NEW ORLEANS REGIONAL TRANSIT AUTHORITY INTERIM DOWNTOWN

INDEX OF SHEETS

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STAKEHOLDERS INFO.

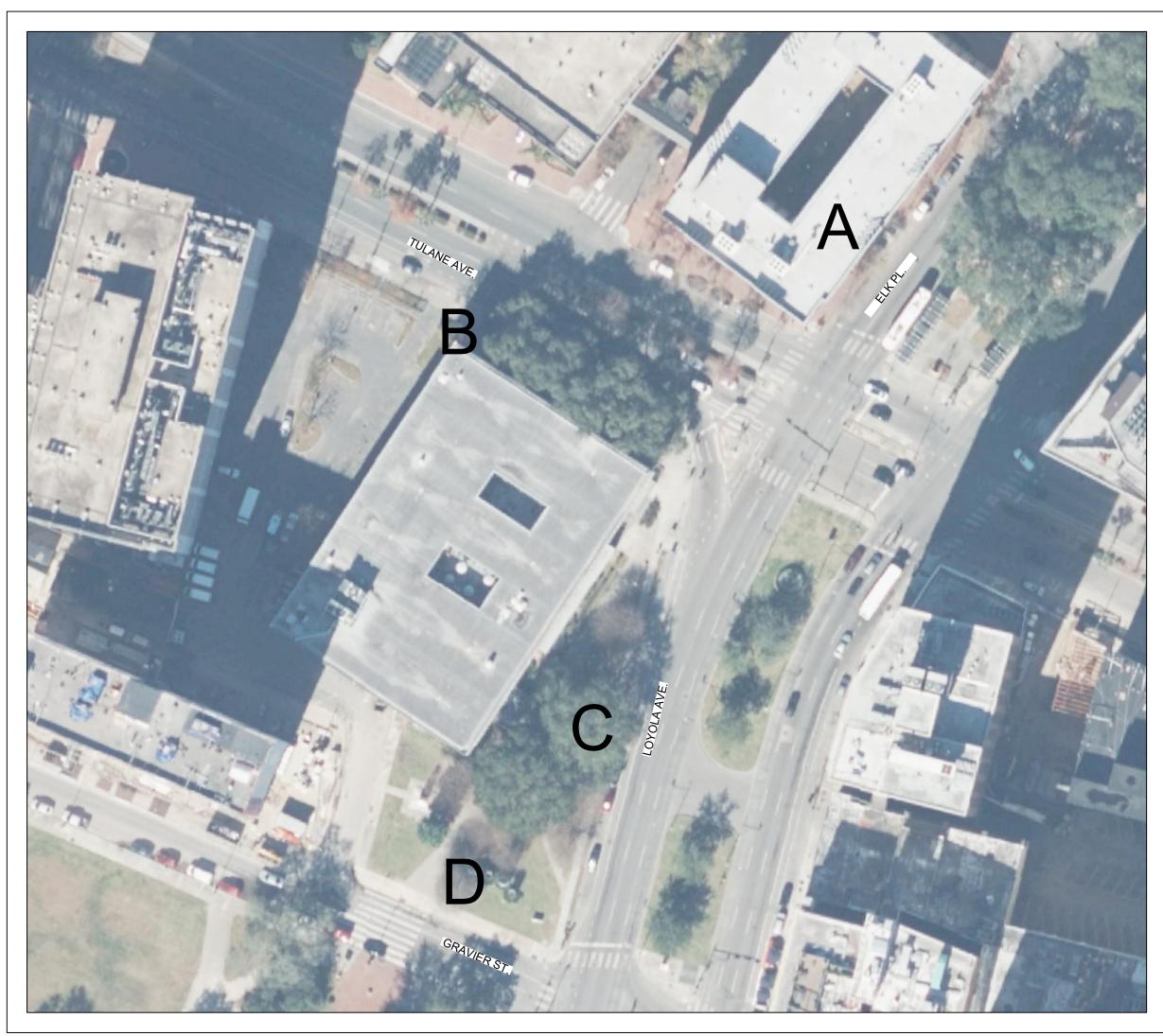
NEW ORLEANS REGIONAL TRANSIT AUTHORITY (RTA)

2817 CANAL STREET NEW ORLEANS, LA 70119 (504) 248-3900

CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS (DPW) 1300 PERDIDO STREET SUITE 6W03 NEW ORLEANS, LA 70112 (504) 658-8040

NEW ORLEANS PUBLIC LIBRARY (NOPL) 5120 SAINT CHARLES AVENUE NEW ORLEANS, LA 70115 (504) 596-2625

TULANE UNIVERSITY 6823 SAINT CHARLES AVENUE NEW ORLEANS, LA 70118 (504) 865-5000



TRANSIT HUB - PHASE 2

JANUARY 2024 CONSTRUCTION DRAWINGS

RTA INTERIM

SITE A: EL SITE B: TU BU SITE C: LO TH

SITE D: GR

APPROVED BY



VICINITY MAP SCALE: 1" = 60'

		iect N 390			et No.: -100
		NEW ORLEANS R'I'A	INTERIM DOWNTOWN TRANSIT HUB – PHASE 2		TITLE SHEET
	REVISIONS				
	DATE				
	NO.				
DOWNTOWN TRANSIT HUB K PLACE FOR NEW ORLEANS EAST BUSSES JLANE AVENUE (RIVERBOUND) FOR WESTBANK JS ROUTES OYOLA AVENUE FOR GENTLLY/MIDCITY AND IROUGH ROUTES RAVIER STREET		C H , I N C .		CONSULTING ENGINEERS 8383 BLUEBONNET BLVD. BATON ROUGE, LA. 70810	PHONE: (225)766-5358 FAX: (225)766-5879
JOHN F. SCHEXNAYDER REG. No. 33284 REGISTERED PROFESSIONAL ENGINEER	DR,	SIGNE AWN:			JFS HJS
REG. No. 33284 REGISTERED PROFESSIONAL ENGINEER	API	ECKE PROV ALE:	'ED:		JAW JFS
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JANUARY	26,	202



CONTRACTOR TO MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS.

CONCRETE REMOVAL NOTES

- 1. EXISTING CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED ACCORDING TO THE PLAN.
- 2. CONCRETE REMOVAL INCLUDES REMOVING PAVEMENT AND ANY UNDERLYING **ORGANIC MATERIAL.**
- CONTRACTOR IS RESPONSIBLE FOR HAULING OFF ALL REMOVED MATERIALS AND DEBRIS.
- CONTRACTOR TO ENSURE PROTECTION OF OAK TREES DURING CONCRETE REMOVAL 4. WORK. NO CONSTRUCTION EQUIPMENT IS TO BE DRIVEN OVER OAK TREE ROOTS.
- CONTRACTOR TO CONTACT CITY ON NEW ORLEANS DEPARTMENT OF PARKS & 5. PARKWAYS ARBORIST DANIEL MCELMURRY AT 504-658-3225 FOR COORDINATION OF WORK AROUND OAK TREES.

REMOVE EXISTING CONCRETE 4,657 SF

BUS SHELTER PAD (CONSTRUCTED IN PHASE 1)

- L L L ())

9. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS

-0.1

10. USE OF EXPLOSIVES WILL NOT BE PERMITTED.

11. USE WATER MIST, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS.

12. DO NOT CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ICE, FLOODING, AND POLLUTION WHEN USING WATER. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.

13. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO

14. DO NOT BURN DEMOLISHED MATERIALS. HAUL OFF AND DISPOSE. CONTRACTOR IS REASONABLE FOR ALL DUMPING AND WASTE DISPOSAL COSTS.

15. CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS DURING DEMOLITION ACTIVITIES AND SHALL NOT INCREASE FLOODING POTENTIAL TO SURROUNDING AREAS OR FACILITIES.

16. CONTRACTOR TO ENSURE THAT NO DIRT, MUD, DEBRIS, OR OTHER POLLUTION IS TRACKED THROUGH PARKING LOT DURING CONSTRUCTION.

