



CONCRETE MIX DESIGN

MIX FOR ONE CUBIC YARD OF FIBER-REINFORCED CONCRETE

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| 28 DAY STRENGTH                  | 4000 PSI                                           |
| CEMENT (ASTM C-150, TYPE I/II)   | 4.64 BAGS (436 LBS.)                               |
| FLY ASH (ASTM C-618)             | 1.16 BAGS (104 LBS.)                               |
| GRAVEL (ASTM C-33, GRADE A)      | 1775 LBS.                                          |
| SAND (ASTM C-33)                 | 1226 LBS.                                          |
| WATER (POTABLE)                  | 30 GALLONS (250 LBS.)                              |
| TYPE A WATER REDUCER (ASTM C-494 | 16.35 LBS.                                         |
| AIR ENTRAINMENT                  | 5% BY VOLUME, USE PER MANUFACTURERS SPECIFICATIONS |
| FIBER REINFORCEMENT              | 1.5 LBS./CY MICROFIBERS, AS SPECIFIED BELOW        |

FIBER REINFORCEMENT FOR ALL CONCRETE SIDEWALKS AND DRIVEWAYS SHALL BE MATRIX MONOFILAMENT MICROFIBER AS MANUFACTURED BY FRC INDUSTRIES OR APPROVED EQUAL, APPLIED THROUGHOUT THE CONCRETE MIXTURE.

ALTERNATE PRODUCTS MUST BE PREAPPROVED BY THE CITY ENGINEER IN WRITING CELLULOSE (TREATED OR UNTREATED), AR GLASS, NYLON AND POLYESTER FIBERS ARE SPECIFICALLY PROHIBITED FROM USE.

CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT NEEDED TO CONSTRUCT HANDICAP RAMPS, AT INTERSECTIONS, MEDIANS, OR AS DIRECTED BY THE CITY ENGINEER. THE CONCRETE USED TO CONSTRUCT THE RAMPS SHALL BE SIX (6") INCH THICK 4000-PSI AT 28 DAYS WHERE NECESSARY OR AS DIRECTED BY THE CITY ENGINEER. EXISTING SIDEWALK SHALL BE REMOVED AND REPLACED WITH NEW PORTLAND CEMENT CONCRETE SIDEWALK AND TRUNCATED DOME TILE, AS STIPULATED ACCORDING TO AMERICAN DISABILITY ACT REQUIREMENT.

TRUNCATED DOME TILE SHALL BE MINIMUM 1/4-INCH THICK WITH EMBEDDED TRUNCATED DOMES, 3-INCHES ON CENTER THROUGH ENTIRE LENGTH OF TILE. TILE SURFACE SHALL BE COVERED WITH PROTECTIVE PLASTIC SHEETING. EACH HANDICAP RAMP SHALL CONSIST OF ONLY ONE TILE, WHICH SHALL BE ANCHORED INTO THE CONCRETE. THESE ARE A NO DIRECT PAY ITEM COLOR SHALL BE BRICK RED.

NOTES:

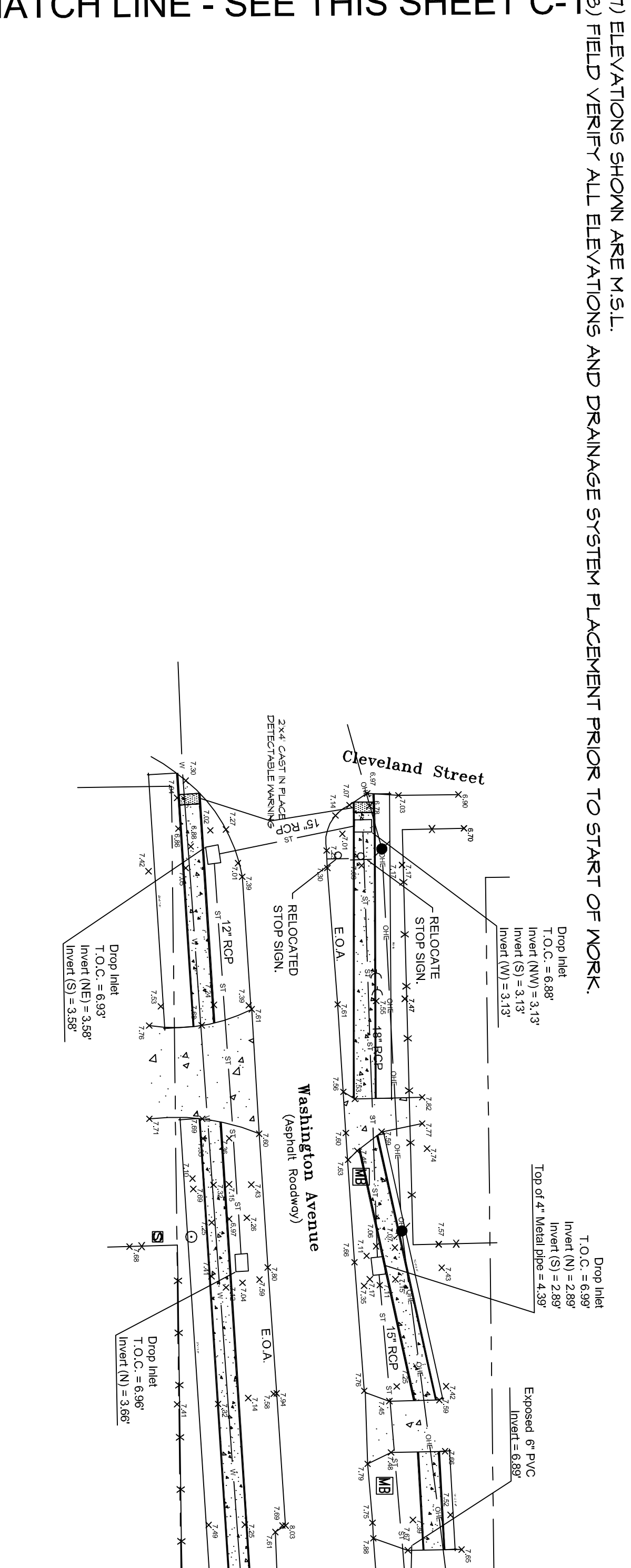
- 1) SIDEWALKS SHALL BE LOCATED AS NOTED. FIELD VERIFY WITH CITY ENGINEERING AND DAMMON ENGINEERING PRIOR TO FORMING.
- 2) ALL SIDEWALKS SHALL BE PRELIMINARY LOCATE SIDEWALKS IS PERMITTED.
- 3) SAND BASE COURSE (TYP) SHALL HAVE A MINIMUM OF 6" THICK COMPACTED TO 95% STANDARD PROCTOR.
- 4) ALL SIDEWALKS SHALL BE SCORED TO A DEPTH OF 3/4" AT FIVE FOOT INTERVALS.
- 5) ALL SIDEWALKS SHALL BE SLOPED 1/4" MAX CROSS SLOPE TO THE ADJACENT STREET OR DRIVEWAY.
- 6) PROVIDE DETECTABLE WARNING SYSTEM (CAST IN PLACE) WHERE NEW SIDEWALKS TERMINATE INTO EXISTING STREETS AS NOTED.
- 7) ELEVATIONS SHOWN ARE M.S.L.
- 8) FIELD VERIFY ALL ELEVATIONS AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.

