

LIMITS OF TREE REMOVAL N.T.S.

GENERAL NOTES

ALL TREES (WITH ANY PORTION OF THE TRUNK WITHIN 45' OF TRAVEL LANE) ARE TO BE REMOVED AND PAID UNDER ITEM NO. 201-01-00100, CLEARING AND GRUBBING. ALL PINE TREES (MORE FROM FROM THE CORPORATION ARE CONSELLED TO BE REMOVED AND PAID UNDER ITEM NO. 201-01-00100, CLEARING AND GRUBBING (SELECTIVE) THE LIMITS OF WORK SHALL BE THE RIGHT-OF-WAY LINES OR AS SHOWN ON THE PLANS.

ALL PINE TREES REMOVED UNDER ITEM 201-01-00200 ARE TO BE CUT OFF WITHIN 6" OF GROUND LEVEL. THE STUMPS ARE TO REMAIN UNLESS OTHERWISE NOTED.

ITEM NO. 713-01-00100, TEMPORARY SIGNS AND BARRICADES - ANY SIGNS OR OBJECT MARKERS MOVED BY THE CONTRACTOR FOR CONSTRUCTION OPERATIONS SHALL BE PUT BACK IMMEDIATELY UPON COMPLETION OF SAID CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL REPLACE IN KIND AND AT HIS OWN EXPENSE ANY HIGHWAY WARNING OR REGULATORY SIGNS WHICH BECOME DAMAGED AS A RESULT OF CONSTRUCTION.

DISTURBED AREAS SHALL BE SEEDED, FERTILIZED, AND MULCHED TO THE SATISFACTION OF THE PROJECT ENGINEER.

ANY SHOULDERS, SLOPES, DITCHES, FENCES, ETC. DAMAGED DURING THE TREE REMOVAL OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE PROJECT ENGINEER AT THE CONTRACTOR'S EXPENSE.

ALL VEGETATIVE DEBRIS CREATED AS A RESULT OF ITEM 201-01-00100 IS TO BE PROPERLY DISPOSED OF ACCORDANCE WITH SECTION 202-02.

NO BURNING WILL BE ALLOWED WITHIN THE LIMITS OF THE RIGHT OF WAY.

LANE CLOSURES WILL ONLY BE ALLOWED DURING DAYLIGHT HOURS. ALSO LANE CLOSURES WILL BE LIMITED TO A MAXIMUM OF 2 MILES. A MAXIMUM OF ONE LANE CLOSURE PER DIRECTION OF INTERSTATE TRAVEL WILL BE ALLOWED.

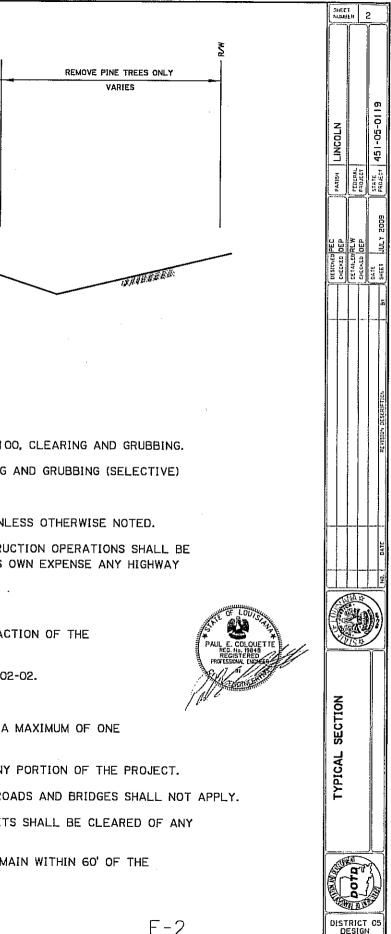
THE CONTRACTOR WILL NOT BE ALLOWED TO WORK WITHIN THE MEDIAN AND THE OUTSIDE OF THE ROADWAY SIMULTANEOUSLY DURING ANY PORTION OF THE PROJECT.

FOR THIS PROJECT THE FIFTH SENTENCE OF SECTION 201.02 OF THE 2006 EDITION OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES SHALL NOT APPLY.

DRAINAGE MUST BE MAINTAINED AT ALL TIMES THROUGHOUT THE PROJECT. ANY STREAMS OR DRAINAGE AREAS WITHIN THE PROJECT LIMITS SHALL BE CLEARED OF ANY DEBRIS CREATED AS A RESULT OF THIS PROJECT.

WHEN NO WORK IS IN PROGRESS, EQUIPMENT, TEMPORARY PORTABLE SIGNS, AND MATERIALS USED TO PERFORM THE WORK SHALL NOT REMAIN WITHIN 60' OF THE EDGE OF THE CLOSEST TRAVEL LANE AT NIGHT UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGINEER.

NO EQUIPMENT WILL BE ALLOWED TO CROSS THE INTERSTATE WITHOUT PRIOR APPROVAL OF THE PROJECT ENGINEER.



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	CLEARING AND GRUBBING	CLEARING AND GRUBBING (SELECT)				CLEARING AND GRUBBING	201-01-00200 CLEARING AND GRUBBING		DESIGNED PEC
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0+00	19.96	9.60	1			20.66	13.56		
	20.66	14.27			7 5+00	20.66	16.86		
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0+00	20.66	24.05				20.66	3.94		
	20.66	20.95			865+00	11.28	5.88		
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5+00					TOTAL	260.57	210.11		
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Summary Of Estimated Quantities

Proposal ID: 451-05-0119 State Project Number:

Federal Project Number:

Proposal Description: PINE TREE REMOVAL ALONG I-20

Item No.	Description	Supplemental Description Alterna	ite Iember Units	Quantity
		General Ilems		
201-01-00100	Clearing and Grubbing		LUMP	1
201-01-00200	Clearing and Grubbing (Selective)	LUMP	1	
203-07-00100	Borrow (Vehicular Measuremeni)		CUYD	400.000
204-05-00100	Temporary Sediment Check Dams (Hay)	EACH	30.000	
204-06-00100	Temporary Silt Fencing	· ·	LNFT	10,000.000
713-01-00100	Temporary Signs and Barricades	· · · · · · · · · · · · · · · · · · ·	LUMP	1.000
716-01-00100	Mulch (Vegetalive)		TON	52.000
717-01-00100	Seeding		LB	1,560.000
718-01-00100	Fertilizer		LB	26,000.000
727-01-00100	Mobilization	- FOR INFORMATIONAL PURPOSES ONLY	LUMP	1.000
NS-713-00001	Dynamic Message Sign Unit		EACH	4.000