(D)DRAIN MH -Ò-FIRE HYDRANT GENERAL LIGHT GAS METER GAS VALVE MECHANICAL POINT POWER TRANSFORMER POWER VAULT POWERPOLE SEWER MANHOLE SEWER CLEANOUT SIGN

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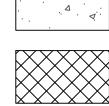
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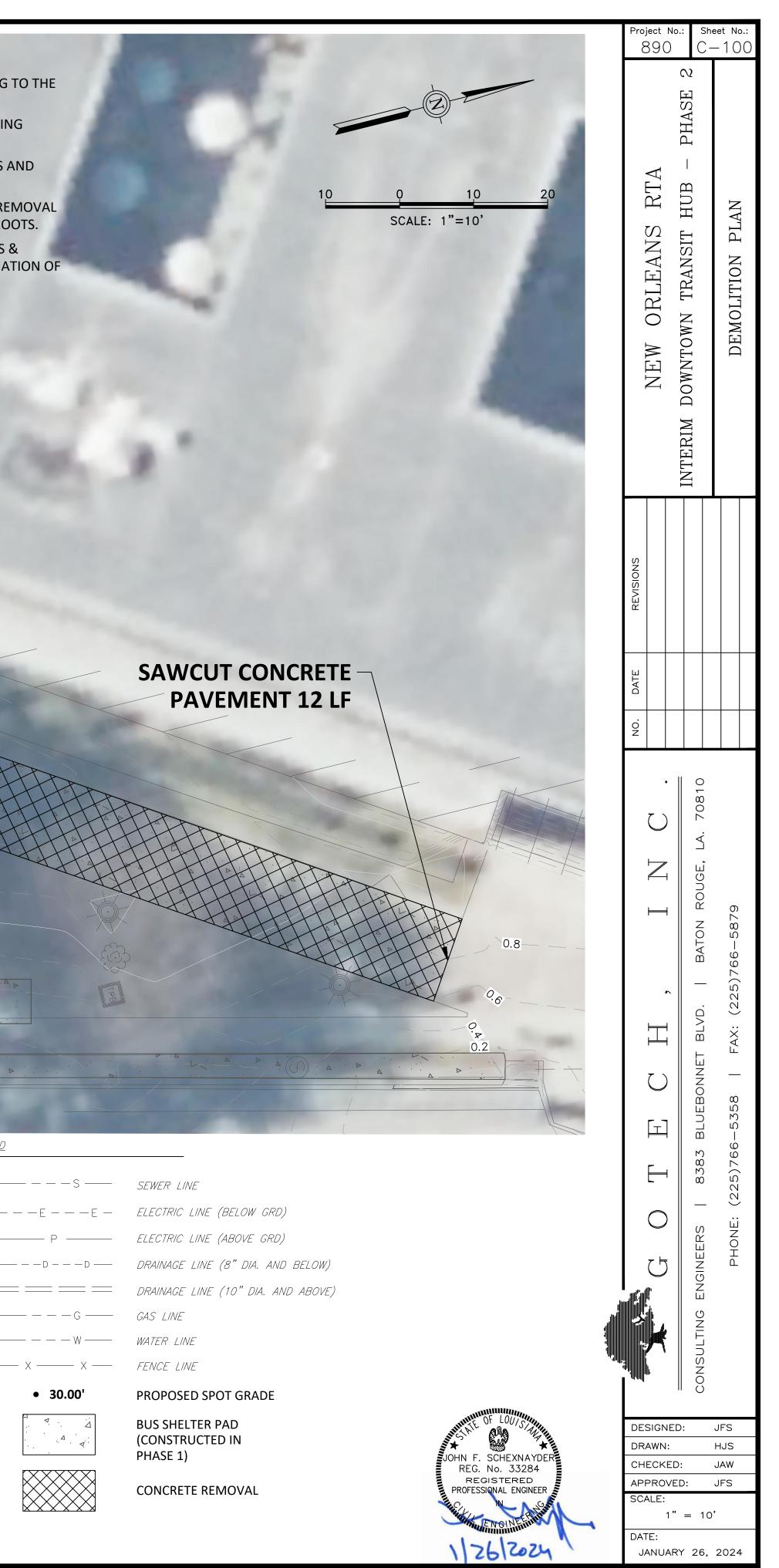
WATER VALVE

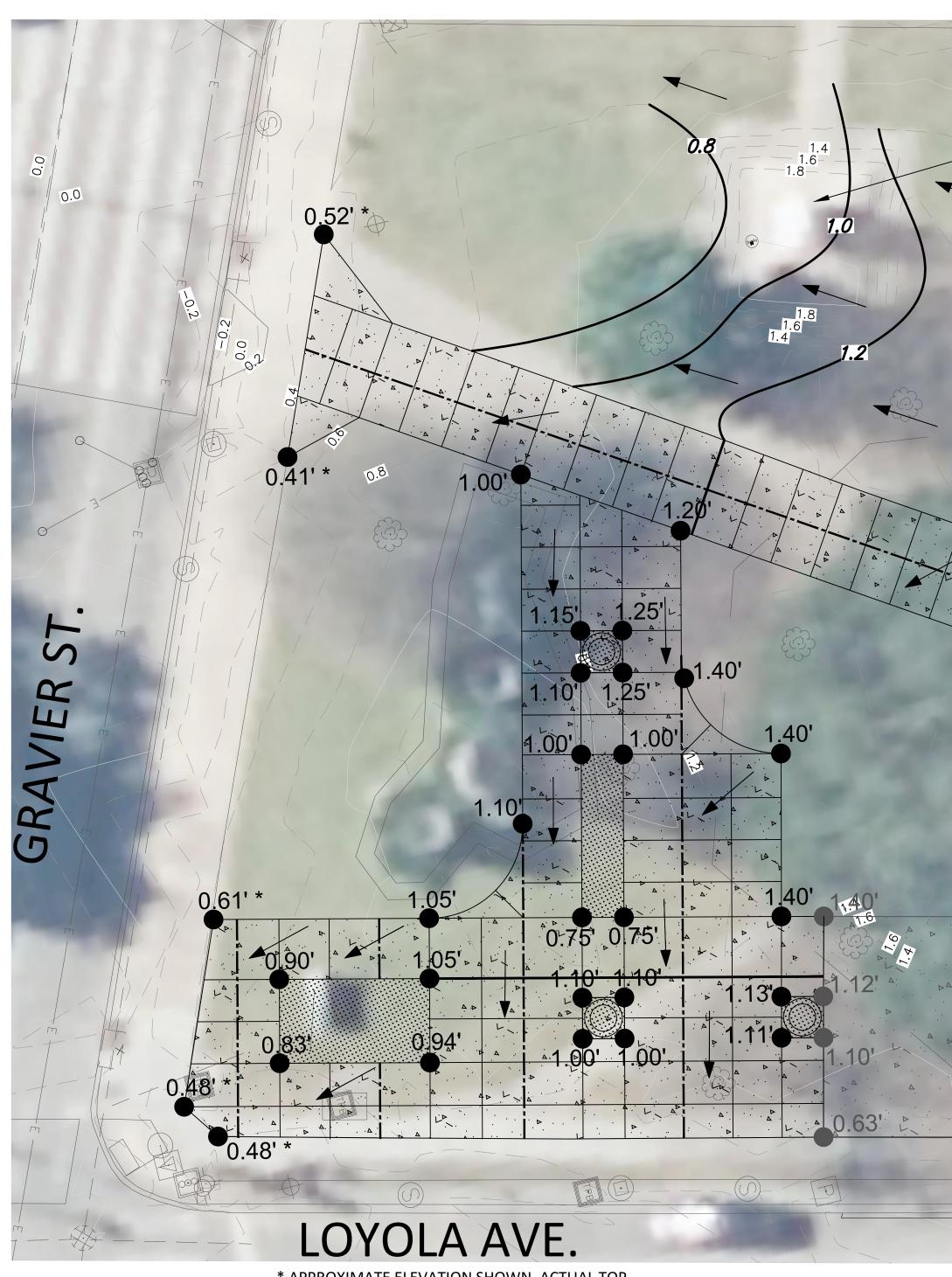
TREE



<u>LEGEND</u>

• 30.00'