TRAFFIC CONTROLS:

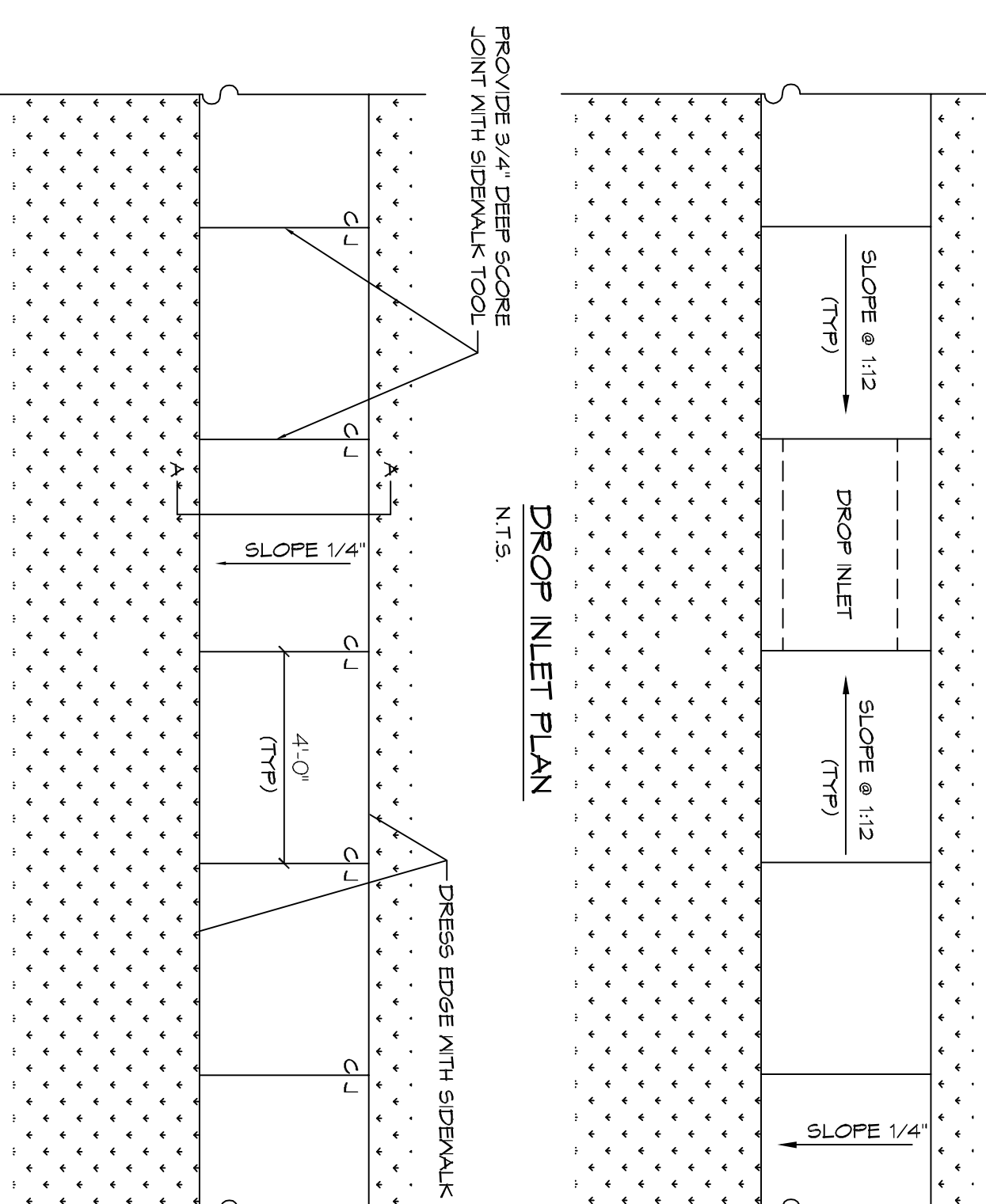
ANY WORK WITHIN THE ROADWAY OR ADJACENT TO THE ROADWAY CAUSING AN INTERFERENCE TO VEHICULAR TRAFFIC REQUIRES PRIOR APPROVAL FROM THE CITY OF SLIDELL, AND MUST CONFORM TO THE REQUIREMENTS SET FORTH BY THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR MUST FURNISH ALL NECESSARY TRAFFIC SIGNS AND/OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.

