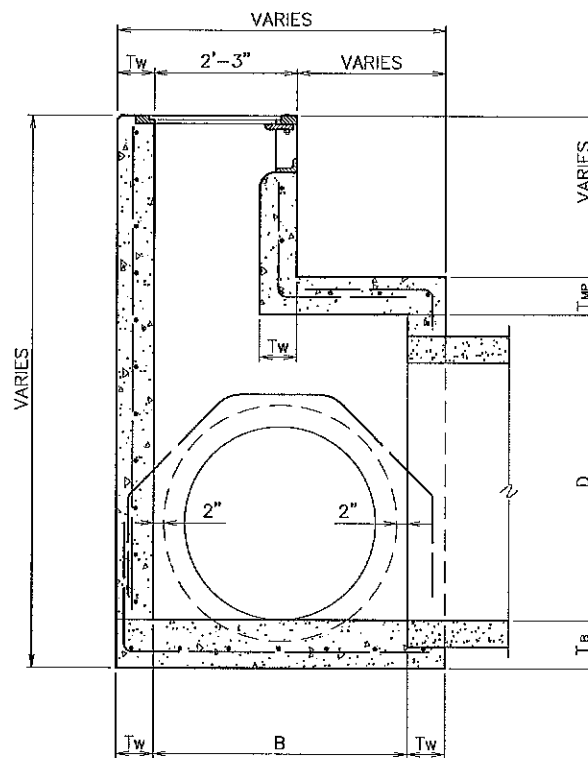
NOTE:

- SEE STANDARD PLAN 702-99 FOR FRAME AND COVER DETAILS. TYPE 1 FRAME AND COVER REQUIRED. SINGLE FRAME AND COVER ALLOWED.
- PRECAST CONCRETE INLETS CONFORMING TO STANDARD PLAN 702-97 MAY BE FURNISHED.
- CONCRETE SHALL NOT BE PLACED ABOVE BOTTOM OF PAVEMENT UNTIL PAVING ADJACENT TO INLET HAS BEEN COMPLETED.
- DIAGONAL REINFORCEMENT REQUIRED FOR PIPE LARGER THAN 36". BARS SHALL LAP TO A FULL LENGTH VERTICAL BAR W/18d LAP LENGTH.
- A & B DIMENSIONS MAY BE VARIED FOR SKEWED PIPE.
- SEE STANDARD PLAN 702-96 FOR THICKNESS, REINFORCING STEEL, AND OTHER STRUCTURAL DETAILS.
- SEE STANDARD PLAN 702-98 FOR CURB TRANSITION DETAILS.

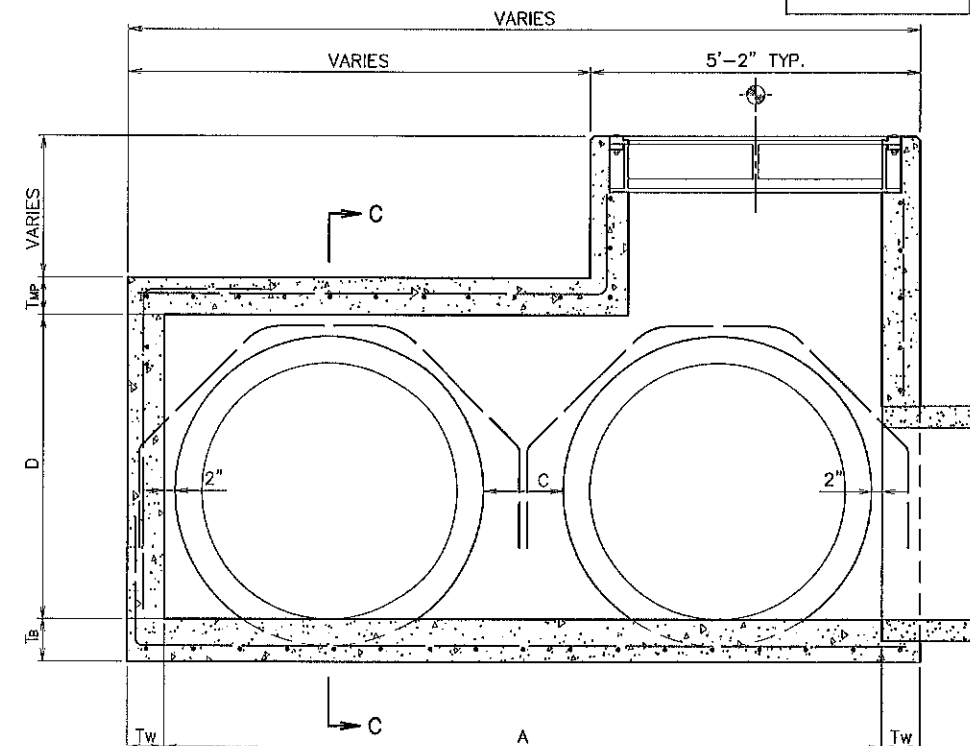
PLAN STATION CALL-OUT



SECTION A-A  
SINGLE CROSS DRAIN  
SCALE: 3/4"=1'-0"



SECTION B-B  
SCALE: 3/4"=1'-0"



SECTION A-A  
DOUBLE CROSS DRAIN  
SCALE: 3/4"=1'-0"



|                             |                       |                    |
|-----------------------------|-----------------------|--------------------|
| STANDARD PLAN No.<br>702-03 | DATED<br>DEC. 6, 2010 | SHT. No.<br>1 OF 1 |
|-----------------------------|-----------------------|--------------------|

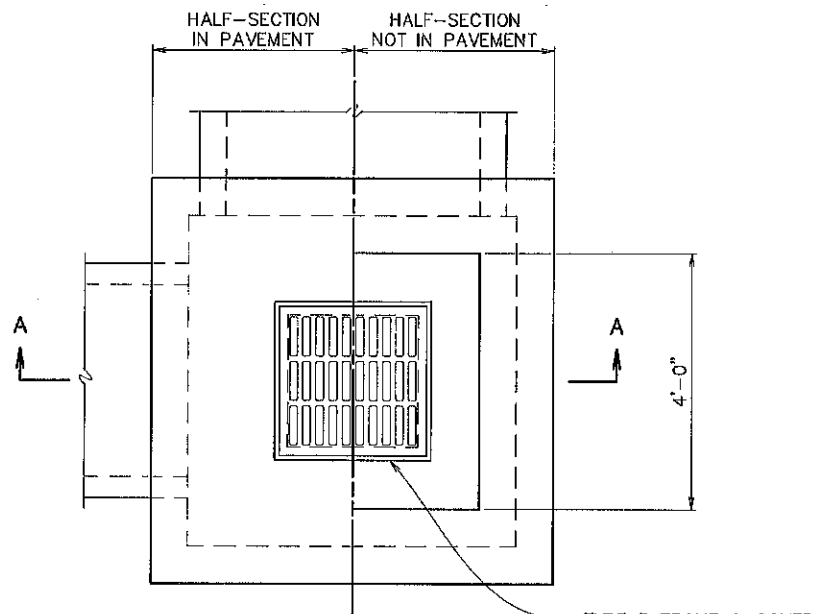
SINGLE CURB INLET  
(PIPE UNDER CURB)

|                                                                                                        |              |                |                         |
|--------------------------------------------------------------------------------------------------------|--------------|----------------|-------------------------|
| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |              |                |                         |
| DESIGNED<br>GLP                                                                                        | DRAWN<br>GLP | CHECKED<br>GLP | APPROVED<br>T. STEPHENS |

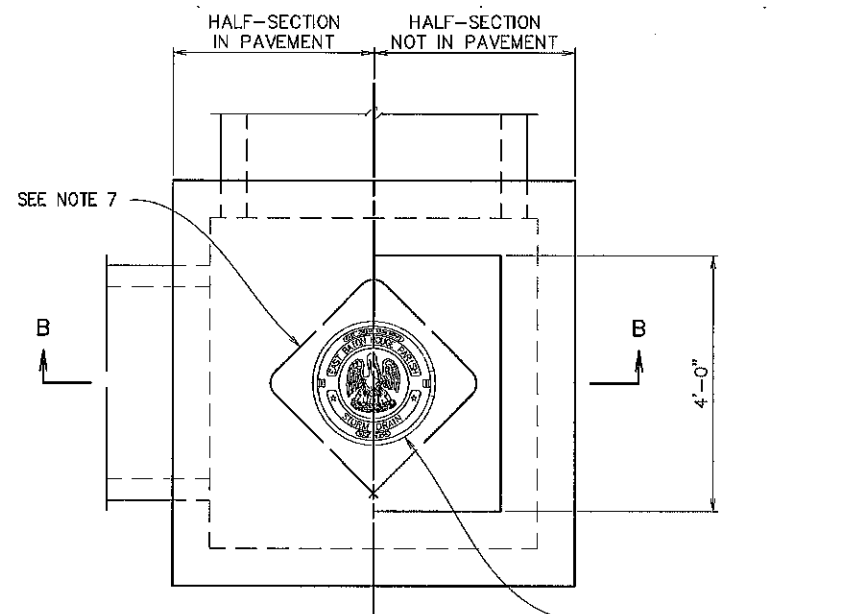
702-03



|             |       |
|-------------|-------|
| PROJECT NO. | SHEET |
|             |       |



TOP VIEW  
TYPE 3  
SCALE: 3/4"=1'-0"



TOP VIEW  
TYPE 6  
SCALE: 3/4"=1'-0"

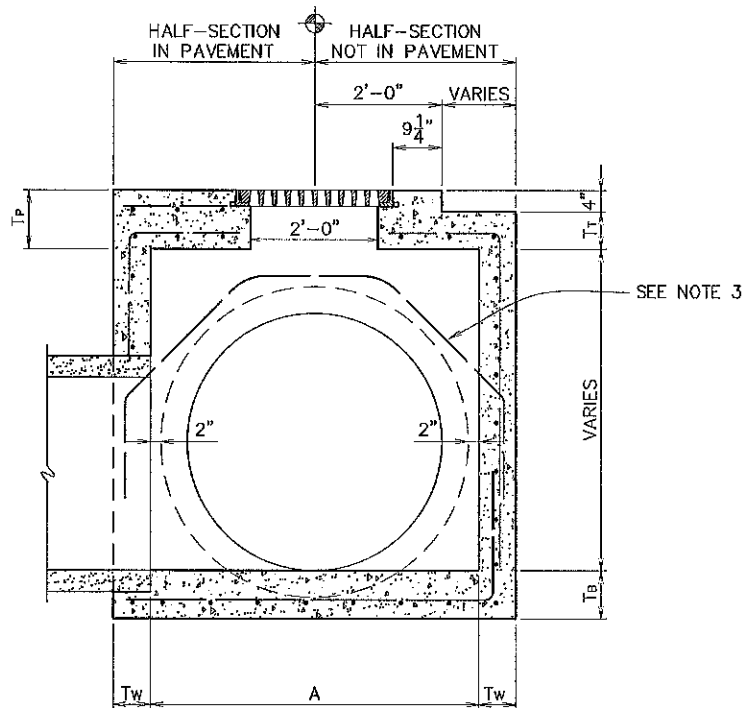
| PIPE SIZE  |                          | DIMENSION |
|------------|--------------------------|-----------|
| ROUND PIPE | ARCH PIPE (ROUND EQUIV.) | A *       |
| 15"        | -                        | 2'-10"    |
| 18"        | 15"                      | 2'-10"    |
| 24"        | 18"                      | 2'-10"    |
| 30"        | 24"                      | 3'-5"     |
| 36"        | 30"                      | 4'-0"     |
| 42"        | 36"                      | 4'-8"     |
| 48"        | -                        | 5'-2"     |
| 54"        | 42"                      | 5'-9"     |
| 60"        | 48"                      | 6'-4"     |
| -          | 54"                      | 6'-8"     |
| 72"        | 60"                      | 7'-6"     |
| 84"        | 72"                      | 8'-10"    |

\* INCREASE AS REQUIRED TO PROVIDE MINIMUM TOP WIDTH OF 4' SQUARE.

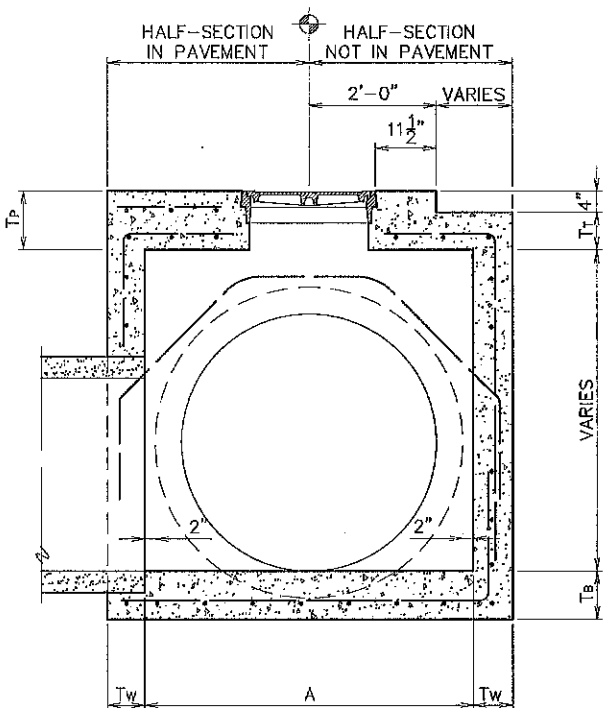
NOTE:

- SEE STANDARD PLAN 702-99 FOR FRAME AND COVER DETAILS. TYPE 3 OR TYPE 6 FRAME AND COVER REQUIRED.
- PRECAST CONCRETE STRUCTURES CONFORMING TO STANDARD PLAN 702-97 MAY BE FURNISHED.
- DIAGONAL REINFORCEMENT REQUIRED FOR PIPE LARGER THAN 36". BARS SHALL LAP TO A FULL LENGTH VERTICAL BAR W/18d LAP LENGTH.
- DIMENSION A MAY BE VARIED FOR SKEWED PIPE.
- SEE STANDARD PLAN 702-96 FOR THICKNESS, REINFORCING STEEL, AND OTHER STRUCTURAL DETAILS.
- SEE STANDARD PLAN 702-98 FOR CURB TRANSITION DETAILS.
- DIAGONAL REINFORCEMENT REQUIRED. USE SAME REBAR SIZE AS TOP REINFORCING. PLACE AS BOTTOM STEEL IF LOCATED IN PAVEMENT.

PLAN STATION CALL-OUT



SECTION A-A  
TYPE 3  
SCALE: 3/4"=1'-0"



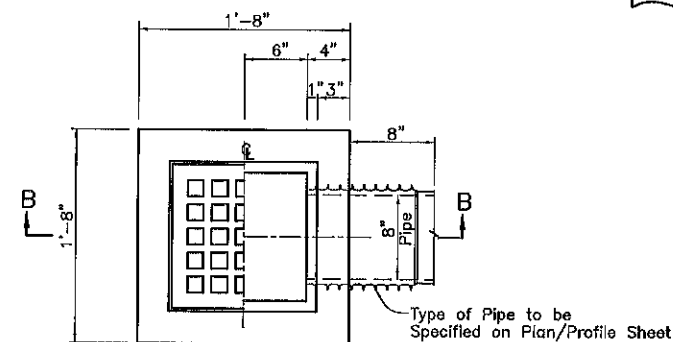
SECTION B-B  
TYPE 6  
SCALE: 3/4"=1'-0"

THOMAS A. STEPHENS  
License No. 19477  
PROFESSIONAL ENGINEER  
2/16/2015

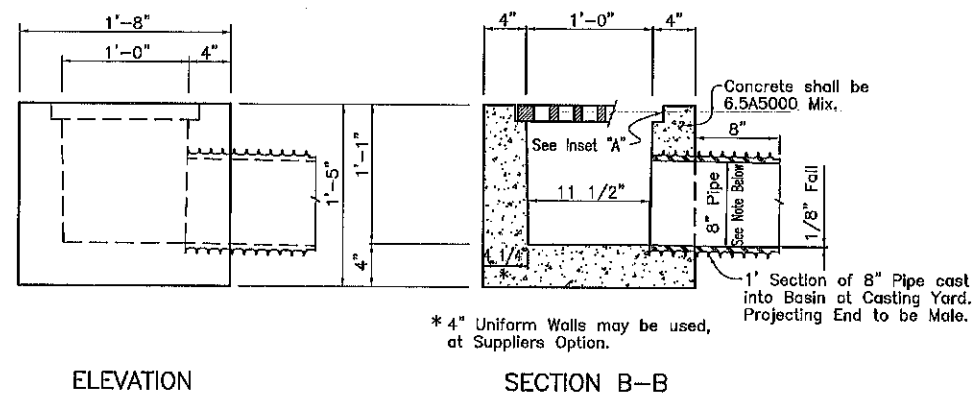
|                                                                                                        |                       |                    |
|--------------------------------------------------------------------------------------------------------|-----------------------|--------------------|
| STANDARD PLAN No.<br>702-20                                                                            | DATED<br>DEC. 6, 2010 | SHT. No.<br>1 OF 1 |
| CAST IRON GRATE INLET<br>AND JUNCTION BOX                                                              |                       |                    |
| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                       |                    |
| DESIGNED<br>GLP                                                                                        | DRAWN<br>GLP          | CHECKED<br>GLP     |
| APPROVED<br>T. STEPHENS                                                                                |                       |                    |

| DATE | DESCRIPTION | BY |
|------|-------------|----|
|      | REVISION    |    |





Weight Approx. 460 lbs. plus Grate

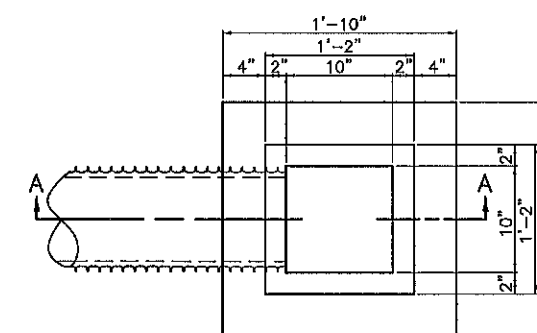


ELEVATION

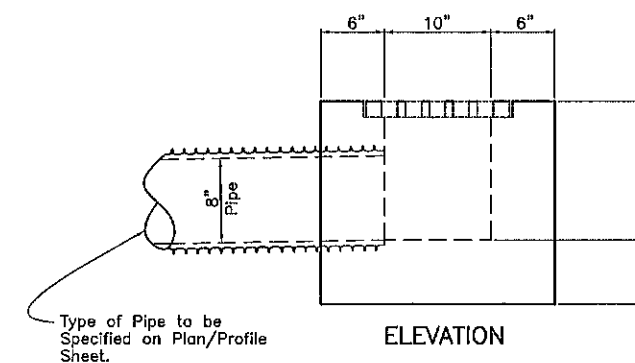
SECTION B-B

### PRECAST OPTION

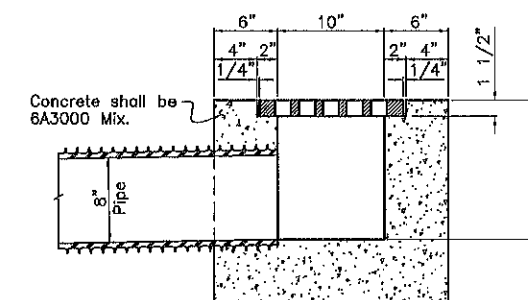
Notes:  
Concrete to be Class "p"  
Catch Basin to be supplied complete,  
including C.I. Grate.  
The Catch Basin Supplier shall be  
responsible for Selection and Placement  
of any Pick-up and Handling Devices.  
Setting Tolerance to be +0 & -1"



PLAN  
Grate not Shown



ELEVATION



SECTION A-A

NOT TO BE USED WHERE  
SUBJECT TO VEHICULAR  
TRAFFIC

NOTES:

1. SEE STANDARD PLAN 702--99 FOR FRAME COVER DETAILS.
2. PRECAST CONCRETE INLETS CONFORMING TO STANDARD PLAN 702--50 MAY BE FURNISHED. GROUT AS REQUIRED TO CREATE INVERTS.
3. THE CONTRACTOR SHALL NOT POUR ABOVE BOTTOM OF PAVEMENT SLAB UNTIL PAVING ADJACENT TO INLET HAS BEEN COMPLETED.
4. DIAGONAL REINFORCEMENT FOR PIPE LARGER THAN 36"

|      |             |    |                                                                                                               |            |         |             |
|------|-------------|----|---------------------------------------------------------------------------------------------------------------|------------|---------|-------------|
|      |             |    | ENGINEERING DIVISION<br><b>DEPARTMENT OF PUBLIC WORKS</b><br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |            |         |             |
| DATE | DESCRIPTION | BY | DESIGNED                                                                                                      | DRAWN      | CHECKED | APPROVED    |
|      |             |    | R. FLIS                                                                                                       | G. VANNINE | R. FLIS | T. STEPHENS |



| GATES                                                 |                         |          |                        |          |
|-------------------------------------------------------|-------------------------|----------|------------------------|----------|
| WIDTH OF GATE<br>SINGLE OR ONE LEAF<br>OR DOUBLE GATE | GATE FRAME<br>O.D.(IN.) | LBS./FT. | GATE POST<br>O.D.(IN.) | LBS./FT. |
| 13' MAXIMUM                                           | 1.90                    | 2.71     | 4.00                   | 9.10     |
| 13' TO 18'                                            | 1.90                    | 2.71     | 6.625                  | 18.97    |
| OVER 18'                                              | 1.90                    | 2.71     | 8.625                  | 24.70    |

The Contractor may substitute the following fencing materials in lieu of those materials specified:

Chain link fence posts, rails, braces and gate frame materials may be round pipe manufactured from steel conforming to ASTM A-569, cold rolled, electric welded and externally triple coated with a minimum of 0.9 ounces per square foot of high grade slab zinc conforming to ASTM B-6; a minimum of 15.0 micrograms of chromate conversion coating per square inch, and an electrostatically applied thermoplastic clear polyurethane acrylic coating having a minimum dry film thickness of not less than 0.3 mil. The interior surface shall also be protected by an application of zinc rich based organic coating (having a minimum zinc powder loading of not less than 87.0 percent by weight) to be applied after fabrication.

Posts, rails, braces and gate frame materials shall conform to the following schedule:

| USE                                | PIPE SIZE    | MINIMUM WEIGHT     |
|------------------------------------|--------------|--------------------|
| End, Corner, Slope and Pull Posts: | 3.50 Inches  | 5.71 lbs. per L.F. |
| Line Posts:                        | 3.00 Inches  | 4.64 lbs. per L.F. |
| Gate Posts:                        | 3.50 Inches  | 5.71 lbs. per L.F. |
| Top Rails and Braces:              | 1.625 Inches | 1.84 lbs. per L.F. |
| Frame and Stiffener for gates:     | 2.00 Inches  | 2.28 lbs. per L.F. |

# GENERAL NOTES:

The fence installation and details shown are typical and may vary in accordance with different manufacturers, provided that they meet the Standard Specifications.

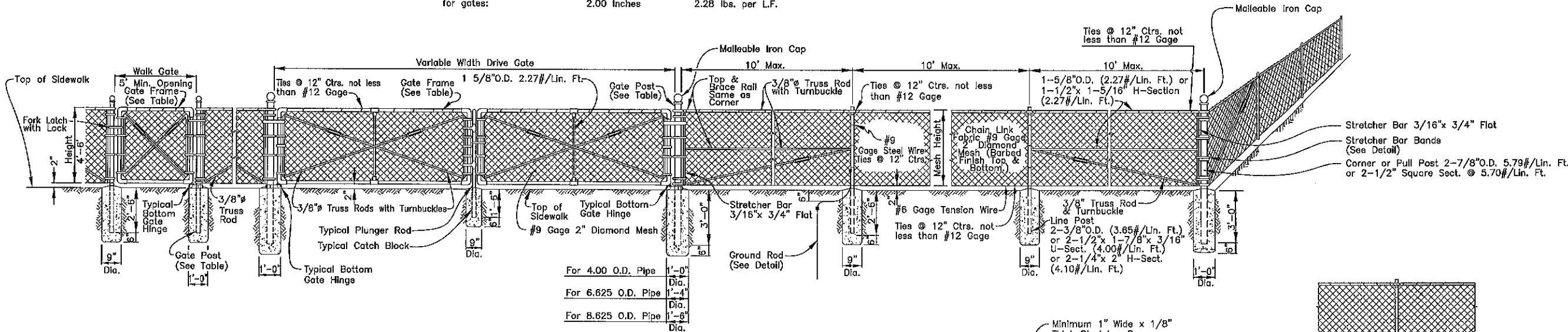
Any Galvanized Fence Item Which has its Surface Abraded Shall Be Painted With Rust-Oleum "Galvinox," or an Approved Equal.

Electrical grounding devices are to be installed in accordance with Subsection 902-3 of the Standard Specifications.

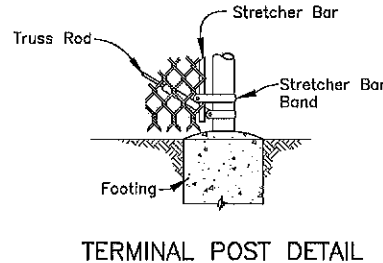
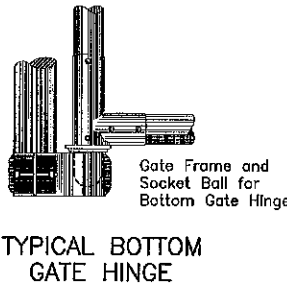
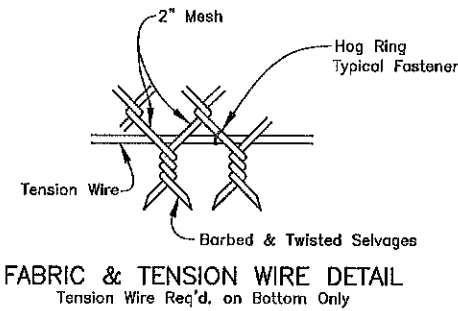
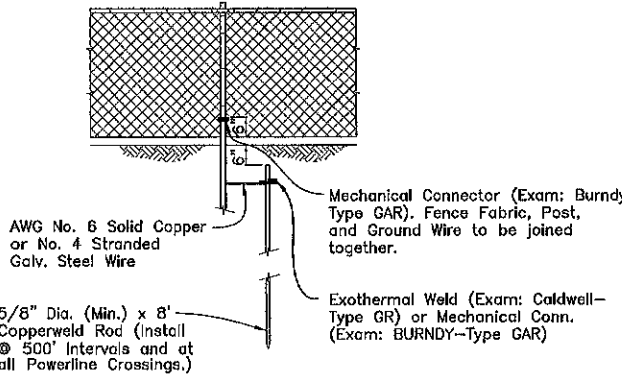
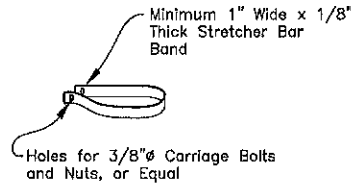
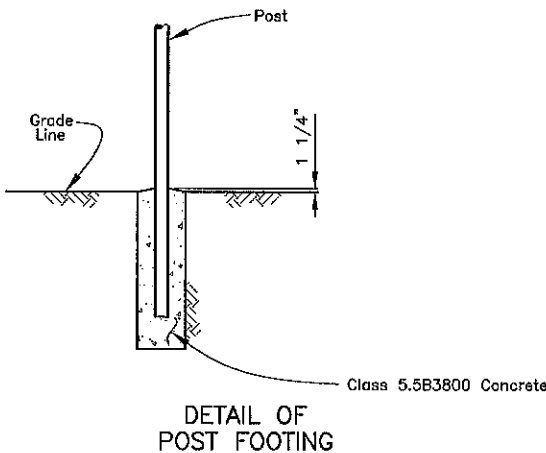
All bolts to be upset to discourage vandalism.

## NOTE:

Lateral Fence to be same Construction As Frontage Fence.