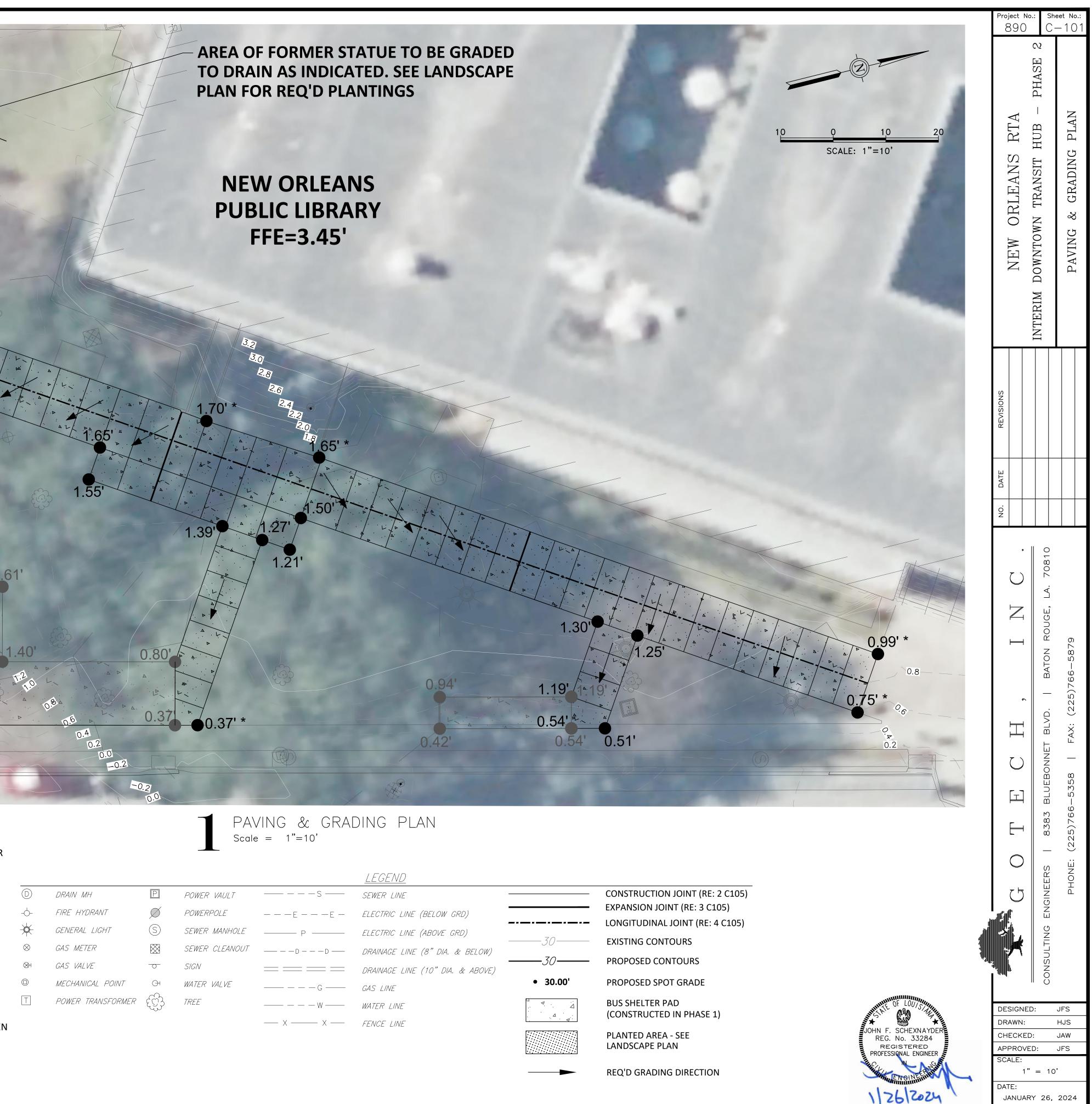




GRADING NOTES

* APPROXIMATE ELEVATION SHOWN. ACTUAL TOP OF PAVEMENT TO MATCH EXISTING BACK OF CURB.

- LOUISIANA LAW REQUIRES A MINIMUM OF 48 HOURS NOTICE TO UNDERGROUND UTILITY OWNERS BEFORE YOU PERFORM ANY DIGGING OR DEMOLITION AS REQUIRED BY THE "LOUISIANA UNDERGROUND FACILITIES DAMAGE PREVENTION LAW". CONTRACTORS SHALL CALL LOUISIANA ONE CALL AT 1-800-272-3020.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING UTILITIES WITHIN WORK AREAS PRIOR TO EXCAVATION.
- ALL PAVEMENT GRADES SHOWN ARE TOP OF CONCRETE UNLESS OTHERWISE NOTED.
- SLOPE OF PAVING SHALL NOT EXCEED 2%.
- ALL AREAS WITHIN PROTECT WORK AREA TO BE GRADED FOR POSITIVE DRAINAGE TO AN INLET.
- CONTRACTOR MUST HAVE WRITTEN APPROVAL FROM THE ENGINEER BEFORE ANY CHANGE IN DESIGN IS MAKE.
- ALL LANDSCAPED AND PLANTER AREAS ARE TO BE GRADED TO DRAIN ONTO CONCRETE PAVEMENT.
- CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE THROUGHOUT THE COURSE OF CONSTRUCTION. CONTRACTOR SHALL NOT CAUSE ANY INCREASE IN RISK OF FLOODING TO ANY SURROUNDING PROPERTIES DURING THE COURSE OF CONSTRUCTION.
- CONTRACTOR TO ENSURE PROTECTION OF OAK TREES DURING CONCRETE REMOVAL WORK. NO CONSTRUCTION EQUIPMENT IS TO BE DRIVE OVER OAK TREE ROOTS.
- 10. CONTRACTOR TO CONTACT CITY OF NEW ORLEANS DEPARTMENT OF PARKS & PARKWAY ARBORIST DANIEL MCELMURRAY AT 504-658-3225 FOR COORDINATION OF WORK AROUND OAK TREES.
- 11. ALL SIDEWALKS TO BE CONSTRUCTED PER CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS MISCELLANEOUS DETAILS FOR STREET CONSTRUCTION - MC1.



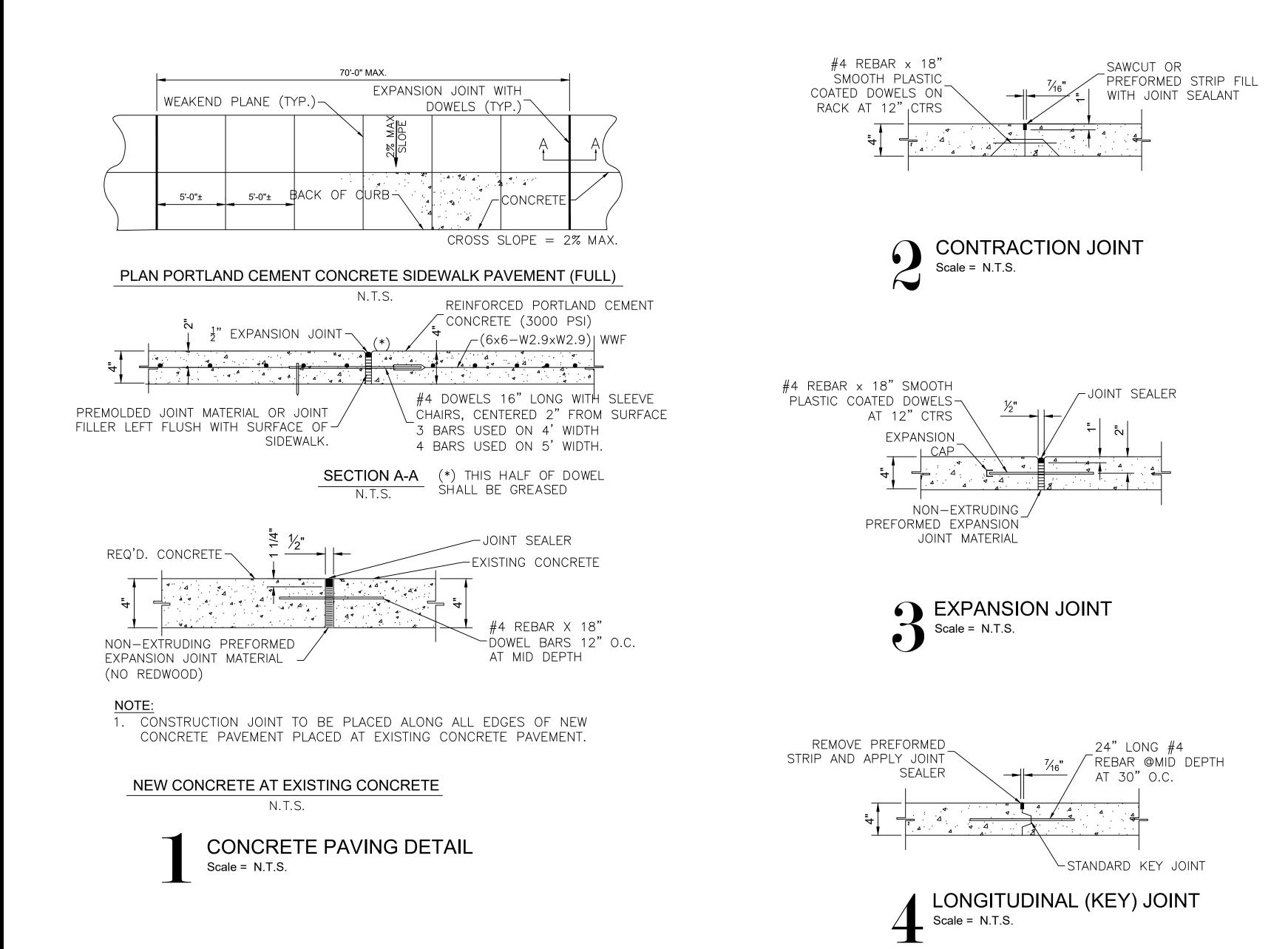
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	GENERAL LIGHT	S	SEWER MANHOLE	——— P ———	ELECTRIC LINE (ABOVE GRD)		LONGITU
\otimes	GAS METER	\bigotimes	SEWER CLEANOUT	DD	DRAINAGE LINE (8" DIA. & BELOW)		EXISTING
\bigotimes	GAS VALVE	-0-	SIGN		DRAINAGE LINE (10" DIA. & ABOVE)		PROPOSI
	MECHANICAL POINT	Э	WATER VALVE		GAS LINE	• 30.00'	PROPOSE
Τ	POWER TRANSFORMER	£G}	TREE		WATER LINE		BUS SHE
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JANUARY 26, 2024