LEGEND

- EXISTING TOPO
- ALL SIDEWALKS INTERSECTING A ROADWAY SHALL BE SLOPED @ 1:12 AND HAVE A DETECTABLE WARNING SYSTEM (CAST IN PLACE) COLOR SHALL BE BRICK RED.
- NEW 4' SIDEWALK



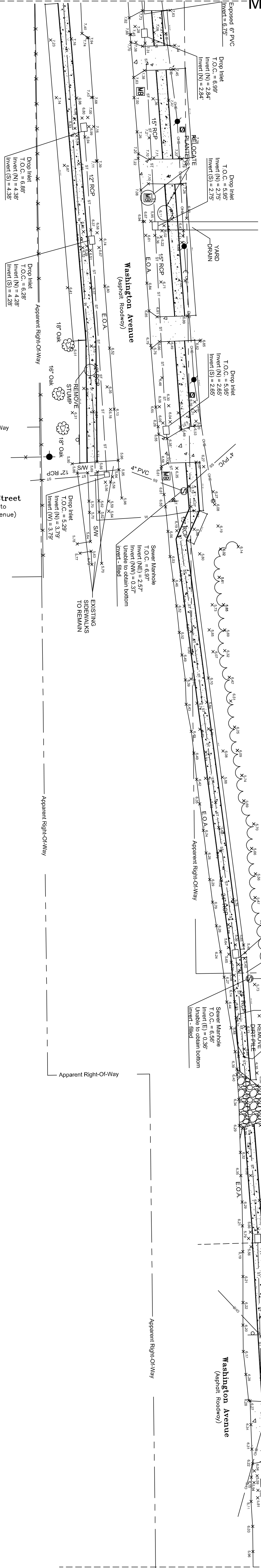
MATCH LINE - SEE THIS SHEET C-1



PLAN

SECTION A-A

TYPICAL CONCRETE SIDEWALK DETAIL



MATCH LINE - SEE SHEET C-2



**DAMMON**  
ENGINEERING, INC.  
Architects & Engineers

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**CITY OF SLIDELL, LA**  
**CDBG SIDEWALK IMPROVEMENTS**  
**CDBG PHASE V 5000-21B**  
WASHINGTON AVE.  
SLIDELL, LOUISIANA

|           |      |             |            |
|-----------|------|-------------|------------|
| JOB No:   | 2204 | DATE:       | 03.06.2013 |
| DRAWN BY: | KGD  | CHECKED BY: | KGD        |

| REVISIONS     | DATE |
|---------------|------|
| # DESCRIPTION |      |
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**PARTIAL**  
**SITE**  
**PLAN**  
**WASHINGTON AVE.**

SHEET NO: 02 of 05

**C1**

CONCRETE MIX DESIGN

MIX FOR ONE CUBIC YARD OF FIBER-REINFORCED CONCRETE

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| 28 DAY STRENGTH                   | 4000 PSI                                           |
| CEMENT (ASTM C-150, TYPE I/II)    | 4.64 BAGS (436 LBS.)                               |
| FLY ASH (ASTM C-618)              | 1.16 BAGS (109 LBS.)                               |
| GRAVEL (ASTM C-33, GRADE A)       | 1715 LBS.                                          |
| SAND (ASTM C-33)                  | 1226 LBS.                                          |
| WATER (POTABLE)                   | 30 GALLONS (250 LBS.)                              |
| TYPE A WATER REDUCER (ASTM C-494) | 16.35 LBS.                                         |
| AIR ENTRAINMENT                   | 5% BY VOLUME, USE PER MANUFACTURERS SPECIFICATIONS |
| FIBER REINFORCEMENT               | 1.5 LBS./CY MICROFIBERS, AS SPECIFIED BELOW        |