## CHAIN LINK FENCE N.T.S.



|                                                                                                        |                           |                     |
|--------------------------------------------------------------------------------------------------------|---------------------------|---------------------|
| STANDARD PLAN NO.<br>902-02                                                                            | DATED<br>February 6, 2008 | SHEET NO.<br>1 OF 1 |
| CHAIN LINK FENCE & GATES                                                                               |                           |                     |
| 4' - 5' - 6' HEIGHT                                                                                    |                           |                     |
| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                           |                     |
| DESIGNED<br>R. ELLIS                                                                                   | DRAWN<br>G. VANNICE       | CHECKED<br>R. ELLIS |
| APPROVED<br>T. STEPHENS                                                                                |                           |                     |

| DATE | DESCRIPTION<br>REVISIONS | BY |
|------|--------------------------|----|
|      |                          |    |



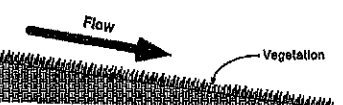
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| PROJECT NO. | SHEET |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <h3>Mulching</h3>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p><b>DESCRIPTION</b><br/>Mulching is the application of a layer of chopped straw, hay or other material which is spread uniformly over barren areas to reduce the effects of erosion from rainfall. Types of mulch include organic materials, straw, wood chips, bark or other fibers. Mulch also comes in prepackaged forms, using straw, hay or other material with organic and inorganic binding systems.</p> <p><b>PRIMARY USE</b><br/>Mulch is used to temporarily and/or permanently stabilize clear or freshly seeded areas. It protects the soil from erosion and moisture loss by lessening the effects of wind, water, and sunlight. It also decreases the velocity of sheet flow, thereby reducing the volume of sediment-laden water flow leaving the mulched area.</p> <p><b>APPLICATIONS</b><br/>Mulch may be used on any construction-related disturbed area for surface protection including:<br/> <ul style="list-style-type: none"> <li>Freshly seeded or planted areas.</li> <li>Areas at risk due to the time period being unsuitable for growing vegetation.</li> <li>Areas that are not conducive to seeding or planting.</li> </ul> </p> <p><b>DESIGN CRITERIA</b><br/>Mulch may be used by itself or in combination with netting or other anchors to promote soil stabilization.</p> <p>Several manufacturers provide an organic mulch with an attached netting to simplify installation. Installation should adhere to manufacturer's specifications and requirements.</p> <ul style="list-style-type: none"> <li>Choice of mulch depends largely on slope, climate, and soil type in addition to availability of different materials. Straw and hay are the recommended choices due to their availability and biodegradability. Mulch should be applied in an even and uniform manner where concentrated water flow is negligible.</li> </ul> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/>Sediment Trapping<br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization<br/>Waste Management<br/>Housekeeping Practices</p> <p><b>Targeted Constituents</b><br/> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> </p> <p><b>Implementation Requirements</b><br/> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt;5%</li> </ul> </p> <p><b>Legend</b><br/> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul> </p> <p><b>BMP</b><br/>1</p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge<br/>Department of Public Works</p> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <h3>Mulching</h3> <ul style="list-style-type: none"> <li>Application of straw or hay mulch should be approximately 2 tons dry per acre spread uniformly across the disturbed area. Other material should be applied such that 25% of the soil is visible through the mulch.</li> <li>For areas using straw mulch and the slope is greater than 3-5%, anchoring of the mulch with a Krimper Tool is required.</li> </ul> <p><b>LIMITATIONS</b><br/>Mulches are subject to removal by wind or water under severe climatic conditions. Mulches lower the soil temperature which may result in longer seed germination periods.</p> <p><b>MAINTENANCE REQUIREMENTS</b><br/>Mulched areas must be inspected on a weekly basis, and after significant (&gt;0.5 inch) rainfall, for thin or bare spots caused by natural decomposition or weather related events. Mulch in high traffic areas should be replaced on a regular basis to maintain uniform protection.</p> |  |
| <p><b>BMP</b><br/>1</p> <p>Department of Public Works</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |

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| <h3>Erosion Control Mats</h3>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p><b>DESCRIPTION</b><br/>An erosion control mat (ECM) is a geomembrane or biodegradable fabric placed over disturbed areas to limit the effects of erosion due to rainfall impact and runoff across barren soil. Erosion control mats are manufactured by a wide variety of vendors addressing a wide variety of conditions such as vegetation establishment, protection from heavy rainfall, and high velocity flow. Types of matting include organic (jute, straw) and synthetic (plastic and glass fiber) materials.</p> <p><b>PRIMARY USE</b><br/>Mats can provide both temporary and/or permanent stabilization for disturbed soil or barren areas. It is used for difficult to stabilize areas such as steep slopes, temporary or permanent drainage swales, embankments or high traffic (pedestrian) areas. Some mats are reusable, reducing the initial cost of the installation.</p> <p><b>APPLICATIONS</b><br/>Mats can be used on any construction-related disturbed area, but are particularly effective for erosion control of fine grained soils, and on short, steep slopes (such as stream banks) where erosion is high and growth of vegetation is slow.</p> <p><b>DESIGN CRITERIA</b><br/>A mat may be used by itself or in combination with netting or other anchors to promote soil stabilization. Choice of matting depends largely on slope, climate, soil type, and durability. Mats are usually installed according to the manufacturer's recommended guidelines. After appropriate installation, the matting should be checked for: uniform contact with the soil; security of the lap joints; and flushness of the staples with the ground.</p> <p>Manufacturers information will verify acceptable applications for a particular product.</p> <p><b>LIMITATIONS</b><br/>Although matting is highly effective in controlling erosion, it may be less cost-effective than other BMPs for erosion control and it may require a</p> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/>Sediment Trapping<br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization<br/>Waste Management<br/>Housekeeping Practices</p> <p><b>Targeted Constituents</b><br/> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> </p> <p><b>Implementation Requirements</b><br/> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt;5%</li> </ul> </p> <p><b>Legend</b><br/> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul> </p> <p><b>BMP</b><br/>2</p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge<br/>Department of Public Works</p> |

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| <h3>Erosion Control Mats</h3> <p>contractor with considerable mat installation experience for installation.</p> <p><b>MAINTENANCE REQUIREMENTS</b><br/>Matted areas must be inspected on a weekly basis, and after significant (&gt;0.5 inch) rainfall, for bare spots caused by weather related events. Missing or loosened matting must be replaced or re-anchored.</p> |  |
| <p><b>BMP</b><br/>2</p> <p>Department of Public Works</p>                                                                                                                                                                                                                                                                                                                 |  |

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| <h3>Vegetation</h3>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p><b>DESCRIPTION</b><br/>Vegetation, as a Best Management Practice, is the sowing of annual grasses, small grains or legumes to provide interim and permanent vegetative stabilization for disturbed areas. Unless otherwise specified, Bermuda Grass is to be used for permanent seeding. Temporary stabilization may be achieved during winter by seeding with Rye Grass.</p> <p><b>PRIMARY USE</b><br/>Vegetation is used as a temporary or permanent stabilization technique for areas disturbed by construction but not protected by pavement, building or other structures. As a temporary control, vegetation is used to stabilize stockpiles and barren areas which are inactive for long periods of time. As a permanent control, grasses and other vegetation provide good protection for the soil along with some filtering for overland runoff. Subjected to acceptable runoff velocities, vegetation can provide a good method of permanent storm water management as well as a visual amenity to the site.</p> <p>Other BMPs may be required to assist in the establishment of vegetation. These other techniques include erosion control matting, swales and dikes to direct flow around newly seeded areas and proper grading to limit runoff velocities during construction.</p> <p><b>APPLICATIONS</b><br/>Vegetative techniques can and should apply to every construction project with few exceptions. Vegetation effectively reduces erosion in swales, stock piles, berms, mild to medium slopes and along roadways. Vegetative strips can provide some protection when used as a perimeter control for utility and site development construction.</p> <p>In many cases, the initial cost of temporary seeding may be high compared to tarps or covers for stockpiles or other barren areas subject to erosion yet inactive. This initial cost should be weighed with the amount of time the area is to remain inactive, since maintenance cost for vegetated areas is much less than most structural controls.</p> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/>Sediment Trapping<br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization<br/>Waste Management<br/>Housekeeping Practices</p> <p><b>Targeted Constituents</b><br/> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> </p> <p><b>Implementation Requirements</b><br/> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt;5%</li> </ul> </p> <p><b>Legend</b><br/> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul> </p> <p><b>BMP</b><br/>3</p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge<br/>Department of Public Works</p> |

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| <h3>Vegetation</h3> <p><b>DESIGN CRITERIA</b><br/><i>Surface Preparation</i></p> <ul style="list-style-type: none"> <li>Interim or final grading must be completed prior to seeding, minimizing all steep slopes.</li> <li>Install all necessary erosion structures such as dikes, swales, diversions, etc., prior to seeding.</li> <li>Groove or furrow slopes steeper than 3:1 on the contour line before seeding.</li> <li>Provide 4-6 inches of topsoil over unsuitable soils.</li> <li>Seed-bed should be well pulverized, loose and uniform.</li> </ul> <p><i>Plant Selection, Fertilization and Seeding</i></p> <ul style="list-style-type: none"> <li>Use only high quality, USDA certified seed.</li> <li>For permanent vegetative cover during the period from March to August (inclusive) use hulled Bermuda Grass applied at 10 - 12 pounds per acre.</li> <li>For permanent vegetative cover during the period from September to February (inclusive) use unhulled Bermuda Grass applied at 16 - 20 pounds per acre.</li> <li>For temporary stabilization on disturbed areas or stockpiles, use Rye Grass seed applied at 40 - 60 pounds per acre.</li> <li>Fertilizer shall be applied according to the manufacturer's recommendation with proper spreader equipment. Typical application rate for 10-10-10 grade fertilizer is 700-1000 pounds per acre. DO NOT OVER APPLY FERTILIZER.</li> <li>If hydro-seeding is used, do not mix seed and fertilizer more than 30 minutes before application.</li> <li>Evenly apply seed using cyclone seeder, seed drill, outdragger or hydroseeder.</li> <li>Provide adequate water to aid in establishment of vegetation.</li> <li>Use appropriate mulching techniques where necessary.</li> </ul> <p><b>LIMITATIONS</b><br/>Vegetation is not appropriate for areas subjected to heavy pedestrian or vehicular traffic. As a temporary technique, vegetation may be costly when compared to other techniques. Vegetation is not appropriate for rock, gravel or coarse grained soils unless 4 to 6 inches of topsoil is applied.</p> <p><b>MAINTENANCE REQUIREMENTS</b><br/>Protect newly seeded areas from excessive runoff and traffic until vegetation is established (mulching may be necessary). A watering and fertilizing schedule will be required as part of the SWPPP to assist in the establishment of the vegetation.</p> |  |
| <p><b>BMP</b><br/>3</p> <p>Department of Public Works</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |

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3/16/2013

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| STANDARD PLAN NO.<br>903-01                                                                            | DATED<br>FEBRUARY 25, 2008 | SHEET NO.<br>1 OF 11    |
| STORM WATER POLLUTION<br>PREVENTION PLAN<br>BEST MANAGEMENT PRACTICES                                  |                            |                         |
| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                            |                         |
| DESIGNED<br>G. CHENG                                                                                   | DRAWN<br>G. VANNICE        | CHECKED<br>G. CHENG     |
|                                                                                                        |                            | APPROVED<br>T. STEPHENS |

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| DATE | DESCRIPTION | BY |
|      | REVISIONS   |    |



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| Silt Fence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                             |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Applications</b><br>Perimeter Control<br>Slope Protection<br>Sediment Trapping<br>Channel Protection<br>Temporary Stabilization<br>Permanent Stabilization<br>Waste Management<br>Housekeeping Practices |
| <b>DESCRIPTION</b><br>A silt fence consists of geotextile fabric supported by poultry netting or other backing stretched between either wooden or metal posts with the lower edge of the fabric securely embedded in the soil. The fence is typically located downstream of disturbed areas to intercept runoff in the form of sheet flow. Silt fences provide both filtration and time for sedimentation to reduce sediment and it reduces the velocity of the runoff. Properly designed silt fence is economical since it can be re-located during construction and re-used on other projects. | <b>Targeted Constituents</b><br>• Sediment<br>• Nutrients<br>• Toxic Materials<br>• Oil & Grease<br>• Floatable Materials<br>• Other Construction Wastes                                                    |
| <b>PRIMARY USE</b><br>Silt fence is normally used as perimeter control located downstream of disturbed areas. It is only feasible for non-concentrated, sheet flow conditions.                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Implementation Requirements</b><br>• Capital Costs<br>• Maintenance<br>• Training<br>• Suitability for Slopes >5%                                                                                        |
| <b>APPLICATIONS</b><br>Silt fence is an economical means to treat overland, non-concentrated flows for all types of projects. Silt fences are used as perimeter control devices for both site developments and linear (roadway) type projects. They are most effective with coarse to silty soil types. Due to the potential of clogging, silt fence should not be used with clay soil types.                                                                                                                                                                                                    | <b>Legend</b><br>• Significant Impact<br>• Medium Impact<br>• Low Impact<br>• Unknown or Questionable Impact                                                                                                |
| <b>DESIGN CRITERIA</b><br>- Fences are to be constructed along a line of constant elevation (along a contour line) where possible.<br>- Maximum slope adjacent to the fence is 1:1.<br>- Maximum distance of flow to silt fence should be 200 feet or less.<br>- Maximum concentrated flow to silt fence shall be 1 CFS per 20 feet of fence.<br>- If 60% or less of soil, by weight, passes the U.S. Standard sieve No. 200, select the equivalent opening size (E.O.S.) to retain 85% of the soil.<br>- Maximum equivalent opening size shall be 70 (#70 sieve).                               | <b>BMP</b><br><b>4</b><br>City of Baton Rouge<br>Parish of East Baton Rouge<br>Department of Public Works                                                                                                   |

| Straw Bale Dike                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                             |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Applications</b><br>Perimeter Control<br>Slope Protection<br>Sediment Trapping<br>Channel Protection<br>Temporary Stabilization<br>Permanent Stabilization<br>Waste Management<br>Housekeeping Practices |
| <b>DESCRIPTION</b><br>A straw bale dike is a temporary barrier constructed of straw bales anchored with wood posts, that is used to intercept sediment-laden runoff generated by small disturbed areas. The straw bales can serve as both a filtration device and a damlike device to treat and redirect flow. Bales can consist of hay or straw in which straw is defined as best quality straw from wheat, oats or barley, free of weed and grass seed and hay is defined as straw which includes weed and grass seed.                          | <b>Targeted Constituents</b><br>• Sediment<br>• Nutrients<br>• Toxic Materials<br>• Oil & Grease<br>• Floatable Materials<br>• Other Construction Wastes                                                    |
| <b>PRIMARY USE</b><br>A straw bale dike is used to trap sediment-laden storm runoff from small drainage areas with relatively level grades, allowing for reduction of velocity thereby causing sediment to settle out.                                                                                                                                                                                                                                                                                                                            | <b>Implementation Requirements</b><br>• Capital Costs<br>• Maintenance<br>• Training<br>• Suitability for Slopes >5%                                                                                        |
| <b>APPLICATIONS</b><br>Straw bale dikes are used to treat flow after it leaves a disturbed area on a relatively small (<1 acre) site. Due to the limited life of the straw bale, it is cost effective for small projects of a short duration. The limited weight and strength of the straw bale makes it suitable for small, flat (< 2 percent slope) contributing drainage areas. Due to the problems with straw degradation and the lack of uniform quality in straw bales, their use is discouraged except for small residential applications. | <b>Legend</b><br>• Significant Impact<br>• Medium Impact<br>• Low Impact<br>• Unknown or Questionable Impact                                                                                                |
| Straw bales can also be used as check dams (see Check Dam BMP 5-7) for small watercourses such as interceptor swales and borrow ditches. Due to the problems in securely anchoring the bales, only small watercourses can effectively use straw bale check dams.                                                                                                                                                                                                                                                                                  | <b>BMP</b><br><b>5</b><br>City of Baton Rouge<br>Parish of East Baton Rouge<br>Department of Public Works                                                                                                   |

| Triangular Sediment Filter Dike                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                             |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Applications</b><br>Perimeter Control<br>Slope Protection<br>Sediment Trapping<br>Channel Protection<br>Temporary Stabilization<br>Permanent Stabilization<br>Waste Management<br>Housekeeping Practices |
| <b>DESCRIPTION</b><br>A Triangular Sediment Filter Dike is a self contained silt fence consisting of filter fabric wrapped around welded wire fabric shaped into a triangular cross section. While similar in use to a silt fence, the dike is reusable, sturdier, transportable and can be used on paved areas or in situations where it is impractical to install embedded posts for support.                                                                                                    | <b>Targeted Constituents</b><br>• Sediment<br>• Nutrients<br>• Toxic Materials<br>• Oil & Grease<br>• Floatable Materials<br>• Other Construction Wastes                                                    |
| <b>PRIMARY USE</b><br>Triangular filter dikes are used in place of silt fence, treating sediment flow at the perimeter of construction areas and at the perimeter of the site. Also, the dikes can serve as stream protection devices by preventing sediment from entering the streams or as check dams in small swales.                                                                                                                                                                           | <b>Implementation Requirements</b><br>• Capital Costs<br>• Maintenance<br>• Training<br>• Suitability for Slopes >5%                                                                                        |
| Triangular sediment filter dikes are especially useful for construction areas surrounded by pavement, such as roadways, lawns, ramps, etc., where silt fence or hay bale installation is impractical. Since they can be anchored without penetration, pavement damage can be minimized.                                                                                                                                                                                                            | <b>Legend</b><br>• Significant Impact<br>• Medium Impact<br>• Low Impact<br>• Unknown or Questionable Impact                                                                                                |
| <b>APPLICATIONS</b><br>Triangular dikes are used to provide perimeter control by detaining sediment on a disturbed site with drainage that would otherwise flow onto adjacent areas. Triangular dikes also serve as sediment trapping devices when used in areas of sheet flow across disturbed areas or are placed along stream banks to prevent sediment-laden sheet flow from entering the stream. The dikes can be subjected to more concentrated flows and a higher flowrate than silt fence. | <b>BMP</b><br><b>6</b><br>City of Baton Rouge<br>Parish of East Baton Rouge<br>Department of Public Works                                                                                                   |

| Silt Fence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |
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| <ul style="list-style-type: none"> <li>Minimum equivalent opening size shall be 100 (#100 sieve).</li> <li>If 85% or more of soil, by weight, passes the U.S. Standard sieve No. 200, silt fences shall not be used due to potential clogging.</li> <li>Sufficient room for the operation of sediment removal equipment shall be provided between the silt fence and other obstructions in order to properly maintain the fence.</li> <li>The ends of the fence shall be turned upstream to prevent bypass of stormwater.</li> </ul> |                                                      |
| <b>LIMITATIONS</b><br>Minor ponding will likely occur at the upstream side of the silt fence resulting in minor localized flooding.                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |
| Fences which are constructed in swales or low areas subject to concentrated flow may be overlapped resulting in failure of the filter fence. Silt fences subject to areas of concentrated flow (waterways with flows > 1 cfs) are not acceptable.                                                                                                                                                                                                                                                                                    |                                                      |
| Silt fence can interfere with construction operations, therefore planning of access routes onto the site is critical.                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |
| Silt fence can fail structurally under heavy storm flows, creating maintenance problems and reducing the effectiveness of the system.                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |
| <b>MAINTENANCE REQUIREMENTS</b><br>Inspections should be made on a weekly basis, especially after large storm events. If the fabric becomes clogged, it should be cleaned or if necessary, replaced.                                                                                                                                                                                                                                                                                                                                 |                                                      |
| Sediment should be removed when it reaches approximately one-half the height of the fence.                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |
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| Straw Bale Dike                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |
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| <ul style="list-style-type: none"> <li>Dimensions for individual bales shall be 30 inches minimum length, 18 inches minimum height, 24 inches minimum width and shall weigh no less than 60 pounds when dry.</li> <li>Each straw bale shall be placed into an excavated trench having a depth of 4 inches and a width just wide enough to accommodate the bales themselves.</li> <li>Straw bales shall be installed in such a way that there is no space between bales.</li> <li>Individual bales shall be held in place by at least two wood stakes driven a minimum distance of 6 inches below the 4" excavated trench to undisturbed ground, with the first stake driven at an angle toward the previously installed bale.</li> <li>The ends of the dike shall be turned upstream to prevent bypass of stormwater.</li> <li>Place bales on sides such that bindings are not buried.</li> </ul> |                                                      |
| <b>LIMITATIONS</b><br>Due to a short effective life caused by biological decomposition, straw bales must be replaced after a period of no more than 3 months. During the wet and warm seasons, however, they must be replaced more frequently as is determined by periodic inspections for structural integrity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |
| Straw bale dikes are not recommended for use with concentrated flows of any kind except for small check flows in which they can serve as a check dam.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                      |
| The effectiveness of straw bales in reducing sediment is very limited. Improperly maintained, straw bales can have a negative impact on the water quality of the runoff.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      |
| <b>MAINTENANCE REQUIREMENTS</b><br>Straw bales shall be replaced if there are signs of degradation such as straw located downstream from the bales, structural deficiencies due to rotting straw in the bale or other signs of deterioration. Sediment should be removed from behind the bales when it reaches a depth of approximately 6 inches.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>BMP</b><br><b>5</b><br>Department of Public Works |

| Triangular Sediment Filter Dike                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |
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| <ul style="list-style-type: none"> <li>If 60% or less of soil, by weight, passes the U.S. Standard sieve No. 200, select the equivalent opening size (E.O.S.) to retain 85% of the soil.</li> <li>Maximum equivalent opening size shall be 70 (#70 sieve).</li> <li>Minimum equivalent opening size shall be 100 (#100 sieve).</li> <li>If 85% or more of soil, by weight, passes the U.S. Standard sieve No. 200, triangular sediment dike shall not be used due to clogging.</li> <li>Sufficient room for the operation of sediment removal equipment shall be provided between the dike and other obstructions in order to properly remove sediment.</li> <li>The ends of the dike shall be turned upstream to prevent bypass of stormwater.</li> </ul> |                                                      |
| <b>LIMITATIONS</b><br>Ponding will likely occur directly adjacent to the dike which may possibly cause flooding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |
| Triangular sediment filter dikes are not effective for conditions which include substantial concentrated flows or when they are not constructed along a contour line due to the potential for flow concentration and overlapping.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      |
| <b>MAINTENANCE REQUIREMENTS</b><br>Inspections should be made on a weekly basis, especially after large (> 0.5 inches) storm events. If the fabric becomes clogged, it should be cleaned or if necessary, replaced.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                      |
| Sediment should be removed when it reaches approximately 6 inches in depth. In addition, inspections should be made on a regular basis to check the structural integrity of the dike. If structural deficiencies are found, the dike should be immediately repaired or replaced.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |
| As with silt fence, integrity of the filter fabric is important to the effectiveness of the dike. Overlap between dike sections must be checked on a regular basis and repaired if deficient.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      |
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Thomas A. Stephens  
 2/16/2011

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| STANDARD PLAN NO.<br>903-01                                                                                   | DATED<br>FEBRUARY 25, 2008 | SHEET NO.<br>2 OF 11    |
| <b>STORM WATER POLLUTION PREVENTION PLAN BEST MANAGEMENT PRACTICES</b>                                        |                            |                         |
| ENGINEERING DIVISION<br><b>DEPARTMENT OF PUBLIC WORKS</b><br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                            |                         |
| DESIGNED<br>G. CHENG                                                                                          | DRAWN<br>G. VANNICE        | CHECKED<br>G. CHENG     |
|                                                                                                               |                            | APPROVED<br>T. STEPHENS |



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### Diversi on Dike

**DESCRIPTION**  
A diversio n dike is a compacted soil mound which redirects runoff to a desired locati on. The dike is typically stabilized with natural grass for low velocities or with stone or erosion control mats for higher velocities.

**PRIMARY USE**  
The diversio n dike is normally used to intercept offsite flow upstream of the constructio n area and direct the flow around the disturbed soils. It can also be used downstream of the constructio n area to direct flow into a sediment reduction device such as a sediment basin or protected inlet. The diversio n dike serves the same purpose and, based on the topography of the site, can be used in combination with an intercepto r swale.

**APPLICATIONS**  
By intercepting runoff before it has the chance to cause erosion, diversio n dikes are very effective in reducing erosion at a reasonable cost. They are applicable to a large variety of projects including site developments and linear projects such as roadways and pipeline constructio n. Diversio n dikes are normally used as perimeter controls for constructio n sites with large amounts of offsite flow from neighboring properties. Used in combination with swales, the diversio n dike can be quickly installed with a minimum of equipment and cost, using the swale excavatio n as the dike. No sediment removal technique is required if the dike is properly stabilized and the runoff is intercepted prior to crossing disturbed areas.

Significant savings in structural controls can be realized by using diversio n dikes to direct sheet flow to a central area such as a sediment basin or other sediment reduction structure if the runoff crosses disturbed areas.

**DESIGN CRITERIA**

- The maximum contributing drainage area should be 10 acres or
- Maximum depth of flow at the dike shall be 1 foot for 2 year design storm.
- The maximum width of this flow at the dike shall be 20 feet.
- Side slopes of the diversio n dike shall be 3:1 or flatter.

**Legend**

- Significant Impact
- Medium Impact
- Low Impact
- ? Unknown or Questionable Impact

**BMP**  
7

City of Baton Rouge  
Parish of  
East Baton Rouge

Department of  
Public Works

### Intercepto r Swale

**DESCRIPTION**  
An intercepto r swale is a small v-shaped or parabolic channel which collects runoff and directs it to a desired locati on. It can either have a natural grass lining or depending on slope and design velocity, a protective lining of erosion matting, stone or concrete.

**PRIMARY USE**  
The intercepto r swale can either be used to direct sediment laden flow from disturbed areas into a controlled outlet or to direct 'clean' runoff around disturbed areas. Since the swale is easy to install during early grading operations, it can serve as the first line of defense in reducing runoff across disturbed areas. As a method of reducing runoff across the disturbed constructio n area, it reduces the requirements of structural measures to capture sediment from runoff since the flow is reduced. By intercepting sediment laden flow downstream of the disturbed area, runoff can be directed into a sediment basin or other BMP for sedimentation as opposed to long runs of silt fence, straw bales or other filtration method.

Based on site topography, swales can be effectively used in combination with diversio n dikes.

**APPLICATIONS**  
Common applications for intercepto r swales include roadway projects, site development projects with substantial offsite flow impacting the site and sites with a large area(s) of disturbance. It can be used in conjunction with diversio n dikes to intercept flows. Temporary swales can be used throughout the project to direct flows away from staging, storage and fueling areas along with specific areas of constructio n. Note that runoff which crosses disturbed areas or is directed into unstabilized swales must be routed into a treatment BMP such as a sediment basin.

Grass lined swales are an effective permanent stabilization technique. The grass effectively filters both sediment and other pollutants while reducing velocity.

**Legend**

- Significant Impact
- Medium Impact
- Low Impact
- ? Unknown or Questionable Impact

**BMP**  
8

City of Baton Rouge  
Parish of  
East Baton Rouge

Department of  
Public Works

### Stabilized Constructio n Entrance

**DESCRIPTION**  
A stabilized constructio n entrance consists of a pad consisting of gravel, crushed stone, recycled concrete or other rock like material on top of geotextile filter cloth to facilitate the wash down and removal of sediment and other debris from constructio n equipment prior to exiting the constructio n site. For added effectiveness, a wash rack area can be incorporated into the design to further reduce sediment tracking. For long term projects, cattle guards or other type of permanent rock system can be used in conjunction with a wash rack. This directly addresses the problem of silt and mud deposition in roadways used for constructio n site access.

**PRIMARY USE**  
Stabilized constructio n entrances are used primarily for sites in which significant truck traffic occurs on a daily basis. It reduces the need to remove sediment from streets. If used properly, it also directs the majority of traffic to a single locati on, reducing the number and quantity of disturbed areas on the site and providing protection for other structural controls through traffic control.

**APPLICATIONS**  
Stabilized constructio n entrances are a required part of the erosion control plan for all site developments larger than 5 acres and a recommended practice for all constructio n sites. It is not suitable for long, linear projects. If possible, small entrances should be incorporated into small lot constructio n due to the large percentage of disturbed area on the site and the high potential for offsite tracking of silt and mud.

**DESIGN CRITERIA**

- Stabilized constructio n entrances are to be constructed such that drainage across the entrance is directed to a controlled, stabilized outlet on site with provisions for storage
- The entrance must be properly graded so that storm water is not allowed to leave the site and enter roadways.
- Minimum width of entrance shall be 18 feet, but in no case shall the width be less than that of the entry way to be used.

**Legend**

- Significant Impact
- Medium Impact
- Low Impact
- ? Unknown or Questionable Impact

**BMP**  
9

City of Baton Rouge  
Parish of  
East Baton Rouge

Department of  
Public Works

### Diversi on Dike

- Minimum width of the embankment at the top shall be 2 feet.
- Minimum embankment height shall be 18 inches as measured from the toe of slope on the upgrade side of the berm
- For velocities less than 6 feet per second, the minimum stabilization for the dike and adjacent flow areas is grass, erosion control mats or mulch. For velocities greater than 6 feet per second, stone stabilization or high velocity erosion control mats should be used. Velocities greater than 6 feet per second must be approved by the local jurisdiction.
- The dikes shall remain in place until all disturbed areas which are protected by the dike are permanently stabilized unless other controls are put into place to protect the disturbed area.
- Flow line at dike shall have a positive grade to drain to a controlled outlet.

**LIMITATIONS**  
Compacted earth dikes require stabilization immediately upon placement so as not to contribute to the problem they are addressing.

The diversio n dikes can be a hindrance to constructio n equipment moving on the site, therefore their locati ons must be carefully planned prior to installatio n.

**MAINTENANCE REQUIREMENTS**  
Dikes must be inspected on a weekly basis and after each significant (>0.5 inch) rainfall to determine if silt is building up behind the dike, or if erosion is occurring on the face of the dike. Silt shall be removed in a timely manner. If erosion is occurring on the face of the dike, the slopes of the face shall either be stabilized through mulch or seeding or the slopes of the face shall be reduced.

**BMP**  
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Department of  
Public Works

### Intercepto r Swale

**DESIGN CRITERIA**

- Maximum depth of flow in the swale shall be 1.5 feet based on a 2 year design storm peak flow. Positive overflow must be provided to accommodate larger storms.
- Side slopes of the swale shall be 3:1 or flatter.
- Minimum design channel freeboard shall be 8 inches.
- The minimum required channel stabilization for grades less than 2 percent and velocities less than 6 feet per second may be grass, erosion control mats or mulching. For grades in excess of 2 percent, or velocities exceeding 6 feet per second, stabilization in the form of high velocity erosion matting, a three inch layer of crushed stone or rip rap is required. Velocities greater than 6 feet per second will require approval by the PROGRAM MANAGER.
- Check dams can be used to reduce velocities in steep swales. See check dam BMP fact sheet for design criteria.
- Intercepto r swales must be designed for flow capacity based on Manning's Equation to ensure a proper channel section. Alternate channel sections may be used when properly designed and accepted.
- Consideration must be given to the possible impact that any swale may have on upstream or downstream conditions.
- Swales must maintain positive grade to an acceptable outlet.

**LIMITATIONS**  
Intercepto r swales must be stabilized quickly upon excavatio n so as not to contribute to the erosion problem they are addressing.

Swales may be unsuitable to the site conditions (too flat or steep).

Limited flow capacity for temporary swales. For permanent swales, the 1.5 feet maximum depth can be increased as long

**MAINTENANCE REQUIREMENTS**  
Inspection must be made weekly and after each significant (0.5" or greater) rain event to locate and repair any damage to the channel or to clear debris or other obstructions so as not to diminish flow capacity. Damage from storms or normal constructio n activities such as tire ruts or disturbance of swale stabilization shall be repaired as soon as practical.

**BMP**  
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Department of  
Public Works

### Stabilized Constructio n Entrance

- Minimum depth of entrance shall be 8 inches for the entire length of the control.
- Minimum dimensions for the entrance shall be as follows:

| Tract Area | Avg. Lot Depth | Min. Width of Entrance | Min. Depth of Entrance |
|------------|----------------|------------------------|------------------------|
| < 1 Acre   | 100 feet       | 15 feet                | 20 feet                |
| < 5 Acres  | 200 feet       | 20 feet                | 30 feet                |
| < 10 Acres | > 200 feet     | 20 feet                | 40 feet                |
| > 10 Acres | > 200 feet     | 25 feet                | 50 feet                |

**LIMITATIONS**  
Selectio n of the constructio n entrance locati on is critical in that to be effective, it must be used exclusively.

Stabilized entrances are rather expensive considering that it must be installed in combination with one or more other sediment control techniques, but it may be cost effective compared to labor intensive street cleaning.

**MAINTENANCE REQUIREMENTS**  
Inspections should be made on a regular basis and after large storm events in order to ascertain whether or not sediment and pollution are being effectively detained on site.

When sediment has substantially clogged the void area between the rocks, the aggregate mat must be washed down or replaced.

Periodic re-grading and top dressing with additional stone must be done to keep the efficiency of the entrance from diminishing.

**BMP**  
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Department of  
Public Works

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2/16/2008

|                                                                                                        |                            |                         |
|--------------------------------------------------------------------------------------------------------|----------------------------|-------------------------|
| STANDARD PLAN NO.<br>903-01                                                                            | DATED<br>FEBRUARY 25, 2008 | SHEET NO.<br>3 OF 11    |
| STORM WATER POLLUTION<br>PREVENTION PLAN<br>BEST MANAGEMENT PRACTICES                                  |                            |                         |
| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                            |                         |
| DESIGNED<br>G. CHENG                                                                                   | DRAWN<br>G. VANNICE        | CHECKED<br>G. CHENG     |
|                                                                                                        |                            | APPROVED<br>T. STEPHENS |



|             |       |
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| PROJECT NO. | SHEET |
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### Check Dams

**Applications**  
 Perimeter Control  
 Slope Protection  
 Sediment Trapping  
 Channel Protection  
 Temporary Stabilization  
 Permanent Stabilization  
 Waste Management  
 Housekeeping Practices

**Targeted Constituents**  
 Sediment  
 Nutrients  
 Toxic Materials  
 Oil & Grease  
 Floatable Materials  
 Other Construction Wastes

**Implementation Requirements**  
 Capital Costs  
 Maintenance  
 Training  
 Suitability for Slopes >5%

**Legend**  
 Significant Impact  
 Medium Impact  
 Low Impact  
 Unknown or Questionable Impact

**BMP**  
 10

City of Baton Rouge  
 Parish of East Baton Rouge  
 Department of Public Works

**DESCRIPTION**  
 Check dams are small barriers consisting of straw bales, rock, or earth berms placed across a drainage swale or ditch. They reduce the velocity of small concentrated flows, provide a limited barrier for sediment and help disperse concentrated flows, reducing potential erosion.

**PRIMARY USE**  
 Check dams are used for long drainage swales or ditches in which permanent vegetation may not be established and erosive velocities are present. They are typically used in conjunction with other techniques such as inlet protection, rip rap or other sediment reduction techniques. Check dams provide limited treatment. They are more useful in reducing flow to acceptable levels for other techniques.

**APPLICATIONS**  
 Check dams are typically used early in construction in swales for long linear projects such as roadways. They can also be used in short swales with a steep slope to reduce unacceptable velocities.

**DESIGN CRITERIA**  
 Check dams should be placed at a distance and height to allow small pools to form between each one. Typically, dam height should be between 18" and 36". Dams should be spaced such that the top of the downstream dam should be at the same elevation as the toe of the upstream dam.  
 See design criteria for straw bales, sand bag berms, etc. for specific criteria. Maximum allowable flow shall be based on the specific technique utilized and the velocity of flow.  
 Major flows (greater than 2 year design storm) must pass the check dam without causing excessive upstream flooding.  
 Check dams should be used in conjunction with other sediment reduction techniques prior to releasing flow offsite.