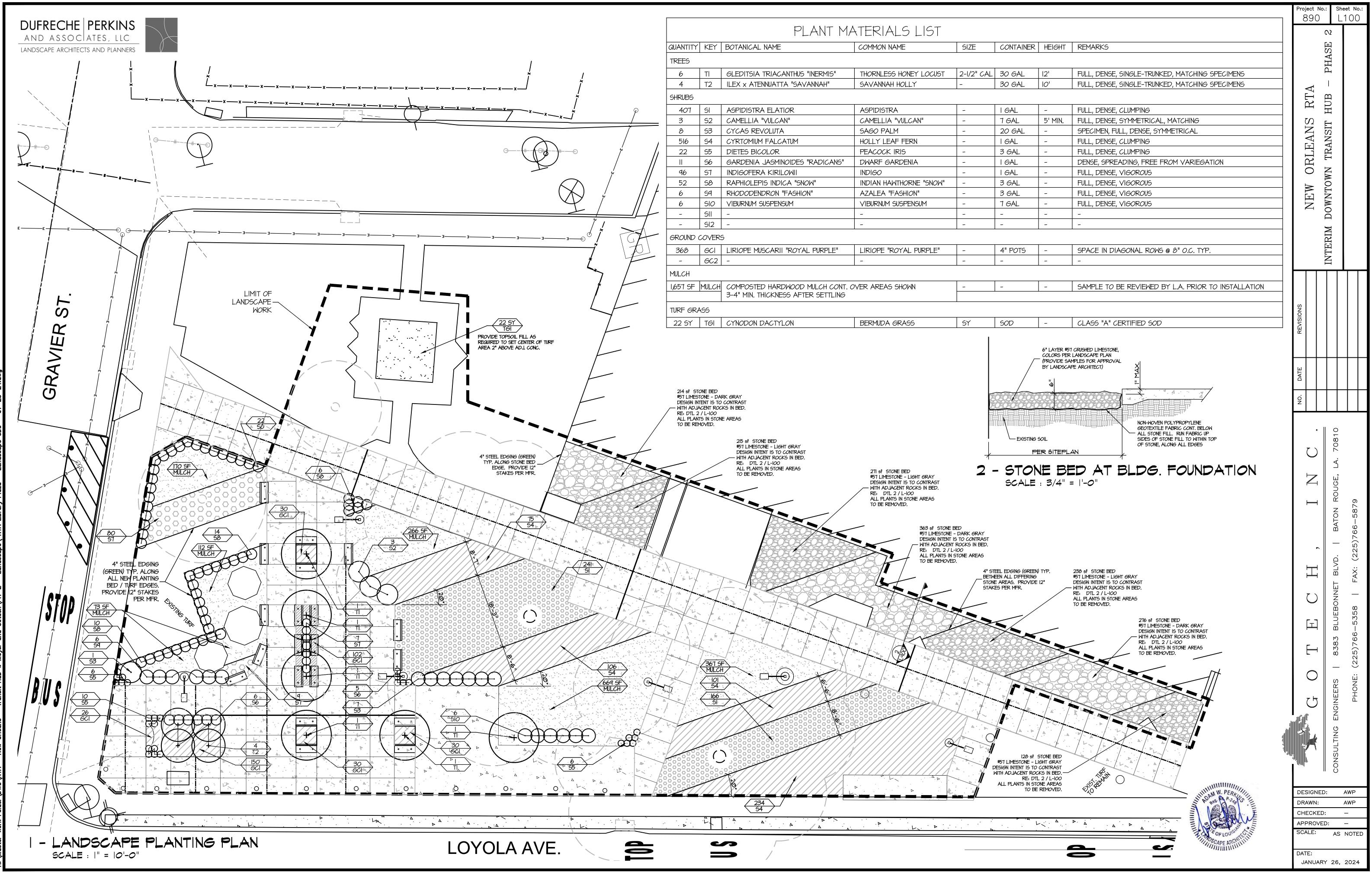




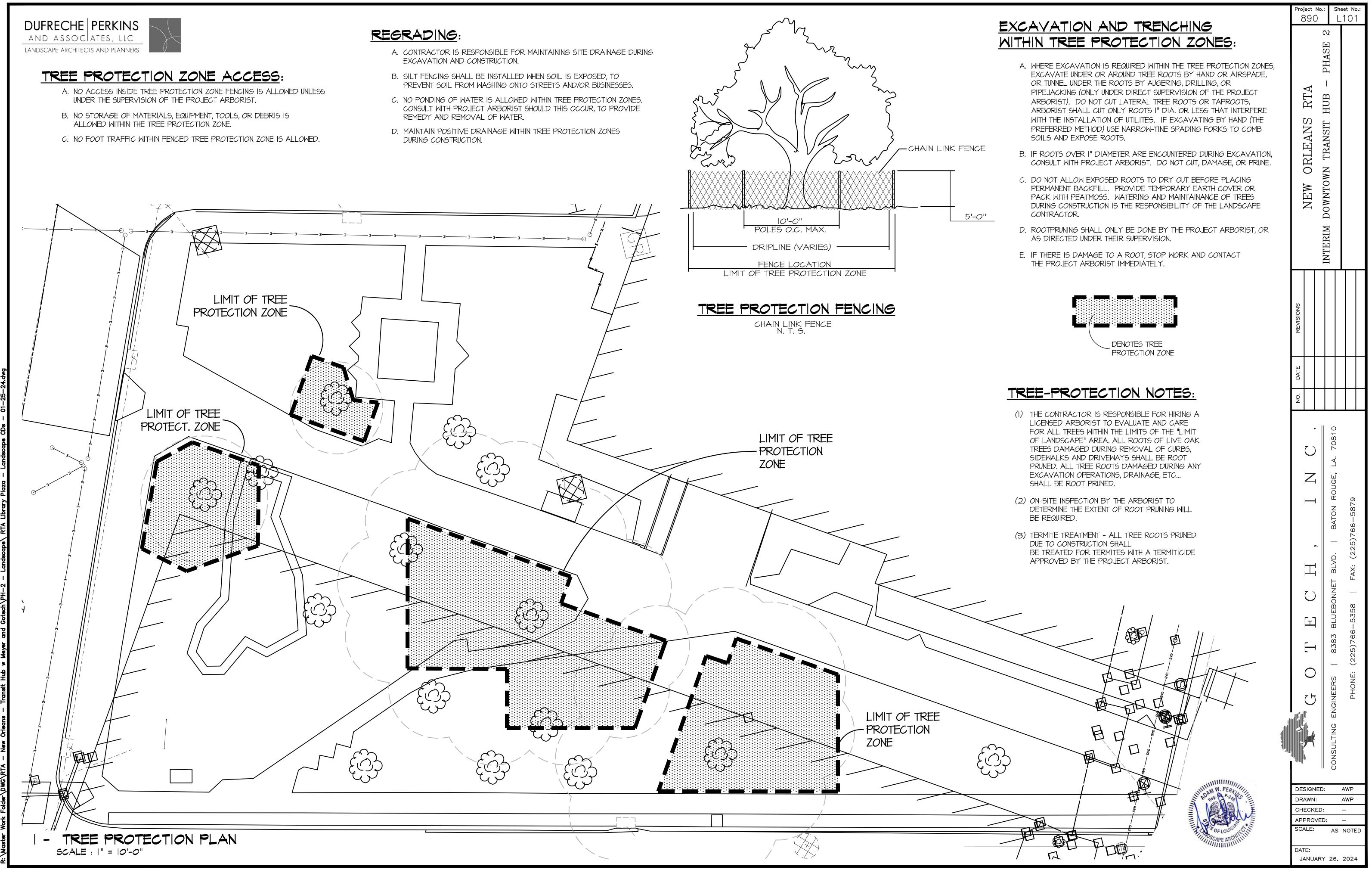
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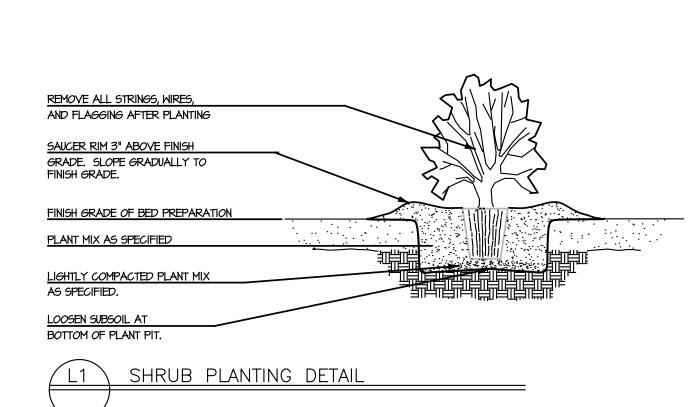