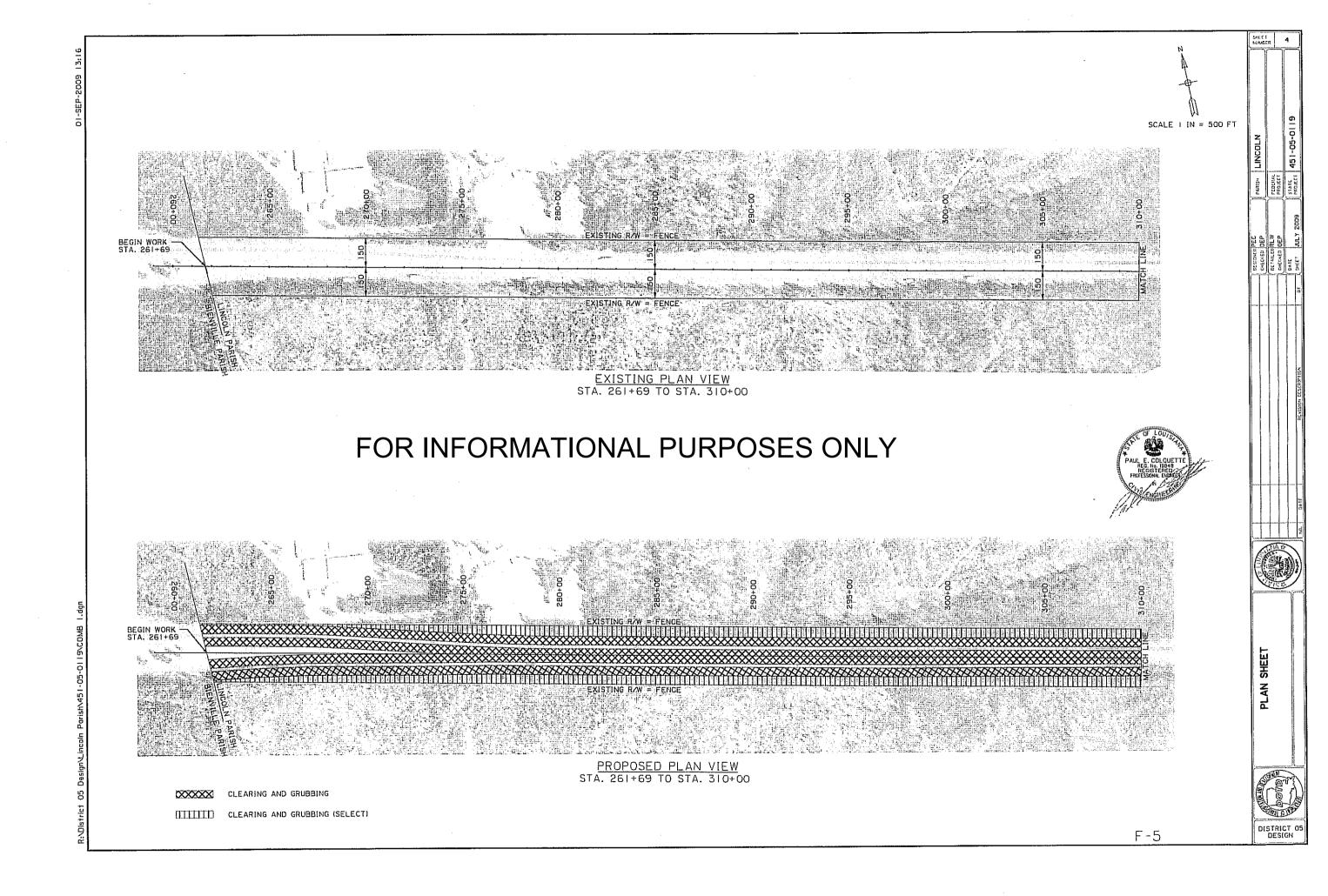
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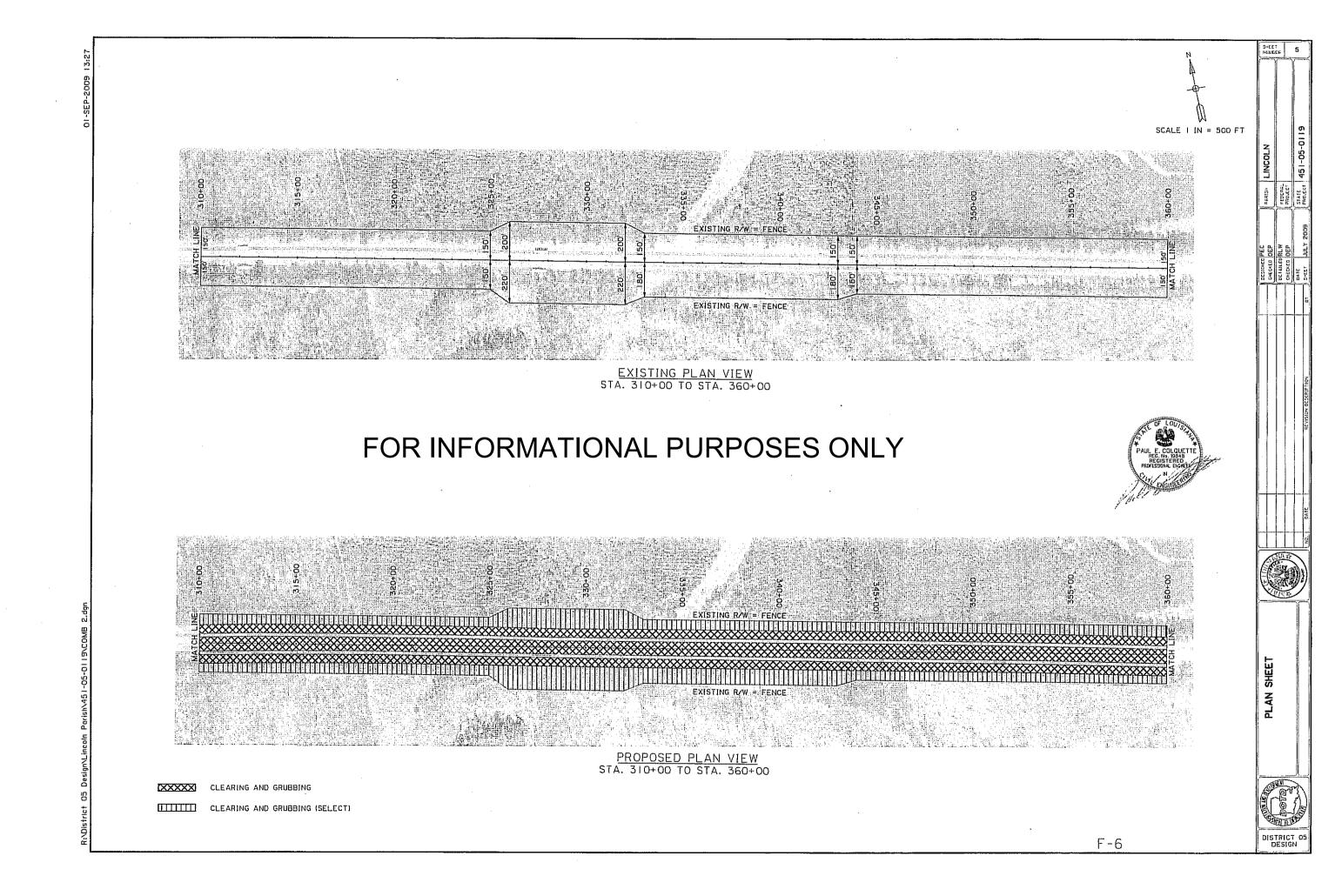
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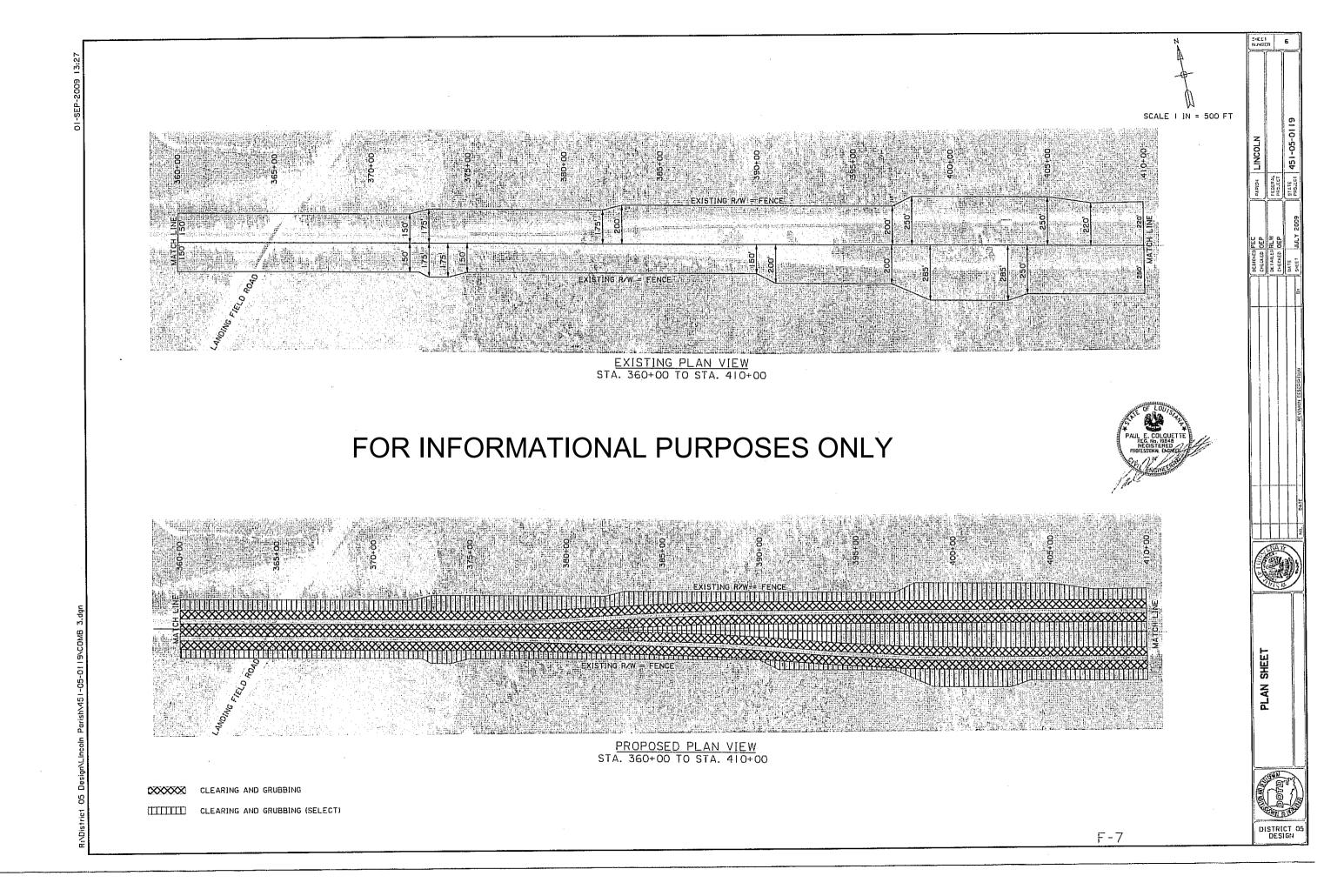
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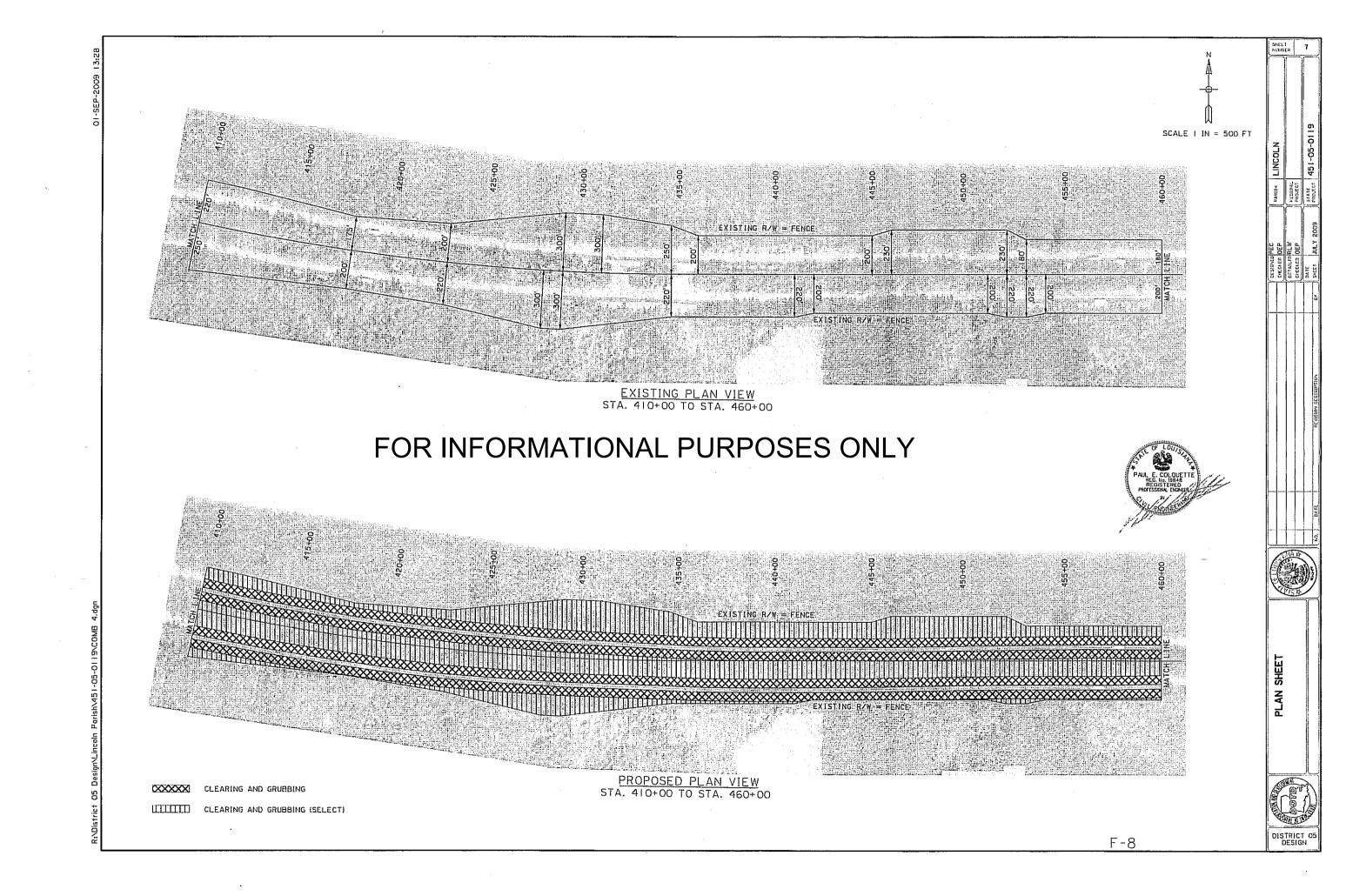