### Dust Control BMP

**Applications**  
 Perimeter Control  
 Slope Protection  
 Sediment Trapping  
 Channel Protection  
 Temporary Stabilization  
 Permanent Stabilization  
 Waste Management  
 Housekeeping Practices

**Targeted Constituents**  
 Sediment  
 Nutrients  
 Toxic Materials  
 Oil & Grease  
 Floatable Materials  
 Other Construction Wastes

**Implementation Requirements**  
 Capital Costs  
 Maintenance  
 Training  
 Suitability for Slopes >5%

**Legend**  
 Significant Impact  
 Medium Impact  
 Low Impact  
 Unknown or Questionable Impact

**BMP**  
 11

City of Baton Rouge  
 Parish of East Baton Rouge  
 Department of Public Works

**DESCRIPTION**  
 Dust control measures are used to stabilize soil from wind erosion, and reduce dust generated by construction activities. Dust which settles on surfaces both on-site and off-site may be washed by storm water into waterways.

**APPLICATIONS**  
 Grading and grading activities  
 Construction vehicles traffic on unpaved roads  
 Drilling and blasting activities  
 Sediment tracking onto paved roads  
 Soil and debris storage piles  
 Batch drop from front end loaders  
 Areas with unstabilized soil

**DESIGN CRITERIA**  
 Schedule construction activities to minimize the area where, and time period when soils are exposed.  
 Quickly stabilize exposed soils using vegetation, mulching, spray-on adhesives, calcium chloride, sprinkling, and stone/gravel layering.  
 Identify and stabilize key access points prior to commencement of construction.  
 Minimizing the impact of dust by anticipating the direction of prevailing winds.  
 Direct most construction traffic to stabilize roadways within the project site.

**LIMITATIONS**  
 Watering prevents dust only for a short period and should be applied daily (or more often) to be effective. Overwatering may cause a contaminated erosion.  
 Oils should not be used for dust control because it may migrate into drainage and/or seep into the soil.  
 Certain chemically-treated subgrades may make soil water repellent, increasing runoff.

### Inlet Protection

**Applications**  
 Perimeter Control  
 Slope Protection  
 Sediment Trapping  
 Channel Protection  
 Temporary Stabilization  
 Permanent Stabilization  
 Waste Management  
 Housekeeping Practices

**Targeted Constituents**  
 Sediment  
 Nutrients  
 Toxic Materials  
 Oil & Grease  
 Floatable Materials  
 Other Construction Wastes

**Implementation Requirements**  
 Capital Costs  
 Maintenance  
 Training  
 Suitability for Slopes >5%

**Legend**  
 Significant Impact  
 Medium Impact  
 Low Impact  
 Unknown or Questionable Impact

**BMP**  
 12

City of Baton Rouge  
 Parish of East Baton Rouge  
 Department of Public Works

**DESCRIPTION**  
 Inlet protection consists of a variety of methods of intercepting sediment at low point inlets through the use of stone, filter fabric and other materials. This is normally located at the inlet, providing either detention or filtration to reduce sediment and floatable materials in storm water.

**PRIMARY USE**  
 Inlet protection is normally used as a secondary defense in site erosion control. It is normally used in new developments that include new inlets or roads with new curb inlets or during major repairs to existing roadways. Inlet protection has limited use in developed areas due to the potential for flooding, traffic safety and pedestrian safety and maintenance problems. Inlet protection can reduce sediment in storm sewer system by serving as a back up system to outlet controls or by reducing sediment loads from controls with limited effectiveness such as straw bale dikes.

**APPLICATIONS**  
 Different variations are used for different conditions as follows:  
 Filter barrier protection (similar to a silt fence barrier around the inlet) is appropriate when the drainage area is less than one acre and the basin slope is less than five (5) percent. This type of protection is not applicable in paved areas.  
 Block and gravel (crushed stone, recycled concrete is also appropriate) protection is used when flows exceed 0.5 cfs, and it is necessary to allow for overtopping to prevent flooding.  
 Wire mesh and gravel protection (crushed stone, recycled concrete is also appropriate) is used when flows exceed 0.5 cfs, and construction traffic may occur over the inlet. This form of protection may be used with both curb and drop inlets.

### Check Dams

**LIMITATIONS**  
 Minor ponding will occur upstream of the check dams.  
 For heavy flows or high velocity flows, extensive maintenance or replacement of the dams will be required.  
 Check dams are not a total treatment technique.

**MAINTENANCE REQUIREMENTS**  
 Maintenance of the dams should adhere to the maintenance requirements of the management practice used for the dam.

**BMP**  
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Department of Public Works

### Dust Control BMP

**MAINTENANCE REQUIREMENTS**  
 Most dust control measures require frequent, often daily, attention.

**ADDITIONAL INFORMATION**  
 Dust control BMP's generally stabilize exposed dust particles. For heavily traveled and disturbed areas, wet suppression (watering), chemical dust suppression, gravel or asphalt surfacing, temporary gravel construction entrances, equipment wash-out areas, and haul truck covers can be employed as dust control applications. Permanent or temporary vegetation and mulching and fences can be employed for areas of occasional or no construction traffic. Preventive measures would include minimizing surface areas to be disturbed.

Many of the reasonably available control measures for controlling dust from construction sites can also be implemented as BMPs for storm water pollution prevention. Those BMPs include:

- Pave, vegetate, or chemically stabilize access points where unpaved traffic surfaces adjoin paved roads.
- Provide covers for haul truck transporting materials that contribute to dust.
- Provide suppression or chemical stabilization of exposed soils.
- Provide for rapid clean-up of sediments deposited on paved roads.
- Stabilize unpaved haul roads, parking and staging areas. Reduce speed and trips on unpaved roads.
- Implement dust control measures for material stockpiles.
- Prevent drainage of sediment laden storm water onto paved surfaces.
- Stabilize abandoned construction sites using vegetation or chemical stabilization methods.
- Limit the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.

For the chemical stabilization, there are many products available as dust palliatives for chemically stabilizing gravel roadways and stockpiles.

In addition, there are many other BMPs identified in this

- Seeding and Plantings
- Stabilized Construction Entrances
- Construction Road Stabilization
- Mulching

**BMP**  
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Department of Public Works

### Inlet Protection

Excavated impoundment protection around a drop inlet may be used for protection against sediment entering a storm drain system. With this method, it is necessary to install weep holes to allow the impoundment to drain completely. The impoundment shall be sized such that the volume of excavation shall be equal to 1800 to 3600 cubic feet per acre of contributing drainage area entering the inlet for full effectiveness. Smaller volumes can be used for reduced effectiveness.

**DESIGN CRITERIA**  
 Filter fabric protection shall be designed and maintained in a manner similar to silt fence.  
 Maximum depth of flow shall be eight (8) inches or less depending on vehicular and pedestrian traffic.  
 Positive drainage is critical in the design of inlet protection. If overflow is not provided for at the inlet, flows which exceed the capacity of the inlet protection system shall be routed through established swales, streets or other watercourses to minimize damage due to ponding and to provide for public safety.

**LIMITATIONS**  
 Ponding will occur at the inlet with possible flooding as a result.  
 Inlet protection is only viable at low point inlets, inlets which are on a slope cannot be effectively protected because stormwater will bypass the inlet and continue downstream, causing an overtop condition at inlets beyond.

**MAINTENANCE REQUIREMENTS**  
 Inspections should be made on a weekly basis, especially after large (> 0.5 inches) storm events. When silt fence is used and the fabric becomes clogged, it should be cleaned or if necessary, replaced. Also, sediment should be removed when it reaches approximately one-half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by 60%.

For systems using stone filters, when the stone filter becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced. Since cleaning of gravel at a construction site may be difficult, an alternative approach would be to use the clogged stone as fill material and put new stone around the inlet.

**BMP**  
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Department of Public Works

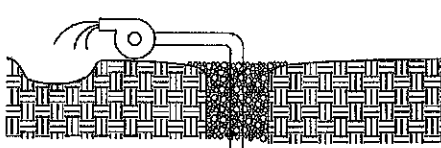
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 IN  
 CIVIL ENGINEERING  
 3/16/2013

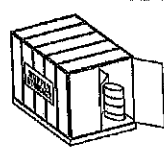
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| STANDARD PLAN NO.<br>903-01                                                                            | DATED<br>FEBRUARY 25, 2008 | SHEET NO.<br>4 OF 11    |
| STORM WATER POLLUTION<br>PREVENTION PLAN<br>BEST MANAGEMENT PRACTICES                                  |                            |                         |
| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                            |                         |
| DESIGNED<br>G. CHENG                                                                                   | DRAWN<br>G. VANNICE        | CHECKED<br>G. CHENG     |
|                                                                                                        |                            | APPROVED<br>T. STEPHENS |

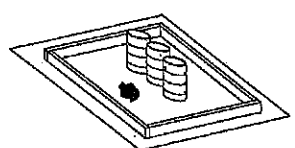
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| <h3>Dewatering Operations</h3>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p><b>DESCRIPTION</b><br/>Prevent or reduce the discharge of pollutants to storm water from dewatering operations by using sediment controls and by testing the water for contamination.</p> <p><b>APPLICATIONS</b><br/>There are two general classes of pollutants that may result from dewatering operations: sediment, and toxics and petroleum products. A high sediment content in dewatering discharges is common because of the nature of the operation. On the other hand, toxics and petroleum products are not commonly found in dewatering discharges unless, the site or surrounding area has been used for light or heavy industrial activities, or the area has a history of groundwater contamination.</p> <p><b>DESIGN CRITERIA</b><br/>- Use sediment controls to remove sediment from water generated from dewatering.<br/>- Use filtration to remove sediment from a sediment trap or basin. Filtration can be achieved with:<br/>- Sump pit and a standpipe in the center with holes and wrapped in filter fabric. The standpipe is surrounded by stones which filter the water as it collects in the pit before being pumped out;<br/>- Floating suction hose allowing cleaner surface water to be pumped out; or<br/>- Standpipe in the sediment basin with silt and wrapped in filter fabric to remove sediments.<br/>- Toxics and Petroleum Products:<br/>- In areas suspected of having groundwater contamination, protect yourself early in the excavation process by sampling and having the water tested at a certified laboratory. Check with the Louisiana Department of Environmental Quality and the PROGRAM MANAGER for their requirements, including additional water quality tests and disposal options.</p> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/><b>Sediment Trapping</b><br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization<br/>Waste Management<br/>Housekeeping Practices</p> <p><b>Targeted Constituents</b><br/>○ Sediment<br/>○ Nutrients<br/>○ Toxic Materials<br/>○ Oil &amp; Grease<br/>○ Floatable Materials<br/>● Other Construction Wastes</p> <p><b>Implementation Requirements</b><br/>○ Capital Costs<br/>○ Maintenance<br/>○ Training<br/>○ Suitability for Slopes &gt;5%</p> <p><b>Legend</b><br/>● Significant Impact<br/>○ Medium Impact<br/>○ Low Impact<br/>? Unknown or Questionable Impact</p> <p><b>BMP</b><br/>13</p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge<br/><br/>Department of Public Works</p> |

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| <h3>Material Delivery And Storage</h3>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p><b>DESCRIPTION</b><br/>Prevent or reduce the discharge of pollutants to storm water from material delivery and storage by minimizing the storage of hazardous materials on-site, storing materials in a designated area, installing secondary containment, conducting regular inspection, and training employees and subcontractors.</p> <p>This best management practice covers only material delivery and storage. For information on wastes, see the waste management BMPs.</p> <p><b>APPLICATIONS</b><br/>The following materials are commonly stored on construction sites:<br/>- Pesticides and herbicides.<br/>- Fertilizers.<br/>- Detergents.<br/>- Petroleum products such as fuel, oil, and grease.<br/>- Other hazardous chemicals such as acids, lime, glass, paints, solvents, and curing compounds.<br/>Storage of these materials on-site can pose the following risks:<br/>- Storm water contamination.<br/>- Injury to workers or visitors.<br/>- Groundwater contamination.<br/>- Soil contamination.</p> <p><b>DESIGN CRITERIA</b><br/>- Designate an area of the construction site for material delivery and storage.<br/>- Place near the construction entrance, away from waterways.<br/>- Avoid transport near drainage paths or waterways.<br/>- Surround with earth berms.</p> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/>Sediment Trapping<br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization<br/>Waste Management<br/><b>Housekeeping Practices</b></p> <p><b>Targeted Constituents</b><br/>○ Sediment<br/>○ Nutrients<br/>○ Toxic Materials<br/>○ Oil &amp; Grease<br/>○ Floatable Materials<br/>● Other Construction Wastes</p> <p><b>Implementation Requirements</b><br/>○ Capital Costs<br/>○ Maintenance<br/>○ Training<br/>○ Suitability for Slopes &gt;5%</p> <p><b>Legend</b><br/>● Significant Impact<br/>○ Medium Impact<br/>○ Low Impact<br/>? Unknown or Questionable Impact</p> <p><b>BMP</b><br/>14</p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge<br/><br/>Department of Public Works</p> |

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| <h3>Spill Prevention And Control</h3>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p><b>DESCRIPTION</b><br/>Prevent or reduce the discharge of pollutants to storm water from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees.</p> <p>This best management practice covers only spill prevention and control. However, Material Delivery and Storage and Material Use, also contain useful information, particularly on spill prevention. For information on wastes, see the waste management BMPs.</p> <p><b>APPLICATIONS</b><br/>The following steps will help reduce the storm water impacts of leaks and spills:<br/><br/><b>General Measures</b><br/>- Hazardous materials and wastes should be stored in covered containers and protected from vandalism.<br/>- Place a stockpile of spill cleanup materials where it will be readily accessible.<br/>- Train employees in spill prevention and cleanup.<br/><br/><b>Cleanup</b><br/>- Clean up leaks and spills immediately.<br/>- On paved surfaces, clean up spills with as little water as possible. Use a rag for small spills, mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to either a certified laundry (rags) or disposed of as hazardous waste.<br/>- Never down or bury dry materials spills. Sweep up or excavate the material and dispose of properly. See the waste management BMPs.</p> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/>Sediment Trapping<br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization<br/>Waste Management<br/><b>Housekeeping Practices</b></p> <p><b>Targeted Constituents</b><br/>○ Sediment<br/>○ Nutrients<br/>○ Toxic Materials<br/>○ Oil &amp; Grease<br/>○ Floatable Materials<br/>● Other Construction Wastes</p> <p><b>Implementation Requirements</b><br/>○ Capital Costs<br/>○ Maintenance<br/>○ Training<br/>○ Suitability for Slopes &gt;5%</p> <p><b>Legend</b><br/>● Significant Impact<br/>○ Medium Impact<br/>○ Low Impact<br/>? Unknown or Questionable Impact</p> <p><b>BMP</b><br/>15</p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge<br/><br/>Department of Public Works</p> |

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| <h3>Dewatering Operations</h3> <p>- Contaminated water can be expensive to treat and/or dispose of properly. However, addressing the problem before construction is much less expensive than after the structures are in place.</p> <p><b>LIMITATIONS</b><br/>The presence of contaminated water may indicate contaminated soil as well. If contaminated water is discovered or suspected, the CONTRACTOR shall stop dewatering and immediately notify the PROGRAM MANAGER.</p> <p><b>MAINTENANCE REQUIREMENTS</b><br/>Maintain sediment controls and filters in good working order.</p> <p>Inspect excavated areas daily for signs of contaminated water as evidenced by discoloration, oily sheen, or odors.</p> |  |
| <p><b>BMP</b><br/>13</p> <p>Department of Public Works</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |

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| <h3>Material Delivery And Storage</h3> <p>- Storage of reactive, ignitable, or flammable liquids must comply with the local fire codes and BTR Airport Rescue and Fire Fighting (ARFF) regulations. Contact ARFF, Captain Milton Thomas (504-365-2089), to review site materials, quantities, and proposed storage area to determine specific requirements. See the Flammable and Combustible Liquid Code NFPA30. Keep an accurate, up-to-date inventory in your SWPPP of the materials delivered and stored on-site.</p> <p>- Keep your inventory down. Store only the amount you need, for only as long as you need it.</p> <p>- Store as few hazardous materials on-site as possible.</p> <p>- Handle hazardous materials as infrequently as possible.</p> <p>- Designate a secure material storage area away from drainage courses and near the site entrance.</p> <p>- Whenever possible, store materials in a covered area with secondary containment such as an earthen dike, horse trough, or even kids wading pool for non-reactive materials such as detergents, oil, grease and paints. Small amounts of material may be secondarily contained in "baby" trays or concrete mixing trays.</p> <p>- Do not store chemicals, drums, or bagged materials directly on the ground. Place these items in secondary containment.</p> <p>- If drums must be kept uncovered, store them at a slight angle to reduce ponding or rainwater on the lids and to reduce corrosion.</p> <p>- Try to keep chemicals in their original containers, and keep them well labeled.</p> <p>- Train employees and subcontractors.</p> <p>- Employees trained in emergency spill cleanup procedures should be present when dangerous materials or liquid chemicals are unloaded.</p> <p><b>LIMITATIONS</b><br/>Storage sheds often must meet building and fire code requirements.</p> <p><b>MAINTENANCE REQUIREMENTS</b><br/>Keep the designated storage area clean and well organized.<br/>Conduct routine weekly inspections and check for external corrosion of material containers.<br/>Keep an ample supply of spill cleanup materials near the storage area.</p> |  |
| <p><b>BMP</b><br/>14</p> <p>Department of Public Works</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |

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| <h3>Spill Prevention And Control</h3> <p><b>Reporting</b><br/>- Immediately report spills to the BTR Airport Rescue &amp; Fire Fighting Unit (504-365-2089). Federal regulations require that any oil spill into a water body or onto an adjoining shoreline be reported to the National Response center (NRC) at 800-424-6802 (24 hour).</p> <p><b>Vehicle and Equipment Maintenance</b><br/>- If maintenance must occur on-site, use a designated area, located away from drainage courses, prevent the runoff of storm water and the runoff of spills.<br/>- Regularly inspect on-site vehicles and equipment for leaks, and repair immediately.<br/>- Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment on-site.<br/>- Always use secondary containment, such as a drain pan or deep cloth, to catch spills or leaks when removing or changing fluids.<br/>- Place drip pans or absorbent materials under equipment when not in use.<br/>- Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.<br/>- Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.<br/>- Oil filters disposed of in trash cans or dumpsters can leak oil and contaminate storm water. Place the oil filter in a funnel over a water oil recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask your oil supplier or recycler about recycling oil filters.<br/>- Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put in into the containment area until you are sure it is not leaking.</p> <p><b>Vehicle and Equipment Fueling</b><br/>- If fueling must occur on-site, use designated areas, located away from drainage courses, to prevent the runoff of storm water and the runoff of spills.<br/>- Discourage "topping-off" of fuel tanks.<br/>- Always use secondary containment, such as a drain pan, when fueling to catch spills/leaks.</p> <p><b>LIMITATIONS</b><br/>If necessary, use a private spill cleanup company.</p> <p><b>MAINTENANCE REQUIREMENTS</b><br/>Keep ample supplies of spill control and cleanup materials on-site, near storage, unloading, and maintenance areas.</p> <p>Update your spill cleanup materials as changes occur in the types of chemicals on-site.</p> |  |
| <p><b>BMP</b><br/>15</p> <p>Department of Public Works</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |

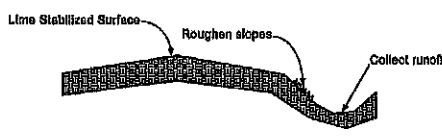
THOMAS A. STEPHENS  
License No. 19417  
PROFESSIONAL ENGINEER  
IN  
STATE OF LOUISIANA  
2/16/2008

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|---------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------|
| STANDARD PLAN NO.<br>903-01                                                                                         | DATED<br>FEBRUARY 25, 2008 | SHEET NO.<br>5 OF 11    |
| <h3>STORM WATER POLLUTION PREVENTION PLAN BEST MANAGEMENT PRACTICES</h3>                                            |                            |                         |
| <p>ENGINEERING DIVISION<br/>DEPARTMENT OF PUBLIC WORKS<br/>CITY OF BATON ROUGE &amp; PARISH OF EAST BATON ROUGE</p> |                            |                         |
| DESIGNED<br>G. CHENG                                                                                                | DRAWN<br>G. VANNICE        | CHECKED<br>G. CHENG     |
|                                                                                                                     |                            | APPROVED<br>T. STEPHENS |

| DATE | DESCRIPTION | BY |
|------|-------------|----|
|      |             |    |
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### Lime Stabilization BMP



**Applications**  
Perimeter Control  
Slope Protection  
Sediment Trapping  
Channel Protection  
Temporary Stabilization  
Permanent Stabilization  
Waste Management  
Housekeeping Practices

**Targeted Constituents**  
○ Sediment  
○ Nutrients  
○ Toxic Materials  
○ Oil & Grease  
○ Floatable Materials  
○ Other Construction Wastes

**Implementation Requirements**  
○ Capital Costs  
○ Maintenance  
○ Training  
○ Suitability for Slopes >6%

**Legend**  
● Significant Impact  
○ Medium Impact  
○ Low Impact  
? Unknown or Questionable Impact

**BMP**  
16

City of Baton Rouge  
Parish of East Baton Rouge  
Department of Public Works

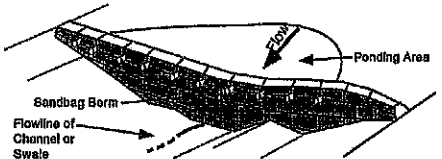
**DESCRIPTION**  
Lime stabilization is used extensively in some areas to stabilize pavement subbases for roadways, parking lots and other paved surfaces. Hydrated lime is applied to the soil and mixed through disk and other techniques, then allowed to cure. This practice will reduce the potential for runoff to carry lime offsite, where it may impact aquatic life through changing the pH balance of streams, ponds and other water bodies.

**PRIMARY USE**  
This BMP consists of a series of techniques that should be implemented when lime is required for soil stabilization.

**APPLICATIONS**  
Each of the techniques listed can be used under a variety of conditions. The engineer should determine the applicability of the technique based on site conditions such as available open space, quantity of area to be stabilized, proximity of nearby water courses and other BMPs employed at the site. The use of diversion dikes and interceptor swales (see appropriate) in conjunction with these techniques to reduce the impact of the lime.

**DESIGN CRITERIA**  
- The contractor shall limit lime operations to that which can be thoroughly mixed and compacted by the end of each work day.  
- No traffic other than water trucks and mixing equipment shall be allowed to pass over the spread lime until after completion of mixing.  
- Areas adjacent and downstream of stabilized areas shall be roughened to intercept lime from runoff and reduce runoff velocity.  
- Geotextile fabrics such as those used for silt fence should not be used to address lime since the grain size of lime is significantly smaller than the equivalent opening size of the fabric.  
- For areas which phasing of lime operations is impractical, use of a curing seal such as Liquid Asphalt, Grade MC-250 or MC-600 applied at a rate of 0.16 gallons per square yard of surface can be used to protect the base.

### Sand Bag Berm



**Applications**  
Perimeter Control  
Slope Protection  
Sediment Trapping  
Channel Protection  
Temporary Stabilization  
Permanent Stabilization  
Waste Management  
Housekeeping Practices

**Targeted Constituents**  
○ Sediment  
○ Nutrients  
○ Toxic Materials  
○ Oil & Grease  
○ Floatable Materials  
○ Other Construction Wastes

**Implementation Requirements**  
● Capital Costs  
○ Maintenance  
○ Training  
● Suitability for Slopes >6%

**Legend**  
● Significant Impact  
○ Medium Impact  
○ Low Impact  
? Unknown or Questionable Impact

**BMP**  
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City of Baton Rouge  
Parish of East Baton Rouge  
Department of Public Works

**DESCRIPTION**  
Sandbag berms consist of stacked sandbags installed across a watercourse to direct flow around construction or to allow sedimentation to occur for flows downstream of disturbed areas. There are overflow pipes located in the top of the berm to allow controlled outflow of water after sedimentation has occurred.

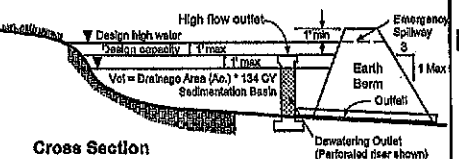
**PRIMARY USE**  
A sandbag berm is a temporary sediment control method that addresses the problem of construction in creeks, channels and other watercourses which carry a constant flow and is subjected to high, concentrated flows. A sandbag berm can also be used to create a small sedimentation pond prior to the completion of a permanent detention basin.

Sandbag berms can be used as check dams in temporary swales or borrow ditches.

Sandbag berms are not recommended for typical perimeter controls where sheet flow is prevalent.

**APPLICATIONS**  
During utility or any type of construction in channels or stream beds, sandbag berms can be used as check dams across channels, serve as a barrier for utility trenches or even provide a temporary channel crossing for construction equipment without seriously affecting stream conditions. Sandbag berms can also be installed parallel to a roadway, providing a corridor of sediment control similar to that provided by a silt fence or hay bales with the exception that a sand bag dike is capable of controlling much higher flows and is much more durable. For site construction sandbag berms can be used to divert or direct flow or create a temporary sediment basin with the added dimension of being able to be moved to accommodate changes in construction much more easily than compacted earth berms.

### Sediment Basin



**Applications**  
Perimeter Control  
Slope Protection  
Sediment Trapping  
Channel Protection  
Temporary Stabilization  
Permanent Stabilization  
Waste Management  
Housekeeping Practices

**Targeted Constituents**  
● Sediment  
○ Nutrients  
○ Toxic Materials  
○ Oil & Grease  
○ Floatable Materials  
○ Other Construction Wastes

**Implementation Requirements**  
● Capital Costs  
○ Maintenance  
○ Training  
● Suitability for Slopes >6%

**Legend**  
● Significant Impact  
○ Medium Impact  
○ Low Impact  
? Unknown or Questionable Impact

**BMP**  
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City of Baton Rouge  
Parish of East Baton Rouge  
Department of Public Works

**DESCRIPTION**  
A sediment basin is a pond area with a controlled outlet in which sediment-laden runoff is directed to allow settling of suspended sediment from the runoff. It provides treatment for the runoff as well as detention and controlled release of runoff, minimizing flood impacts downstream.

**PRIMARY USE**  
Sediment basins should be used for all sites with adequate open space to site the basin and the ability to direct a majority of the site drainage into the basin. For sites with disturbed areas of 10 acres and larger that are part of a common drainage area, sediment basins are required as either temporary or permanent controls unless specific site conditions limit their use.

**APPLICATIONS**  
Sediment basins serve as treatment devices which can be used on a variety of project types. It is normally used in site development projects in which large areas of land are available for the basin, a stream or drainage way crosses the site, or a specific water feature is planned for the site. Sediment basins are highly effective at reducing sediment and other pollutants for design storm conditions. It also reduces maintenance requirements due to the central location of the sediment and minimal structural requirements of the basin.

**DESIGN CRITERIA**  
- Maximum drainage area contributing to the basin should be 10 acres or less. Larger sediment basins will require specific measures to address the potential for overtopping of the basin and possible failure of the berm.  
- Minimum capacity of the basin shall be 3800 cubic feet per disturbed acre of contributing drainage area.  
- Deposited sediment shall be removed when the storage capacity of the basin has been depleted by 20%.  
- Minimum width of the embankment at the top shall be 8 feet.  
- Minimum embankment slope shall be 3:1.  
- Maximum embankment height shall be 6 feet as measured from the top of slope on the downstream side.

### Lime Stabilization BMP

Use of sediment basins with a significant (>30 hour) drawdown time is encouraged for large stabilized areas (see Sediment Basin BMP).

**LIMITATIONS**  
These techniques are part of an overall plan to reduce pollutants from an active construction site. In the case of pollution due to lime, prevention of contamination is the only effective method to address this pollutant. Proper application and mixing along with avoiding applications when there is a significant probability of rain will reduce lime runoff.

**MAINTENANCE REQUIREMENTS**  
None.

**BMP**  
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Department of Public Works

### Sand Bag Berm

**DESIGN CRITERIA**  
- Berms are to be constructed along a line of constant elevation (a contour line) for use as perimeter control devices.  
- Maximum flow through rate shall be 0.1 CFS per square foot of berm surface.  
- Minimum height shall be 18 inches.  
- Minimum width of the berm shall be 18 inches at the top and 54 inches measured at the bottom.  
- Maximum side slopes shall be 2:1.  
- Maximum design freeboard shall be 0.3 feet.  
- Sandbags shall be consist of jute, polypropylene, polyethylene or polyamide woven fabric. Jute shall be composed of a uniform weave of undyed and unbleached single jute yarn weighing an average of 1.2 pounds per linear yard of cloth with approximately 75 warp ends per width of cloth. Polypropylene, polyethylene or polyamide woven fabric shall have a minimum unit weight of 4 ounces per square yard, a milles burst strength of 300 psi minimum and ultraviolet stability exceeding 70 percent, and shall be filled with coarse sand or pea gravel.  
- 4" diameter Schedule 40 or greater PVC pipe segments approximately 24 inches in length shall be used immediately below the top layer of sandbags to allow for flow through the berm.  
- For severe velocities or high flows, woven wire mesh can be used to maintain the integrity of the berm.  
- Sufficient room for the operation of sediment removal equipment shall be provided between the berm and other obstructions in order to properly remove sediment.  
- The ends of the berm shall be turned up or shall be into natural grades to prevent bypass of stormwater.  
- In channel applications, the center of the berm must be lower than the outside ends to prevent bypass around the berm.

**LIMITATIONS**  
Sandbag berms are a costly, labor intensive technique which is suitable only for areas subjected to high concentrated flows. The permeability of the berms makes it unsuitable for low flow, perimeter conditions.

Ponding will occur directly upstream from the berm creating the possibility of a flooding concern which should be considered prior to its placement.

For sandbag berms located in high flow areas such as creeks, the potential for berm damage during high flows increases the requirement for maintenance.

**MAINTENANCE REQUIREMENTS**  
Inspections should be made on a daily basis and after each significant (>0.5 inches) rain event. The sandbags shall be reshaped or replaced as needed during the inspection. Silt should be removed when it reaches a depth of six (6) inches. In addition, weekly inspections should be made on the PVC pipe segments to ensure clear flow.

**BMP**  
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Department of Public Works

### Sediment Basin

the top of slope on the downstream side.

**LIMITATIONS**  
Sediment basins can be rather large depending on site conditions, requiring the use of expensive development area and comprehensive planning for construction phasing prior to implementation.

Storm events which exceed the design storm event can cause damage to the spillway structure of the basin and may impact downstream concerns.

**MAINTENANCE REQUIREMENTS**  
Sediment shall be removed and the basin shall be upgraded to its original dimensions at such point that the capacity of the impoundment has been reduced to 20% of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas which are protected from erosion.

The basin outlet structure and emergency spillway (if present) should be checked frequently and after each major rain event to check for damage and to insure that obstructions are not diminishing the effectiveness of the structures.