	INTERIM DOWNTOWN TRANSIT HUB - PHASE 2	C-103 CONSTRUCTION DETAILS
		NNEI BLVU. BAIUN RUUGE, LA. /UBIU FAX: (225)766-5879
JOHN F. SCHEXNAYDER REG. No. 33284 REGISTERED PROFESSIONAL ENGINEER		S S S S S S S S S S S S S S S S S S S



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SECTION 02900 - LANDSCAPING

I.I GENERAL

DUFRECHE PERKINS

and associates, llc

LANDSCAPE ARCHITECTS AND PLANNERS

A. Submittals: In addition to product certificates, submit the following:

I. Certification of grass seed from seed vendor for each seed mixture. 2. Planting schedule indicating anticipated dates and locations for each type of planting.

B. Quality Assurance: Provide trees, shrubs, ground covers, and plants of quality, size, genus, species, and variety indicated, complying with applicable requirements of ANSI Ź60.1 "American Standard for Nursery Stock."

C. Special Warranty: Warrant trees and shrubs for a period of one year after date of Substantial Completion, against defects including death and unsatisfactory growth, except for defects resulting from lack of adequate maintenance, neglect, or abuse by Owner, abnormal weather conditions unusual for warranty period, or incidents which are beyond Contractor's control.

I. Remove and replace unhealthy and dead trees and shrubs within the warranty period.

D. Maintain trees and shrubs as required to establish healthy, viable plantings for 12 months following Substantial Completion.

E. Maintain ground cover and plants as required to establish healthy, viable plantings for 1 year following Substantial Completion.

F. Maintain and establish lawns by watering, fertilizing, weeding, mowing, trimming, replanting, and other operations to produce a uniformly smooth lawn for not less than the following:

I. Seeded Lawns: 90 days after date of Substantial Completion. 2. Sodded Lawns: 60 days after date of Substantial Completion.

1.2 PRODUCTS

A. Trees and Shrubs: Well-shaped, fully branched, healthy, vigorous nursery-grown stock of sizes and grades indicated, free of disease, insects, eggs, larvae, and defects, conforming to ANSI Z60.1.

I. Provide balled and burlapped trees and shrubs.

B. Ground Covers and Plants: Established and well rooted in removable containers or integral peat pots and with not less than the minimum number and length of runners required by ANSI Z60.1 for the pot size indicated.

C. Grass Seed: Fresh, clean, dry, new-crop seed complying with the Association of Official Seed Analysts' "Rules for Testing Seeds" for purity and germination tolerances.

I. Seed Mixture: Provide seed of grass species and varieties, proportions by weight, and minimum percentages of purity, germination, and maximum percentage of weed seed as indicated.

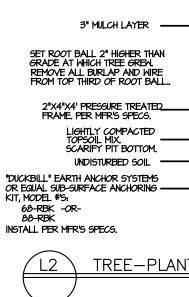
D. Sod: Certified turfgrass sod complying with ASPA specifications for machine-cut thickness, size, strength, moisture content, and mowed height, and free of weeds and undesirable native grasses. Provide viable sod of uniform density, color, and texture, strongly rooted, and capable of vigorous growth and development when planted.

I. Species: Provide sod of grass species and varieties, proportions by weight, and minimum percentages of purity, germination, and maximum percentage of weed seed as indicated.

E. Topsoil: ASTM D 5268, pH range of 5.5 to 7, 4 percent organic material minimum, free of stones I inch (25 mm) or larger in any dimension, and other extraneous materials harmful to plant growth.

I. Topsoil Source: Amend existing surface soil to produce topsoil. Supplement with imported topsoil when required.

PRUNE AS DIRECTED BY LANDSCAPE ARCHITECT IF NECESSARY, DO NOT CUT LEADER.



F. Lime: ASTM C 602, Class T, agricultural limestone.

peat.

free of chips, stones, sticks, soil, or toxic materials.

percent phosphoric acid.

available phosphoric acid.

percent phosphorous, and 2 percent potassium, by weight.

nitrogen, phosphorus, and potassium in the following composition:

potassium, by weight.

hardwood mulch will not be accepted.

texture, with a pH range of 4 to 6.

sand, clay, and other foreign substances.

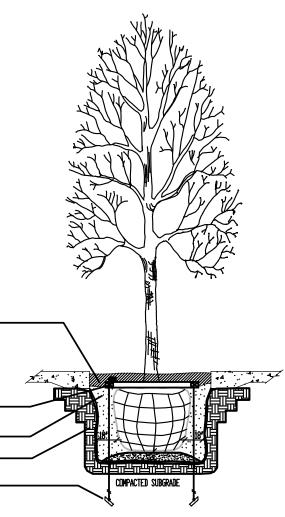
(100 q per sq. m) minimum.

sections approximately 24 inches (600 mm) apart to receive stakes.

Finish: Standard black-paint finish. Finish: Mill finish. 3.

steel angle stakes.

recommended rate.



TREE-PLANTER STAKING DETAIL

- G. Peat Humus: Finely divided or granular texture, with a pH range of 6 to 7.5, composed of partially decomposed moss peat (other than sphaqnum), peat humus, or reed-sedge
- H. Sawdust or Ground-Bark Humus: Decomposed, nitrogen-treated, of uniform texture,
- I. Bonemeal: Commercial, raw, finely ground; minimum of 4 percent nitrogen and 20
- J. Superphosphate: Commercial, phosphate mixture, soluble; minimum of 20 percent
- K. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea-form, phosphorous, and potassium in the following composition:
- I. Composition: I lb per 1000 sq. ft. (0.5 kg per 100 sq. m) of actual nitrogen, 4
- L. Slow-Release Fertilizer: Granular fertilizer consisting of 50 percent water-insoluble
- I. Composition: 5 percent nitrogen, IO percent phosphorous, and 5 percent
- M. Organic Mulch: Organic mulch, free from deleterious materials and suitable as a top dressing, consisting of ground or shredded pine-bark or pine needles. Cypress or similar
- N. Peat Mulch: Provide peat moss in natural, shredded, or granulated form, of fine
- O. Mineral Mulch: Hard, durable riverbed gravel or crushed stone, washed free of loam,
- I. Size Range: 1-1/2 inches (38 mm) maximum, 3/4 inch (19 mm) minimum.
- P. Weed-Control Barrier: Polypropylene or polyester nonwoven fabric, 3 oz. per sq. yd.
- Q. Steel Edging: ASTM A 569 (ASTM A 569M), rolled edge, standard painted steel edging and accessories, fabricated in sections with loops stamped from or welded to face of sections approximately 30 inches (760 mm) apart to receive stakes.
- I. Edging Size: 3/16 inch (4.8 mm) wide by 4 inches (102 mm) deep.
- R. Aluminum Edging: Standard profile extruded-aluminum edging, ASTM B 221 (ASTM B 22IM), alloy 6061-T6, fabricated in interlocking sections with loops stamped from face of
 - Edging Size: 3/16 inch (4.8 mm) wide by 4 inches (102 mm) deep.
- Polyethylene Edging: Manufacturer's standard-grooved, base-black polyethylene edging and accessories, 1/10 inch (2.5 mm) thick by 5 inches (125 mm) deep, unless otherwise indicated, extruded in standard lengths, rounded top, with 9-inch- (225-mm-)
- T. Pre-Emergent Herbicide: Pre-Emergent Herbicide to be applied at time of planting mix installation. "Eptam" or similar client-approved granules to be applied at mfr's

1.3 EXECUTION

A. Planting Soil Preparation: Before mixing, clean topsoil of roots, plants, sods, stones, clay lumps, and other extraneous materials harmful to plant growth. Mix soil amendments and fertilizers with topsoil at rates indicated.