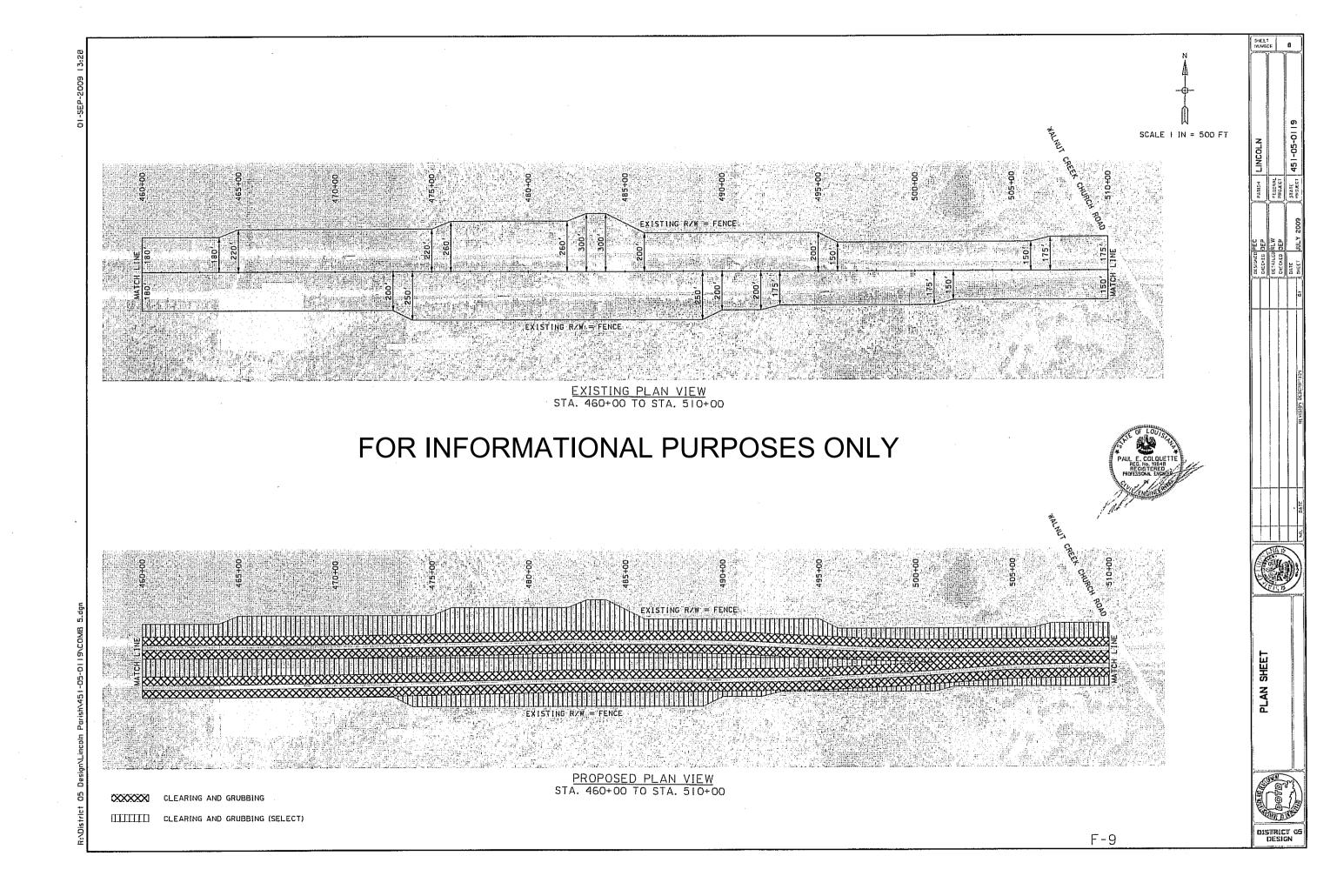
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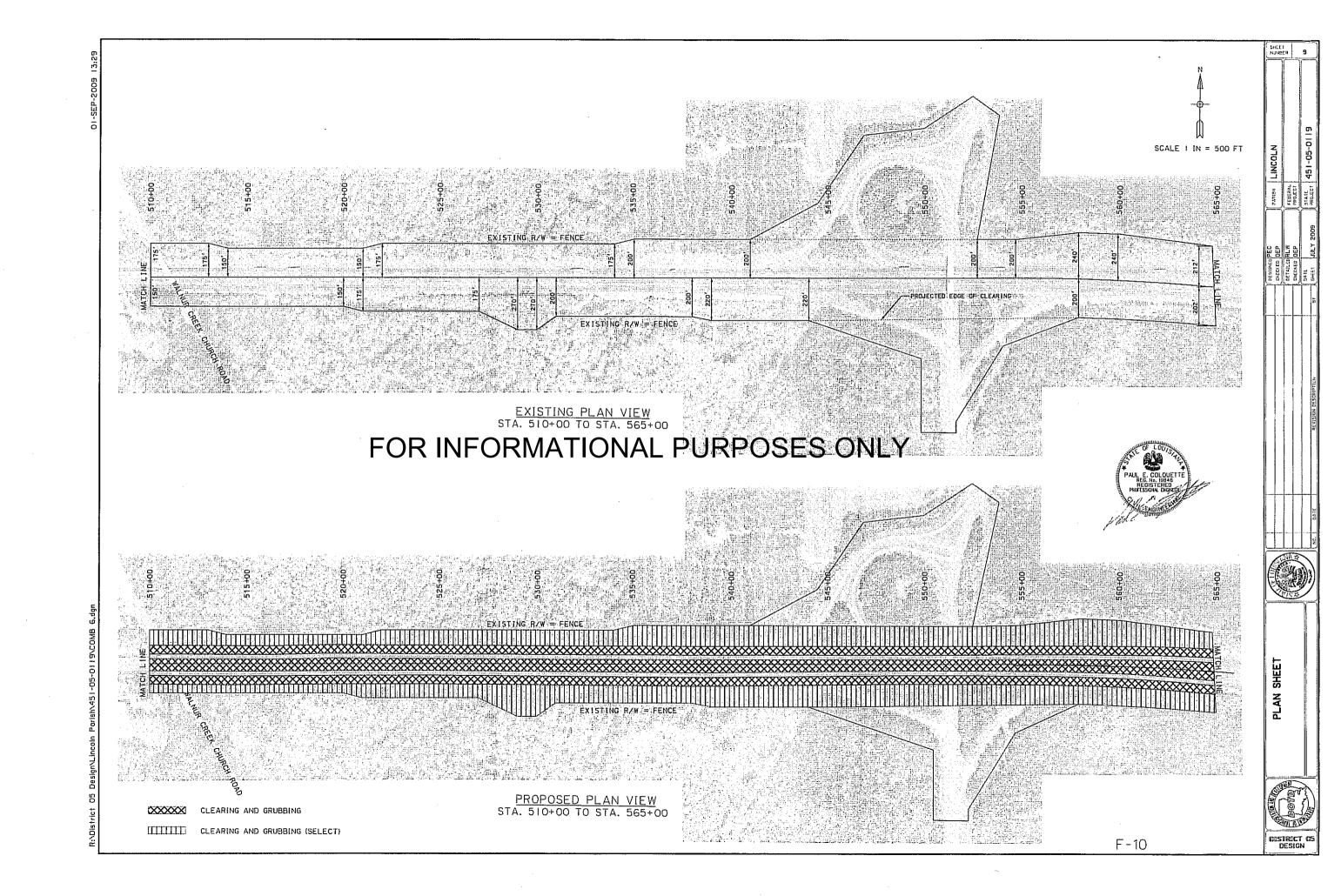