FIBER REINFORCEMENT FOR ALL CONCRETE SIDEWALKS AND DRIVEWAYS SHALL BE MATRIX MONOFILAMENT MICROFIBER AS MANUFACTURED BY FRC INDUSTRIES OR APPROVED EQUAL, APPLIED THROUGHOUT THE CONCRETE MIXTURE. ALTERNATE PRODUCTS MUST BE PREAPPROVED BY THE CITY ENGINEER IN WRITING CELLULOSE (TREATED OR UNTREATED), AR GLASS, NYLON AND POLYESTER FIBERS ARE SPECIFICALLY PROHIBITED FROM USE. CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT NEEDED TO CONSTRUCT HANDICAP RAMPS, AT INTERSECTIONS, MEDIANS, OR AS DIRECTED BY THE CITY ENGINEER. THE CONCRETE USED TO CONSTRUCT THE RAMPS SHALL BE SIX (6") INCH THICK 4000-PSI AT 28 DAYS, WHERE NECESSARY OR AS DIRECTED BY THE CITY ENGINEER. EXISTING SIDEWALK SHALL BE REMOVED AND REPLACED WITH NEW PORTLAND CEMENT CONCRETE SIDEWALK AND TRUNCATED DOWE TILE, AS STIPULATED ACCORDING TO AMERICAN DISABILITY ACT REQUIREMENT. TRUNCATED DOWE TILE SHALL BE MINIMUM 1/4-INCH THICK WITH EMBEDDED TRUNCATED DOWES. 3-INCHES ON CENTER THROUGH ENTIRE LENGTH OF TILE. TILE SURFACE SHALL BE COVERED WITH PROTECTIVE PLASTIC SHEETING. EACH HANDICAP RAMP SHALL CONSIST OF ONLY ONE TILE, WHICH SHALL BE ANCHORED INTO THE CONCRETE. THESE ARE A NO DIRECT PAY ITEM. COLOR SHALL BE BRICK RED.

NOTES:

- 1) SIDEWALKS SHALL BE LOCATED AS NOTED. FIELD VERIFY WITH CITY ENGINEERING AND DAMMON ENGINEERING PRIOR TO FORMING.
- 2) ALL SIDEWALKS SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE AND HAVE A MINIMUM THICKNESS OF 4".
- 3) SAND BASE COURSE (TYP.) SHALL HAVE A MINIMUM OF 6" THICK COMPACTED TO 95% STANDARD PROCTOR.
- 4) PROVIDE SYNTHETIC FIBER REINFORCING IN ACCORDANCE WITH ASTM C 1116 IN ALL CONCRETE SIDEWALKS.
- 5) ALL SIDEWALKS SHALL BE SCORED TO A DEPTH OF 3/4" AT FIVE FOOT INTERVALS.
- 6) PROVIDE DETECTABLE WARNING SYSTEM (CAST IN PLACE) WHERE NEW SIDEWALKS TERMINATE INTO EXISTING STREETS AS NOTED.
- 7) ELEVATIONS SHOWN ARE M.S.L.
- 8) FIELD VERIFY ALL ELEVATIONS AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.