B. Lawn Planting Preparation: Loosen subgrade to a minimum depth of 4 inches (100 mm). Remove stones larger than I-1/2 inches (38 mm) in any dimension and sticks, roots, rubbish, and other extraneous materials.

Place approximately 1/2 the thickness of planting soil mixture required. Work into top of loosened subgrade to create a transition layer and then place remainder of planting soil mixture.

C. Lawn Planting Preparation: Where lawns are to be planted in areas unaltered or undisturbed by excavating, grading, or surface soil stripping operations, remove and dispose of existing grass, vegetation, and turf.

D. Grade lawn areas to a smooth, even surface with loose, uniformly fine texture. Remove trash, debris, stones larger than 1-1/2 inches (38 mm) in any dimension, and other objects that may interfere with planting or maintenance operations.

E. Moisten prepared lawn areas before planting when soil is dry and allow surface to dry before planting.

F. Ground Cover and Plant Bed Preparation: Loosen subgrade of planting bed areas to a minimum depth of 6 inches (150 mm). Remove stones larger than 1-1/2 inches (38 mm) in any dimension and sticks, roots, rubbish, and other extraneous materials.

G. Spread planting soil mixture to depth required to meet thickness, grades, and elevations shown, after light rolling and natural settlement. Place approximately 1/2 the thickness of planting soil mixture required. Work into top of loosened subgrade to create a transition layer and then place remainder of planting soil mixture.

Excavation for Trees and Shrubs: Excavate pits with vertical sides and with bottom of excavation slightly raised at center to assist drainage. Excavate approximately 1-1/2 times as wide as ball diameter and deep enough to allow placing of root ball on a setting layer of planting soil. Loosen hard subsoil in bottom of excavation.

Planting Trees and Shrubs: Set stock plumb and in center of pit or trench with top of ball raised above adjacent finish grades.

Place a setting layer of compacted planting soil.

Remove burlap and wire baskets from tops of balls and partially from sides, but do not remove from under balls. Do not use planting stock if ball is cracked or broken before or during planting operation.

3. Place backfill around ball in layers, tamping to settle backfill and eliminate voids and air pockets.

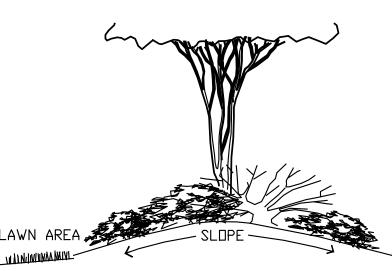
Dish and tamp top of backfill to form a 3-inch- (75-mm-) high mound around the rim of the plt. Do not cover top of root ball with backfill.

Tree and Shrub Pruning: Prune, thin, and shape trees and shrubs according to standard horticultural practice. Prune trees to retain required height and spread. Do not cut tree leaders; remove only injured or dead branches from flowering trees. Prune shrubs to retain natural character. Shrub sizes indicated are size after pruning.

Planting Ground Cover and Plants: Space 24 inches (600 mm) apart, unless otherwise indicated. Dig holes large enough to allow spreading of roots, and backfill with planting soil. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.

L. Mulching: Install weed-control barriers according to manufacturer's recommendations, before mulching. Completely cover area to be mulched. Apply mulch and finish level with adjacent finish grades. Do not place mulch against trunks or stems.

M. Seeding Lawns: Sow seed with a spreader or a seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph (8 km/h). Evenly distribute seed by sowing equal quantities in 2 directions at right angles to each other. Rake seed lightly into top 1/8 inch (3 mm) of topsoil, roll lightly, and water with fine spray.

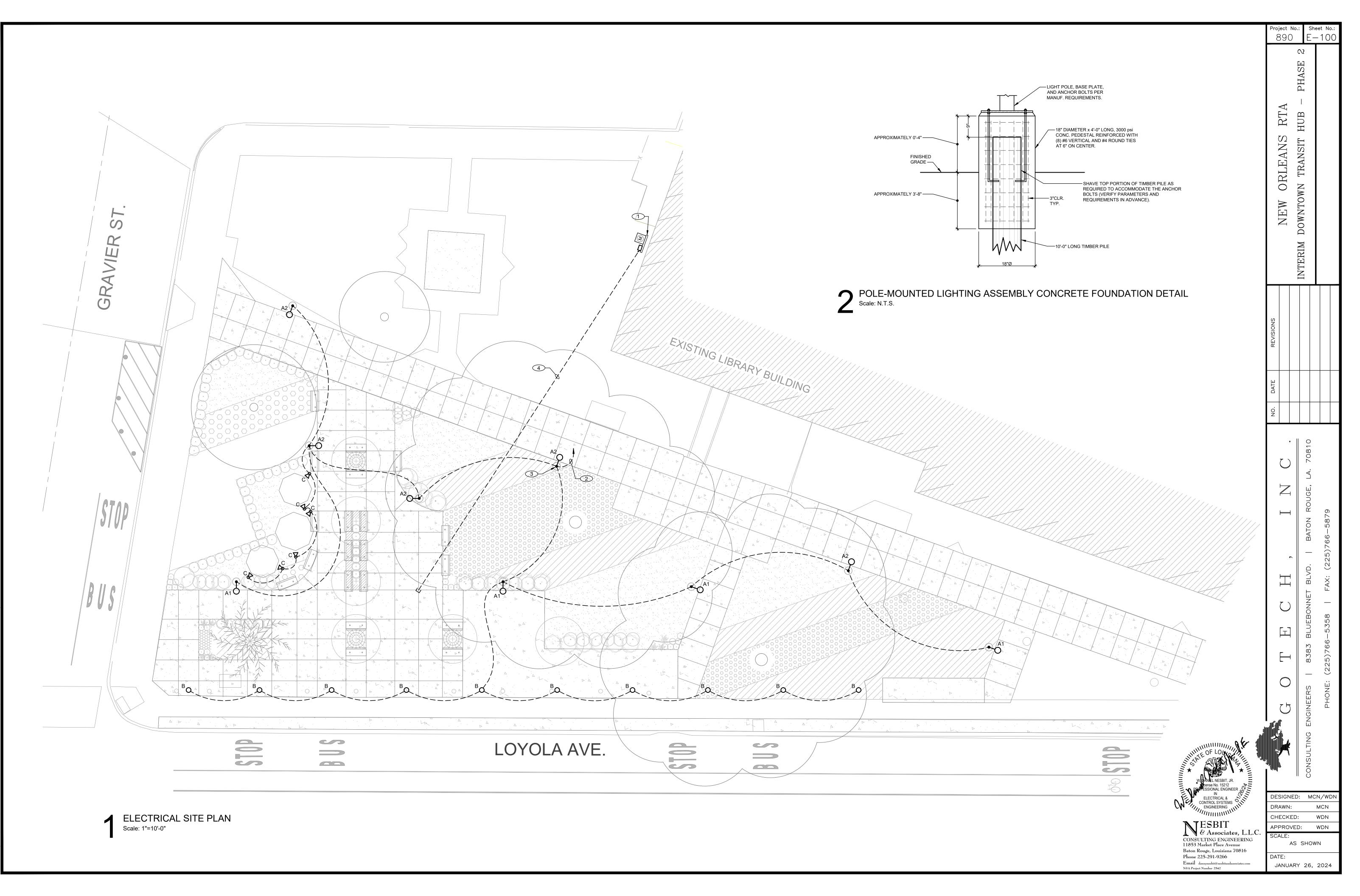


NOTE: Berm all bed areas not immediately adjacent to building foundation with high point at center and slope away for positive drainage. Those bed areas adjacent to building foundations to be built as high as possible at building and sloped away.