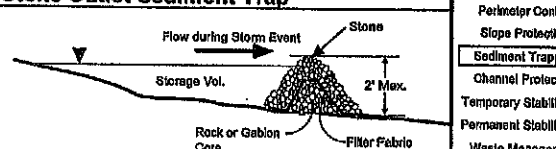
**BMP**  
18

Department of Public Works

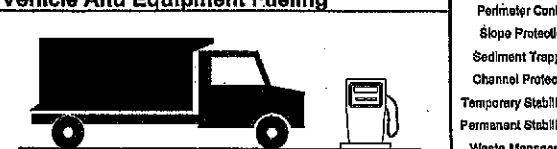
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PROFESSIONAL ENGINEER  
IN  
CIVIL ENGINEERING  
STATE OF LOUISIANA  
2/16/2018



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| PROJECT NO. | SHEET |
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| <b>Stone Outlet Sediment Trap</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p><b>DESCRIPTION</b><br/>A stone outlet sediment trap is a small ponding area formed by placing a stone embankment or gabion core with an integral stone filter outlet across a drainage swale for the purpose of detaining sediment-laden runoff generated by construction activities. The sediment trap detains runoff long enough to allow most of the suspended sediment to settle while still allowing for diffused flow of runoff.</p> <p><b>PRIMARY USE</b><br/>A sediment trap is used in situations where flows are concentrated in a drainage swale or channel. The sediment trap reduces velocities and allows for settling of sediment while allowing the area behind the trap to de-water. This is normally used for long term (18 months or less) applications in which a sediment basin is not feasible due to site or construction method restrictions. The use of a gabion core as opposed to a cewatering the area as necessary.</p> <p><b>APPLICATIONS</b><br/>Temporary stone outlet sediment traps are installed at locations where concentrated flows require a protected outlet to contain sediment or spread flow prior to discharge.</p> <p><b>DESIGN CRITERIA</b></p> <ul style="list-style-type: none"> <li>- Maximum drainage area contributing to the trap shall be 3 acres. For larger drainage areas, a sediment basin should be used.</li> <li>- The minimum length of the crest, in feet, of the stone outlet shall be equal to 6 times the size (acres) of the contributing drainage area.</li> <li>- Deposited sediment shall be removed when the depth of sediment is equal to one-third of the height of the outlet structure as measured from the original top of slope to the crest of the outlet, or has reached a depth of one foot, whichever is less.</li> <li>- Minimum width of the embankment at the top shall be 3 feet.</li> <li>- Minimum embankment slope shall be 3:1.</li> </ul> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/><b>Sediment Trapping</b><br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization<br/>Waste Management<br/>Housekeeping Practices</p> <p><b>Targeted Constituents</b></p> <ul style="list-style-type: none"> <li>● Sediment</li> <li>○ Nutrients</li> <li>○ Toxic Materials</li> <li>○ Oil &amp; Grease</li> <li>○ Floccable Materials</li> <li>○ Other Construction Wastes</li> </ul> <p><b>Implementation Requirements</b></p> <ul style="list-style-type: none"> <li>● Capital Costs</li> <li>● Maintenance</li> <li>○ Training</li> <li>○ Suitability for Slopes &gt;5%</li> </ul> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>● Significant Impact</li> <li>○ Medium Impact</li> <li>○ Low Impact</li> <li>? Unknown or Questionable Impact</li> </ul> <p><b>BMP</b><br/><b>19</b></p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge<br/>Department of Public Works</p> |

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| <b>Vehicle And Equipment Cleaning</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>DESCRIPTION</b><br/>Prevent or reduce the discharge of pollutants to storm water from vehicle and equipment cleaning by using off-site facilities, washing in designated areas only, discharges to the storm drain by infiltrating or recycling the wash water and training employees and subcontractors.</p> <p><b>APPLICATIONS</b><br/>Washing vehicles and equipment outdoors or in areas where wash water</p> <p><b>DESIGN CRITERIA</b></p> <ul style="list-style-type: none"> <li>- Use off-site commercial washing businesses as much as possible. For operations involving a large number of vehicles or pieces of equipment, consider conducting this work at an off-site commercial business equipped to handle and dispose of the wash waters properly. Performing this work off-site can also be economical by eliminating the need for a separate washing operation at your site.</li> <li>- If washing must occur on-site, use designated, bermed wash areas to prevent wash water contact with storm water, creeks, rivers, and other water bodies, for wash water collection and subsequent infiltration into the ground.</li> <li>- Use as little water as possible to avoid having to install erosion and sediment controls for the wash area.</li> <li>- Use phosphate-free, biodegradable soaps.</li> <li>- Educate employees and subcontractors on pollution prevention measures.</li> <li>- Do not permit steam cleaning on-site. Steam cleaning can generate significant pollutant concentrations leading to potential storm water and groundwater contamination.</li> <li>- In construction areas where truck tires collect mud, provide a cleaning area for removing soil before truck leaves site. Truck tires cleaning area should not be directly adjacent to drainage conveyances. A vegetated buffer area should be located downstream of the tire wash. For heavy use of the wash area, silt fencing, or sediment trapping may be necessary.</li> </ul> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/>Sediment Trapping<br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization<br/>Waste Management<br/>Housekeeping Practices</p> <p><b>Targeted Constituents</b></p> <ul style="list-style-type: none"> <li>● Sediment</li> <li>○ Nutrients</li> <li>○ Toxic Materials</li> <li>○ Oil &amp; Grease</li> <li>○ Floccable Materials</li> <li>○ Other Construction Wastes</li> </ul> <p><b>Implementation Requirements</b></p> <ul style="list-style-type: none"> <li>○ Capital Costs</li> <li>● Maintenance</li> <li>○ Training</li> <li>○ Suitability for Slopes &gt;5%</li> </ul> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>● Significant Impact</li> <li>○ Medium Impact</li> <li>○ Low Impact</li> <li>? Unknown or Questionable Impact</li> </ul> <p><b>BMP</b><br/><b>20</b></p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge<br/>Department of Public Works</p> |

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| <b>Vehicle And Equipment Fueling</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>DESCRIPTION</b><br/>Prevent fuel spills and leaks, and reduce their impacts to storm water by using off-site facilities, fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors.</p> <p><b>APPLICATIONS</b><br/>Fueling vehicles and equipment outdoors or in areas where wash water flows onto the ground can pollute storm water.</p> <p><b>DESIGN CRITERIA</b></p> <ul style="list-style-type: none"> <li>- Use off-site fueling stations as much as possible. If you fuel a large number of vehicles or pieces of equipment, consider using an off-site fueling station equipped to handle fuel and spills properly. Performing this work off-site can also be economical by eliminating the need for a separate fueling area at your site.</li> <li>- If fueling must occur on-site, use designated areas, located away from drainage courses to prevent the runoff of storm water and the runoff of spills.</li> <li>- Discourage "topping-off" of fuel tanks.</li> <li>- Always use secondary containment, such as a drain pan, when fueling to catch spills/leaks.</li> <li>- Place a stockpile of spill cleanup materials where it will be readily accessible.</li> <li>- Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.</li> <li>- Carry out all Federal and State requirements regarding stationary above ground storage tanks.</li> <li>- Do not use mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas. With the exception of tracked equipment such as bulldozers and perhaps small forklifts, most vehicles should be able to travel to a designated area with little lost time.</li> </ul> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/>Sediment Trapping<br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization<br/>Waste Management<br/>Housekeeping Practices</p> <p><b>Targeted Constituents</b></p> <ul style="list-style-type: none"> <li>○ Sediment</li> <li>○ Nutrients</li> <li>○ Toxic Materials</li> <li>● Oil &amp; Grease</li> <li>○ Floccable Materials</li> <li>○ Other Construction Wastes</li> </ul> <p><b>Implementation Requirements</b></p> <ul style="list-style-type: none"> <li>● Capital Costs</li> <li>○ Maintenance</li> <li>○ Training</li> <li>○ Suitability for Slopes &gt;5%</li> </ul> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>● Significant Impact</li> <li>○ Medium Impact</li> <li>○ Low Impact</li> <li>? Unknown or Questionable Impact</li> </ul> <p><b>BMP</b><br/><b>21</b></p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge<br/>Department of Public Works</p> |

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| <b>Stone Outlet Sediment Trap</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                   |
| <ul style="list-style-type: none"> <li>- Maximum embankment height shall be 2 feet as measured from the top of slope to the crest of the stone outlet. The height of the compacted earth embankment shall be one foot higher than the crest of the outlet.</li> <li>- The maximum allowable flow-through rate shall be 0.1 CFS per square foot of the frontal area of the outlet structure.</li> <li>- The effective life of the stone outlet sediment trap is approximately 18 months.</li> </ul> <p><b>LIMITATIONS</b><br/>Limited applications due to cost of construction, availability of materials, and the amount of land required.</p> <p>Can cause minor flooding upstream of dam, impacting construction operations.</p> <p>This technique serves as a temporary measure during construction. It should not be used for more than 18 months due to reduced efficiency.</p> <p><b>MAINTENANCE REQUIREMENTS</b><br/>Sediment shall be removed and the area directly behind the berm shall be regraded to its original dimensions at such point when the capacity of the impoundment has been reduced to one-half of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas which are protected from erosion.</p> <p>The stone outlet structure should be inspected frequently and after each major rain event to check for clogging of the void spaces between stones. If the aggregate appears to be silted in such that efficiency is diminished, the stone should be replaced.</p> | <p><b>BMP</b><br/><b>19</b></p> <p>Department of Public Works</p> |

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| <b>Vehicle And Equipment Cleaning</b>                                                                                                                                                                                                                                      |                                                                   |
| <p><b>LIMITATIONS</b><br/>Even phosphate-free, biodegradable soaps have been shown to degrade.</p> <p>Sending vehicles/equipment off-site should be done in conjunction with Stabilized Construction Entrance BMP.</p> <p><b>MAINTENANCE REQUIREMENTS</b><br/>Minimal.</p> | <p><b>BMP</b><br/><b>20</b></p> <p>Department of Public Works</p> |

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| <b>Vehicle And Equipment Fueling</b>                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                   |
| <ul style="list-style-type: none"> <li>- Train employees and subcontractors in proper fueling and cleanup procedures.</li> </ul> <p><b>LIMITATIONS</b><br/>Sending vehicles/equipment off-site should be done in conjunction with Stabilized Construction Entrance BMP.</p> <p><b>MAINTENANCE REQUIREMENTS</b><br/>Keep ample supplies of spill cleanup materials on-site. Inspect fueling areas and storage tanks on a regular schedule.</p> | <p><b>BMP</b><br/><b>21</b></p> <p>Department of Public Works</p> |

THOMAS A. STEPHENS  
LICENSE NO. 19477  
PROFESSIONAL ENGINEER  
PE  
2/16/2013

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| STANDARD PLAN NO.<br>903-01                                                                                   | DATED<br>FEBRUARY 25, 2008 | SHEET NO.<br>7 OF 11    |
| <b>STORM WATER POLLUTION PREVENTION PLAN<br/>BEST MANAGEMENT PRACTICES</b>                                    |                            |                         |
| ENGINEERING DIVISION<br><b>DEPARTMENT OF PUBLIC WORKS</b><br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                            |                         |
| DESIGNED<br>G. CHENG                                                                                          | DRAWN<br>G. VANNICE        | CHECKED<br>G. CHENG     |
|                                                                                                               |                            | APPROVED<br>T. STEPHENS |

|      |             |    |
|------|-------------|----|
| DATE | DESCRIPTION | BY |
|      | REVISIONS   |    |



|             |       |
|-------------|-------|
| PROJECT NO. | SHEET |
|             |       |

| Solid Waste Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <p><b>DESCRIPTION</b><br/>Large volumes of solid waste are often generated at construction sites including: packaging, pallets, wood waste, concrete waste, soil, electrical wiring, cuttings, and a variety of other materials. The solid waste management practices listed techniques to minimize the potential of storm water contamination from solid waste through appropriate storage and disposal practices.</p> <p><b>PRIMARY USE</b><br/>These practices should be a part of all construction practices. By limiting the trash and debris on site, storm water quality is improved along with reduced clean up requirements at the completion of the project.</p> <p><b>APPLICATIONS</b><br/>The solid waste management practice for construction sites is based on proper storage and disposal practices by construction workers and supervisors. Key elements of the program are education and notification of improper disposal habits. Cooperation and vigilance is required on the part of supervisors and workers to ensure that the recommendations and procedures are followed. Following are lists describing the targeted materials and recommended procedures:</p> <ul style="list-style-type: none"> <li>- Targeted Solid Waste Materials <ul style="list-style-type: none"> <li>Paper and cardboard containers</li> <li>Plastic packaging</li> <li>Styrofoam packing and forms</li> <li>Insulation materials (non-hazardous)</li> <li>Wood pallets</li> <li>Wood cuttings</li> <li>Plastic and electrical cuttings</li> <li>Concrete, brick, and mortar waste</li> <li>Shingle cuttings and waste</li> <li>Roofing tar</li> <li>Steel cuttings, nails, rust residue</li> <li>Gypsum board cuttings and waste</li> <li>Sheathing cuttings and waste</li> <li>Miscellaneous cutting and waste</li> <li>Food waste</li> <li>Demolition waste</li> </ul> </li> </ul> <p><b>Storage Procedures</b></p> <ul style="list-style-type: none"> <li>- Whenever possible, minimize production of solid waste materials.</li> <li>- Designate a foreman or supervisor to oversee and enforce proper solid waste procedures.</li> <li>- Instruct construction workers in proper solid waste procedures.</li> <li>- Segregate potentially hazardous waste from non-hazardous construction site debris.</li> </ul> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/>Sediment Trapping<br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization</p> <p><b>Waste Management</b><br/><b>Housekeeping Practices</b></p> <p><b>Targeted Constituents</b></p> <ul style="list-style-type: none"> <li>○ Sediment</li> <li>● Nutrients</li> <li>● Toxic Materials</li> <li>○ Oil &amp; Grease</li> <li>○ Flammable Materials</li> <li>● Other Construction Wastes</li> </ul> <p><b>Implementation Requirements</b></p> <ul style="list-style-type: none"> <li>● Capital Costs</li> <li>● Maintenance</li> <li>● Training</li> <li>○ Suitability for Slopes &gt;6%</li> </ul> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>● Significant Impact</li> <li>○ Medium Impact</li> <li>○ Low Impact</li> <li>? Unknown or Questionable Impact</li> </ul> <p><b>BMP</b><br/><b>22</b></p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge</p> <p>Department of Public Works</p> |

| Hazardous Waste Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <p><b>DESCRIPTION</b><br/>The hazardous waste management BMP addresses the problem of storm water polluted with hazardous waste through spills or other forms of contact. The objective of the Management Program is to minimize the potential of stormwater contamination from common construction site hazardous wastes through appropriate recognition, handling, storage and disposal practices.</p> <p>It is not the intent of this Management Program to supersede or replace normal site assessment and remediation procedures. Significant spills and/or contamination warrant immediate response by trained professionals. Suspected job-site contamination should be immediately reported to regulatory authorities and protective actions taken. The General Permit requires reporting of significant spills to the National Response Center (NRC) at (800) 424-8802.</p> <p><b>PRIMARY USE</b><br/>These management practices along with applicable OSHA and EPA guidelines should be incorporated at all construction sites which use or generate hazardous wastes. Many wastes such as fuel, oil, grease, fertilizer and pesticide are present at most construction sites.</p> <p><b>INSTALLATION, APPLICATION AND DISPOSAL CRITERIA</b><br/>The hazardous waste management techniques presented here are based on proper recognition, handling, and disposal practices by construction workers and supervisors. Key elements of the management program are education, proper disposal practices, as well as provisions for safe storage and disposal. Following are lists describing the targeted materials and recommended procedures:</p> <ul style="list-style-type: none"> <li>- Targeted Hazardous Waste Materials <ul style="list-style-type: none"> <li>Paints</li> <li>Solvents</li> <li>Stains</li> <li>Wood preservatives</li> <li>Cutting oils</li> <li>Greases</li> <li>Roofing tar</li> <li>Pesticides</li> <li>Fuels &amp; lube oils</li> <li>Lead based paints (Demolition)</li> </ul> </li> </ul> <p><b>Storage Procedures</b></p> <ul style="list-style-type: none"> <li>- Whenever possible, minimize use of hazardous materials.</li> <li>- Minimize generation of hazardous waste on the job-site.</li> <li>- Segregate potentially hazardous waste from non-hazardous construction site debris.</li> </ul> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/>Sediment Trapping<br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization</p> <p><b>Waste Management</b><br/><b>Housekeeping Practices</b></p> <p><b>Targeted Constituents</b></p> <ul style="list-style-type: none"> <li>○ Sediment</li> <li>● Nutrients</li> <li>● Toxic Materials</li> <li>● Oil &amp; Grease</li> <li>○ Flammable Materials</li> <li>● Other Construction Wastes</li> </ul> <p><b>Implementation Requirements</b></p> <ul style="list-style-type: none"> <li>○ Capital Costs</li> <li>○ Maintenance</li> <li>○ Training</li> <li>○ Suitability for Slopes &gt;6%</li> </ul> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>● Significant Impact</li> <li>○ Medium Impact</li> <li>○ Low Impact</li> <li>? Unknown or Questionable Impact</li> </ul> <p><b>BMP</b><br/><b>23</b></p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge</p> <p>Department of Public Works</p> |

| Concrete Waste Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <p><b>DESCRIPTION</b><br/>Concrete waste at construction sites comes in two forms: 1) excess fresh concrete mix including truck and equipment washing, and 2) concrete dust and concrete debris resulting from demolition. Both forms have the potential to impact water quality through storm water runoff contact with the waste.</p> <p><b>PRIMARY USE</b><br/>Concrete waste is present at most construction sites. This BMP should be utilized at sites in which concrete waste is present.</p> <p><b>APPLICATIONS</b><br/>A number of water quality parameters can be affected by introduction of concrete - especially fresh concrete. Concrete affects the pH of runoff, causing significant chemical changes in water bodies and harming aquatic life. Suspended solids in the form of both cement and aggregate dust are also generated from both fresh and demolished concrete waste.</p> <p><b>Current Unacceptable Waste Concrete Disposal Practices</b></p> <ul style="list-style-type: none"> <li>- Dumping in vacant areas on the job-site</li> <li>- Illicit dumping off-job-site</li> <li>- Dumping into ditches or drainage facilities</li> </ul> <p><b>Recommended Disposal Practices</b></p> <ul style="list-style-type: none"> <li>- Avoid unacceptable disposal practices listed above.</li> <li>- Develop pre-determined, safe concrete disposal areas.</li> <li>- Provide a washout area with a minimum of 6 cubic feet of containment area volume for every 10 cubic yards of concrete poured.</li> <li>- Never dump waste concrete illicitly or without property owners knowledge and consent.</li> <li>- Treat runoff from storage areas through the use of structural controls as required.</li> </ul> <p><b>Education</b></p> <ul style="list-style-type: none"> <li>- Drivers and equipment operators should be instructed on proper disposal and equipment washing practices (see above).</li> <li>- Supervisors must be made aware of the potential environmental consequences of improperly handled concrete waste.</li> </ul> <p><b>Enforcement</b></p> <ul style="list-style-type: none"> <li>- The construction site manager or foreman must ensure that employees and pre-mix companies follow proper procedures for concrete disposal and equipment washing.</li> <li>- Employees violating disposal or equipment cleaning directives must be re-educated or disciplined if necessary.</li> </ul> | <p><b>Applications</b><br/>Perimeter Control<br/>Slope Protection<br/>Sediment Trapping<br/>Channel Protection<br/>Temporary Stabilization<br/>Permanent Stabilization</p> <p><b>Waste Management</b><br/><b>Housekeeping Practices</b></p> <p><b>Targeted Constituents</b></p> <ul style="list-style-type: none"> <li>○ Sediment</li> <li>○ Nutrients</li> <li>○ Toxic Materials</li> <li>○ Oil &amp; Grease</li> <li>○ Flammable Materials</li> <li>● Other Construction Wastes</li> </ul> <p><b>Implementation Requirements</b></p> <ul style="list-style-type: none"> <li>● Capital Costs</li> <li>● Maintenance</li> <li>● Training</li> <li>○ Suitability for Slopes &gt;6%</li> </ul> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>● Significant Impact</li> <li>○ Medium Impact</li> <li>○ Low Impact</li> <li>? Unknown or Questionable Impact</li> </ul> <p><b>BMP</b><br/><b>24</b></p> <p>City of Baton Rouge<br/>Parish of East Baton Rouge</p> <p>Department of Public Works</p> |

| Solid Waste Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                   |
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| <ul style="list-style-type: none"> <li>- Keep solid waste materials under cover in either a closed dumpster or other enclosed trash container that limits contact with rain and runoff.</li> <li>- Store waste materials away from drainage ditches, swales and catch basins.</li> <li>- Do not allow trash containers to overflow.</li> <li>- Do not allow waste materials to accumulate on the ground.</li> <li>- Prohibit littering by workers and visitors.</li> <li>- Police site daily for litter and debris.</li> <li>- Enforce solid waste handling and storage procedures.</li> </ul> <p><b>Disposal Procedures</b></p> <ul style="list-style-type: none"> <li>- If feasible, segregate recyclable wastes from non-recyclable waste materials and dispose of properly.</li> <li>- General construction debris may be hauled to a licensed construction debris landfill (typically less expensive than a sanitary landfill).</li> <li>- Use waste facilities approved by local jurisdiction.</li> <li>- Runoff which comes into contact with unprotected waste shall be directed into structural treatment such as silt fence to remove debris.</li> </ul> <p><b>Education</b></p> <ul style="list-style-type: none"> <li>- Educate all workers on solid waste storage and disposal procedures.</li> <li>- Instruct workers in identification of solid waste and hazardous waste.</li> <li>- Have regular meetings to discuss and reinforce disposal procedures (incorporate in regular safety seminars).</li> <li>- Clearly mark on all solid waste containers which materials are acceptable.</li> </ul> <p><b>Quality Control</b></p> <ul style="list-style-type: none"> <li>- Foreman and/or construction supervisor shall monitor on-site solid waste storage and disposal procedures.</li> <li>- Discipline workers who repeatedly violate procedures.</li> </ul> <p><b>Requirements</b></p> <ul style="list-style-type: none"> <li>- Job-site waste handling and disposal education and awareness program.</li> <li>- Commitment by management to implement and enforce Solid Waste Management Program.</li> <li>- Compliance by workers.</li> <li>- Sufficient and appropriate waste storage containers.</li> <li>- Timely removal of stored solid waste materials.</li> <li>- Possible modest cost impact for additional waste storage containers.</li> <li>- Small cost impact for training and monitoring</li> <li>- Minimal overall cost impact.</li> </ul> <p><b>LIMITATIONS</b><br/>Only addresses non-hazardous solid waste.<br/>One part of a comprehensive construction site management program.</p> | <p><b>BMP</b><br/><b>22</b></p> <p>Department of Public Works</p> |

| Hazardous Waste Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                   |
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| <ul style="list-style-type: none"> <li>- Designate a foreman or supervisor to oversee hazardous materials handling procedures.</li> <li>- Keep liquid or semi-liquid hazardous waste in appropriate containers (closed drums or similar) and under cover.</li> <li>- Store waste materials away from drainage ditches, swales and catch basins.</li> <li>- Use containment berms in fueling and maintenance areas and where the potential for spills is high.</li> <li>- Ensure that adequate hazardous waste storage volume is available.</li> <li>- Ensure that hazardous waste collection containers are conveniently located.</li> <li>- Do not allow potentially hazardous waste materials to accumulate on the ground.</li> <li>- Enforce hazardous waste handling and disposal procedures.</li> <li>- Clearly mark on all hazardous waste containers which materials are acceptable for the container.</li> </ul> <p><b>Disposal Procedures</b></p> <ul style="list-style-type: none"> <li>- Regularly schedule hazardous waste removal to minimize on-site storage.</li> <li>- Use only reputable, licensed hazardous waste haulers.</li> </ul> <p><b>Education</b></p> <ul style="list-style-type: none"> <li>- Instruct workers in identification of hazardous waste</li> <li>- Educate workers of potential dangers to humans and the environment from hazardous wastes</li> <li>- Instruct workers on safety procedures for common construction site hazardous wastes</li> <li>- Educate all workers on hazardous waste storage and disposal procedures</li> <li>- Have regular meetings to discuss and reinforce identification, handling and disposal procedures (incorporate in regular safety seminars)</li> <li>- Establish a continuing education program to indoctrinate new employees.</li> </ul> <p><b>Quality Assurance</b></p> <ul style="list-style-type: none"> <li>- Foreman and/or construction supervisor shall monitor on-site hazardous waste storage and disposal procedures.</li> <li>- Educate and if necessary, discipline workers who violate procedures.</li> <li>- Ensure that the hazardous waste disposal contractor is reputable and licensed.</li> </ul> <p><b>Requirements</b></p> <ul style="list-style-type: none"> <li>- Job-site hazardous waste handling and disposal education and awareness program.</li> <li>- Commitment by management to implement hazardous waste management practices.</li> <li>- Compliance by workers.</li> <li>- Sufficient and appropriate hazardous waste storage containers.</li> <li>- Timely removal of stored hazardous waste materials.</li> </ul> <p><b>Costs</b></p> <ul style="list-style-type: none"> <li>- Possible modest cost impact for additional hazardous storage containers.</li> <li>- Small cost impact for training and monitoring.</li> <li>- Potential cost impact for hazardous waste collection and disposal by licensed hauler - actual cost depends on type of material and</li> </ul> | <p><b>BMP</b><br/><b>23</b></p> <p>Department of Public Works</p> |

| Concrete Waste Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                   |
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| <p><b>Demolition Practices</b></p> <ul style="list-style-type: none"> <li>- Monitor weather and wind direction to ensure concrete dust is not entering drainage structures and surface waters.</li> <li>- Where appropriate, construct sediment traps or other types of sediment detention devices downstream of demolition activities.</li> </ul> <p><b>Requirements</b></p> <ul style="list-style-type: none"> <li>- Use a pre-determined disposal site(s) approved by LADEQ for waste concrete (See BMP 22 Solid Waste Management). Inform PROGRAM MANAGER of selected disposal site(s).</li> <li>- Prohibit dumping waste concrete anywhere but pre-determined areas.</li> <li>- Assign pre-determined truck and equipment washing areas.</li> <li>- Educate drivers and operators on proper disposal and equipment cleaning procedures.</li> </ul> <p><b>Costs</b></p> <ul style="list-style-type: none"> <li>- Minimal cost impact for training and monitoring.</li> <li>- Concrete disposal cost depends on availability and distance to suitable disposal areas</li> <li>- Additional costs involved in equipment washing could be significant.</li> </ul> <p><b>LIMITATIONS</b><br/>This concrete waste management program is one part of a comprehensive construction site waste management program.</p> | <p><b>BMP</b><br/><b>24</b></p> <p>Department of Public Works</p> |

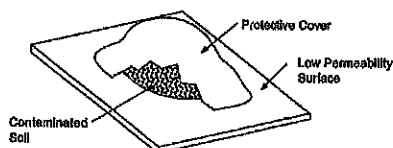
THOMAS A. STEPHENS  
Licenses No. 19417  
Professional Engineer  
in  
Louisiana  
2/16/2008

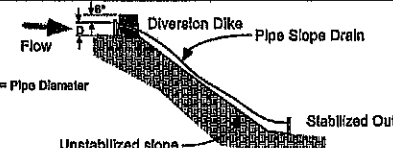
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| STANDARD PLAN NO.<br>903-01                                                                            | DATED<br>FEBRUARY 25, 2008 | SHEET NO.<br>8 OF 11    |
| STORM WATER POLLUTION<br>PREVENTION PLAN<br>BEST MANAGEMENT PRACTICES                                  |                            |                         |
| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                            |                         |
| DESIGNED<br>G. CHENG                                                                                   | DRAWN<br>G. VANNICE        | CHECKED<br>G. CHENG     |
|                                                                                                        |                            | APPROVED<br>T. STEPHENS |



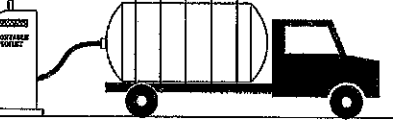
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| <b>Sandblasting Waste Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>DESCRIPTION</b><br>The objective of this management program is to minimize the potential of storm water quality degradation from sandblasting activities at construction sites. The key issues in this program are prudent handling and storage of sandblast media, dust suppression, and proper collection and disposal of spent media. It is not the intent of this program to outline all of the worker safety issues pertinent to this practice. Safety issues should be addressed by construction safety programs as well as local, state, and federal regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>INSTALLATION/APPLICATION CRITERIA</b><br>Since the media consists of fine abrasive granules, it can be easily transported by air and running water. Sandblasting activities typically create a significant dust problem which must be contained and collected to prevent off-site migration of fines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Operational Procedures</b> <ul style="list-style-type: none"> <li>Use only inert, non-degradable sandblast media.</li> <li>Use appropriate equipment for the job, do not over-blast.</li> <li>Whenever possible, blast in a downward direction.</li> <li>Install a wind sock or other wind direction instrument.</li> <li>Cease blasting activities in high winds or if wind direction could transport grit to drainage facilities.</li> <li>Install dust shielding around sandblasting areas.</li> <li>Collect and dispose of all spent sandblast grit, use dust containment fabrics and dust collection hoppers and barrels.</li> <li>Non-hazardous sandblast grit may be disposed in permitted construction debris landfills or permitted sanitary landfills.</li> <li>If sandblast media cannot be fully contained, construct sediment traps downstream from blasting area where appropriate.</li> <li>Use fencing where appropriate in areas where blast media cannot be fully contained.</li> <li>If necessary, install misting equipment to remove sandblast grit from the air - prevent runoff from misting operations from entering drainage systems.</li> <li>Use vacuum grit collection systems where possible.</li> <li>Keep records of sandblasting materials, procedures, and weather conditions on a daily basis.</li> <li>Take all reasonable precautions to ensure that sandblasting grit is contained and kept away from drainage structures.</li> </ul> | <b>Applications</b><br>Perimeter Control<br>Slope Protection<br>Sediment Trapping<br>Channel Protection<br>Temporary Stabilization<br>Permanent Stabilization<br><b>Waste Management</b><br>Housekeeping Practices<br><b>Targeted Constituents</b> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> <b>Implementation Requirements</b> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt;5%</li> </ul> <b>Legend</b> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul> |
| <b>Educational Issues</b> <ul style="list-style-type: none"> <li>Educate all on-site employees of potential dangers to humans and the environment from sandblast grit.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>BMP</b><br><b>25</b><br>City of Baton Rouge<br>Parish of East Baton Rouge<br>Department of Public Works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

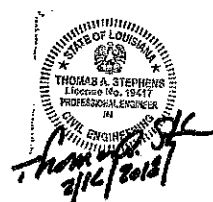
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| <b>Contaminated Soil Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                            |
| <b>DESCRIPTION</b><br>Prevent or reduce the discharge of pollutants to storm water from contaminated soil and highly acidic or alkaline soils by conducting pre-construction surveys, inspecting excavations regularly, and remediating contaminated soil promptly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                            |
| <b>APPLICATIONS</b><br>Contaminated soils may occur on your site for several reasons including:<br>Past site uses and activities;<br>Detected or undetected spills and leaks; and<br>Excavation of contaminated soil promptly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                            |
| <b>DESIGN CRITERIA</b> <ul style="list-style-type: none"> <li>Conduct thorough site planning including pre-construction geologic surveys.</li> <li>Look for contaminated soil as differences in soil properties.</li> <li>Seal bedrock fractures with grout or bentonite to reduce seepage from excavation.</li> <li>Prevent leaks and spills to the maximum extent practicable. Contaminated soil can be expensive to treat and/or dispose of properly. However, addressing the problem before building construction is much less expensive than after the buildings are in place.</li> <li>Test suspected soils at a certified laboratory.</li> <li>If the soil is contaminated, work with the local regulatory agencies to develop options for treatment and/or disposal.</li> </ul>                    |                                                                                                            |
| <b>LIMITATIONS</b><br>If necessary, use a private spill cleanup company.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                            |
| <b>MAINTENANCE REQUIREMENTS</b><br>Contaminated soils that cannot be treated on-site must be disposed of off-site by a licensed hazardous waste hauler. The presence of contaminated soil may indicate contaminated water as well.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                            |
| <b>Applications</b><br>Perimeter Control<br>Slope Protection<br>Sediment Trapping<br>Channel Protection<br>Temporary Stabilization<br>Permanent Stabilization<br><b>Waste Management</b><br>Housekeeping Practices<br><b>Targeted Constituents</b> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> <b>Implementation Requirements</b> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt;5%</li> </ul> <b>Legend</b> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul> | <b>BMP</b><br><b>26</b><br>City of Baton Rouge<br>Parish of East Baton Rouge<br>Department of Public Works |