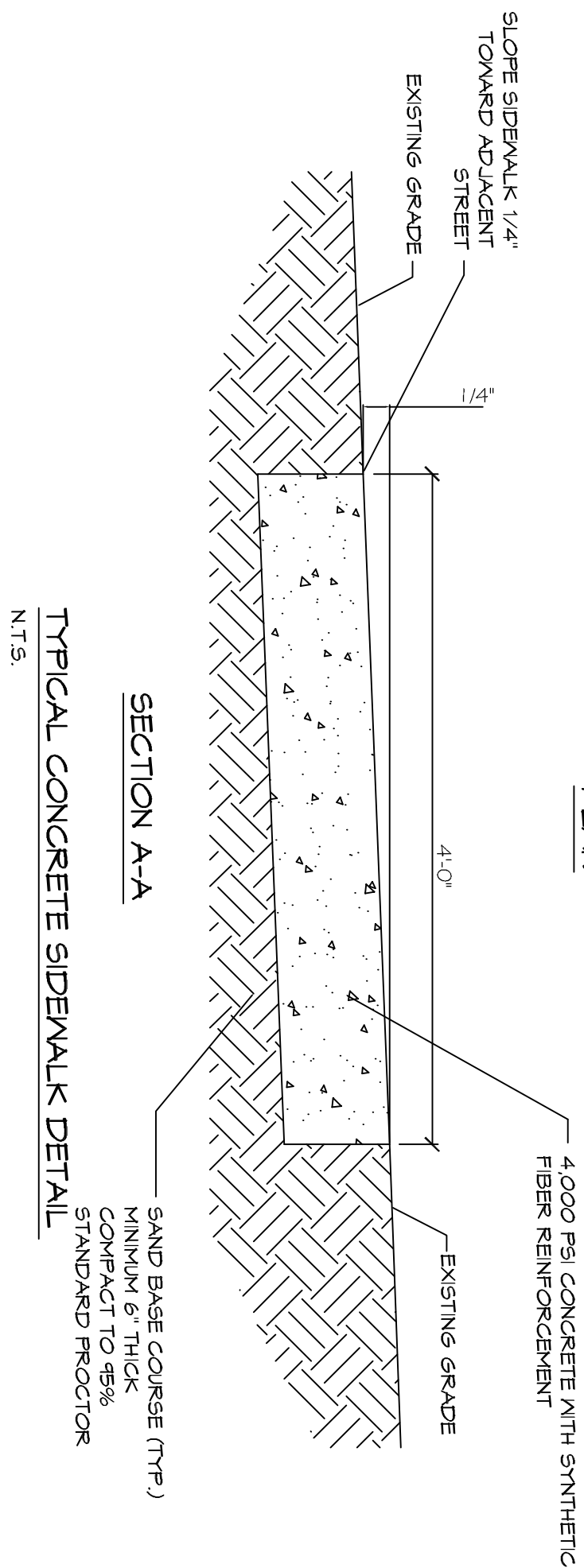
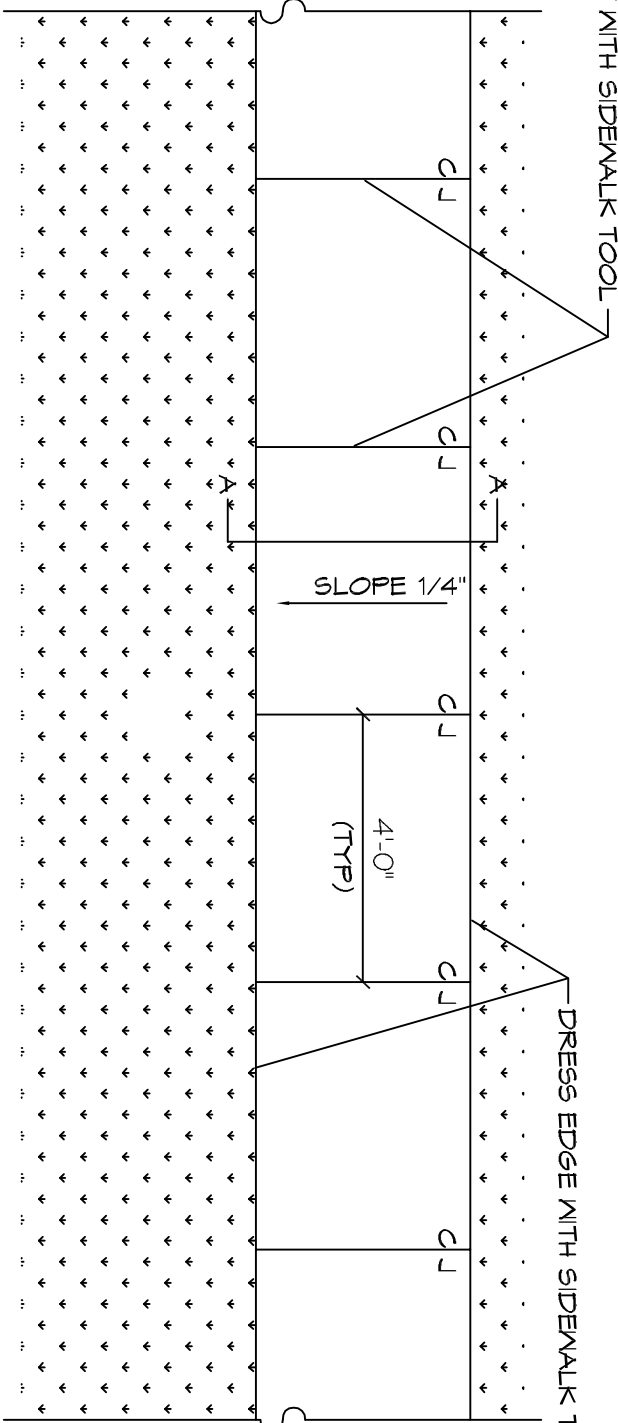
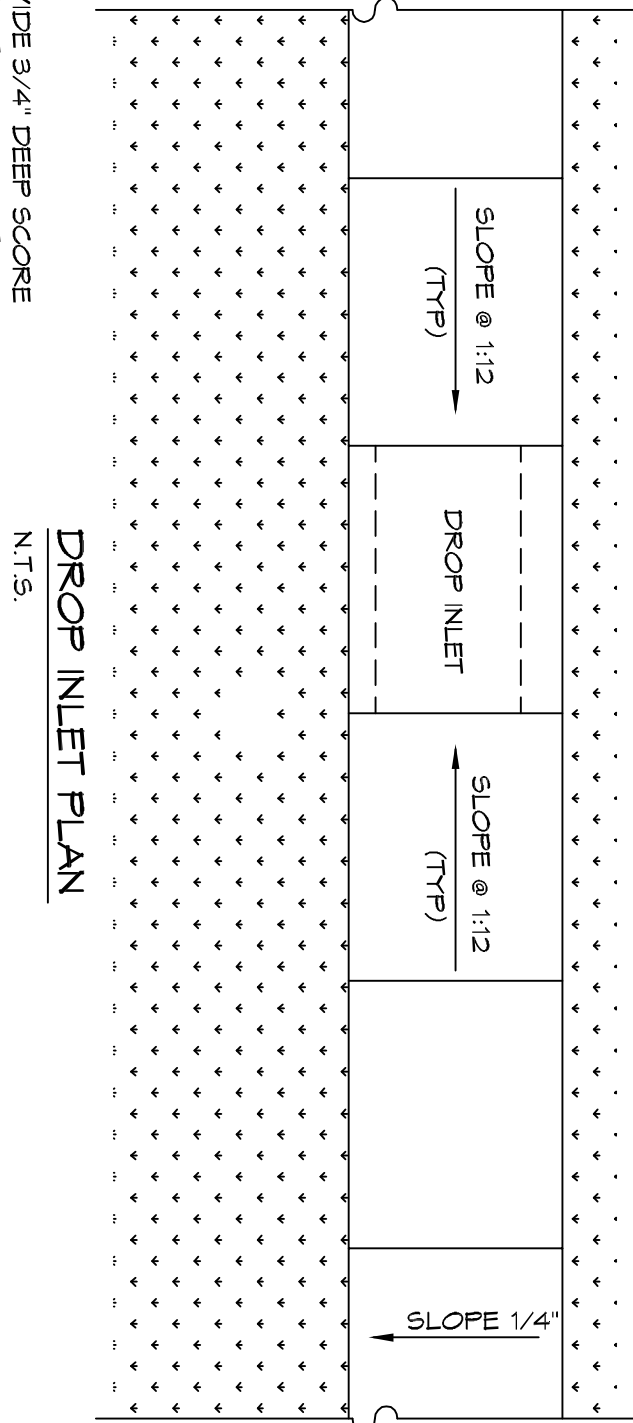
TRAFFIC CONTROLS:

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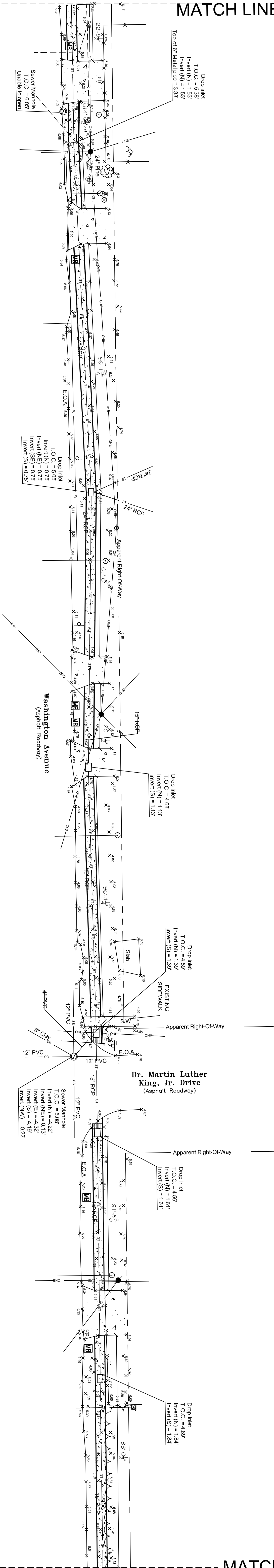
LEGEND

- EXISTING TOPO
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- NEW 4" SIDEWALK



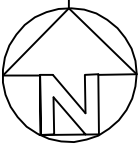
MATCH LINE - SEE SHEET C-1



MATCH LINE - SEE SHEET C-3

PARTIAL SITE PLAN

SCALE: 1" = 20'



**DAMMON**  
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Architects & Engineers



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CITY OF SLIDELL, LA  
CDBG SIDEWALK IMPROVEMENTS  
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SLIDELL, LOUISIANA

|           |      |             |            |
|-----------|------|-------------|------------|
| JOB No:   | 2204 | DATE:       | 03.06.2013 |
| DRAWN BY: | GKD  | CHECKED BY: | GKD        |

The above drawings and specifications designs and arrangements represented thereby are and shall remain the property of Dammon Engineering, Inc. and no part thereof shall be copied, disclosed to others, or used in connection with any work or project other than the specific project for which they have been prepared and developed without written consent of Dammon Engineering, Inc. No other drawings, specifications or drawings of specifications shall constitute conclusive evidence of acceptance of these restrictions.

| REVISIONS |             | DATE |
|-----------|-------------|------|
| #         | DESCRIPTION |      |
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PARTIAL  
SITE  
PLAN  
WASHINGTON AVE.

SHEET NO: 03 of 05

C2

MIX FOR ONE CUBIC YARD OF FIBER-REINFORCED CONCRETE

FIBER REINFORCEMENT  
BELOW  
1.5 LBS/CY MICROFIBERS, AS SPECIFIED

ONLY ONE TILE, WHICH SHALL BE ANCHORED INTO THE CONCRETE. THESE ARE A NO DIRECT PAY ITEM. COLOR SHALL BE BRICK RED.