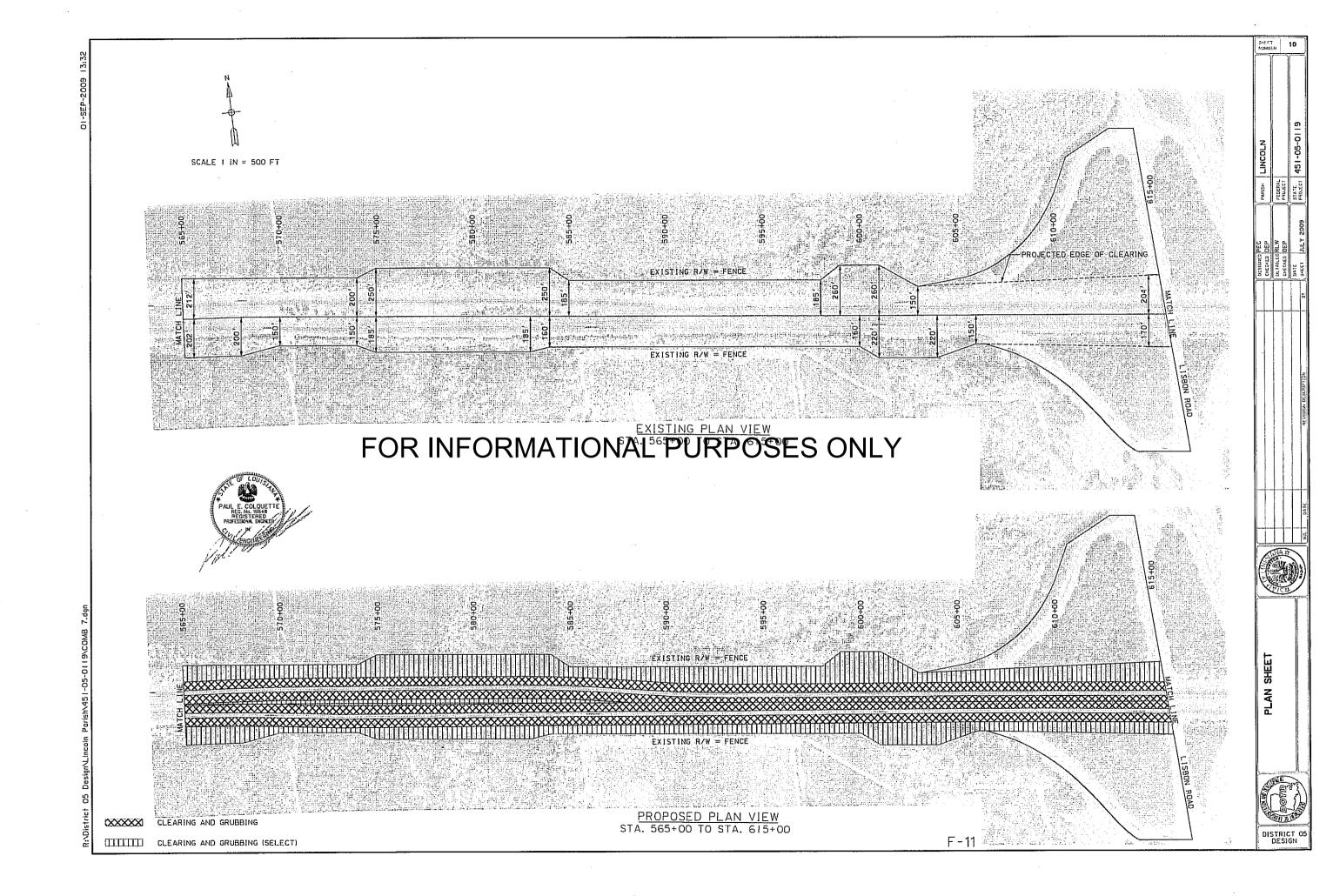


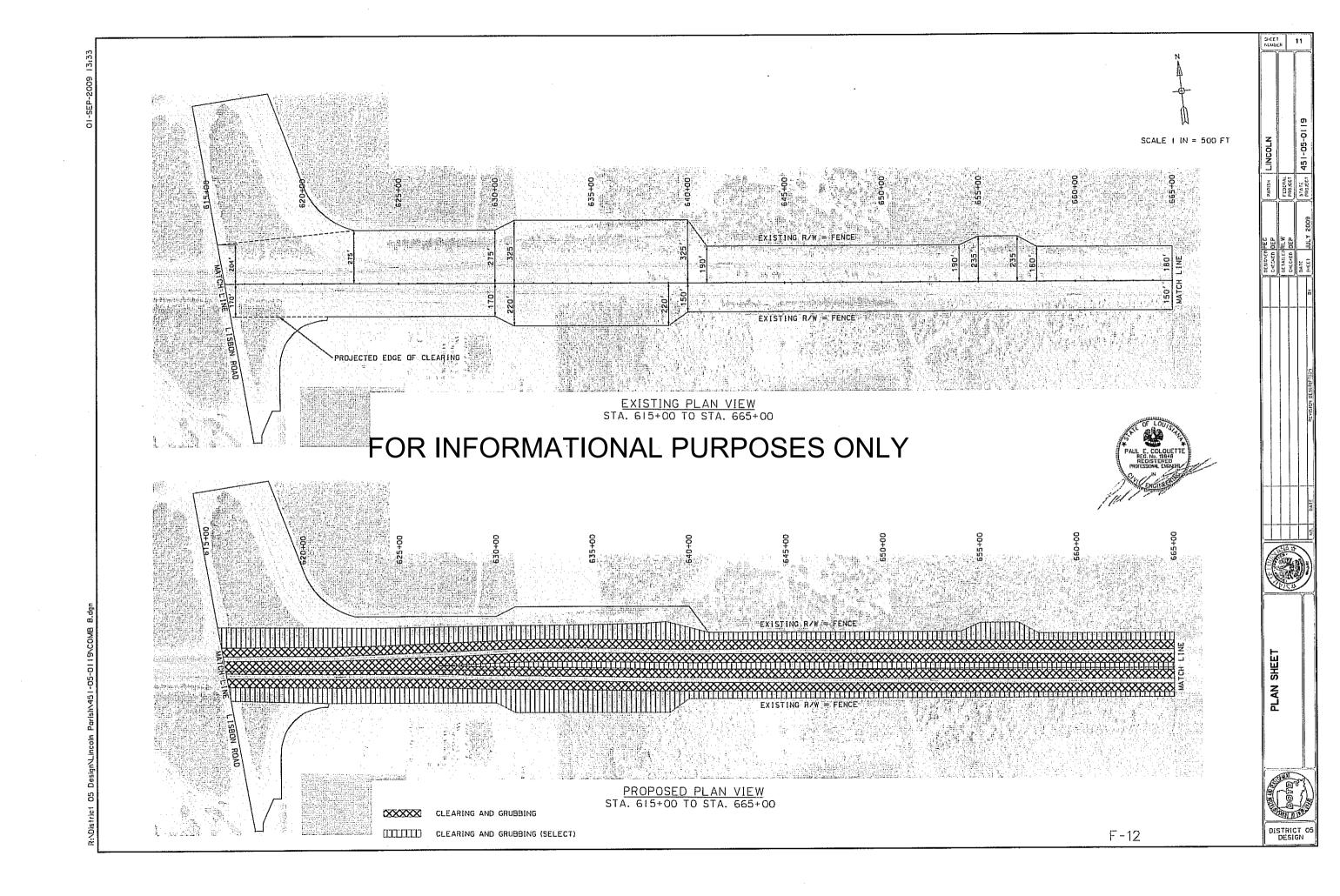


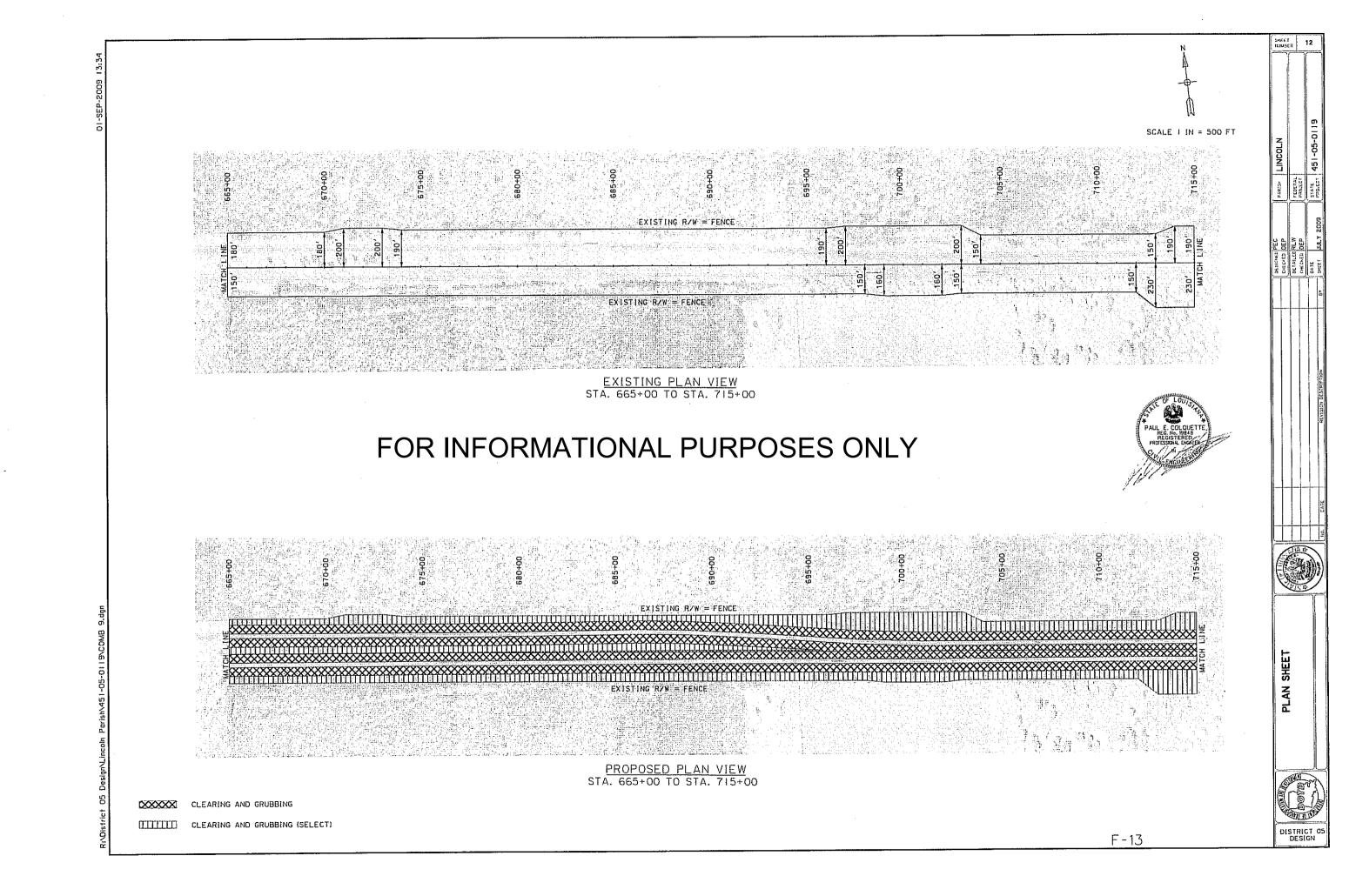


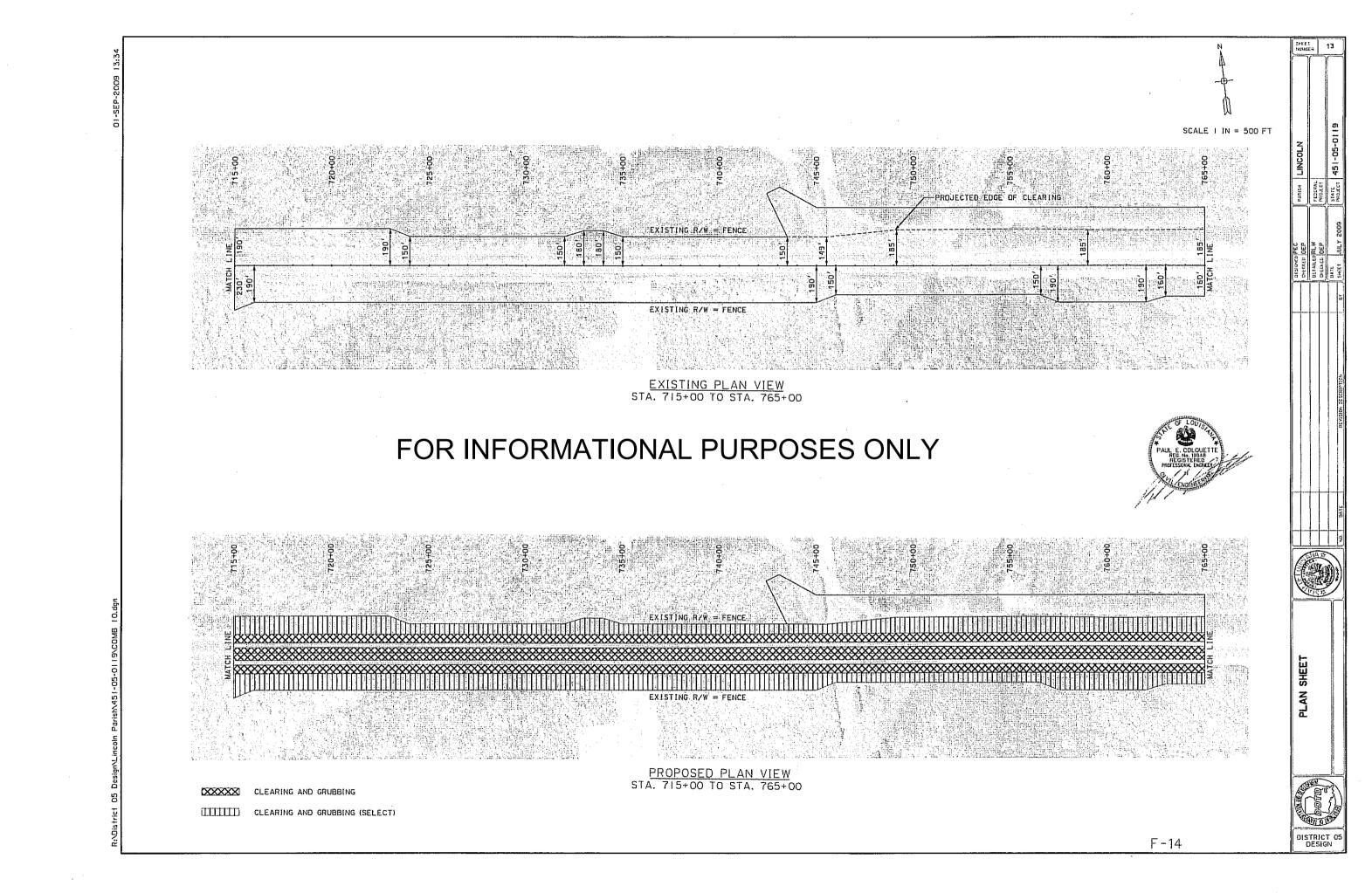


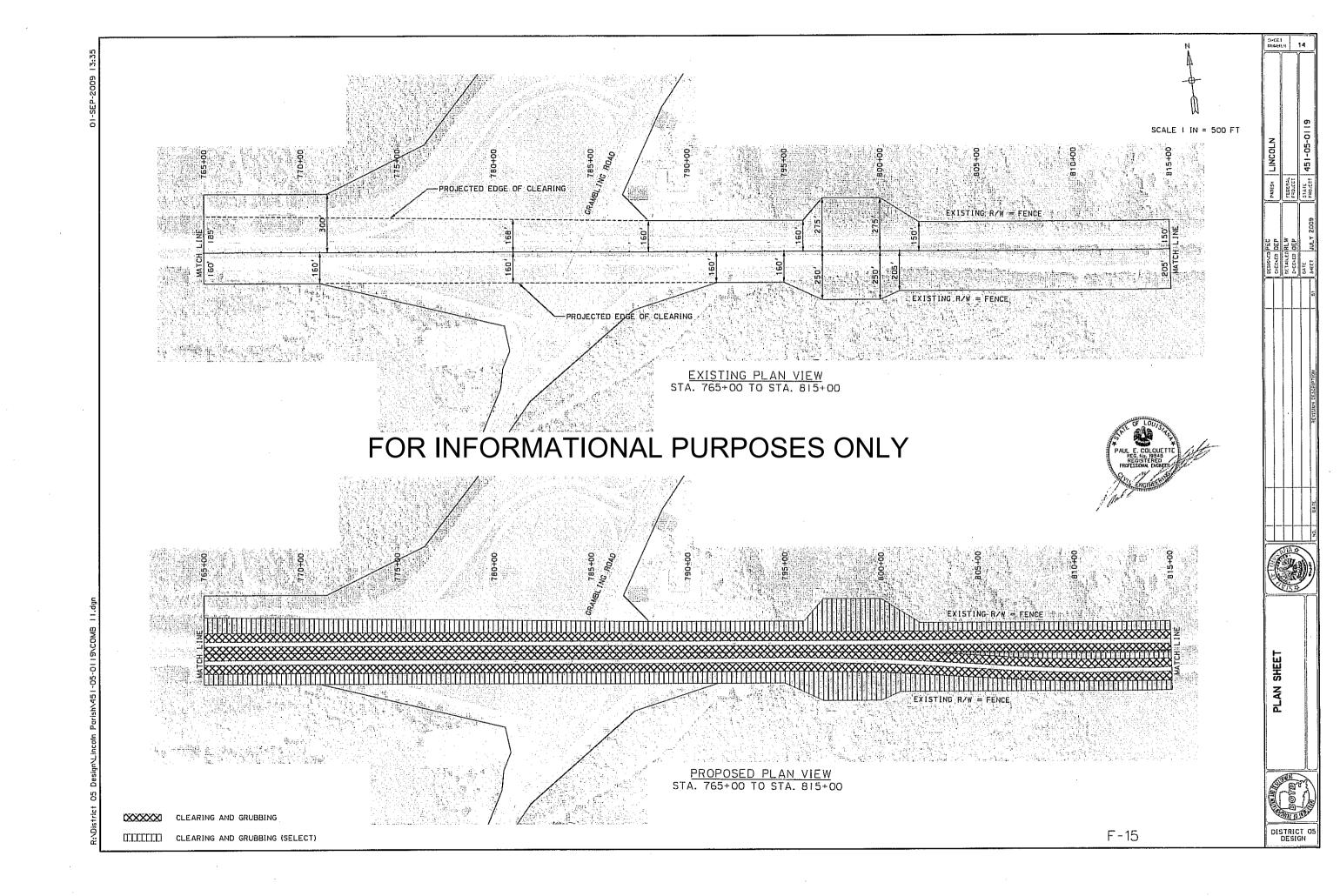


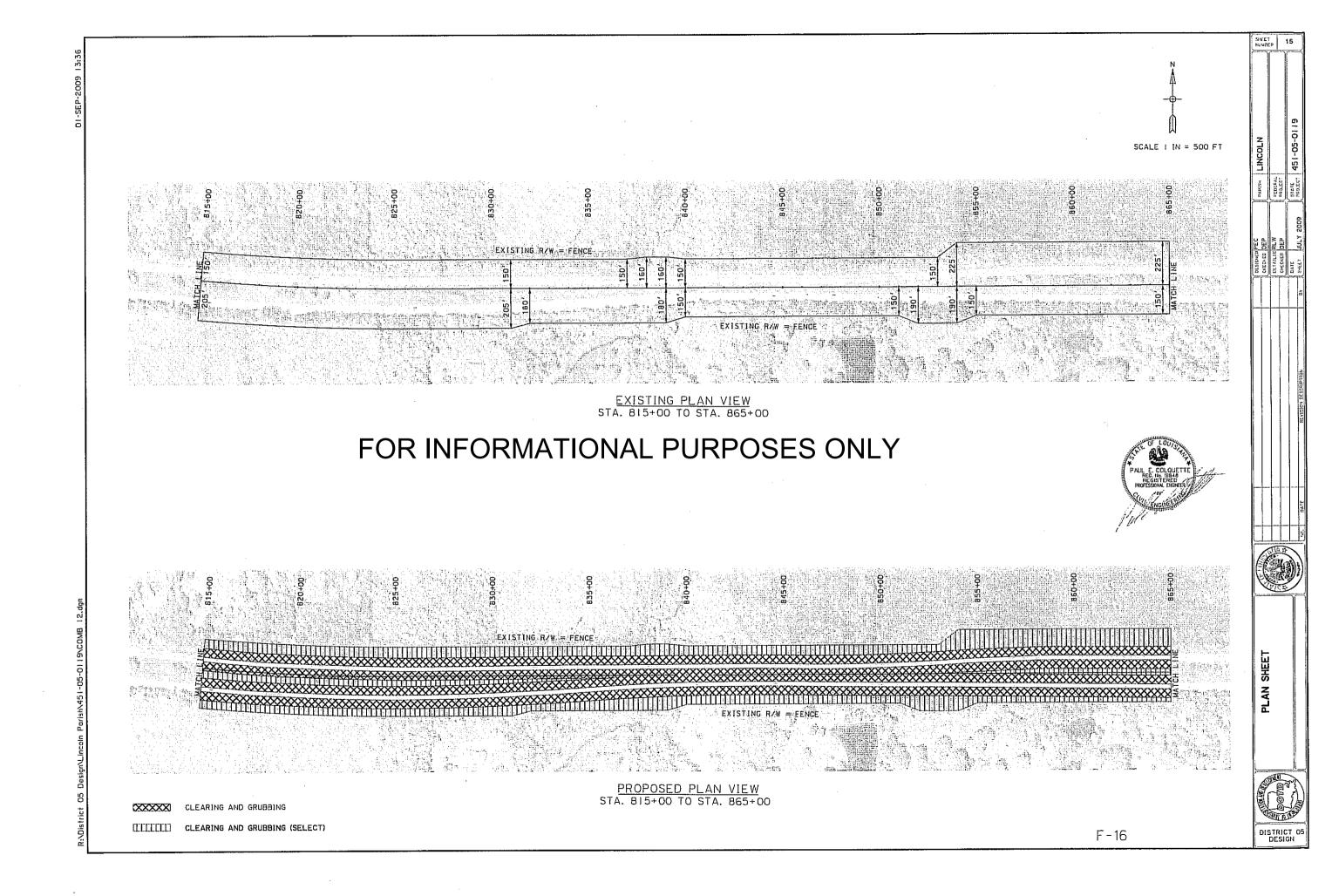


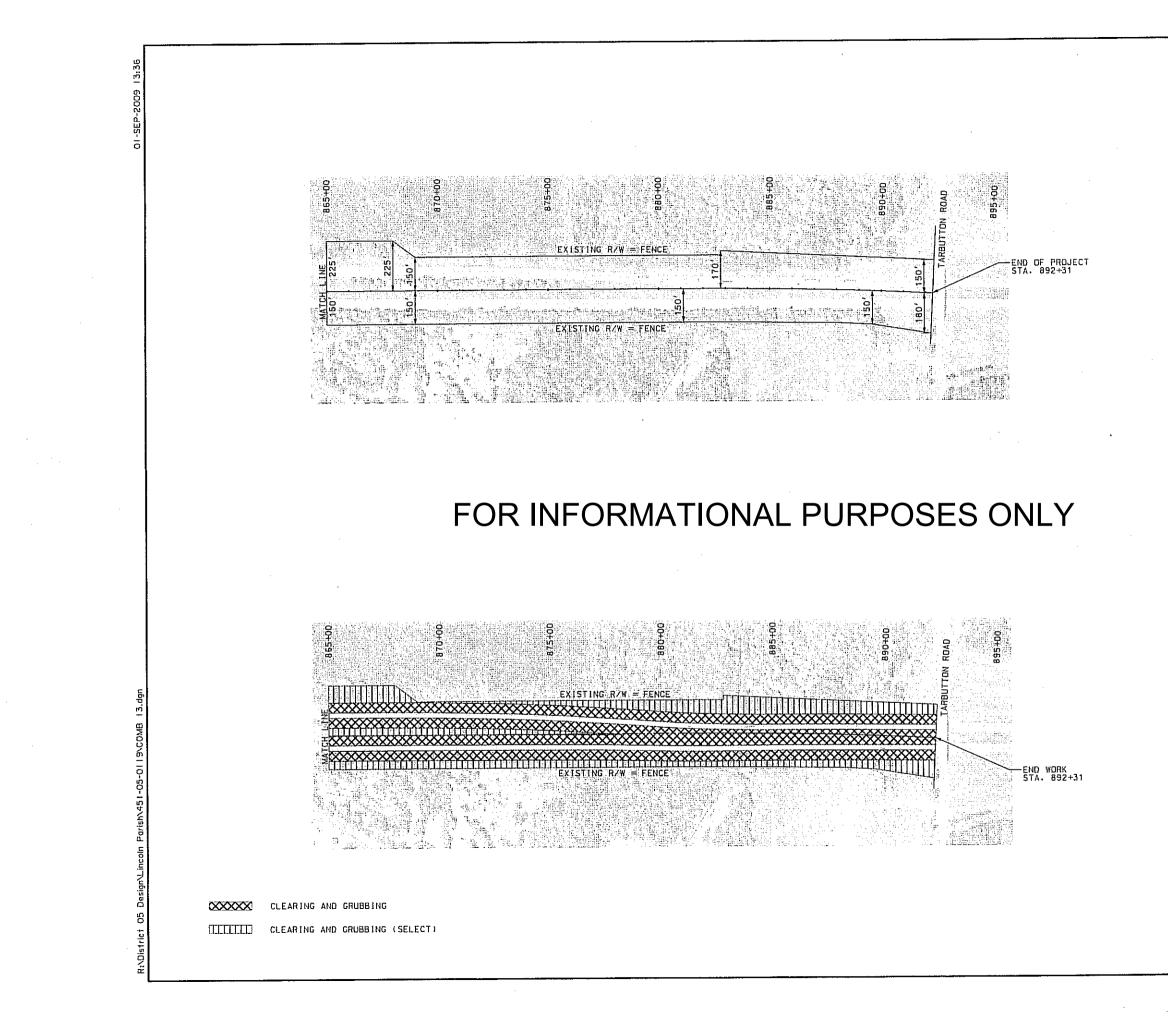


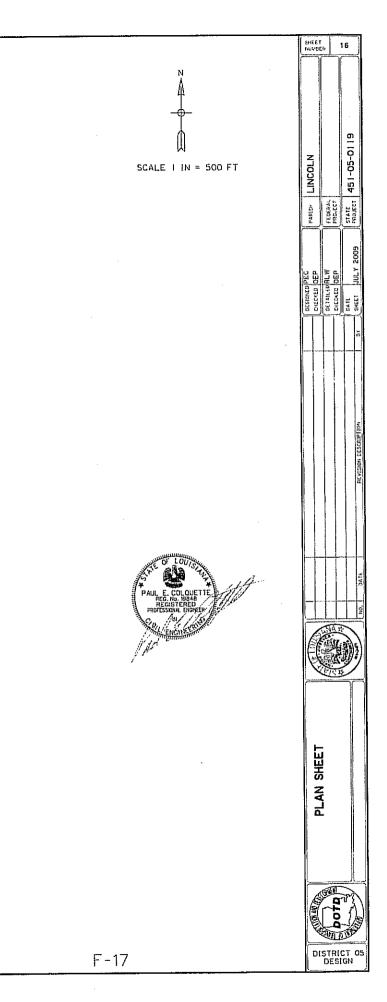












GENERAL PROVISIONS

- All Temporary Traffic Control Devices used shall be in accordance with the LaDOTD Standard Specifications for Roads and Bridges, the Manual on Uniform Traffic Control Devices (MUTCD), and shall meet the National Cooperative Highway Research Program (NCHRP) 350 for Test Level 3 requirements.
- Materials used for Temporary Traffic Controls shall be in accordance with the LaDOTD Standard Specifications for Roads and Bridges and when applicable the LaDOTD Qualified Products List (QPL).
- No temporary traffic controls shall be erected without the approval of the Project Engineer and until work is about to begin, unless they are covered.
- No kane closures, lane shifts, diversions, or detours shall occur without the authorization of the Project 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.
- 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 District Traffic Operations Engineer (DTOE) shall serve as a technical advisor to the Project Engineer for all Traffic Control matters.
- "Road Work Next XX Miles" sign shall be required on all projects equal to or greater than 2 miles and located at the begining of the project unless otherwise noted. The distance on the sign shall be stated to the nearest whole mile. The sign shall be a minimum 36"X60" unless otherwise noted.
- Warning signs used for lone closures or lane shifts in which the roadway shall be returned to full public use within 12 hours or less may be placed on NCHRP350 approved portable sign frames.
- If the spacing on the plans need to be altered, the new spacings need to be approved by the Project Engineer.

SPEED LIMITS

- Speed limits shall be lowered by 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 law speed diversions;
 (C) workers present on the shoulder within 2' 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 ariginal speed limit before construction shall be installed.