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| <b>Pipe Slope Drain</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                            |
| <b>DESCRIPTION</b><br>A pipe slope drain is a temporary pipe line typically using flexible pipe that conveys runoff down unstable slopes. The drain is anchored on the upstream end with some form of headwall to limit erosion and secure the pipe.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                            |
| <b>PRIMARY USE</b><br>A pipe slope drain is used on sites with a long, unstable, steep slope area which is subject to erosion from overland flow. It is normally used in combination with interceptor swales or diversion dikes to direct the flow into the pipe area. The pipe slope drain can provide service for a relatively large area. It does not treat the runoff, therefore if the runoff contains sediment, treatment through a controlled outlet will be required before the flow is released offsite.                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                            |
| <b>APPLICATIONS</b><br>Sites with large berms or grade changes such as roadway embankments are candidates for a pipe slope drain. Slope provisions must be made to direct the flow into the pipe drain, some grading is normally required upstream of the pipe slope drain. Installed properly, slope erosion can be greatly reduced (but not entirely eliminated) through the use of the drain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                            |
| Pipe slope drains also require a stabilized outlet. This is critical since the velocities at the outfall are normally high. Velocity dissipators as well as stone or concrete rip rap are typically required to reduce the velocity and spread the flow, reducing erosion. Flow from a pipe slope drain should be routed to a sediment reduction practice through interceptor swales, diversion dikes or other suitable methods.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                            |
| <b>DESIGN CRITERIA</b> <ul style="list-style-type: none"> <li>The entrance to the pipe slope drain may be a standard corrugated metal prefabricated head and section with an integral toe plate extending a minimum of 6 inches from the bottom of the end section. The grade of the entrance shall be 3 percent maximum.</li> <li>The berm at the entrance shall have a minimum height of the pipe diameter + 6" and a minimum width of 3 times the pipe diameter.</li> <li>All sections of the pipe slope drain shall be connected using watertight couplers or gasketed watertight fittings.</li> <li>All sediment-laden runoff conveyed by the pipe slope drain shall be directed to a sediment trapping facility.</li> <li>Temporary pipe slope drains are to be sized to accommodate runoff flows equivalent to a 10 year storm as calculated using the Rational Method and</li> </ul> |                                                                                                            |
| <b>Applications</b><br>Perimeter Control<br>Slope Protection<br>Sediment Trapping<br>Channel Protection<br>Temporary Stabilization<br>Permanent Stabilization<br><b>Waste Management</b><br>Housekeeping Practices<br><b>Targeted Constituents</b> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> <b>Implementation Requirements</b> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt;5%</li> </ul> <b>Legend</b> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul>                                                                                   | <b>BMP</b><br><b>28</b><br>City of Baton Rouge<br>Parish of East Baton Rouge<br>Department of Public Works |

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| <b>Sandblasting Waste Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                            |
| <ul style="list-style-type: none"> <li>Instruct all on-site employees of the potential hazardous nature of sandblast grit and the possible symptoms of over-exposure to sandblast grit.</li> <li>Instruct operators of sandblasting equipment on safety procedures and personal protection equipment.</li> <li>Instruct operators on proper procedures regarding storage, handling and containment of sandblast grit.</li> <li>Instruct operators to recognize unfavorable weather conditions regarding sandblasting activities.</li> <li>Instruct operators and supervisors on current local, state and federal regulations regarding fugitive dust and hazardous waste from sandblast grit.</li> <li>Have weekly meetings with operators to discuss and reinforce proper operational procedures.</li> <li>Establish a continuing education program to indoctrinate new employees.</li> </ul> |                                                                                                            |
| <b>Materials Handling Recommendations</b> <ul style="list-style-type: none"> <li>Sandblast media should always be stored under cover away from drainage structures.</li> <li>Ensure that stored media or grit is not subject to transport by wind.</li> <li>Ensure that all sandblasting equipment as well as storage containers comply with current local, state and federal regulations.</li> <li>Refer to Hazardous Waste BMP hazardous components.</li> <li>Capture and treat runoff which comes into contact with sandblasting material or waste.</li> </ul>                                                                                                                                                                                                                                                                                                                              |                                                                                                            |
| <b>Quality Assurance</b> <ul style="list-style-type: none"> <li>Foreman and/or construction supervisor should monitor all sandblasting activities and safety procedures.</li> <li>Educate and if necessary, discipline workers who violate procedures.</li> <li>Take all reasonable precautions to ensure that sandblast grit is not transported off-site or into drainage facilities.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                            |
| <b>Requirements</b> <ul style="list-style-type: none"> <li>Education and awareness program for all employees regarding control of sandblasting and potential dangers to humans and the environment.</li> <li>Operator and supervisor education program for those directly involved in sandblasting activities</li> <li>Instructions on material handling, proper equipment operation, personal protective equipment, fugitive dust control, record keeping and reporting.</li> <li>Proper sandblast equipment for the job.</li> <li>Site-specific fugitive dust control and containment equipment.</li> <li>Site-specific fugitive dust control procedures.</li> <li>Compliance by supervisors and workers.</li> </ul>                                                                                                                                                                         |                                                                                                            |
| <b>Costs</b> <ul style="list-style-type: none"> <li>Minimal cost for training and monitoring.</li> <li>Potential for significant cost for containment procedures on large jobs.</li> <li>Potential for significant costs associated with cleanup, corrosion and remediation if contamination occurs.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>BMP</b><br><b>25</b><br>City of Baton Rouge<br>Parish of East Baton Rouge<br>Department of Public Works |

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| <b>Sanitary/Septic Waste Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                            |
| <b>DESCRIPTION</b><br>Prevent or reduce the discharge of pollutants to storm water from sanitary/septic waste by providing convenient, well-maintained facilities, and arranging for regular service and disposal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                            |
| <b>APPLICATIONS</b><br>This BMP is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                            |
| <b>DESIGN CRITERIA</b> <ul style="list-style-type: none"> <li>Sanitary or septic wastes should be treated or disposed of in accordance with State and local requirements.</li> <li>Locate sanitary facilities in a convenient location.</li> <li>Untreated raw sewage should never be discharged or buried.</li> <li>Temporary septic systems should treat wastes to appropriate levels before discharging.</li> <li>If using an on-site disposal system (OSDS), such as a septic system, contact the</li> <li>If discharging to the sanitary sewer, contact the local sewage treatment plant for their requirements.</li> <li>Sanitary/septic facilities should be maintained in good working order by a licensed service.</li> <li>Arrange for regular waste collection by a licensed hauler before facilities overflow.</li> </ul> |                                                                                                            |
| <b>LIMITATIONS</b><br>There are no major limitations to this best management practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                            |
| <b>MAINTENANCE REQUIREMENTS</b><br>Inspect facilities regularly. Arrange for regular waste collection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                            |
| <b>Applications</b><br>Perimeter Control<br>Slope Protection<br>Sediment Trapping<br>Channel Protection<br>Temporary Stabilization<br>Permanent Stabilization<br><b>Waste Management</b><br>Housekeeping Practices<br><b>Targeted Constituents</b> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> <b>Implementation Requirements</b> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt;5%</li> </ul> <b>Legend</b> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul>                            | <b>BMP</b><br><b>27</b><br>City of Baton Rouge<br>Parish of East Baton Rouge<br>Department of Public Works |

| <b>Pipe Slope Drain</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                            |                                    |     |           |     |           |     |           |     |           |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Manning's equation, but in no case shall pipes be sized smaller than is shown in the following table:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                            |                                    |     |           |     |           |     |           |     |           |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <table border="1"> <thead> <tr> <th>Minimum Pipe Size</th><th>Maximum Contributing Drainage Area</th></tr> </thead> <tbody> <tr> <td>12"</td><td>0.6 Acres</td></tr> <tr> <td>16"</td><td>1.6 Acres</td></tr> <tr> <td>21"</td><td>2.5 Acres</td></tr> <tr> <td>24"</td><td>3.5 Acres</td></tr> <tr> <td>30"</td><td>5.0 Acres</td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Minimum Pipe Size                                                                                          | Maximum Contributing Drainage Area | 12" | 0.6 Acres | 16" | 1.6 Acres | 21" | 2.5 Acres | 24" | 3.5 Acres | 30" | 5.0 Acres | <ul style="list-style-type: none"> <li>Maximum drainage area for individual pipe slope drains shall be 5 acres. For areas larger than 5 acres, additional drains shall be added.</li> <li>Both the entrance and outfall of the pipe slope drain should be properly stabilized. Grass can normally be used at the entrance, but armor type stabilization such as stone or concrete rip rap is normally required to address the high velocities of the outfall.</li> <li>An effectiveness rating is based on the ratio of storm water routed away from the slope and into the pipe drain versus the total area of the drainage basin. A minimum value of 0.40 and a maximum value of 0.85 is used for the rating.</li> </ul> |
| Minimum Pipe Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Maximum Contributing Drainage Area                                                                         |                                    |     |           |     |           |     |           |     |           |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 12"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.6 Acres                                                                                                  |                                    |     |           |     |           |     |           |     |           |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 16"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.6 Acres                                                                                                  |                                    |     |           |     |           |     |           |     |           |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 21"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.5 Acres                                                                                                  |                                    |     |           |     |           |     |           |     |           |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 24"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.5 Acres                                                                                                  |                                    |     |           |     |           |     |           |     |           |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 30"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5.0 Acres                                                                                                  |                                    |     |           |     |           |     |           |     |           |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>LIMITATIONS</b> <ul style="list-style-type: none"> <li>Drains must be located away from construction areas since the drain can easily be damaged by construction traffic.</li> <li>Securing the pipe to the slope can be difficult and require significant maintenance during the life of the system.</li> <li>In situations where pipe slope drains convey sediment-laden runoff, pipes can become clogged during large rain events causing water to overflow the diversion dikes thereby creating a serious erosion condition.</li> <li>Grading is normally required upstream of the pipe slope drain in order to direct flow into the system. This can cause additional cost and maintenance.</li> <li>A pipe slope drain reduces erosion but does not prevent it or reduce the amount of sediment in runoff. Additional measures should be used in conjunction with the pipe slope drain to treat the flow.</li> </ul> |                                                                                                            |                                    |     |           |     |           |     |           |     |           |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>MAINTENANCE REQUIREMENTS</b><br>Inspection must be made of the pipe after each significant (>0.5 inch) rain event to locate and repair any damage to joints or clogging of the pipe. In cases where the diversion dike has deteriorated from around the entrance of the pipe, it may be necessary to reinforce the dike with sandbags or to install a concrete collar to prevent failure. Signs of erosion around the pipe drain should be addressed in a timely manner by stabilizing the area with erosion control mats, crushed stone, concrete or other acceptable method.                                                                                                                                                                                                                                                                                                                                             |                                                                                                            |                                    |     |           |     |           |     |           |     |           |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b><br>Perimeter Control<br>Slope Protection<br>Sediment Trapping<br>Channel Protection<br>Temporary Stabilization<br>Permanent Stabilization<br><b>Waste Management</b><br>Housekeeping Practices<br><b>Targeted Constituents</b> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> <b>Implementation Requirements</b> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt;5%</li> </ul> <b>Legend</b> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul>                                                                                                                    | <b>BMP</b><br><b>28</b><br>City of Baton Rouge<br>Parish of East Baton Rouge<br>Department of Public Works |                                    |     |           |     |           |     |           |     |           |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

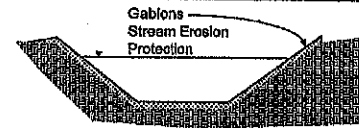

  
 THOMAS A. STEPHENS  
 License No. 19477  
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 CIVIL ENGINEERING  
 2/16/2011

|                                                                                                        |                            |                      |
|--------------------------------------------------------------------------------------------------------|----------------------------|----------------------|
| STANDARD PLAN NO.<br>903-01                                                                            | DATED<br>FEBRUARY 25, 2008 | SHEET NO.<br>9 OF 11 |
| STORM WATER POLLUTION<br>PREVENTION PLAN<br>BEST MANAGEMENT PRACTICES                                  |                            |                      |
| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                            |                      |
| DESIGNED<br>G. CHENG                                                                                   | DRAWN<br>G. VANNICE        | CHECKED<br>G. CHENG  |
| APPROVED<br>T. STEPHENS                                                                                |                            |                      |

| DATE | DESCRIPTION | BY |
|------|-------------|----|
|      | REVISIONS   |    |



### Permanent Structural Controls



**Applications**

- Perimeter Control
- Slope Protection
- Sediment Trapping
- Channel Protection
- Temporary Stabilization
- Permanent Stabilization
- Waste Management
- Housekeeping Practices

**Targeted Constituents**

- Sediment
- Nutrients
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Wastes

**Implementation Requirements**

- Capital Costs
- Maintenance
- Training
- Suitability for Slopes >6%

**Legend**

- Significant Impact
- Medium Impact
- Low Impact
- ? Unknown or Questionable Impact

**BMP**

**29**

City of Baton Rouge  
Parish of East Baton Rouge

Department of Public Works

**DESCRIPTION**

Permanent erosion techniques consist of a wide variety of erosion prevention methods including gabions, retaining walls, and rip rap. These are not included as individual BMPs since they go beyond construction phase measures and due to the fact that their use is widespread in the region and the variety of design factors influencing design.

**PRIMARY USE**

Permanent erosion control is required at the completion of the construction phase of the project. This includes permanent structural methods as well as non-structural methods such as vegetation.

**APPLICATIONS**

Due to high installation cost and long term maintenance, permanent structural methods should be used only when necessary to address severe erosive conditions. In certain instances however, retaining walls are an effective method to reduce site slopes, reducing runoff velocity. Gabions and concrete rip-rap are effective in reducing stream bank erosion under severe concentrated flow conditions and at pipe outfalls.

**DESIGN CRITERIA**

Most structural controls such as gabions and rip-rap are designed based on the velocity of flow and the size of the stone used. Project plans will address this as part of standard details. Specifications for rip rap will be provided in design specifications for stone size based on the design velocity of flow across the structure. Manufacturers' information addresses stone size along with basket dimensions for gabions.

Design of retaining walls is based on a variety of structural conditions including soil compressive strength, wall height and water table influence. Tables of dimensions for retaining walls based on site conditions are available from a variety of sources including the Concrete Reinforcing Steel Institute (CRSI).

A critical aspect with regards to the design of many permanent controls is adequate anchoring of the structure to prevent undermining of the

### Temporary Sediment Tank



**Applications**

- Perimeter Control
- Slope Protection
- Sediment Trapping
- Channel Protection
- Temporary Stabilization
- Permanent Stabilization
- Waste Management
- Housekeeping Practices

**Targeted Constituents**

- Sediment
- Nutrients
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Wastes

**Implementation Requirements**

- Capital Costs
- Maintenance
- Training
- Suitability for Slopes >6%

**Legend**

- Significant Impact
- Medium Impact
- Low Impact
- ? Unknown or Questionable Impact

**BMP**

**30**

City of Baton Rouge  
Parish of East Baton Rouge

Department of Public Works

**DESCRIPTION**

A temporary sediment tank (TST) is a large truck mounted tank used to hold sediment laden water to provide for sedimentation and filtration. For smaller applications, 55 gallon drums or other water tight container can be used for storage. Water is pumped into the tank where it is detained. If desired an outlet with a geotextile filter can be provided to release the flow after a period of detention.

**PRIMARY USE**

A TST is typically used at construction sites in urban areas where conventional methods of sediment removal (e. g., sediment traps, sediment basins) are not practical.

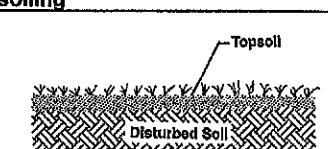
**APPLICATIONS**

Applications for a TST include utility construction in confined areas (such as a business district or large developed area) or localized construction in which other BMPs are not required such as small, depressed construction (tank farms). This includes pumpage from excavation in heavily developed areas, such as a central business district, with flows due to groundwater or runoff entering the trench or excavated area.

**DESIGN CRITERIA**

- A TST can be used as either a sedimentation or filtration device. If no oil/grease is present in the runoff, additional treatment will be required before release of runoff.
- For use as a small scale sedimentation basin, de-watering discharge is directed into the TST to a level below the tank midpoint and held for a minimum of 2 hours to allow settlement of a majority of the suspended particles. The tank should be designed for a controlled release when the contents of the tank reach a level higher than the midpoint. When sediment occupies 1/3 the capacity of the TST, it should be removed from the tank.
- As a filtration device, a TST is used for collecting de-watering discharge and flowing it through a filtered opening at the outlet of

### Topsailing



**Applications**

- Perimeter Control
- Slope Protection
- Sediment Trapping
- Channel Protection
- Temporary Stabilization
- Permanent Stabilization
- Waste Management
- Housekeeping Practices

**Targeted Constituents**

- Sediment
- Nutrients
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Wastes

**Implementation Requirements**

- Capital Costs
- Maintenance
- Training
- Suitability for Slopes >6%

**Legend**

- Significant Impact
- Medium Impact
- Low Impact
- ? Unknown or Questionable Impact

**BMP**

**31**

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Parish of East Baton Rouge

Department of Public Works

**STANDARD FOR TOPSAILING<sup>1</sup>**

**TOPSAILING**

**Definition:** Topsailing is the stripping, storing and spreading of fertile topsoil over disturbed areas.

**Purpose:** Topsailing will provide a more suitable soil medium if the existing or constructed surface is unfavorable for plant growth. Topsailing will greatly increase the success of establishing good vegetation, help reduce soil erosion, and enhance the beauty of the development.

**Conditions Where Practices Applies:**

**Topsailing is Used Where:**

- The texture and quality of the exposed subsoil or parent material are not suitable for producing adequate vegetative growth.
- The soil material is so shallow that the rooting zone is not deep enough to support plants with continuing supplies of moisture and plant nutrients.
- The soil is extremely acidic or contains material toxic to plant growth.

**Design Criteria**

- **Topsoil Materials**  
The site should be explored to determine if there is sufficient surface soil of good quality to justify stripping. If

### Permanent Structural Controls

foundation and washout of sediment at the edges of the structure. Where applicable, proper anchoring in the form of embankment or 'ice in' of the structure is required.

**LIMITATIONS**

The initial cost is an important consideration in selection of permanent structural controls.

Stream bank erosion protection such as rip rap provides limited protection unless used extensively due to the potential for erosion at the edges of the rip rap.

**MAINTENANCE REQUIREMENTS**

Most stone or concrete structures require little maintenance, but may be subject to vandalism. As mentioned above, erosion around the structure may undermine the integrity of the structure. When maintenance is required, it is typically very extensive and costly.

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### Temporary Sediment Tank

the tank to reduce suspended sediment volume. The filter opening in the TST should have an EOS (see silt fence BMP) of 70 or smaller.

**LIMITATIONS**

This is a specialized technique for the situations listed. It is not cost effective for normal sediment removal conditions.

The use of a temporary sediment tank is limited by the capacity of the tank, the time required for settlement of suspended material, and disposal of the water and the sediment.

**MAINTENANCE REQUIREMENTS**

The temporary sediment tank should be inspected periodically during and after use. A tank should be cleaned out when it becomes 1/3 full of sediment.

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### Topsailing

additional off-site topsoil is needed, it should meet the following standards as well:

- Topsoil should be friable and loamy (loam, sandy loam, silt loam, sandy clay loam, clay loam).
- Topsoil should be free of debris, objectionable weeds and stones, and contain no toxic substances that may be harmful to plant growth.
- Organic matter content should not be less than 0.75 percent by weight; pH range should be from 5.0 - 7.5.

**Stripping and Stockpiling**

Stripping should be confined to the immediate construction area. A 4-8 inch stripping depth is common, but may vary depending on the particular soil.

Topsoil should be stockpiled so that natural drainage is not obstructed and off-site sediment damage does not occur. stockpile side slopes should not exceed 2:1. A perimeter dike with a outlet or straw burl barriers should surround the stockpiles. Temporary seeding should be completed within 15 days of stockpile formation.

**Site Preparation**

When topsailing, maintain needed erosion control practices such as diversion dikes, sediment basins, waterways, etc.

**Grading**

Grades on the areas to be topsailed, which have been previously established, should be maintained.

**Liming**

Where the pH of the subsoil is .0 or less or the soil is composed of heavy clays, agricultural lime be spread in accordance with the soil test on the vegetative establishment practice being used.

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Department of Public Works

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PROFESSIONAL ENGINEER  
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STATE OF LOUISIANA  
3/16/2018

|                                                                                                        |                            |                        |
|--------------------------------------------------------------------------------------------------------|----------------------------|------------------------|
| STANDARD PLAN NO.<br>903-01                                                                            | DATED<br>FEBRUARY 25, 2008 | SHEET NO.<br>10 OF 11  |
| STORM WATER POLLUTION<br>PREVENTION PLAN<br>BEST MANAGEMENT PRACTICES                                  |                            |                        |
| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                            |                        |
| DESIGNED<br>G. CHENG                                                                                   | DRAWN<br>G. VANNICE        | CHECKED<br>T. STEPHENS |

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| DATE | DESCRIPTION | BY |
|      | REVISIONS   |    |



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| PROJECT NO. | SHEET |
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Topsolling

Bonding - After and immediately prior to dumping and spreading the topsoil, the subgrade should be loosened by diskling and scarifying to a depth of at least two inches to insure bonding of the topsoil and subsoil.

Applying Topsoil  
 Topsoil should be handled when it is dry enough to work without damaging soil structure. A uniform application of 4 to 6 inches unsettled should be made.

No sod or seed should be placed on soil which has been treated with soil sterilants until sufficient time has elapsed to permit dissipation of toxic materials.

**General Notes**  
 There are advantages and disadvantages in topsolling:

- Stripping, stockpiling, reapplying or importing topsoil may not always be cost-effective. Topsolling can delay seeding or sodding operations and increase the exposure time of denuded areas. Also, most topsoils contain weed seeds, and weeds may compete with desirable species.
- On the other hand, the advantages of topsoil include its high organic matter content, friable nature, water-holding capacity, and nutrient content, which makes it an excellent medium for growth and greatly reduces chances of failure.

Further, preparing a seedbed in subsoil may be considered instead of topsolling, as some subsoils may provide a good growth medium which is generally free of weed seeds.

If topsolling is to be done, it should be determined if an adequate volume of topsoil exists on the site. The stockpile should be located for proper non-erosive drainage and such that it does not interfere with work on the site. Sufficient time should be allowed for spreading and bonding topsoil.

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Public Works

Topsolling

prior to seeding, sodding or planting; topsoil and subsoil should be properly bonded. Topsoil should not be applied to a subsoil with contrasting texture (as a clay) unless the surface of the subsoil is scarified to provide a good bond with the topsoil.

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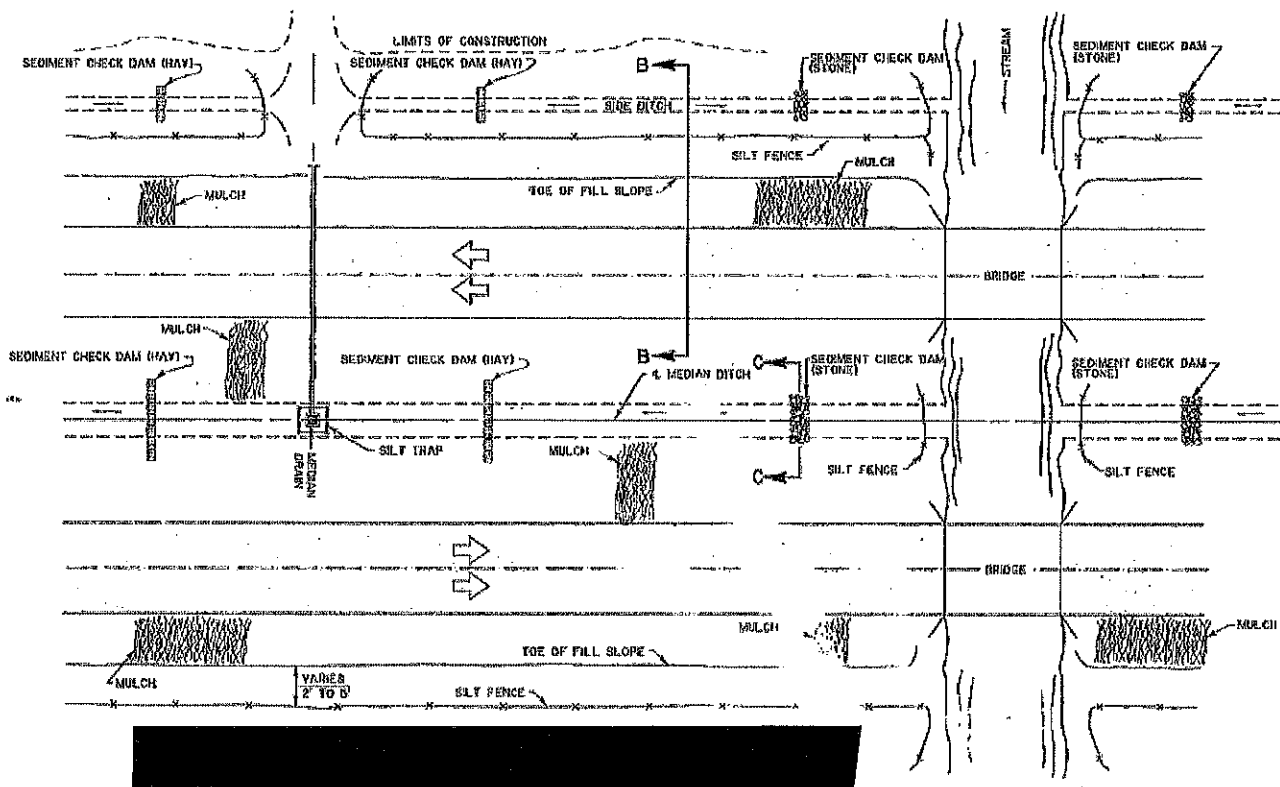
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| STANDARD PLAN NO.<br>903-01 | DATED<br>FEBRUARY 25, 2008 | SHEET NO.<br>11 OF 11 |
|-----------------------------|----------------------------|-----------------------|

STORM WATER POLLUTION  
 PREVENTION PLAN  
 BEST MANAGEMENT PRACTICES

| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |            |          |             |
|--------------------------------------------------------------------------------------------------------|------------|----------|-------------|
| DESIGNED                                                                                               | DRAWN      | CHECKED  | APPROVED    |
| G. CHENG                                                                                               | G. VANNICE | G. CHENG | T. STEPHENS |

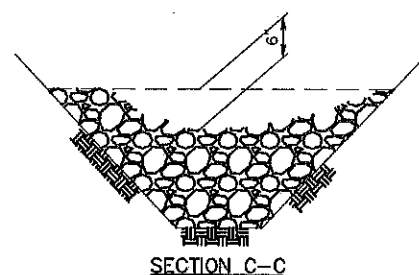
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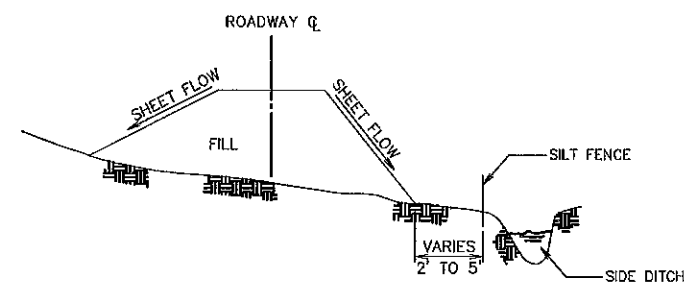
**MULCHES:**  
Mulches are the application of mats of material placed on the soil surface to prevent erosion by protecting the soil surface from raindrop impact and to reduce the velocity of overland flow. Mulches can be organic or synthetic. Mulches shall be in accordance with the Standard Specifications for mulches. A few guidelines for the use of Mulches are:

1. Use on cut and embankment slopes which have not been completed to plan grade or where the weather or soil conditions will not permit completing them within a reasonable time;
2. Use on cleared, grubbed, and scalped areas where soil erosion is likely to occur;
3. Use with temporary seeding.

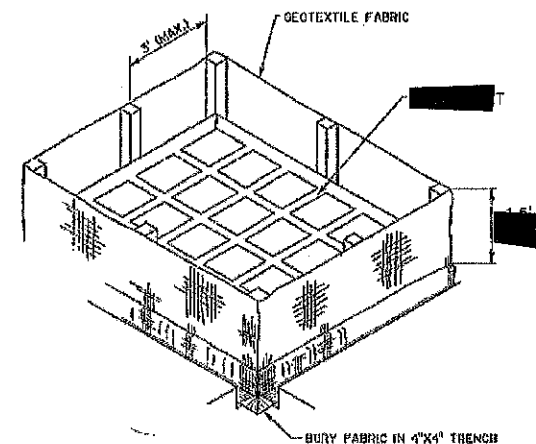


TEMPORARY SEDIMENT CHECK DAM (STONE)

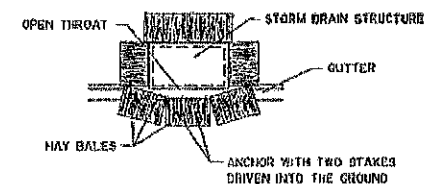
- NOTES:**  
A stone check dam is a small temporary dam constructed across a swale or drainage ditch. The purpose of this measure is to reduce the velocity of concentrated stormwater flows, thereby reducing erosion of the of the swale or ditch. The stone check dam will trap small amounts of sediments generated in the ditch itself, however it should not be used as a sediment trapping device. A few basic design guidelines for the use of Stone Check Dams are:
1. Use in small open channels which drain 10 acres or less;
  2. Do not use in a live stream;
  3. Use in a temporary ditch or swale which, because of their short length of service, cannot receive a non-erodible lining;
  4. Use in permanent ditches or swales which will not receive a permanent lining for an extended period of time;
  5. use in temporary or permanent ditches or swales which need protection during the establishment of grass linings.
  6. For stone specifications, see Section 705, 2lb class.



TEMPORARY SILT FENCE APPLICATION  
(FOR CONSTRUCTION DETAILS AND SPECIFICATIONS SEE SHEET 2 OF 2)

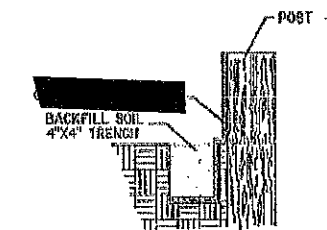


ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC  
(BACKFILL SOIL NOT SHOWN)



PLAN SHOWING HAY BALES

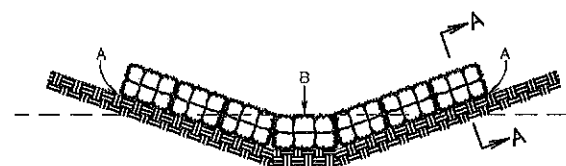
TEMPORARY INLET SILT TRAP



SECTION THRU TRENCH SHOWING  
GEOTEXTILE FABRIC

**NOTES:**  
The temporary drop inlet silt trap is to be used for small drainage areas (less than 1 acre) where the storm drain is functional before the area is stabilized. The trap can be either geotextile fabric or hay bales.

1. Wooden stakes supporting the fabric shall be 2" x 2" or 2" x 4" with a minimum length of 3 feet. The stakes shall be spaced around the inlet at a maximum spacing of 3 feet;
2. The height of the fabric above the inlet shall be limited to 1.5' and the bottom of the fabric shall be buried in a trench approximately 4" wide by 4" deep. The fabric shall be stapled to the post with 1/2" staples;
3. The trap should be inspected regularly after each storm. The sediment should be removed and make sure each stake is firmly in the ground.
4. The geotextile fabric shall conform to Type F or G as per Standard Specifications.