	Project No.:	Shee	t No.:
2. Seeding Rate: 3 to 4 lb per 1000 sq. ft. (1.5 to 2 kg per 100 sq. m). Or as per manufacturer's reccommended rate.	890 c	L1 v	02
3. Protect seeded areas with slopes less than 1:6 against erosion by spreading straw mulch after completion of seeding operations and anchor by crimping into topsoil. Spread uniformly at a minimum rate of 2 tons per acre (45 kg per 100 sq.m).	ст. A СТ.	ГНАЭЕ	
N. Sodding Lawns: Lay sod to form a solid mass with tightly fitted joints within 24 nours of stripping. Butt ends and sides of sod; do not stretch or overlap. Stagger sod strips or pads to offset joints in adjacent courses. Avoid damage to subgrade or sod during installation. Tamp and roll lightly to ensure contact with subgrade, eliminate air oockets, and form a smooth surface. Work sifted soil or fine sand into minor cracks oetween pieces of sod; remove excess to avoid smothering sod and adjacent grass.nd al	RTA	HUB HUB	
. Anchor sod on slopes exceeding 1:6 with wood pegs spaced as recommended by sod manufacturer. 2. Saturate sod with fine water spray within 2 hours of planting. During first week, water daily or more frequently as necessary to maintain moist soil to a minimum depth of -1/2 inches (38 mm) below the sod.		WIN IKANAII	
0. Edgings: Install edgings where indicated and anchor with stakes driven below top elevation of edging according to manufacturer's recommendations.	NEW		
P. Disposal: Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of it off the Owner's property.		IERIM DOWNIOWN	
.4 MAINTENANCE		ERL	
. Begin maintenance immediately after planting.			
2. Maintain and warranty all trees, shrubs, and ground covers for no less than the following period:			
A: Warranty period for trees, shrubs, and ground covers shall be (1) one year after substantial completion of planting. B: Warranty period for sodded lawns shall be (60) sixty days after substantial completion of planting, 90 days for seeded lawns.	REVISIONS		
3. Maintain plantings of trees, shrubs, and ground covers for a one year period after substantial completion of planting.	REV		
Maintain and warranty all trees, shrubs, and other plants by pruning, cultivating, ertilizing, mulching, and weeding as required for healthy growth. Restore planting saucers nd add additional mulch. Tighten and repair stake and guy supports and reset trees nd shrubs to proper grades or vertical position as required. Restore or replace amaged wrappings. Spray as required to keep trees and shrubs free of insects and lisease. Remove all tree staking and guy wires upon expiration of the (1) one year pointenance period. The Jawn areas shall be maintained to be healthy and disease free.	DATE		
	Ö.		
maintenance period. The lawn areas shall be maintained to be healthy and disease free. Jpon completion of the (1) one year maintenance and warranty period, the Contractor, Owner, and Landscape Architect shall schedule a warranty and maintenance inspection to	Z		
CURB	GOTECH, INC.	CONSULTING ENGINEERS 8383 BLUEBONNET BLVD. BATON ROUGE, LA. 70810	PHONE: (225)766-5358 FAX: (225)766-5879
NININI W. PERKINI	DESIGNED:	A	WP
PERATURAL W. PERATURAL PROPERTY OF THE PERAT	DRAWN: CHECKED:	A	WP
	APPROVED		
SCAPE ARCHIT	SCALE:	AS N	IOTED

DATE: JANUARY 26, 2024



ELECTRICA	AL SYMBOL AND ABBREVIATION SCHEDULE
•-O ^A	POLE-MOUNTED (ARM/BRACKET MOUNTING-TYPE) LIGHTING FIXTURE. "A" DENOTES TYPE.
BO	BOLLARD-TYPE LIGHTING FIXTURE. "B" DENOTES TYPE.
^C «۲	GROUND-MOUNTED, AIMABLE, FLOODLIGHT-TYPE, LIGHTING FIXTURE. "C" DENOTES TYPE.
/~~\	WIRING BELOW GRADE OR FINISHED FLOOR.
·~~	RACEWAY AND ELECTRICAL CABLE HOMERUN TO SAFETY SWITCH.
Ð	PHOTOCELL. POLE-MOUNT AS HIGH AS PRACTICABLE.
D	SAFETY SWITCH.
M	UTILITY POWER-METERING EQUIPMENT.
EG	EQUIPMENT GROUND
EC	EMPTY CONDUIT WITH PULL WIRE

ELECTRICAL SYMBOL AND ABBREVIATION SCHEDULE Scale: N.T.S.

LIGHTING FIXTURE SCHEDULE

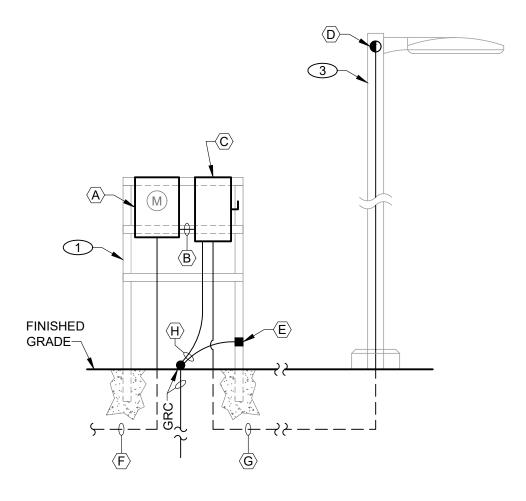
Notes

- 1. See the specifications for information relative to LED lamps and drivers.
- 2. Verify the exact respective desired locations for all lighting fixtures with the engineer before commencing the installations. Reference the engineering drawings for the exact locations. Adjust the location for any fixture so as to coordinate with the civil and landscaping drawings.
- 3. Provide all mounting and connecting hardware which is required for each lighting fixture and for each piece of lighting equipment. All such hardware shall be appropriate for the respective exact applications.
- 8. Install and connect all project lighting equipment in strict accordance with all of the manufacturers' recommendations, instructions, requirements, details, etc. (verify in advance).

DESCRIPTIONS:

- A1 A pedestrian, pole-mounted, lighting assembly consisting of a LITHONIA "Radean Arm Mount" #RAD1-LED-P3-40K-SYM-MVOLT-RPA-finish; 120-volt, exterior, arm-mounted, LED, area, lighting fixture; having a 7000-lumen, 54-watt, 4000K, LED source; symmetric, type V distribution; with the proper arm-mounting hardware; a 12'-0" high, round, metallic pole having a handhole, the finish color as selected by the architect (verify in advance); the appropriate anchor bolts; and a reinforced concrete foundation (see the POLE-MOUNTED LIGHTING ASSEMBLY CONCRETE FOUNDATION DETAIL). The entire installation shall be rated for 120 m.p.h. winds, with a 3-second gust factor. Provide two (2) 15A fuses in in-line fuseholders immediately behind the pole handhole cover. Verify desired finishes in advance with the architect.
- A2 Same as type "A1", except having a type III, "pathway" distribution.
- B HYDREL #3150C-H42-8COB-40K-MVOLT-SYM-finish/PL; 120-volt, exterior-rated, impact/vandal-resistant, LED, bollard assembly; with a 360-degree, symmetric distribution; the finish color as selected by the owner (verify in advance); and a 1810-lumen, 84-watt, 4000K, LED source. Conform to all manufacturer installation instructions.
- C LITHONIA #DSXF1-LED-40K-FL-MVOLT-THK-VG-finish; 120-volt, wet-location-rated, aimable, LED floodlight; with a 42-watt, 5406-lumen, 4000K, LED source; a 5x5, flood distribution; vandal guard; and the finish color to be selected by the architect (verify in advance). Install fixture on an 8" diameter x 1'-0" high, reinforced concrete foundation that protrudes 2" above finished grade. Once installed, aim fixture in order to best illuminate the existing decorative sculptures to the satisfaction of the owner/architect.





NOT	ES FOR "ELECTRICAL RISER DIAGRAM" ONLY:
À	METERING EQUIPMENT AS PER ENTERGY NEW ORLEANS, LLC REQUIREMENTS.
B	1-1/4", 4#6 & 1#10EG
Ċ	120/208V, 30A, 3P, 3F, SN, NEMA 3R, SERVICE-ENTRANCE-RATED, SAFETY SWITCH. FUSE AT 30A.
D	PHOTOCELL NO. 1; INSTALL AND AIM THIS POLE-MOUNTED PHOTOCELL SO AS NOT TO BE ADVERSELY AFFECTED BY STREET LIGHTING/SITE LIGHTING (VERIFY IN ADVANCE); CONNECT THIS PHOTOCELL AS REQUIRED TO CONTROL ALL PROJECT LIGHTING FIXTURES, FOR DUSK-TO-DAWN OPERATION.
E	CADWELD GROUNDING CONNECTION
F	1-1/4", 4#6 & 1#10EG TO UNDERGROUND, TRANSFORMER-SECONDARY, SERVICE-LATERAL, ELECTRICAL CABLES TO THE EXACT LOCATION STIPULATED BY ENTERGY NEW ORLEANS, LLC; VERIFY IN ADVANCE.
G	1-1/4", 4#6 1#10EG TO POLE-MOUNTED PHOTOCELL NO. 1, AND THEN TO ALL PROJECT LIGHTING FIXTURES.
$\langle H \rangle$	1/2", 1#8GEC