- If conditions warrant, the District Traffic Operations Engineer may authorize the reduction of the speed limit by more than 10 mph.

PAVEMENT MARKINGS (see OPL)

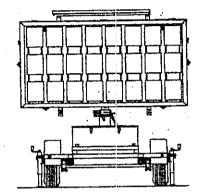
- All pavement markings within the limits of the project that are in conflict with the project signing or the required traffic movements shall be removed from the pavement by blast cleaning or grinding (Existing striping shall not be painted over with black paint or covered with tape).
- If special pavement 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 713 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 Traffic Control (TC) details and the MUTCD. Signs shown in the TC 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 District Traffic Operations 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 porticular operation be left in place once the operation has been completed or where the obstacle has been removed.
- Signs over 10 sq ft sholl be mounted on two post and signs over 20 sq ft shall be mounted on at least three post.
- Signs shall have a minimum of two balts per past.
 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
- Warning signs used for temporary frame controls shall meet the following guidelines unless otherwise noted in the plans:
 (A) size shall be 48" x 48", (B) see the Departments Standard Specifications and the QPL for sheeting information, (C) a minimum of a 2 to U-Channel post shall be used driven to a minimum depth of 3', (D) sign height shall be a minimum of 5' above the roadway surface unless there is a concern for pedestrians or bicycle traffic in which it shall be a minimum of 7', (E) lateral distance of signs shall be a minimum of 6' from the edge of shoulder or edge of pavement if no shoulder exist and 2' from the back of curb in urban greas.
- Vinyl Roll Up signs will be allowed for short term (less than 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 DOTD signs domaged by work operations shall be replaced.

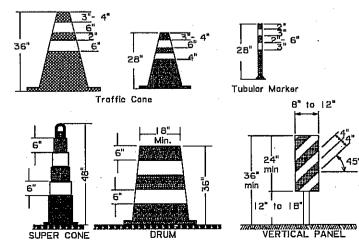
PORTABLE CHANGEABLE MESSAGE SIGNS

- When working within the traveled way, including shoulders and auxillary 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 20,000 and should be delineated with retroreflective TTC devices. CMS will be paid for by each.