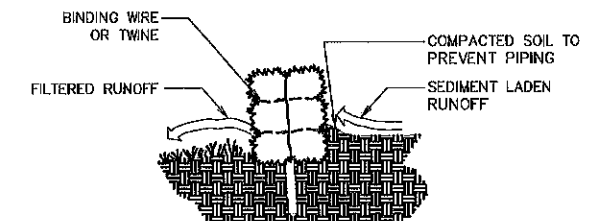
POINTS A SHOULD BE HIGHER THAN POINT B.

ELEVATION

TEMPORARY SEDIMENT CHECK DAM (HAY)

**NOTES:**  
A hay bale barrier is a temporary sediment barrier consisting of a row of entrenched and anchored bales of straw or hay. The hay bale barrier is also used as a check dam to reduce the velocity in small ditches or swales. A few basic design guidelines for the use of a Hay Bale Barrier are:

1. Use where erosion would occur in the form of sheet and rill erosion;
2. Use in minor swales or ditches where the maximum drainage area is 2 acres;
3. Only use where the effectiveness is required for less than 3 months;
4. Do not use in live streams or in swales or ditches where there is a possibility of a washout.



SECTION A-A

LADOTD Standard Plan EC-01 has been adopted with modifications for use by the City/Parish as Standard Plan 903-02.



| STANDARD PLAN NO. | DATED             | SHEET NO. |
|-------------------|-------------------|-----------|
| 903-02            | November 28, 2009 | 1 OF 2    |

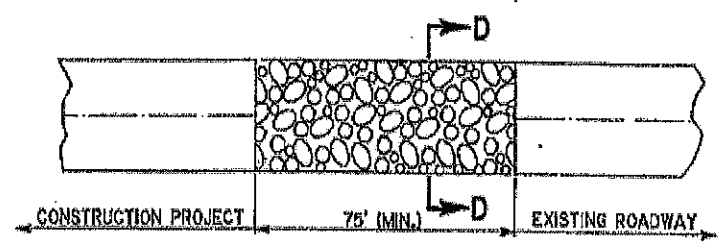
## TEMPORARY EROSION CONTROL INSTALLATION DETAILS

| ENGINEERING DIVISION<br>DEPARTMENT OF PUBLIC WORKS<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |           |          |             |
|--------------------------------------------------------------------------------------------------------|-----------|----------|-------------|
| DESIGNED                                                                                               | DRAWN     | CHECKED  | APPROVED    |
| G. L. P.                                                                                               | G. VANICE | G. L. P. | T. STEPHENS |

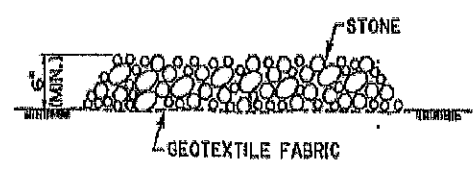
903-02



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| PROJECT NO. | SHEET |
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PLAN



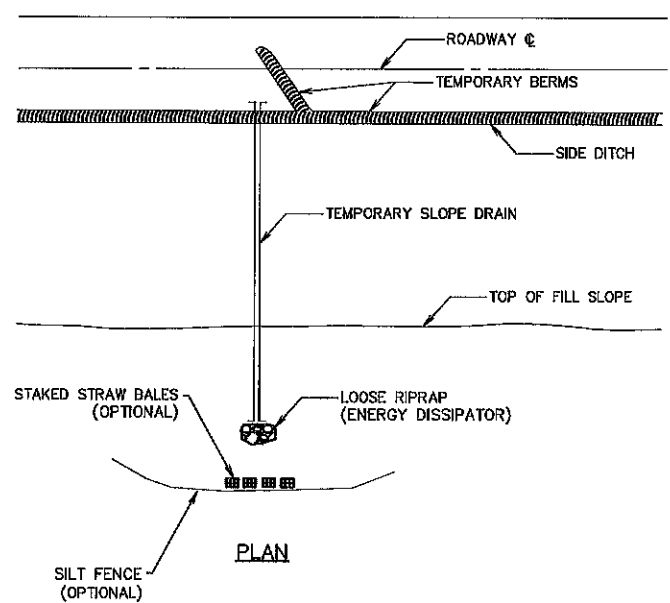
SECTION D-D

**TEMPORARY STONE CONSTRUCTION ENTRANCE**  
 PAY AS SPECIAL ITEM, TEMPORARY STONE CONSTRUCTION ENTRANCE

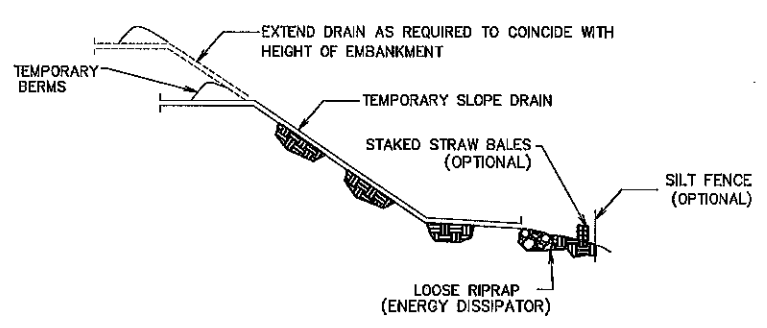
NOTES:  
 TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK

A stone stabilized pad located at points of vehicular ingress and egress on the construction site to reduce the amount of mud transported onto public roads. If the action of the vehicle traveling over the gravel pad is not sufficient to remove the majority of the mud, then the tires must be washed before the vehicle enters a public road. A few basic design guidelines for the use of a Stone Construction Entrance and/or Wash Racks are:

1. The stone layer must be at least 6 inches thick;
2. The length of the pad must be at least 75 feet and it must extend the width of the vehicular ingress and egress;
3. A geotextile fabric underliner is required. The geotextile fabric shall be Type D or per the Standard Specifications;
4. If a wash rack is necessary, provisions must be made to intercept the wash water and trap the sediment before it is carried off-site.
6. For stone specifications, see Section 705, 21b class.



PLAN



ELEVATION

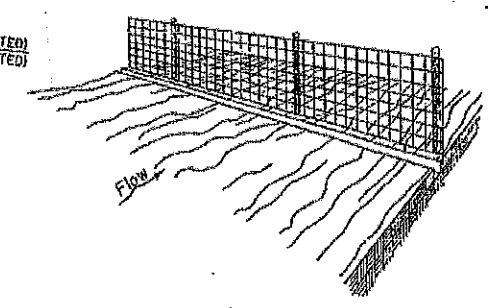
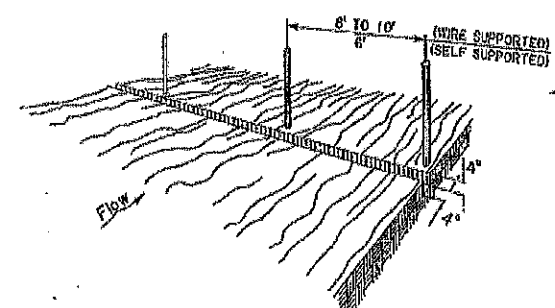
**TEMPORARY SLOPE DRAIN**

NOTES:  
 A temporary slope drain is a device used to carry water from the construction work area to a lower elevation. Slope drains may be plastic sheets, metal or plastic pipe, stone gutters, fiber mats, or concrete or asphalt ditches. A few basic design guidelines for the use of a Temporary Slope Drain are:

1. The spacing of the slope drains varies with the road grade.  
 For Grades: 0.0% - 2.0% use 500' spacing  
 2.1% - 5.0% use 200' spacing  
 Greater than 5.0% use 100' spacing
2. Slope drain material:  
 Smooth pipe - 8" minimum  
 Corrugated pipe - 12" minimum  
 Plastic sheeting - 4' wide minimum  
 Plastic sheeting - 3 mils thick minimum
3. Plastic sheeting can be staked down or weighted with rocks or logs. The area under the sheeting should be shaped to provide an adequate channel.
4. The outlet end should be protected or have some means of dissipating energy. The flow should be directed through a sediment trap such as silt fence or hay bales.
5. To insure proper operation, temporary slope drains should be inspected regularly and after each storm, for clogging or displacement. Erosion at the outlet should be checked and the silt traps cleaned if necessary.

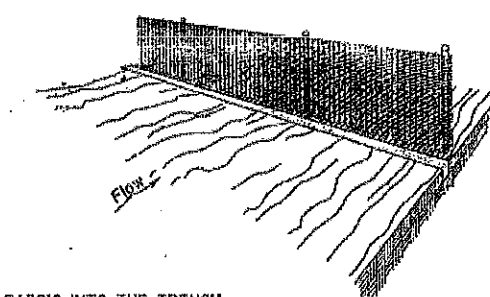
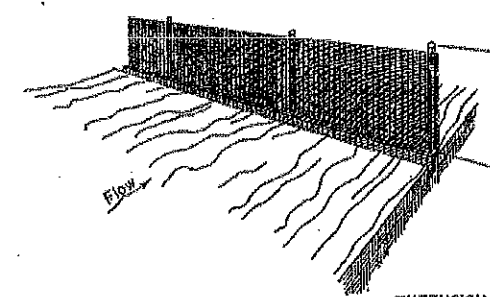
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.

2. STAPLE WIRE FENCING TO THE POSTS.

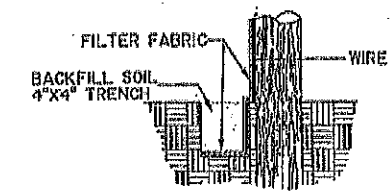


3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.

4. BACKFILL AND COMPACT EXCAVATED SOIL.



EXTENSION OF FABRIC INTO THE TRENCH.



**CONSTRUCTION OF TEMPORARY SILT FENCING**

(WIRE SUPPORTED SILT FENCE IS SHOWN. SELF SUPPORTED SILT FENCE WILL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

NOTES:  
 Silt fencing is a temporary sediment barrier consisting of a filter fabric support by post and stretched across an area to intercept and detain small amounts of sediment. Silt fencing shall be in accordance with Section 903 of the Standard Specifications. A few basic guidelines for the use of Silt Fencing are:

1. Use where erosion would occur in the form of sheet and rill erosion;
2. Use where the maximum drainage area behind the silt fence is 1/4 acre per 100 feet of silt fence length;
3. Use where the maximum slope length behind the barrier is 100 feet;
4. Use where the maximum gradient behind the barrier is 2:1;
5. Do not use silt fences in live streams or in ditches or swales where flows exceed one cubic foot per second.

|                                                                          |                            |                         |
|--------------------------------------------------------------------------|----------------------------|-------------------------|
| STANDARD PLAN NO.<br>903-02                                              | DATED<br>November 26, 2009 | SHEET NO.<br>2 OF 2     |
| TEMPORARY EROSION CONTROL<br>INSTALLATION DETAILS                        |                            |                         |
| ENGINEERING DIVISION<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                            |                         |
| DESIGNED<br>G. L. P.                                                     | DRAWN<br>G. VANICE         | CHECKED<br>G. L. P.     |
|                                                                          |                            | APPROVED<br>T. STEPHENS |

| DATE | DESCRIPTION | BY |
|------|-------------|----|
|      | REVISIONS   |    |



## GENERAL PROVISIONS

- All Temporary Traffic Control (TTC) Devices used shall be in accordance with the City-Parish Standard Specifications for Public Works Construction, the current edition of the Manual on Uniform Traffic Control Devices (MUTCD), and the requirements of the National Cooperative Highway Research Program (NCHRP) 350 for Test Level 3. The MUTCD is available at <http://mutcd.fhwa.dot.gov/>.
- The Contractor shall provide one or more authorized Traffic Control Supervisor (TCS) in accordance with the Standard Specifications.
- Materials used for Temporary Traffic Controls shall be in accordance with the City-Parish Standard Specifications for Public Works Construction and when applicable the City-Parish Qualified Products List (C-P QPL).
- No temporary traffic controls shall be erected without the approval of the City-Parish Traffic Engineer and until work is about to begin, unless they are covered.
- No lane closures, lane shifts, diversions, or detours shall occur without the authorization of the City-Parish Traffic Engineer.
- Responsibility is hereby placed upon the contractor for the installation, maintenance, and operation of all temporary traffic control devices called for in these plans or required by the Project Engineer for the protection of the traveling public as well as all Department and construction personnel. All reflective devices such as signs, drums, barricades, vertical panels, delineators of any type, etc. shall be cleaned or washed periodically to maintain their effectiveness, as required by conditions or Project Engineer.
- The contractor shall also be responsible for the maintenance of all permanent signs and pavement markings left in place as essential to the safe movement and guidance of traffic within the project limits.
- The City-Parish Traffic Engineer shall serve as a technical advisor to the Project Engineer for all Traffic Control matters.
- "Road Work XX Miles" sign shall be required on all projects and located at beginning of the project unless otherwise noted. The sign shall be a minimum Thirty-Six (36) inch X Sixty (60) inch unless otherwise noted.
- Warning signs used for lane closures or lane shifts in which the roadway shall be returned to full public use within Fourteen (14) hours or less may be placed on NCHRP350 approved portable sign frames.
- The City-Parish will approve any detour route marking required to guide travelers around the construction area, but the contractor will be responsible for the required signage.

## SPEED LIMITS

- Speed limits shall be lowered by Ten (10) mph for any construction, maintenance, or utility operation that requires one or more of the following: (A) the condition of the original highway is degraded due to milled surfaces or uneven pavements; (B) work is in progress in the immediate vicinity of the travel way requiring lane closures, lane width reductions, or low speed diversions; (C) workers present on the shoulder within Two (2) ft of the edge of traveled way without barrier protection.
- The reduced speed zone shall only apply to those portions of the project limits affected. The Project Engineer may allow SPEED LIMIT WHEN FLASHING signs to supplement reduced speed zones.
- At the end of the reduced speed zone, a speed limit sign displaying the original speed limit before construction shall be installed.
- If conditions warrant, the City-Parish Traffic Engineer may authorize the reduction of the speed limit by more than Ten (10) mph.

## PAVEMENT MARKINGS (see C-P QPL)

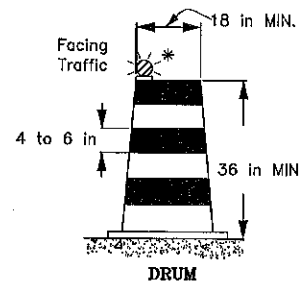
- All pavement markings within the limits of the project that are in conflict with the project signing or the required traffic movements shall be removed from the pavement by blast cleaning or grinding (Existing striping shall not be painted over with black paint or covered with tape).
- If special pavement markings are needed, they shall be reflectorized, removable, and accompanied by the proper signage.
- Temporary Raised Pavement Markers (RPMs) may be added to supplement temporary striping in areas of transition, in tapers, in detours, and in other areas of need as directed by the Project Engineer.
- Materials and placement of temporary pavement markings shall conform to Section 905 of the Standard Specifications. If no pay item exists, temporary markings will be considered incidental to traffic control.

## SIGNS

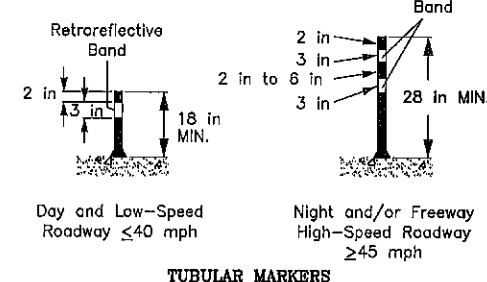
- All signs used for temporary traffic controls shall follow the Department's Standard Plans and the MUTCD. Signs shown in the Standard Plan illustrations are typical and may vary with each specific condition.
- More appropriate signing for a specific condition may be required or substituted with the approval of the Project Engineer and reviewed by the City-Parish Traffic Engineer.
- When projects are separated by less than one mile, they shall be signed as one project.
- At no time shall signs warning against a particular operation be left in place once the operation has been completed or where the obstacle has been removed.
- Signs over Ten (10) sq ft shall be mounted on two post and signs over Twenty (20) sq ft shall be mounted on at least three post.
- Signs shall have a minimum of Two (2) bolts per post.
- Permanent signs no longer applicable or in conflict shall be removed or covered with a strong, lightweight, opaque material.
- Warning signs used for temporary traffic controls shall meet the following guidelines unless otherwise noted in the plans: (A) size shall be Forty-Eight (48) ft X Forty-Eight (48) ft, (B) see the Department's Standard Specifications and the C-P QPL for sheeting information, (C) a minimum of a Two (2) lb U-Channel post may be used driven to a minimum depth of Three (3) ft, (D) sign height shall be a minimum of Five (5) ft above the roadway surface unless there is a concern for pedestrians or bicycle traffic in which it shall be a minimum of Seven (7) ft, (E) lateral distance of signs shall be a minimum of Six (6) ft from the edge of shoulder or edge of pavement if no shoulder exist and Two (2) ft from the back of curb in urban areas.
- Vinyl Roll Up signs will be allowed for short term (less than Twelve (12) hours) daytime work provided that they meet all size, color, retroreflectivity requirements, and NCHRP 350.
- Mesh rollup signs shall not be allowed on any project.
- All signs shall be removed or covered when no longer applicable.
- Contractor shall use caution not to damage existing signs which remain in place. Any signs damaged by work operations shall be replaced at the Contractor's expense.

## CHANNELIZING DEVICES

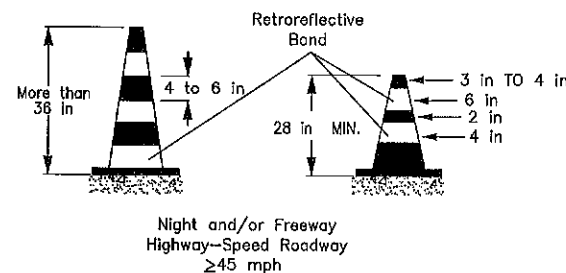
- The following devices may be used: Tubular Markers, Vertical panels, Cones, Drums, and Super Cones. Drums (at standard spacing) and Super Cones (at 1/2 Standard spacing) are the only devices allowed to be used in taper area on the interstate system during daylight hours. Only drums can be used in tapers during night operations.
- Retroreflective material pattern used on super cones shall match that used on drums and conform to Section 1020-1.2(C) of the Standard Specifications.
- Spacing of channelizing devices such as cones, panels, drums, and Type I or II barricades shall not exceed a distance in feet equal to the speed limit when used for taper channelization and a distance in feet of twice the speed limit when used for tangent channelization.
- Twenty-Eight (28) inch traffic cones are not allowed on: 1) interstates, 2) Highways with speeds greater than Forty (40) mph.
- During night time operations: 1) Twenty-Eight (28) inch and Thirty-Six (36) inch cones are not allowed, 2) drums are the only device allowed in the taper.



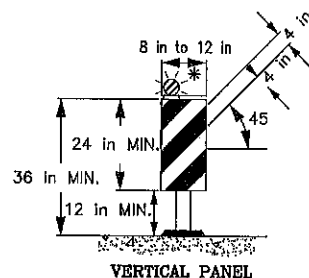
DRUM



TUBULAR MARKERS

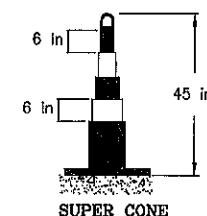


CONES



VERTICAL PANEL

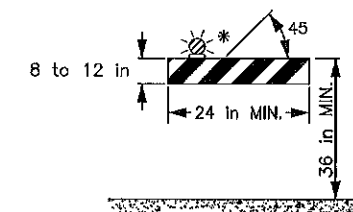
\* Warning light (optional)



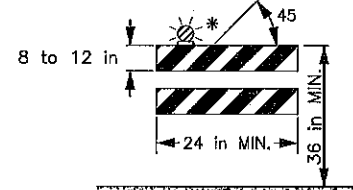
SUPER CONE

## BARRICADES

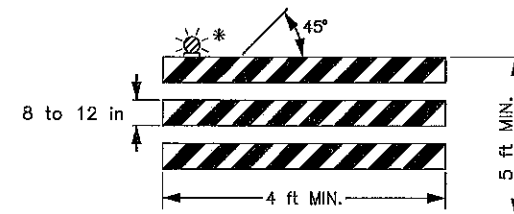
- Barricades shall be designed and applied in accordance with these Standard Plans and the current MUTCD guidance. Generally three types of barricades are used as below. Specific project applications shall be reviewed and approved by the City-Parish Traffic Engineer and shall not be deployed without such approval.
- Steady burn lights shall be used when barricades are used in a series for channelization.
- Type I barricades shall be used on low speed roads or urban streets.
- Type II barricades shall be used on high speed roads.
- Type III barricades shall be used to close a road section to traffic and shall extend completely across a roadway and its shoulders or from curb to curb.
- When signs and lights are to be mounted to a barricade, they must meet NCHRP 350 requirements.



TYPE I BARRICADE \*\*



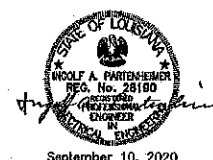
TYPE II BARRICADE \*\*



TYPE III BARRICADE \*\*

\* Warning light (optional)

\*\* Rail stripe widths shall be Six (6) inch, except that Four (4) inch wide stripes may be used if rail lengths are less than Thirty-Six (36) inch. The sides of barricades facing traffic shall have retroreflective rail faces.



| DATE | DESCRIPTION | BY |
|------|-------------|----|
|      | REVISIONS   |    |

| STANDARD PLAN NO.                                                                                                        | DATED        | SHEET NO.       |
|--------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|
| 905-01                                                                                                                   | JULY 3, 2019 | 1 OF 2          |
| TEMPORARY TRAFFIC CONTROL                                                                                                |              |                 |
| ENGINEERING DIVISION<br>DEPARTMENT OF TRANSPORTATION<br>AND DRAINAGE<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |              |                 |
| DESIGNED                                                                                                                 | DRAWN        | CHECKED         |
| MUTCD                                                                                                                    | G. C. HENG   | S. EDEL         |
|                                                                                                                          |              | I. PARTENHEIMER |



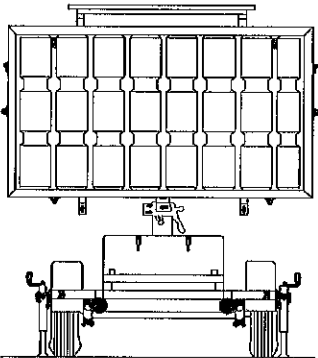
| PROJECT NO. | SHEET |
|-------------|-------|
|             |       |

LIGHTING

- All temporary lighting shall be LED.
- Lighting shall supplement barricades that close one or more lanes or that extends across the roadway. A minimum of two lights will be used, but where a travel way ends immediately after a barricade, a minimum of Four (4) lights shall be used. Lighting shall be by approved electrical installations. Battery operated equipment shall conform to NCHRP 350.
- High intensity flashing lights shall be used to mark the first advance warning sign.
- Low intensity flashing lights shall be used to mark all other hazards off the travel way.
- Steady burning lights shall be used on all traffic control devices used for channelizations.
- Flashing units will be mounted as high as possible and battery compartments shall be mounted Six (6) inches from the ground.

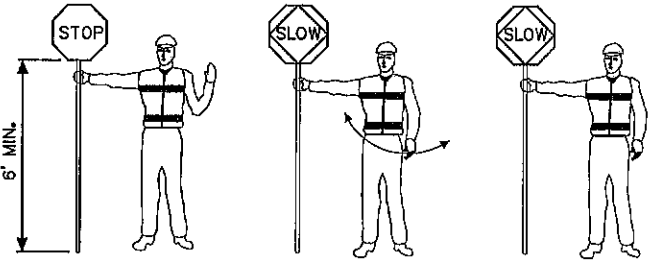
PORTABLE CHANGEABLE MESSAGE SIGNS

- When working within the traveled way, including shoulders and auxiliary lanes, Changeable Message Signs (CMS) shall be used on all Interstate Highways and on all other roadways (where space is available) with an ADT greater than Twenty Thousand (20,000) and should be delineated with retroreflective TTC devices.
- When used in advance of a lane closure or a lane shift, the CMS should be placed on the right hand side of the road a minimum distance of Two (2) miles in advance of the taper for Interstates and to be determined by the City-Parish Traffic Engineer on other roadways.
- CMS messages shall be approved by the City-Parish Traffic Engineer.
- When Portable Changeable Message signs are not being used, they should be removed; if not removed, they should be shielded by guardrail or barriers; or if the previous Two (2) options are not feasible, they should be delineated with retroreflective TTC devices.



FLAGGERS

- All flaggers must be qualified. The contractor shall be responsible for training or assuring that all flaggers are qualified to perform flagging duties. A certificate indicating completion of a flagger training course shall be available to the engineer if requested. A Qualified Flagger is one that has attended courses such as those offered by the American Traffic Safety Services Association (ATSSA) or other courses approved by the City-Parish.
- When utilized, a flagger shall use a minimum Eighteen (18) inch sign on a minimum Six (6) ft stop/slow paddle and wear ANSI Class 2 vest during day time operations and ANSI Class 3 ensemble during night operations. In all flagging operations, the flagger must be visible from flagger advance warning sign.
- Flagger stations shall be in a highly visible location far enough in advance of the work site so that approaching traffic will have sufficient distance to reduce speed before entering the project. 200-300 feet is desirable. In urban areas, the advances distance may be decreased.



To Stop Traffic

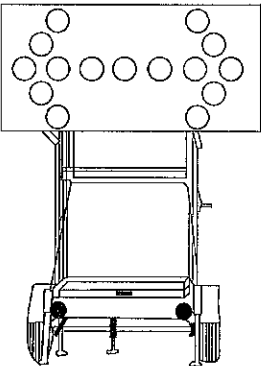
Traffic Proceed

To Alert & Slow Traffic

USE OF HAND SIGN

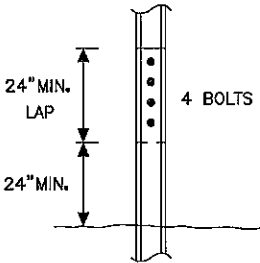
FLASHING ARROW PANELS

- Flashing Arrow Panels shall be used for lane closures on all facilities with Two (2) or more lanes in a single direction and a speed limit greater than Thirty-Five (35) mph.
- When used, flashing arrow panels should be located on the shoulder at the beginning of the taper.
- Where the shoulder width is limited, the flashing arrow panel should be placed within the closed lane as close to the beginning of the taper as practical.
- All Flashing Arrow Panels shall be Four (4) ft x Eight (8) ft Type C with LED lighting.
- When Flashing Arrow Panels signs are not being used, they should be removed; if not removed, they should be shielded by guardrail or barriers; or if the previous two options are not feasible, they should be delineated with retroreflective TTC devices.



ALLOWABLE LAP SPICE FOR U-CHANNEL POST

U-channel posts may be spliced where long length are required. The upper section shall overlap the lower section by at least Twenty-Four (24) inches. The bottom edge of the upper section of the splice shall be a minimum of Twenty-Four (24) inches above the ground. The spliced sections shall be secured with at least Four (4) 5/16 inch diameter hexhead bolts spaced equally along the splice.



Front View

HIGHWAY-RAIL GRADE CROSSING

1. When a highway-rail grade crossing exists within or upstream of the merging taper and it is anticipated that backups resulting from the lane closure might extend through the highway-rail grade crossing, the TTC zone should be extended so that the merging taper precedes the highway-rail grade crossing.
2. When a highway-rail grade crossing exists within the activity area, provisions should be made to provide road users operating on the left side of the normal centerline with comparable warning devices as supplied for road users operating on the right side of the normal centerline.
3. When a highway-rail grade crossing exists within the activity area, early coordination with the railroad company should occur before work starts.
4. When a highway-rail grade crossing exists within the activity area, a flagger may be used at the highway-rail grade crossing to minimize the probability that vehicles are stopped within Fifteen (15) ft of the highway-rail grade crossing, measured from both sides of the outside rails.
5. A truck-mounted attenuator may be used on the work vehicle and/or the shadow vehicle.



September 10, 2020

| DATE | DESCRIPTION | BY |
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|      | REVISIONS   |    |

|                                                                                                                          |                       |                             |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------|
| STANDARD PLAN NO.<br>905-01                                                                                              | DATED<br>JULY 3, 2019 | SHEET NO.<br>2 OF 2         |
| TEMPORARY TRAFFIC CONTROL                                                                                                |                       |                             |
| ENGINEERING DIVISION<br>DEPARTMENT OF TRANSPORTATION<br>AND DRAINAGE<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                       |                             |
| DESIGNED<br>MUTCD                                                                                                        | DRAWN<br>G. C. HENG   | CHECKED<br>S. EDEL          |
|                                                                                                                          |                       | APPROVED<br>I. PARTENHEIMER |



| PROJECT NO. | SHEET |
|-------------|-------|
|             |       |

Suggested Advance Warning Sign Spacing

| Road Types             | Distance Between Signs* |     |     |
|------------------------|-------------------------|-----|-----|
|                        | A                       | B   | C   |
| Urban (40 mph or less) | 100                     | 100 | 100 |
| Urban (45 mph or more) | 350                     | 350 | 350 |
| Rural                  | 500                     | 500 | 500 |

\* Distances are shown in feet. The column headings A, B, and C are the dimensions shown in Typical Application Figures. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The third sign is the first one in a three-sign series encountered by a driver approaching a TTC zone.)

Formulas for Determining Taper Lengths

| Speed Limit (S) | Taper Length (L)<br>Feet |
|-----------------|--------------------------|
| 40 mph or less  | $L = \frac{WS^2}{60}$    |
| 45 mph or more  | $L = WS$                 |

Where:  
L = taper length in feet  
W = width of offset in feet  
S = posted speed limit in mph.