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ANY WORK WITHIN THE ROADWAY

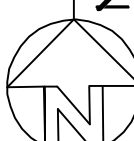
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### LEGEND

- NEW 4' SIDEWALK

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SCALE: 1" = 20'



MATCH LINE - SEE SHEET C-4

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CITY OF SLIDELL, LA  
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JOB No: 2204

DRAWN BY: CKD

DATE: 03.06.2013

CHECKED BY: CKD

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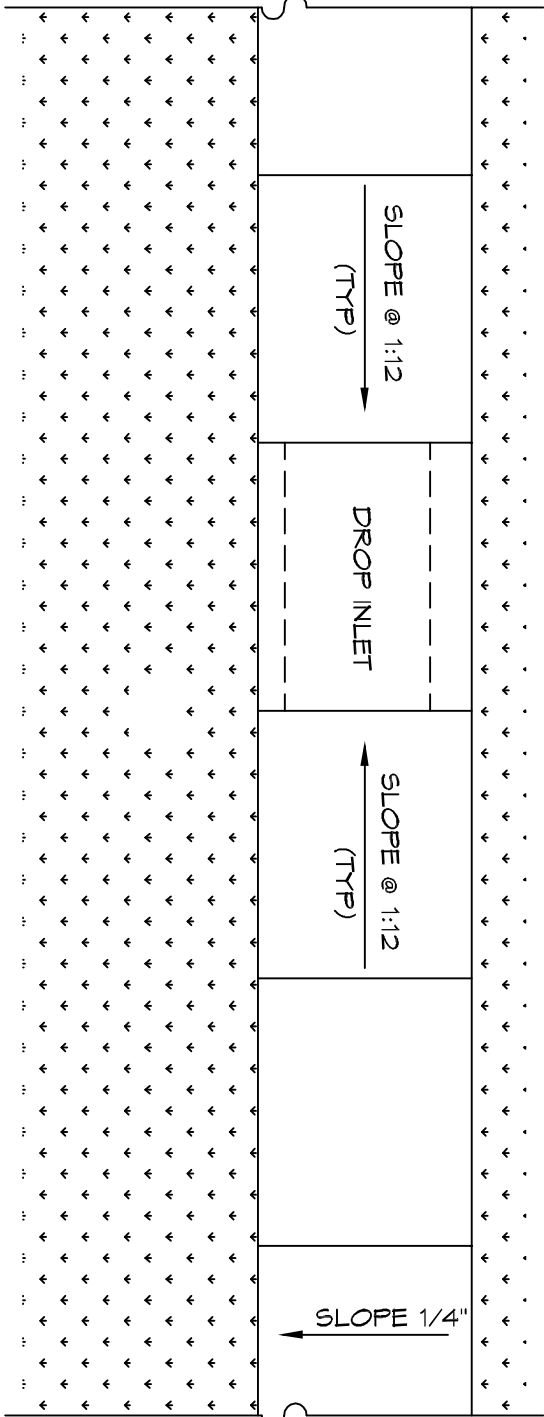
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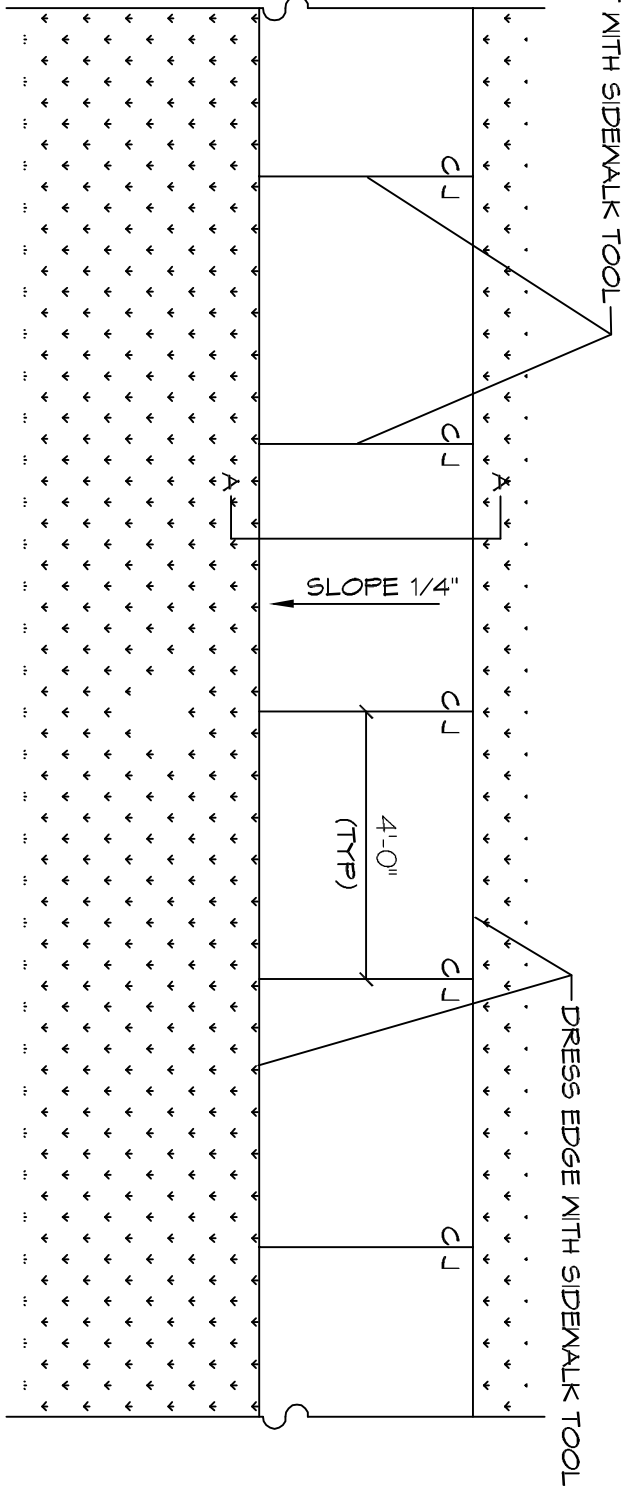
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LEGEND