- 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 2 miles in advance of the taper for interstates and to be determined by the Engineer on other highways.
- If vehicles are queing beyond the 2 mile CMS, an additional CMS should be placed on the right hand side of the road approximately 5 miles in advance of the taper for interstates.
- CMS messages shall be approved by the District Traffic Operations Engineer (DTOE).
- When Portable Changeable Message signs are not being used, they should be removed; if not removed, they should be shielded by guardrall or barriers; or if the previous two options are not feasible, they should be delineated with retroreflective TTC devices.



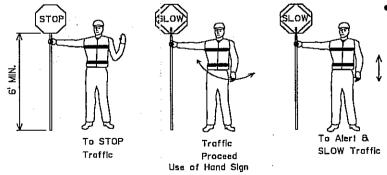
CHANNELIZING DEVICES

- The following devices may be used: Tubular Markers, Vertical Panels, Cones, Drums, and Super Cones. Drums (at standard spacing) and Super Cones (atl/2standard spacing) are the only devices allowed to be used in taper areas on the interstate system during daylight hours. Only drums can be used in tapers during night operations.
- The spacing of channelizing devices in a taper should not exceed a distance in feet equal to 1.0 times the posted speed limit in mph (with a maximum of 50 feet).
- The spacing of channellzing devices in a tangent should not exceed a distance in feet equal to 2.0 times the posted speed limit in mph (with a maximum of 100 feet) unless otherwise noted.
- Retroreflective material pattern used on super cones shall match that used on drums.
- 28" traffic cases are not allowed on: 1) Interstates, 2) Highways with speeds greater than 40 mph. During night time operations: 1) 28" and 36" cones are not allowed, 2) drums are the only device allowed in the taper.



for training or assuring that all flaggers are qualified to perform flagging duties. A Qualified Flagger is one that has completed courses such as those offered by the American Traffic Safety Services Association (ATSSA), The Associated General Contractors of America (AGC) or other courses approved by the Louisiana DOTD's Work Zone Task Force. The contractor shall be responsible for getting the flagger course approved.