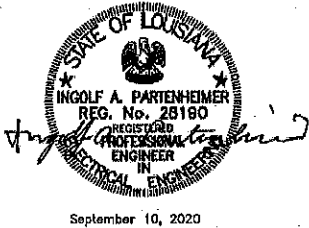
Meaning of Symbols on Typical Application Diagrams

|                                                                                       |                                                                     |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|    | Arrow panel                                                         |
|    | Arrow panel support or trailer<br>(shown facing down)               |
|    | Changeable message sign or support trailer                          |
|    | Channelizing device                                                 |
|    | Crash Cushion                                                       |
|    | Direction of temporary traffic detour                               |
|    | Direction of traffic                                                |
|    | Flagger                                                             |
|    | High level warning device<br>(Flag tree)                            |
|  | Luminaire                                                           |
|  | Pavement markings that should be<br>removed for a long term project |
|  | Sign (shown facing left)                                            |
|  | Surveyor                                                            |
|  | Temporary barrier                                                   |
|  | Temporary barrier with warning lights                               |
|  | Traffic or Pedestrian signal                                        |
|  | Truck mounted attenuator                                            |
|  | Type III Barricade                                                  |
|  | Warning lights                                                      |
|  | Work space                                                          |
|  | Work vehicle                                                        |

Index to Typical Applications

| Typical Application Description                                                   | Typical Application Number | Standard Plan Number |
|-----------------------------------------------------------------------------------|----------------------------|----------------------|
| <b>Work Outside of Shoulder</b>                                                   |                            |                      |
| Work Beyond the Shoulder                                                          | TA-1                       | 905-03               |
| Work on the Shoulder                                                              |                            |                      |
| Work on Shoulders                                                                 | TA-3                       | 905-03               |
| Shoulder Work with Minor Encroachment                                             | TA-6                       | 905-04               |
| <b>Work Within the Traveled Way of Two-Lane Highways</b>                          |                            |                      |
| Road Closed with Diversion                                                        | TA-7                       | 905-04               |
| Road Closed with Off-Site Detour                                                  | TA-8                       | 905-05               |
| Lane Closure on Two-Lane Road Using Flaggers                                      | TA-10                      | 905-05               |
| Lane Closure on Two-Lane Road with Low Traffic Volumes                            | TA-11                      | 905-06               |
| Temporary Road Closure                                                            | TA-13                      | 905-06               |
| Mobile Operations on Two-Lane Road                                                | TA-17                      | 905-07               |
| <b>Work Within the Traveled Way of Urban Streets</b>                              |                            |                      |
| Lane Closure on Minor Street                                                      | TA-18                      | 905-07               |
| Detour for One Travel Direction                                                   | TA-19                      | 905-08               |
| Detour for Closed Street                                                          | TA-20                      | 905-08               |
| <b>Work Within the Traveled Way at an Intersection and Sidewalks</b>              |                            |                      |
| Multiple Lane Closures at Intersection                                            | TA-25                      | 905-09               |
| Crosswalk Closures and Pedestrian Detours                                         | TA-29                      | 905-09               |
| <b>Work Within the Traveled Way of Multi-lane, Non-access Controlled Highways</b> |                            |                      |
| Interior Lane Closure on Multi-lane Street                                        | TA-30                      | 905-10               |
| Half Road Closure on Multi-lane, High-Speed Highway                               | TA-32                      | 905-10               |
| Lane Closure on Divided Highway                                                   | TA-33                      | 905-11               |
| <b>Work in the Vicinity of Highway-Rail Grade Crossings</b>                       |                            |                      |
| Work in Vicinity of Highway-Rail Grade Crossing                                   | TA-46                      | 905-11               |

Information contained herewith was taken directly from the MUTCD 2003 version.



|                                                                                                                          |                       |                     |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|
| STANDARD PLAN NO.<br>905-02                                                                                              | DATED<br>JULY 3, 2019 | SHEET NO.<br>1 OF 1 |
| TEMPORARY TRAFFIC CONTROL<br>TYPICAL APPLICATIONS                                                                        |                       |                     |
| ENGINEERING DIVISION<br>DEPARTMENT OF TRANSPORTATION<br>AND DRAINAGE<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                       |                     |
| DESIGNED<br>MUTCD                                                                                                        | DRAWN<br>G. CHENG     | CHECKED<br>S. EDEL  |
| APPROVED<br>I. PARTENHEIMER                                                                                              |                       |                     |

| DATE | DESCRIPTION<br>REVISIONS | BY |
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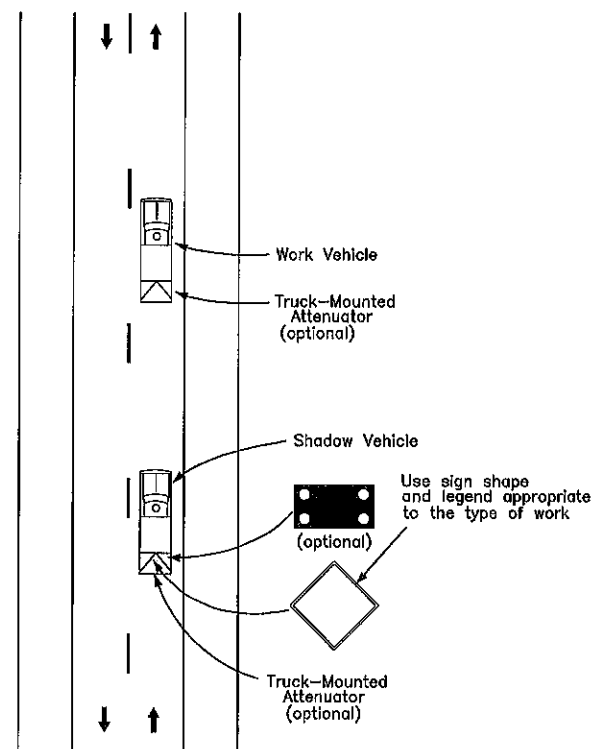


Figure TA-17  
Mobile Operations on Two-Lane Road

NOTES:

1. Vehicle-mounted signs shall be mounted in a manner such that they are not obscured by equipment or supplies. Sign legends on vehicle-mounted signs shall be covered or turned from view when work is not in progress.
2. Shadow and work vehicles shall display high-intensity rotating, flashing, oscillating, or strobe lights.
3. If an arrow panel is used, it shall be used in the caution mode.
4. Where practical and when needed, the work and shadow vehicles should pull over periodically to allow vehicular traffic to pass.
5. Whenever adequate stopping sight distance exists to the rear, the shadow vehicle should maintain the minimum distance from the work vehicle and proceed at the same speed. The shadow vehicle should slow down in advance of vertical or horizontal curves that restrict sight distance.
6. The shadow vehicles should also be equipped with two high-intensity flashing lights mounted on the rear, adjacent to the sign.
7. The distance between the work and shadow vehicles may vary according to terrain, paint drying time, and other factors.
8. Additional shadow vehicles to warn and reduce the speed of oncoming or opposing vehicular traffic may be used. Law enforcement vehicles may be used for this purpose.
9. A truck-mounted attenuator may be used on the shadow vehicle or on the work vehicle.
10. If the work and shadow vehicles cannot pull over to allow vehicular traffic to pass frequently, a DO NOT PASS sign may be placed on the rear of the vehicle blocking the lane.
11. Shadow vehicles are used to warn motor vehicle traffic of the operation ahead.
12. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.

This sheet shall be used with Standard Plan No. 905-01 and 905-02.

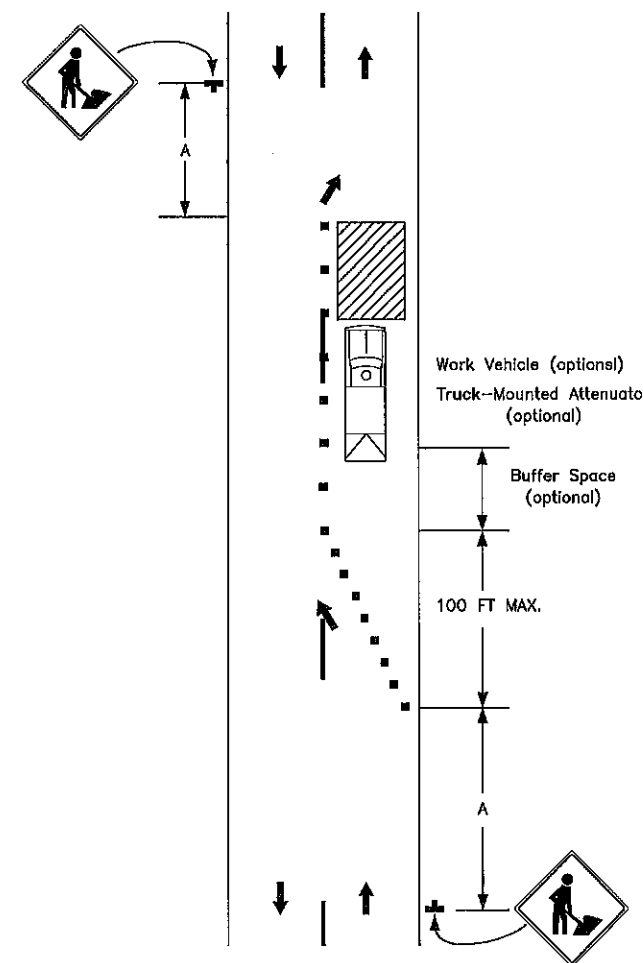
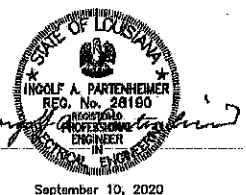


Figure TA-18  
Lane Closure on Minor Street

NOTES:

1. This TTC shall be used only for low-speed facilities having low traffic volumes.
2. Where the work space is short, where road users can see the roadway beyond, and where volume is low, vehicular traffic may be self-regulating.
3. Where vehicular traffic cannot effectively self-regulate, one or two flaggers shall be used as illustrated in TA-10.
4. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
5. A truck-mounted attenuator may be used on the work vehicle and the shadow vehicle.

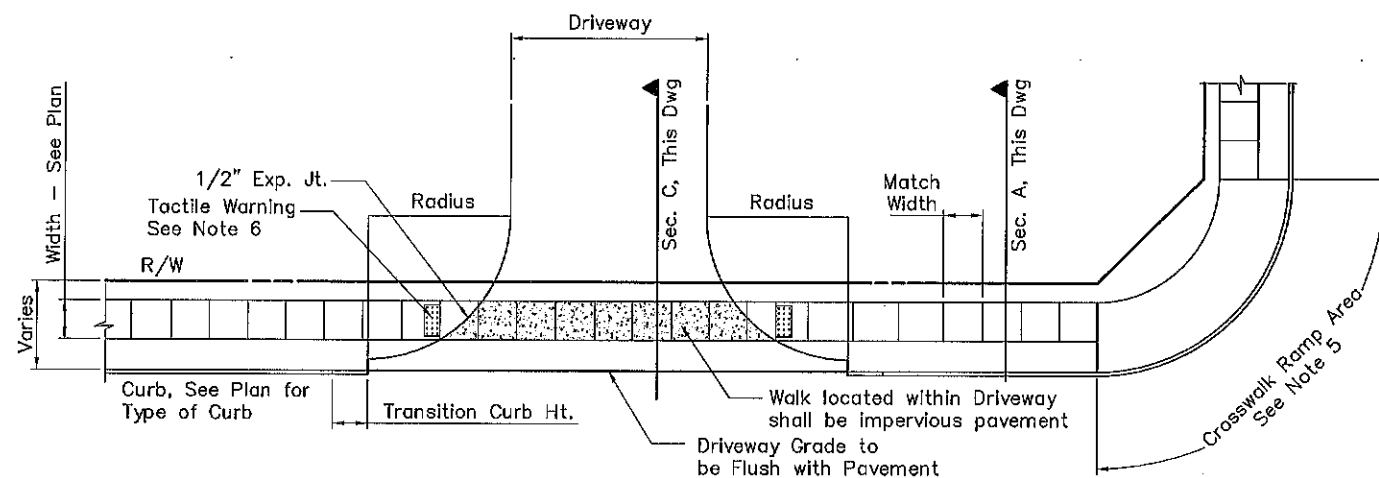


September 10, 2020

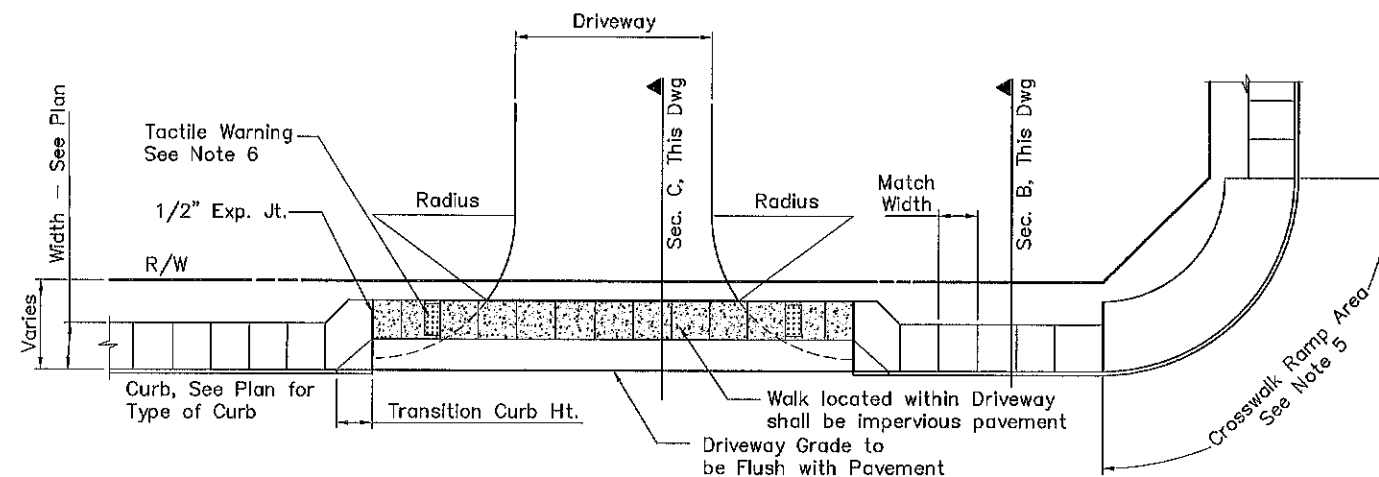
|                                                                                                                          |                       |                     |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|
| STANDARD PLAN NO.<br>905-07                                                                                              | DATED<br>JULY 3, 2019 | SHEET NO.<br>1 OF 1 |
| TEMPORARY TRAFFIC CONTROL<br>TYPICAL APPLICATIONS                                                                        |                       |                     |
| ENGINEERING DIVISION<br>DEPARTMENT OF TRANSPORTATION<br>AND DRAINAGE<br>CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE |                       |                     |
| DESIGNED<br>MUTCD                                                                                                        | DRAWN<br>G. CHENG     | CHECKED<br>S. EDEL  |
| APPROVED<br>I. PARTENHEIMER                                                                                              |                       |                     |

| DATE | DESCRIPTION<br>REVISIONS | BY |
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|      |                          |    |
|      |                          |    |

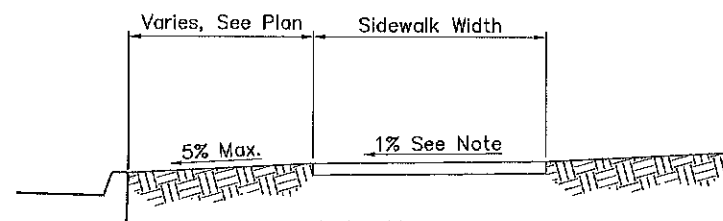




Driveway Crossing w/ Walk Set Off Curb

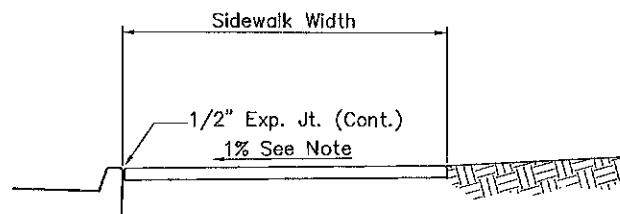


Driveway Crossing w/ Walk Set Adjacent to Curb



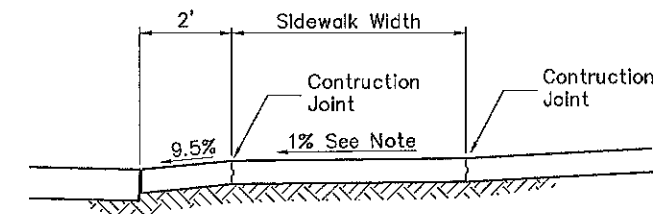
Note: Walkway Cross Slope May Be Increased to 2% max. to Resolve Grade Requirements.

Section A



Note: Walkway Cross Slope May Be Increased to 2% max. to Resolve Grade Requirements.

Section B



Note: Walkway Cross Slope May Be Increased to 2% max. to Resolve Grade Requirements.

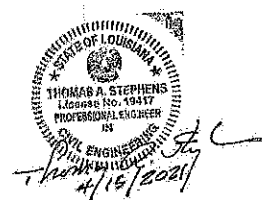
Section C

#### General Notes

- 1/2" expansion joints shall be placed using preformed joint filler at all junctions with existing concrete, adjacent to all curbs, manholes, and junction boxes, and around poles and similar obstructions.
- 1/2" expansion joints shall be placed at no more than 100 foot spaces when long pours are not interrupted by driveways or junctions with other walks.
- Dummy (crack control) joints shall be placed at intervals equaling the walkway width.
  - Impervious concrete walk joints may be tooled or sawn to a depth of 1/3 the concrete thickness. Sawn joints shall be cut between 24 and 48 hours after concrete placement.
  - Previous concrete walk joints shall be placed by rollers, pressed to form a joint depth of 1/3 the concrete thickness.
- Where concrete walks pass through driveways the walks shall consist of impervious concrete of the same thickness as the driveway, but not less than 6 inches. The walk shall be formed on each side to provide a controlled cross slope. Dummy joints shall be tooled.
- Curb ramps shall be installed as noted on the plans. Curb ramps and flares shall be built using impervious concrete unless noted otherwise.
- Detectable warnings shall be provided at street intersections and bus stop loading areas and as otherwise noted on the plans. Detectable warnings shall also be provided at approaches to driveways that are STOP controlled by either signs or signals.

#### Referenced Standards

- Refer to Std 907-03 for Commercial Driveways
- Refer to Std 907-04 for Residential Driveways
- Refer to Std 907-02 for Curb and Gutter Details



|                                                                                                |         |                      |         |
|------------------------------------------------------------------------------------------------|---------|----------------------|---------|
| SHEET NUMBER                                                                                   |         | 215                  |         |
| EAST BATON ROUGE PARISH                                                                        |         |                      |         |
| DESIGNED                                                                                       | TAS     | CHECKED              | TFA     |
| DATE                                                                                           | 4/12/21 | DATE                 | 4/12/21 |
| PROJECT                                                                                        |         | PROJECT              |         |
| REVISION DESCRIPTION                                                                           |         | REVISION DESCRIPTION |         |
| NO.                                                                                            |         | NO.                  |         |
| DATE                                                                                           |         | DATE                 |         |
| BY                                                                                             |         | BY                   |         |
| Standard Plan 907-01<br>Sidewalk and Handicap Ramps<br>(Typical Installations)<br>Sheet 1 of 6 |         |                      |         |
|                                                                                                |         |                      |         |
| Department of<br>Transportation & Drainage<br>Engineering                                      |         |                      |         |

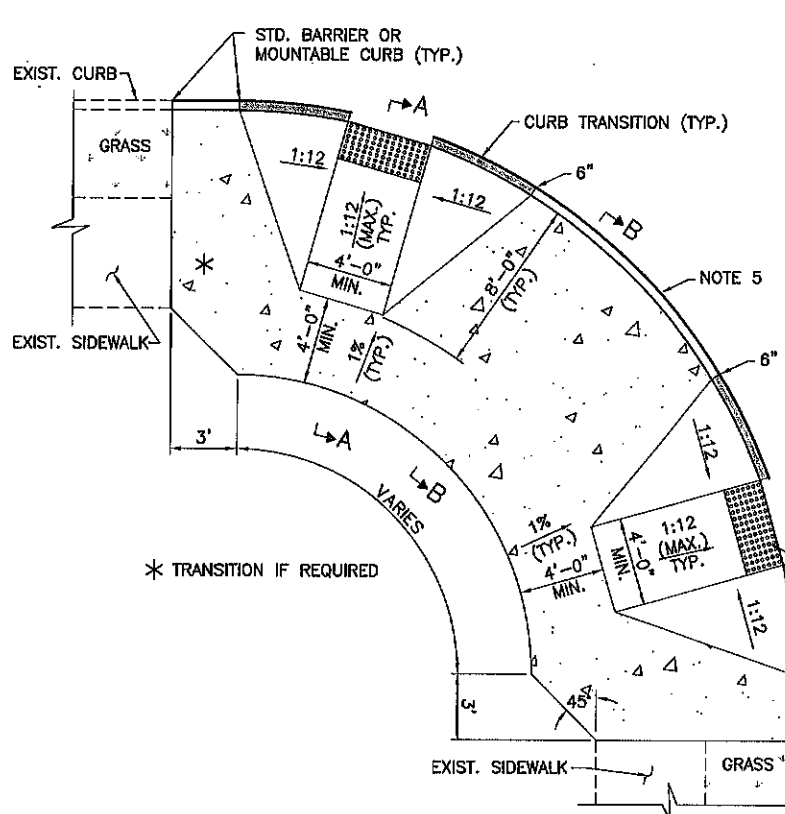
NOTE: THIS DRAWING HAS BEEN PREPARED FOR USE ON PROJECTS INTENDED FOR CONSTRUCTION ON PUBLIC ROADS IN EAST BATON ROUGE PARISH, LA. OTHER USES ARE NOT AUTHORIZED.



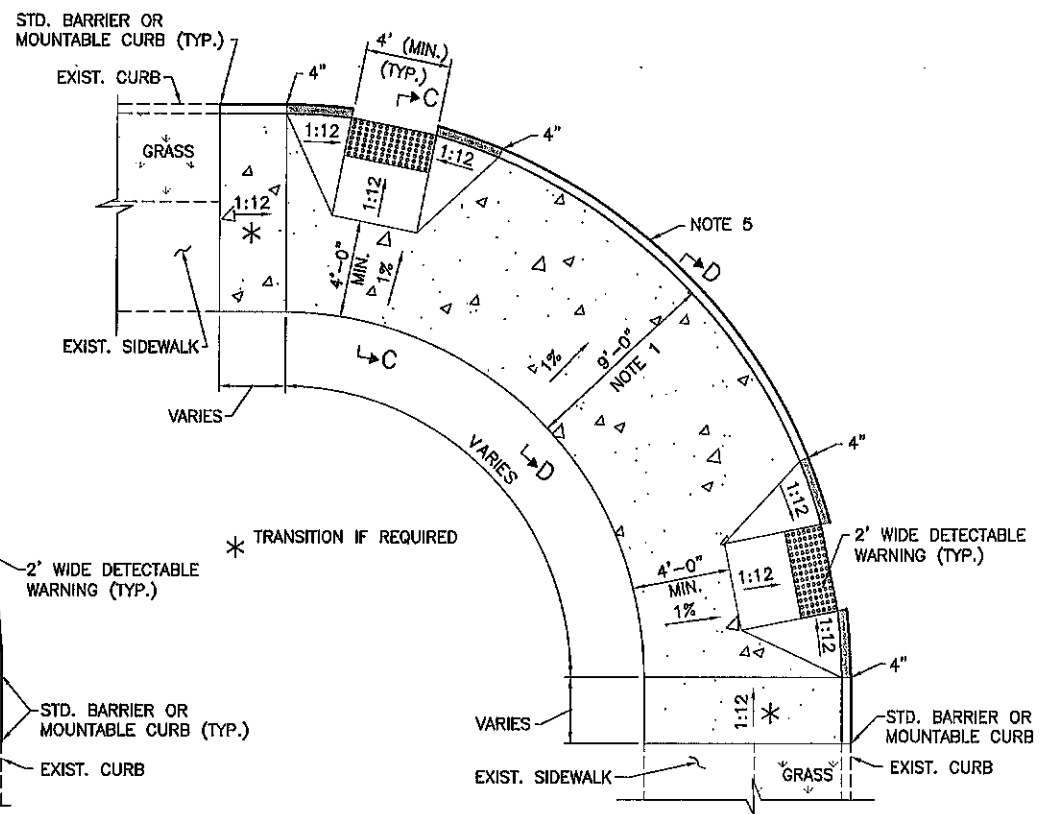
AREAS OF CURB MODIFICATION

NOTES:

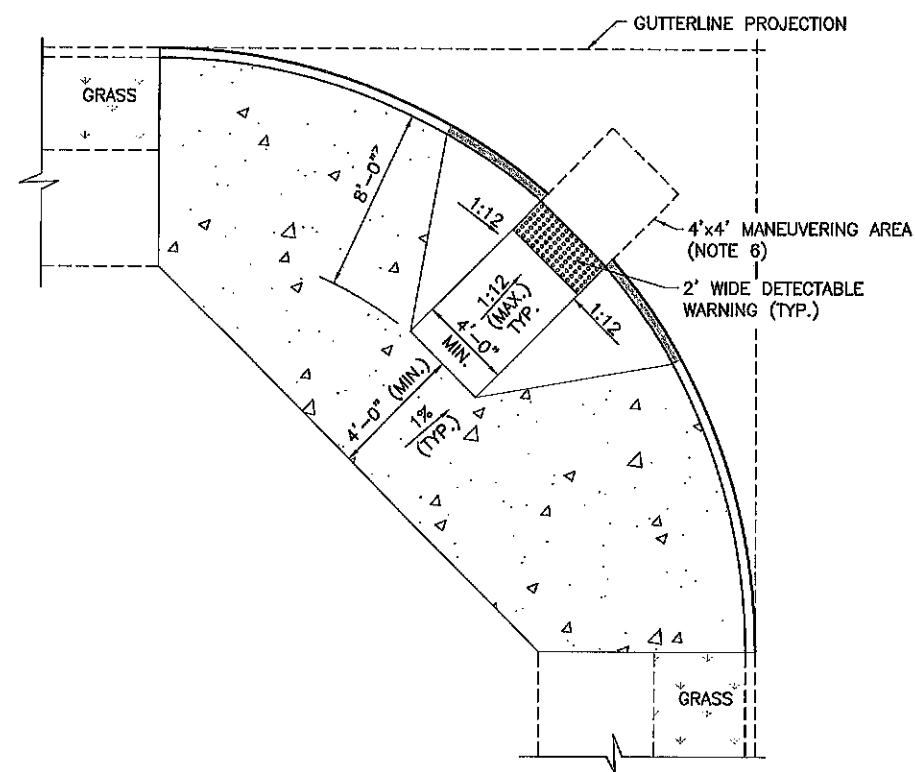
1. THE STANDARD CORNER HANDICAP RAMP WILL BE TYPE ① (SHEET 4) AS DEPICTED IN LAYOUTS 1 AND 2. OTHER SOLUTIONS MAY BE REQUIRED DEPENDING ON EXISTING CONDITIONS OR GEOMETRIC CONSTRAINTS - REFER TO SHTS. 4 AND 5. EACH LOCATION SHOULD BE EVALUATED BY QUALIFIED PERSONNEL TO DEVELOP AN APPROPRIATE SOLUTION IN ACCORDANCE WITH CURRENT STANDARDS. RAMP SELECTION AND DESIGN REQUIRES COORDINATION WITH TRAFFIC AND CROSSWALK STRIPING. ALTERNATE RAMP CONFIGURATIONS MUST BE APPROVED BY THE CHIEF TRAFFIC ENGINEER.
2. LOCATION OF ALL TRAFFIC STRIPING, CROSS BARS, STOP BARS, AND MARKERS SHALL BE BASED ON SITE SPECIFIC DESIGN APPROVED BY THE CHIEF TRAFFIC ENGINEER. REFER TO 905-50 SHEET 7.
3. THE LAYOUT OF HANDICAP RAMPS ARE BASED ON USE OF 6 INCH BARRIER CURB. ADJUSTMENTS TO DIMENSIONS WILL BE REQUIRED SHOULD MOUNTABLE CURB IS USED.
4. AREA WITHIN THE SIGHT TRIANGLE SHOULD HAVE NO SITE OBSTRUCTIONS SUCH AS BENCHES TREES, ETC..
5. MINIMUM LENGTH OF FULL HEIGHT CURB BETWEEN RAMPS SHALL BE 2 FEET LONG.
6. THE SINGLE CORNER RAMP CAN ONLY BE USED WHEN LAYOUT 1 OR LAYOUT 2 CAN NOT BE ACCOMMODATED AND IF ADEQUATE SPACE IS AVAILABLE TO DEVELOP THE REQUIRED MANEUVERING AREA BOUND BY THE CURB FACE AND THE GUTTERLINE PROJECTIONS.
7. REFER TO SHT. 907-02, CURB AND GUTTER DETAILS.



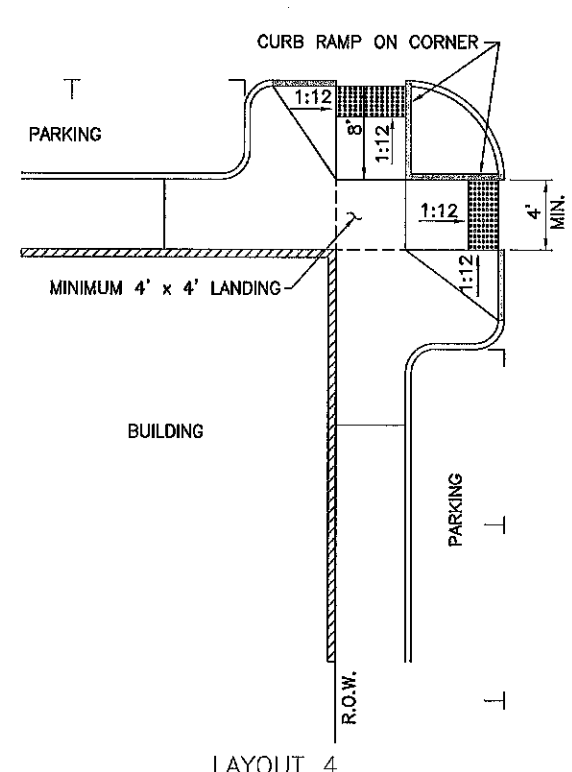
LAYOUT 1  
DUAL CORNER RAMP (FLARED)  
STANDARD CONDITION  
(REFER TO NOTES)



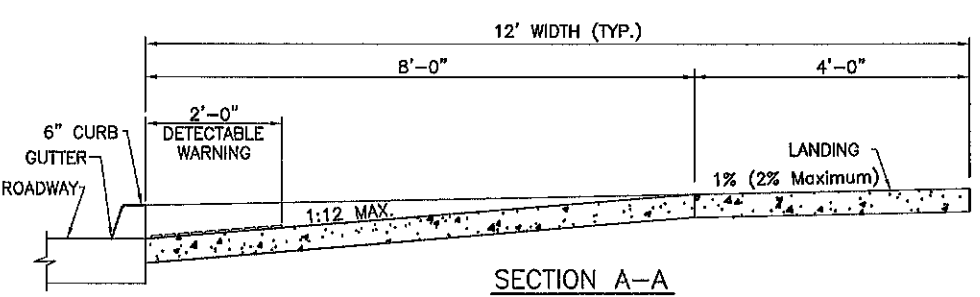
LAYOUT 2  
DUAL CORNER RAMP (FLARED)  
CONSTRAINED CONDITION  
(REFER TO NOTES)



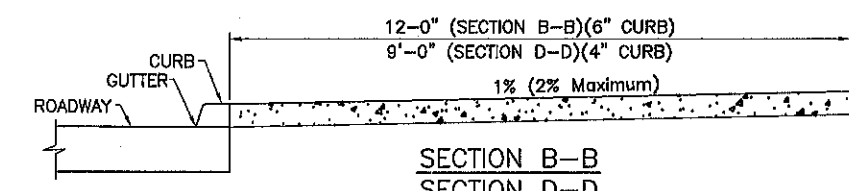
LAYOUT 3  
SINGLE CORNER RAMP (FLARED)  
(REFER TO NOTES)



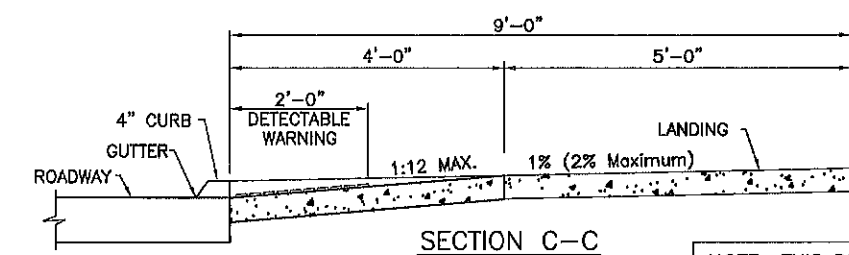
LAYOUT 4  
CORNER CURB EXTENSIONS (BULB-OUTS)



SECTION A-A  
N.T.S.

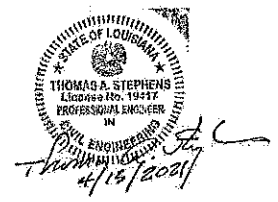


SECTION B-B  
SECTION D-D  
N.T.S.