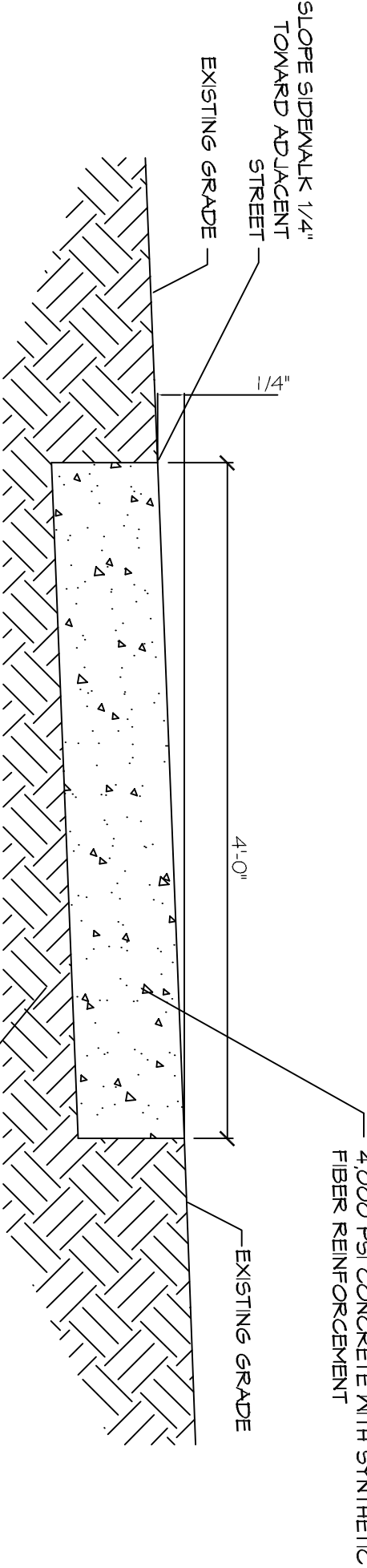
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- NEW 4' SIDEWALK



DROP INLET PLAN  
N.T.S.



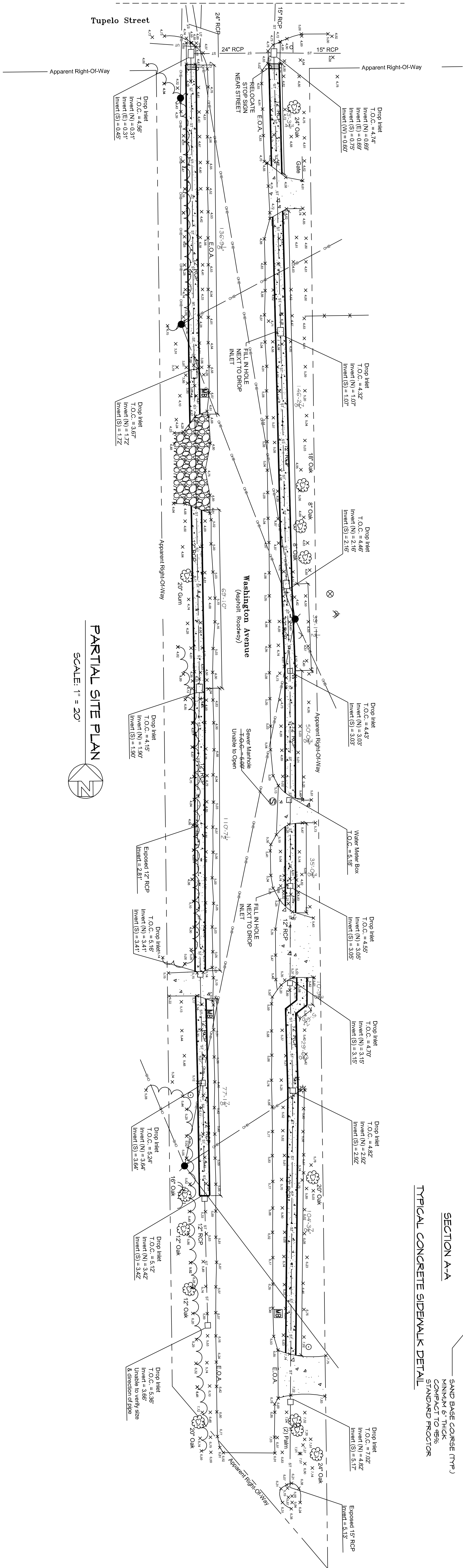
PLAN



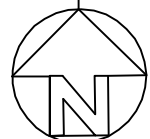
SECTION A-A

TYPICAL CONCRETE SIDEWALK DETAIL

MATCH LINE - SEE SHEET C-3



PARTIAL SITE PLAN  
SCALE: 1" = 20'



CITY OF SLIDELL, LA  
CDBG SIDEWALK IMPROVEMENTS  
CDBG PHASE V 5000-21B  
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SLIDELL, LOUISIANA

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C4