When utilized, a flagger shall use a minimum 18 inch octagonal shope sign on a minimum 6' stop/slow padale and wear ANSI Class 2 Lime Green vest during day time operations and ANSI Class 3 Lime Green ensemble during night operations. In all flagging operations, the flagger must be visible from the flagger advance warning sign.



TYPE III BARRICADES

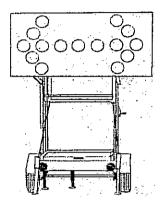
- All barricades shall use Type 3 High Intensity Sheeting on both sides of the barricade.
- All Type III Barricades shall be a minimum of 8 feet in length and must meet NCHRP 350 reculrements.
- When signs and lights are to be mounted to a barricade, they must meet NCHRP 350 requirements.

MUTCD Website: http://mutcd.fhwa.dot.gov/

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FLASHING ARROW PANELS

- Flashing Arrow Panels shall be used for lone closures on all facilities with 2 or more lanes in a single direction and a speed limit greater than 35 mph.
- When used, flashing arrow panels should be located on the shoulder at the beginning of the laper.
 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 used on high speed roadways (45 mph and greater) shall be 4' x 8' Type C.
- When Flashing Arrow Panels signs are not being used, they should be removed; if not removed, they should be shielded by guardrall or barriers; or if the previous two options are not feasible, they should be delineated with retroreflective TTC devices.



LIGHTING (see QPL)

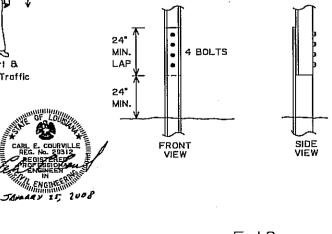
When used for overnight closures, lighting shall supplement all barricodes that are placed in a closed iane or that extend across a highway. Two Type B High intensity lights shall be used per iane closed in rural areas. In urban areas two Type A Low intensity Lights may be used where adequate ambient lighting is available.

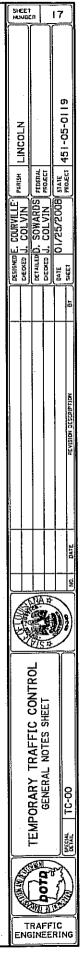
 One Type B High intensity light shall be used to supplement the first sign (or pair of signs) that gives warning about a lane closure during night time operations.

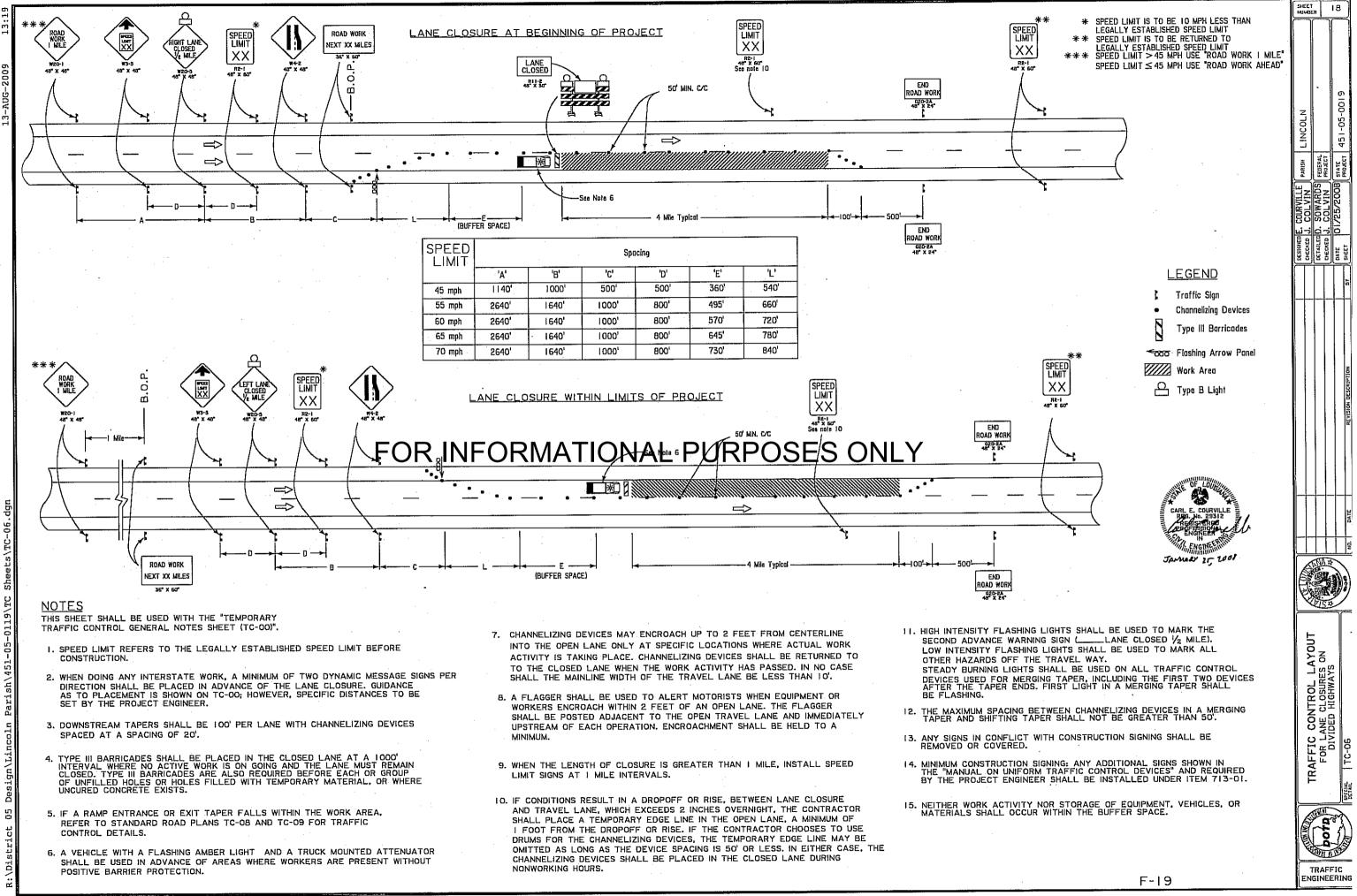
 Type C steady burn lights shall be used on all channelizing devices in the toper as well as the first two devices in the tangent, for night use.

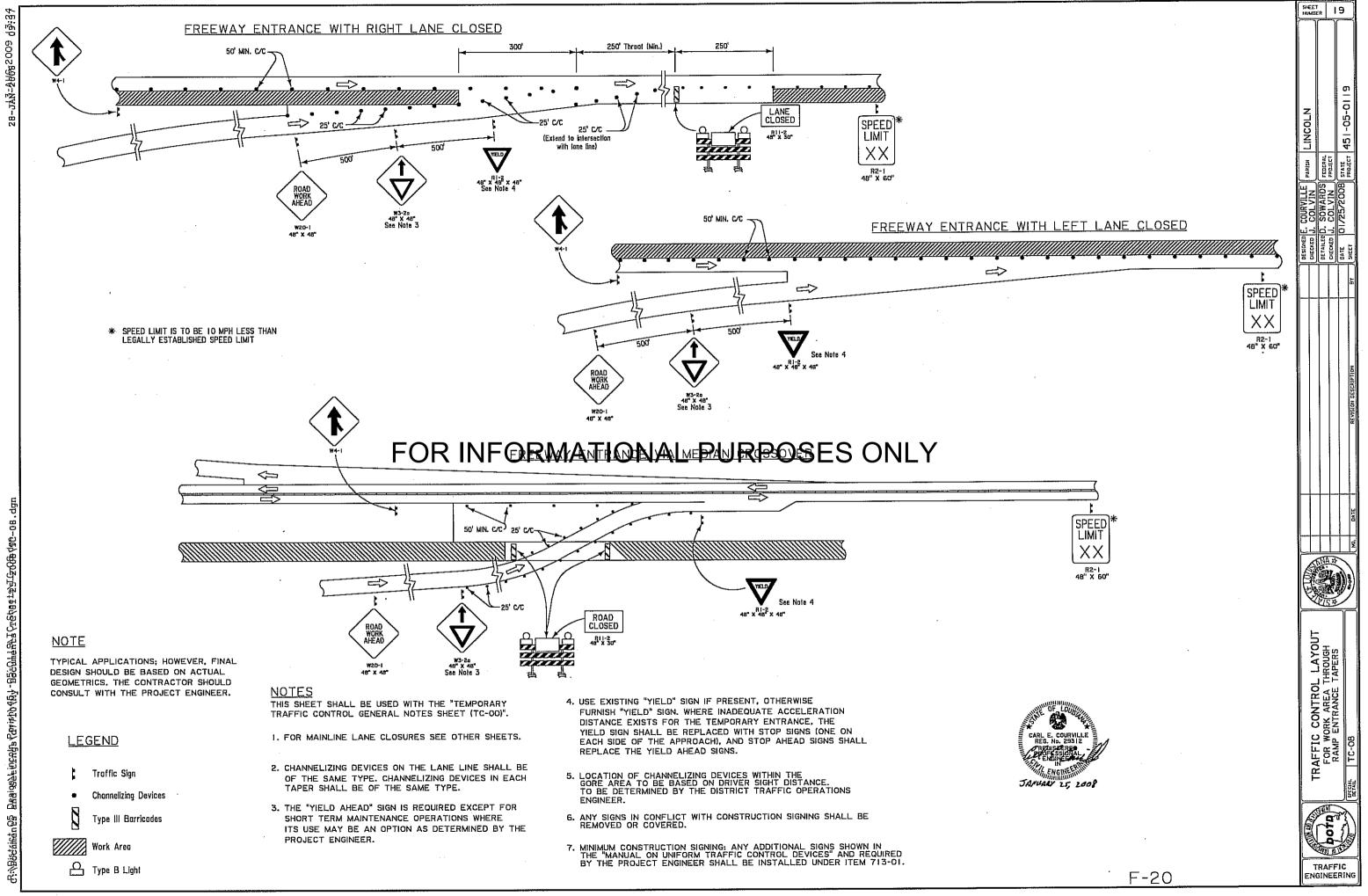
ALLOWABLE LAP SPLICE FOR U-CHANNEL POST

• U-Channel posts may be spliced where long lengths are required. The upper section shall overlap the lower section by at least 24 inches. The bottom edge of the upper section of the splice shall be a minimum of 24 inches above the ground. The spliced sections shall be secured with at least four \$\mathcal{F}_{\mathcal{B}}\$ inch diameter hex bolts spaced equally along the splice.