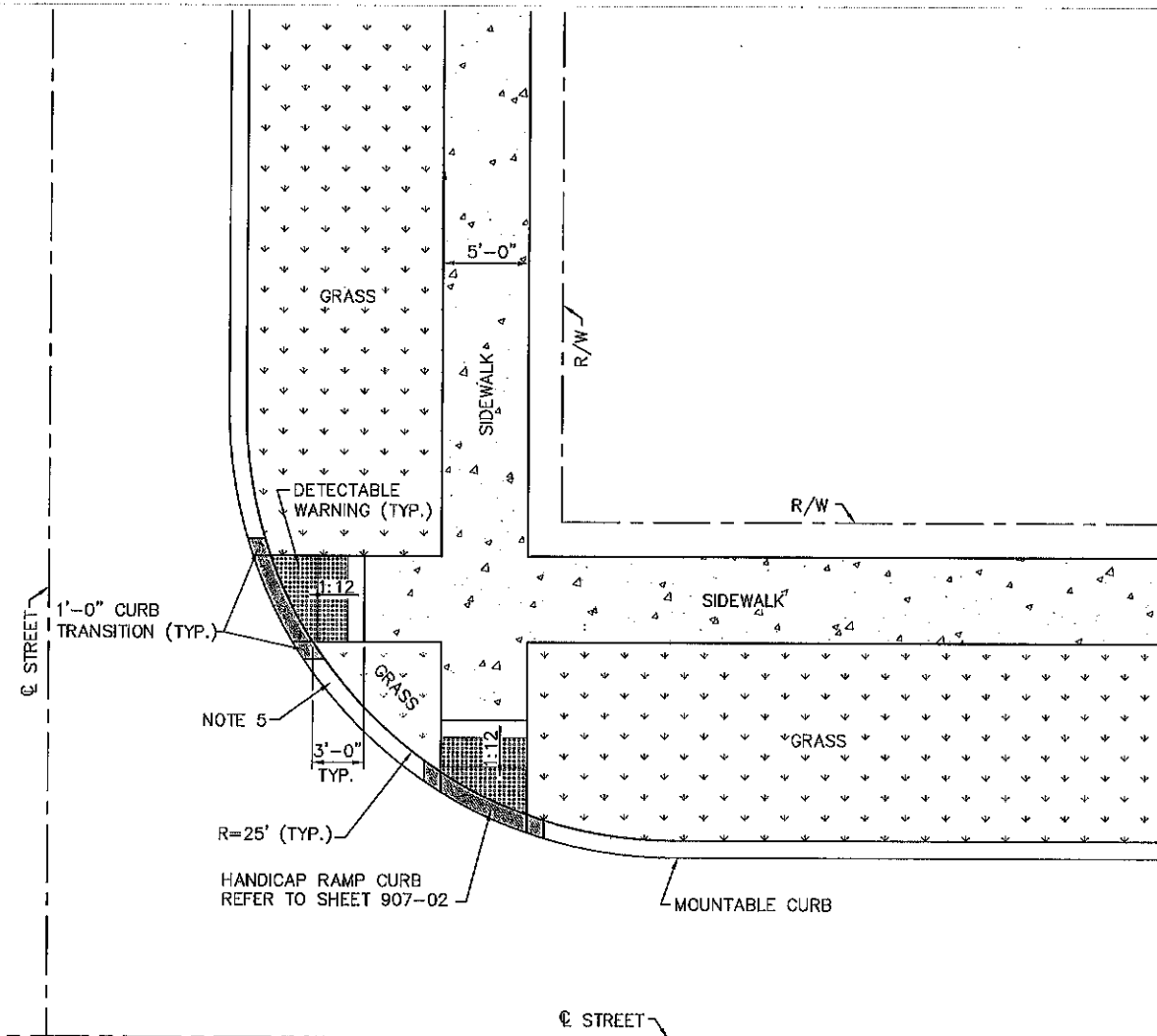


SECTION C-C  
N.T.S.

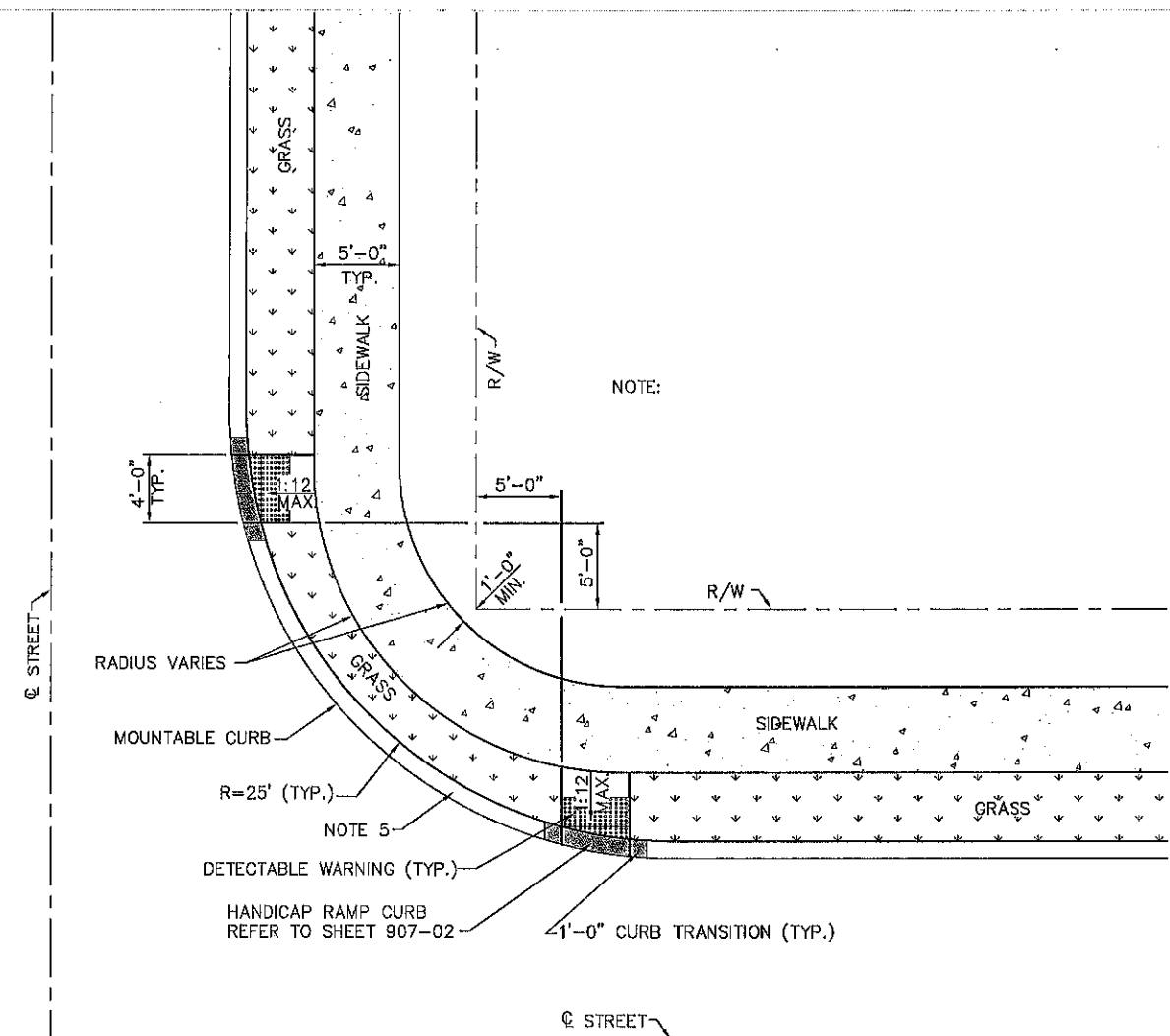
NOTE: THIS DRAWING HAS BEEN PREPARED FOR USE ON PROJECTS INTENDED FOR CONSTRUCTION ON PUBLIC ROADS IN EAST BATON ROUGE PARISH, LA. OTHER USES ARE NOT AUTHORIZED.



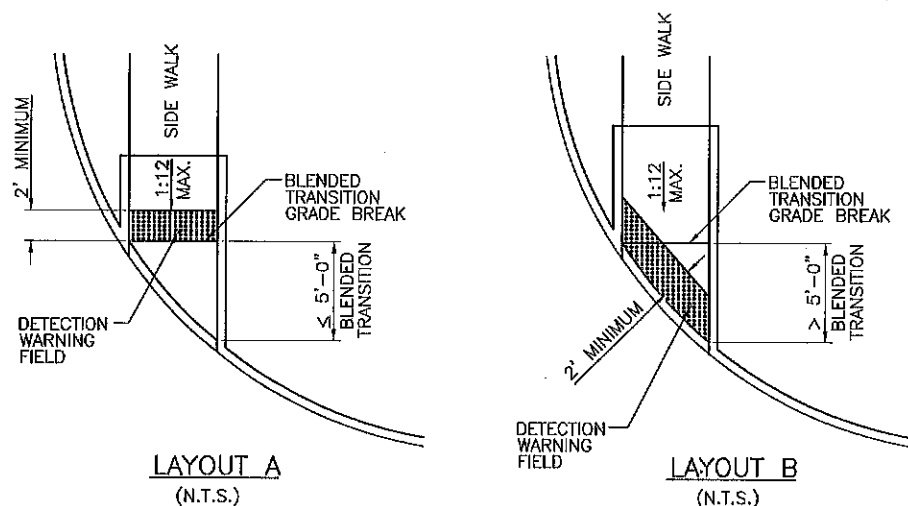




DUAL CORNER RAMP - LAYOUT 1  
 (DESIRABLE CORNER RAMP IN RESIDENTIAL SUBDIVISION)  
 (N.T.S.)



DUAL CORNER RAMP - LAYOUT 2  
 (FOR USE IN RESIDENTIAL SUBDIVISION WITH GEOMETRIC CONSTRAINTS)  
 (N.T.S.)



DETECTION WARNING PLACEMENT DETAIL

NOTES:

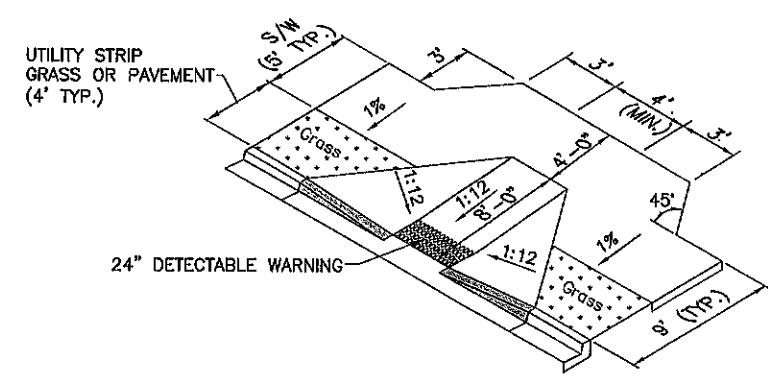
1. THE STANDARD CORNER HANDICAP RAMP WILL BE TYPE 12 (SHEET 5) AS DEPICTED IN LAYOUTS 1 AND 2. OTHER SOLUTIONS MAY BE REQUIRED DEPENDING ON EXISTING CONDITIONS OR GEOMETRIC CONSTRAINTS - REFER TO SHTS. 4 AND 5. EACH LOCATION SHOULD BE EVALUATED BY QUALIFIED PERSONNEL TO DEVELOP AN APPROPRIATE SOLUTION IN ACCORDANCE WITH CURRENT STANDARDS. RAMP SELECTION AND DESIGN REQUIRES COORDINATION WITH TRAFFIC AND CROSSWALK STRIPING. ALTERNATE RAMP CONFIGURATIONS MUST BE APPROVED BY THE CHIEF TRAFFIC ENGINEER.
2. LOCATION OF ALL TRAFFIC STRIPING, CROSS BARS, STOP BARS, AND MARKERS SHALL BE BASED ON SITE SPECIFIC DESIGN APPROVED BY THE CHIEF TRAFFIC ENGINEER. REFER TO 905-50 SHEET 7.
3. THE LAYOUT OF HANDICAP RAMP ARE BASED ON USE OF 4" MOUNTABLE CURB. ADJUSTMENTS TO DIMENSIONS WILL BE REQUIRED SHOULD BARRIER CURB BE USED.
4. AREA WITHIN THE SIGHT TRIANGLE SHOULD HAVE NO SIGHT OBSTRUCTIONS SUCH AS BENCHES, TREES, ETC..
5. MINIMUM LENGTH OF FULL HEIGHT CURB BETWEEN RAMPS SHALL BE 2 FEET LONG.
6. THE SINGLE CORNER RAMP CAN ONLY BE USED WHEN LAYOUT 1 OR LAYOUT 2 CAN NOT BE ACCOMMODATED AND IF ADEQUATE SPACE IS AVAILABLE TO DEVELOP THE REQUIRED MANEUVERING AREA BOUND BY THE CURB FACE AND THE GUTTERLINE PROJECTIONS.
7. REFER TO SHT. 907-02, CURB AND GUTTER DETAILS.
8. DETECTION WARNING PLACEMENT IS NOT CONSTRAINED IN BLENDED TRANSITION AREA.
9. SLOPES ON BLENDED TRANSITION SHALL BE 1%, OR NO STEEPER THAN 2% WHEN NECESSARY, IN ANY DIRECTION.

AREAS OF CURB MODIFICATION

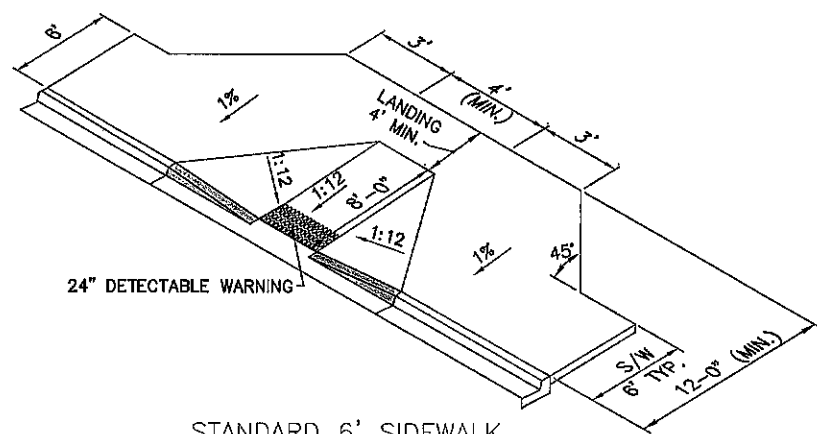
THOMAS A. STEPHENS  
 License No. 19417  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 4/15/2021

NOTE: THIS DRAWING HAS BEEN PREPARED FOR USE ON PROJECTS INTENDED FOR CONSTRUCTION ON PUBLIC ROADS IN EAST BATON ROUGE PARISH, LA. OTHER USES ARE NOT AUTHORIZED.

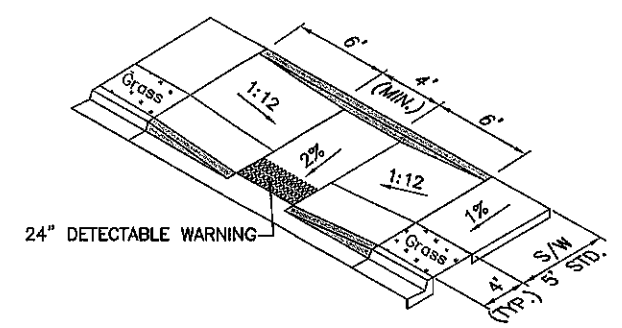




STANDARD 5' SIDEWALK  
WITH FLARED SLOPES  
TYPE ①  
NTS



STANDARD 6' SIDEWALK  
WITH FLARED RAMP  
TYPE ②  
NTS

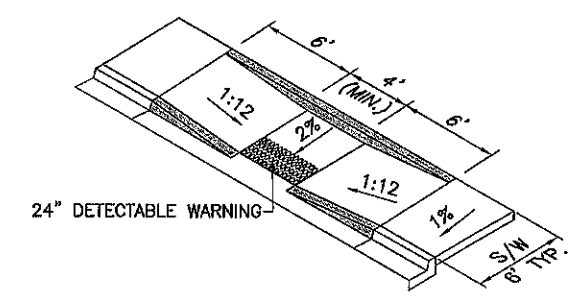


STANDARD 5' SIDEWALK  
WITH PAVED RAMP  
TYPE ③  
NTS

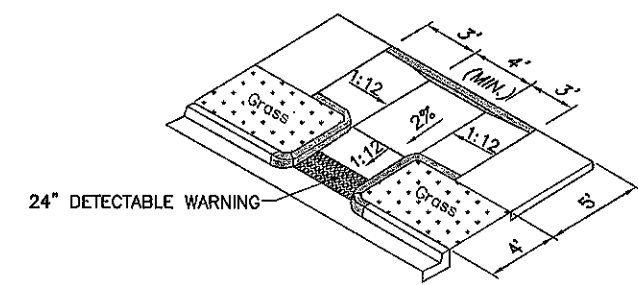
 AREA OF CURB MODIFICATION

NOTES:

1. LOCATION OF ALL TRAFFIC STRIPING, CROSS BARS, STOP BARS, AND MARKERS SHALL BE BASED ON SITE SPECIFIC DESIGN APPROVED BY THE CHIEF TRAFFIC ENGINEER. REFER TO 905-50 SHEET 7.
2. THE LAYOUT OF HANDICAP RAMPS ARE BASED ON USE OF 6 INCH BARRIER CURB. ADJUSTMENTS TO DIMENSIONS WILL BE REQUIRED SHOULD MOUNTABLE CURB IS USED.
3. RAMP CONFIGURATIONS MUST BE APPROVED BY THE CHIEF TRAFFIC ENGINEER.



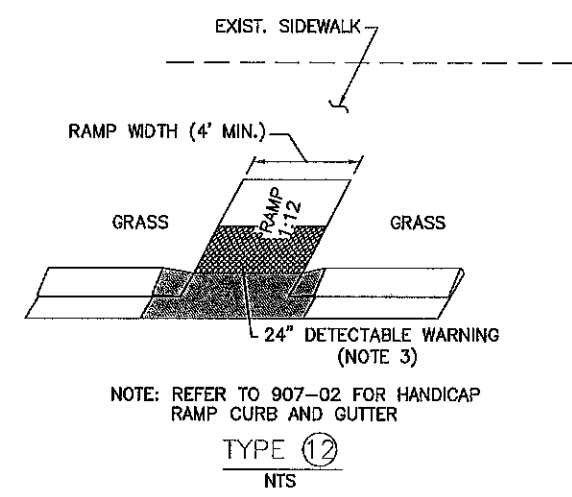
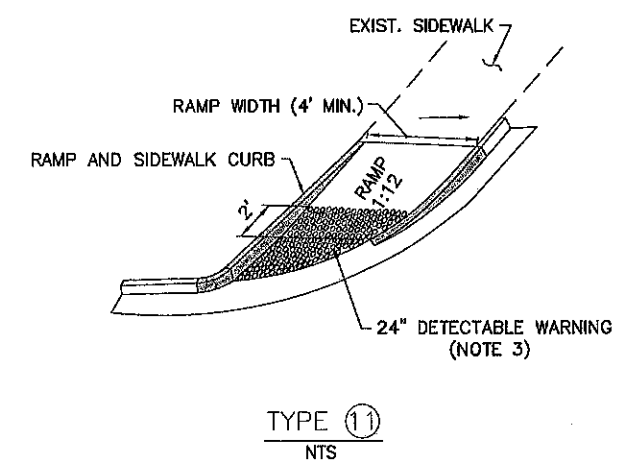
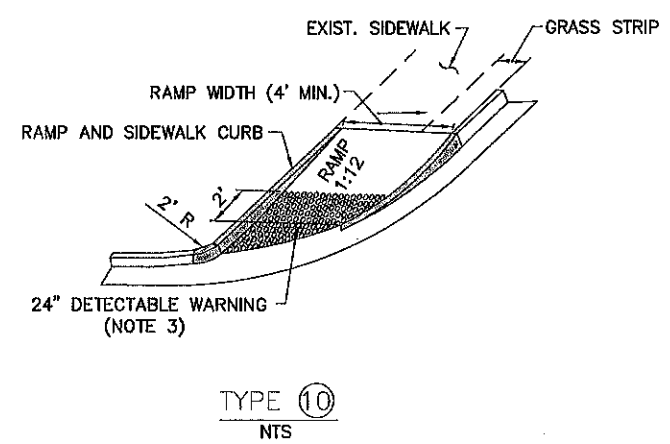
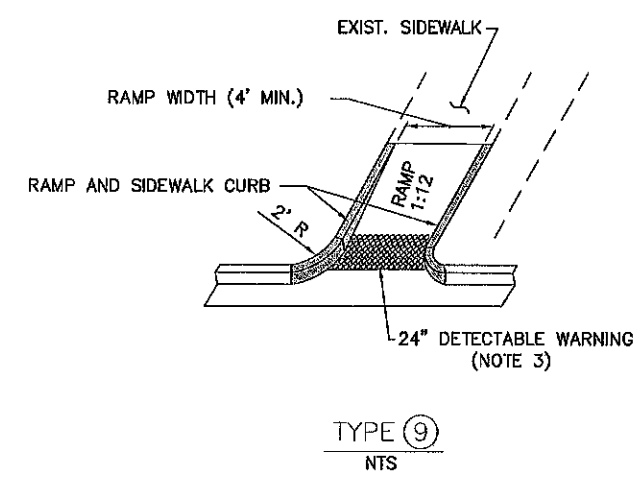
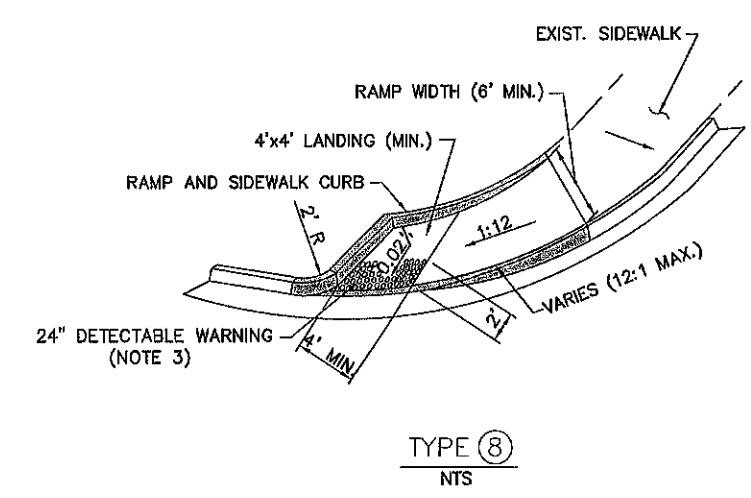
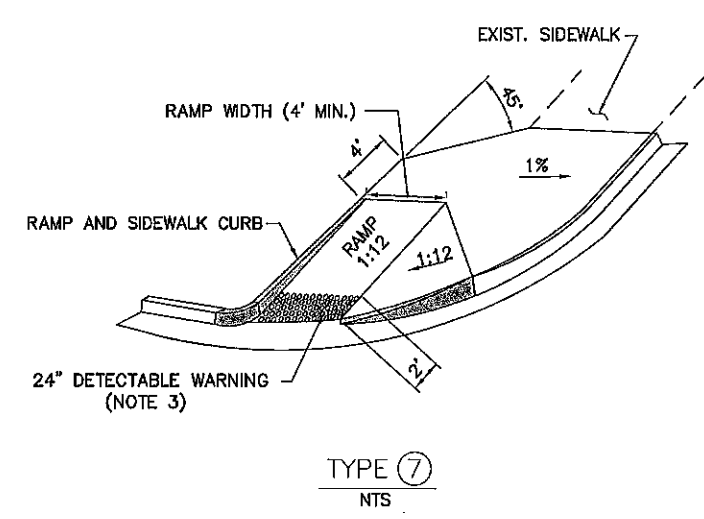
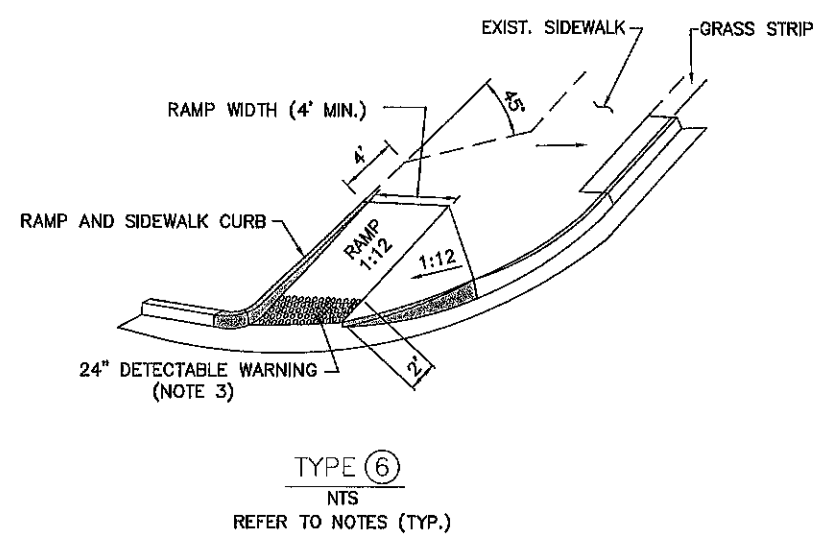
STANDARD 6' SIDEWALK  
WITH PAVED RAMP  
TYPE ④  
NTS



STANDARD 5' SIDEWALK  
WITH CURBED RAMP  
TYPE ⑤  
(REFER TO NOTES, TYP.)  
NTS

  
 THOMAS A. STEPHENS  
 LICENSE NO. 18517  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 4/15/2021

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AREAS OF CURB MODIFICATION

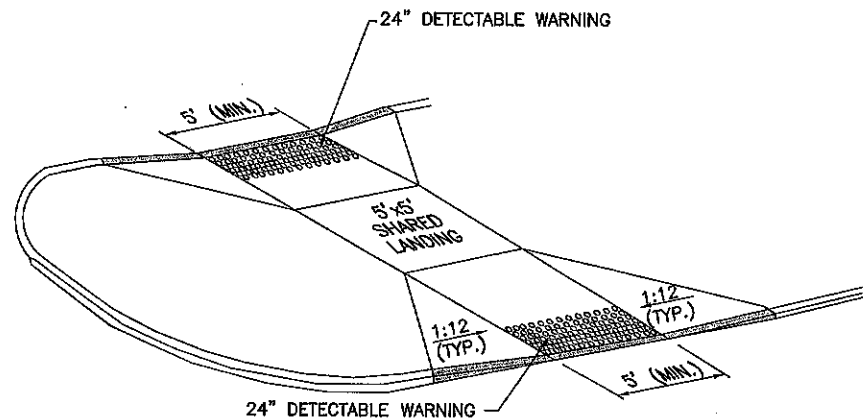
NOTE:

1. LOCATION OF ALL TRAFFIC STRIPING, CROSS BARS, STOP BARS, AND MARKERS SHALL BE BASED ON SITE SPECIFIC DESIGN APPROVED BY THE CHIEF TRAFFIC ENGINEER. REFER TO 905-50 SHEET 7.
2. THE LAYOUT OF HANDICAP RAMPS ARE BASED ON USE OF 6 INCH BARRIER CURB. ADJUSTMENTS TO DIMENSIONS WILL BE REQUIRED SHOULD MOUNTABLE CURB IS USED.
3. THE MINIMUM LENGTH OF ANY SIDE OF THE DETECTABLE WARNING MATERIAL SHALL BE TWO FEET.

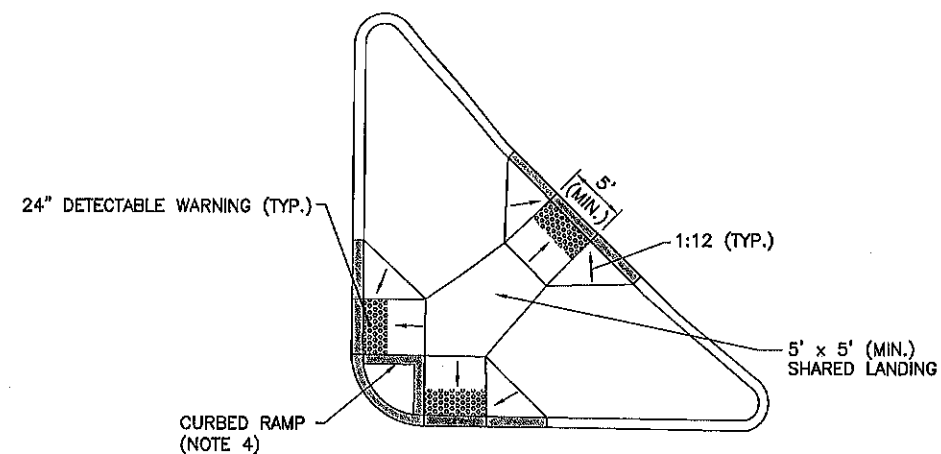
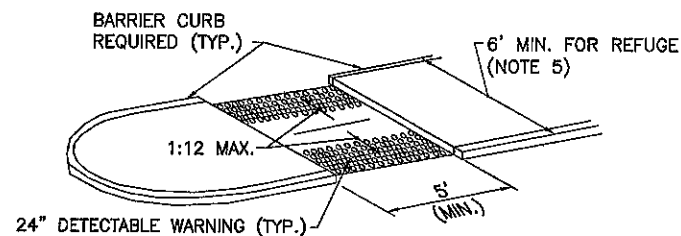
THOMAS A. STEPHENS  
 LICENSE NO. 19417  
 PROFESSIONAL ENGINEER  
 CIVIL ENGINEERING  
 STATE OF LOUISIANA  
 4/15/2021

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CURB RAMPS AT MEDIAN ISLANDS  
(REFER TO NOTES, TYP.)  
N.T.S.

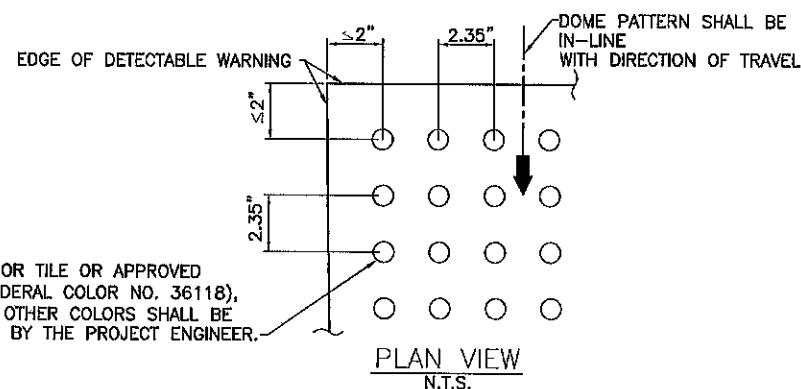


COMBINATION ISLAND RAMPS  
N.T.S.

AREAS OF CURB MODIFICATION

NOTES:

1. LOCATION OF ALL TRAFFIC STRIPING, CROSS BARS, STOP BARS, AND MARKERS SHALL BE BASED ON SITE SPECIFIC DESIGN APPROVED BY THE CHIEF TRAFFIC ENGINEER. REFER TO 905-50 SHEET 7.
2. THE LAYOUT OF HANDICAP RAMPS ARE BASED ON USE OF 6 INCH BARRIER CURB. ADJUSTMENTS TO DIMENSIONS WILL BE REQUIRED SHOULD MOUNTABLE CURB IS USED.
3. NO SIGHT OBSTRUCTIONS SUCH AS BENCHES TREES, ETC. SHALL BE PLACED TO LIMIT THE REQUIRED SIGHT DISTANCE.
4. WHEN GEOMETRIC LIMITATIONS PREVENT CONSTRUCTION OF THE FLARED RAMP WITH AT LEAST 2 FEET OF FULL DEPTH CURB BETWEEN FLARES, USE CURBED RAMPS.
5. IF A PEDESTRIAN REFUGE IS REQUIRED OR DESIRABLE, A MINIMUM 6' LENGTH IS REQUIRED, AS WELL AS STANDARD BARRIER CURB.



TRUNCATED DOME (ARMOR TILE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118), OR APPROVED EQUAL). OTHER COLORS SHALL BE ALLOWED AS APPROVED BY THE PROJECT ENGINEER.

NOTE: ALL SIDEWALK CURB RAMPS ON PUBLIC STREETS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24\"/>

CURB RAMP DETECTABLE WARNING



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