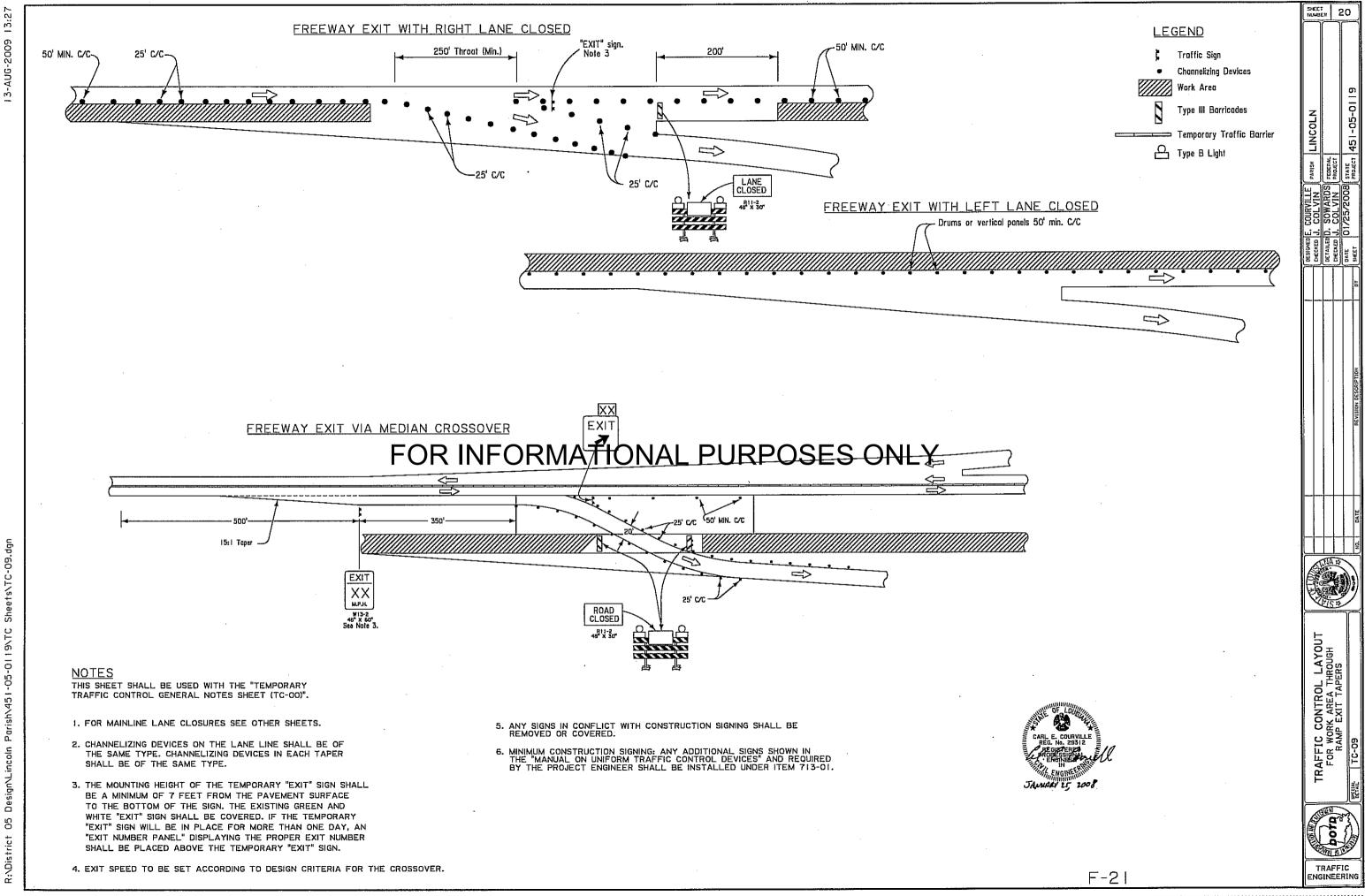




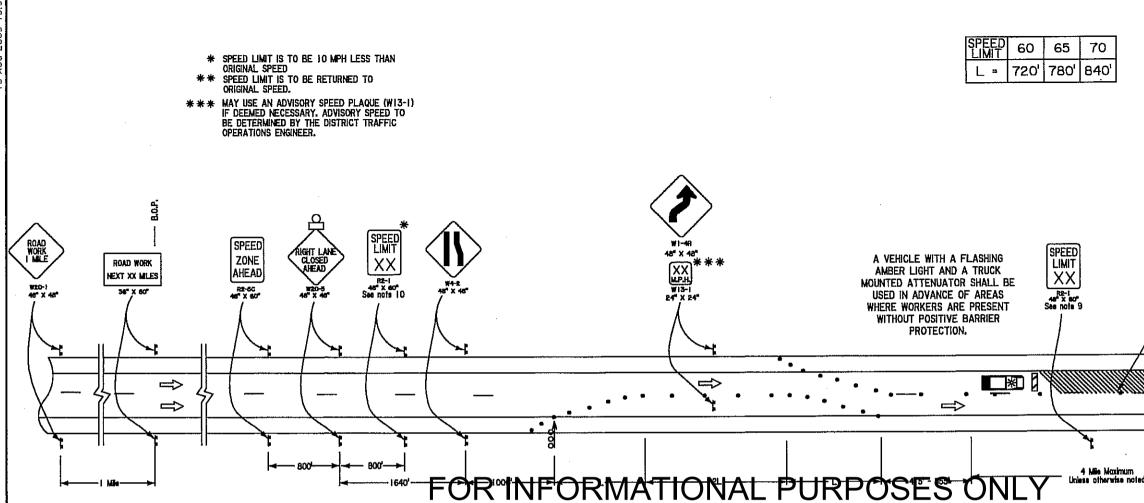
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NOTES

THIS SHEET SHALL BE USED WITH THE "TEMPORARY TRAFFIC CONTROL GENERAL NOTES SHEET (TC-00)".

- I. WHEN DOING ANY INTERSTATE WORK, OR THE AVERAGE DAILY TRAFFIC (ADT) EXCEEDS 20,000 VEHICLES PER DAY OR WHEN THE TRAFFIC QUEUES BEYOND THE ADVANCED SIGNING, A MINIMUM OF TWO CMS SIGNS PER DIRECTION SHALL BE PLACED IN ADVANCE OF THE LANE CLOSURE. GUIDANCE AS TO PLACEMENT IS SHOWN ON TC-OO; HOWEVER, SPECIFIC DISTANCES TO BE SET BY THE PROJECT ENGINEER.
- 2. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A MERGING TAPER AND SHIFTING TAPER SHALL BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT BEFORE ROAD WORK.
- 3. TYPE III BARRICADES SHALL BE PLACED IN THE CLOSED LANE AT A 1000' INTERVAL WHERE NO ACTIVE WORK IS ON GOING AND THE LANE MUST REMAIN CLOSED. TYPE III BARRICADES ARE ALSO REQUIRED BEFORE EACH OR GROUP OF UNFILLED HOLES OR HOLES FILLED WITH TEMPORARY MATERIAL, OR WHERE UNCURED CONCRETE EXISTS.
- 4. IF A RAMP ENTRANCE OR EXIT TAPER FALLS WITHIN THE WORK AREA, REFER TO STANDARD ROAD PLANS TC-08 AND TC-09 FOR TRAFFIC CONTROL DETAILS.
- 5. A FLAGGER SHALL BE USED TO ALERT MOTORISTS WHEN EQUIPMENT OR WORKERS ENCROACH WITHIN 2 FEET OF AN OPEN LANE. THE FLAGGER SHALL BE POSTED ADJACENT TO THE OPEN TRAFFIC LANE AND IMMEDIATELY UPSTREAM OF EACH OPERATION. ENCROACHMENT SHALL BE HELD TO A MINIMUM.

- 6. A VEHICLE WITH A FLASHING AMBER LIGHT AND A TRUCK MOUNTED ATTENUATOR SHALL BE USED IN ADVANCE OF AREAS WHERE WORKERS ARE PRESENT WITHOUT POSITIVE BARRIER PROTECTION.
- 7. UNDER NORMAL CLOSURE CONDITIONS, DEVICES SHOULD BE PLACED 2' FROM CENTERLINE INTO THE CLOSED LANE. CHANNELIZING DEVICES MAY ENCROACH UP TO 2' FROM CENTERLINE INTO THE OPEN LANE ONLY AT SPECIFIC LOCATIONS WHERE ACTUAL WORK ACTIVITY IS TAKING PLACE. CHANNELIZING DEVICES SHALL BE RETURNED TO THE CLOSED LANE WHEN THE WORK ACTIVITY HAS PASSED. IN NO CASE SHALL THE MAINLINE WIDTH OF THE TRAVEL LANE BE LESS THAN 10'.
- 8. WHEN THE LENGTH OF CLOSURE IS GREATER THAN I MILE, INSTALL SPEED LIMIT SIGNS AT I MILE INTERVALS.
- 9. THE REDUCED SPEED LIMIT REPRESENTS A MAXIMUM SPEED DROP OF 10 MPH FROM THE LEGALLY ESTABLISHED SPEED LIMIT.
- FOR LANE-LINE DROPOFF OR RISE:
- IO. IF CONDITIONS RESULT IN A DROPOFF OR RISE WHICH EXCEEDS 2" OVERNIGHT. THE CONTRACTOR SHALL PLACE A TEMPORARY EDGE LINE IN THE OPEN LANE, A MINIMUM OF 1' FROM THE DROPOFF OR RISE. IF THE CONTRACTOR CHOOSES TO USE DRUMS FOR THE CHANNELIZING DEVICES, THE TEMPORARY EDGE LINE MAY BE OMITTED AS LONG AS THE DRUM SPACING IS 50'. IN ETHER CASE, THE CHANNELIZING DEVICES SHALL BE PLACED IN THE CLOSED LANE DURING NONWORKING HOURS.

- OTHER HAZARDS OFF THE TRAVEL WAY. BE FLASHING.