ELECTRICAL RISER DIAGRAM AND ELETRICAL-SERVICE-ENTRANCE-EQUIPMENT RACK DETAIL Scale: N.T.S

GENERAL ELECTRICAL NOTES:

- 1. Not all required conduit routing is shown. Coordinate all routing with as-built field conditions and install all conduits accordingly.
- 2. Verify all parameters and requirements in advance and provide the project construction/work accordingly.
- 3. All conduits shall be sized in strict accordance with all, relevant, National Electrical Code requirements, and with all, relevant, manufacturers' recommendations and instructions.
- 4. The exact locations of existing underground utilities are presently unknown. Before commencing any project excavations, obtain such exact locations directly from Louisiana 811 (phone: 1-800-272-3020).
- 5. For all required coordination with Entergy New Orleans LLC, contact directly Entergy New Orleans LLC; Attention Mr. Vincent Roppolo, Entergy Metro Engineering, CBD Network; phone: 504-595-3711; email: vropp90@entergy.com., or Mr. Viet Tran, ENO Customer Service; mobile phone: 504-401-5472; email: vtran@entergy.com, or Mr. Ryan Adams P.E., Metro Region Manager; phone: 504-593-3419; email: radams8@entergy.com.
- 6. The raceway routing which is shown on the drawings is shown "point-to-point" for clarity; field determine the required exact routing for all raceways.
- 7. Before ordering any project equipment and before performing any project work, verify, and be responsible for, all applicable, project dimensions and measurements. No additional compensation will be paid because of differences between the dimensions or measurements which are shown on the drawings, and the respective, actual dimensions and measurements.
- 8. Store equipment and materials in the exact locations which are stipulated in advance by the owner; verify in advance.
- 9. At the completion and testing of the project electrical work, completely clean all project electrical equipment, materials, etc. to the satisfaction of the engineer and the user agency.



GENERAL ELECTRICAL NOTES Scale: No Scale

REFERENCED ELECTRICAL NOTES:

2. 3/4", 2#8 & 1#10EG, underground, to the load lugs of the service-entrance-rated, main, fusible, safety switch which is located at the electrical service-entrance-equipment rack.

3. Light pole with the project photocell mounted thereon. Provide the project photocell, as high as practicable, on the project light pole which is nearest to the electrical service-entrance-equipment rack.

4. 1-1/2" EC stubbed out and capped in the exact location stipulated by the engineer or owner (verify in advance) for future digital displays.

1. Provide (in the exact location which is stipulated by the owner and by Entergy New Orleans, LLC; verify in advance) a steel-channel, electrical-equipment rack and install thereon all of the electrical equipment at and for this electrical service location. Such rack shall be sized as required to securely hold and support the respective equipment. Prepare, and submit to the engineer for review and comment, complete and accurate shop drawings of such rack, and obtain and address such comments, before ordering and/or fabricating such rack. Such rack shall be a properly-sized and properly-rated (verify all parameters and requirements in advance, and provide accordingly), very sturdy, welded, galvanized, structural-steel-channel, supporting rack, which is galvanized after fabrication, having at least two (2) 2" (minimum) vertical structural members, each of which is securely supported by a 1'-0" diameter x 3'-6" high, reinforced-concrete foundation that protrudes 0'-4" above finished grade or concrete, and having

at least two (2) 2" (minimum) horizontal structural members, where and as required for the respective electrical equipment. Sufficiently apply two (2) coats of black, Bitumastic 300, coal-tar polyamide on each of the vertical structural members where such member will be embedded in concrete, and up to at least 6" above the top of the respective concrete foundation, where and as required to render complete and permanent protection of the member from degradation resulting from contact with concrete, etc. (verify in advance and provide accordingly)

> REFERENCED ELECTRICAL NOTES Scale: No Scale

N&A Project Number 2542

Email dannynesbit@nesbitandassociates.com

JANUARY 26, 2024

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		DEW ORLEANS RTA	- INTERIM DOWNTOWN TRANSIT HIIR - PHASE				
	REVISIONS						
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WIENNEL NESBIT, JR. Dense No. 15212 WIENNEL NESBIT, JR. Dense No. 15212		GOTECH. INC.		CONSULTING ENGINEERS 8383 BLUEBONNET BLVD. BATON ROUGE, LA. 70810		PHONE: (225)766-5358 FAX: (225)766-5879	
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CONSULTING ENGINEERING 11853 Market Place Avenue Baton Rouge, Louisiana 70816			AS S	SHC	WN		
Phone 225-291-9266	DAT	IE:					

ELECTRICAL SPECIFICATION NOTES

1.1 Basic Electrical Requirements:

- A. The word "shall", where used, is to characterize mandatory requirements, and the word "should", where used, is to characterize advisories. The word "may" is used in the permissive sense.
- B. Unless noted otherwise, the word "provide" shall be interpreted to mean "furnish, install, and connect as required to be complete and ready for the intended use" when referencing connectible items, equipment, and/or materials which are associated with the electrical work; shall be interpreted to mean "furnish and install as required to be complete and ready for the intended use" when referencing unconnectible items, equipment, and/or materials which are associated with the electrical work; and shall be interpreted to mean "furnish as required to be complete and ready for the intended use" when referencing electrical work which is neither installable nor connectible.
- C. The locations of existing utilities which are involved with the scope of this work, where and as indicated on the drawings and/or referenced herein, are offered only as a general guide, with no guarantee as to accuracy. Examine the site and verify the locations of all existing utilities, and the relationship of such utilities to the project work, and base the contract proposal on all conditions which will be encountered during the progress of the work. Verify all parameters and requirements in advance.
- D. Unless explicitly indicated otherwise, provide all materials, devices, equipment, equipment supports, controls, labor, services, appurtenances, etc. which are referenced in these specifications, shown on the drawings, and/or required to make complete and satisfactory installations, in working order.
- E. Visit the project site, determine the existing conditions, and allow for such conditions in the project proposal. Coordinate the locations of the electrical work with the existing conditions.
- F The general arrangement of the work is indicated on the drawings. Due to the small scale of the drawings, not all required offsets, fittings, conduit bodies, boxes, etc. are indicated. Provide offsets, fittings, conduit bodies, boxes, etc. where and as needed, in accordance with codes and accepted practices.
- G. Verify measurements for accuracy before ordering any materials or doing any work.
- H. Establish and record the locations and grades of all underground conduit. In the event unforeseen obstructions occur in the work, obtain written consent from the engineer before undertaking any deviations from the drawings.
- I. Provide and maintain a complete grounding system.
- J. Perform all electrical work in strict accordance with local and state ordinances governing this class of work, and with the National Electrical Code.
- K. The specifications are intended to describe complete and workable systems of various sorts. Report all discrepancies and/or omissions preventing such utility prior to making the contract proposal.
- L. Note carefully that the electrical drawings are intended to indicate, only diagrammatically, the extent, the general character, and the respective locations of the work which is included. Provide all work which is obviously intended, but for which minor details are not shown, so as to be complete where and as required to perform the functions that are intended. Follow the existing conditions and fit the work of the electrical drawings and specifications thereto.
- M. Furnished materials shall be new and listed by UNDERWRITERS' LABORATORIES as conforming to their standards for the respective applications. All work shall be installed in a well-executed manner and shall present a neat appearance when completed.
- N. Base the project proposal on the equipment and materials which are specified herein and/or on the drawings. Reference to a specific manufacturer or trade name is not intended to indicate a preference for a specific manufacturer but to indicate a standard of quality. Substitute equipment which meets the engineer's approval as being "equivalent" for the respective application, may be provided.
- O. Provide proper grounding of the construction power system, and provide proper lighting if, where, and as required during construction. Provide adequate construction power and lighting where and as required by all trades.
- P. Keep the work as installed in repair and perfect working order for one (1) year from the date of notice of final acceptance. Such guarantee shall be based on defective materials, installation, and connection. Provide, free of additional cost to the owner, all materials and labor which are required to comply with such guarantee. In all cases where equipment has a factory warranty exceeding one (1) year, such full warranty shall apply.
- Q. Obtain and pay for all required permits, pay all required legal fees and charges, and comply with all state and municipal building and safety laws, ordinances, and regulations relating to building and public health and safety, and with the National Electrical Code.
- R. Notify the engineer well in advance of permanently concealing any of the project work.
- S. Coordinate fully with Entergy New Orleans LLC, the local power company, and give Entergy New Orleans LLC all required information. Provide all grounding apparatuses and all power-metering and service-entrance equipment, etc., where and as required by Entergy New Orleans LLC, and make the complete installation conform to their recommendations, standards, and other requirements. Pay all connection, service, and/or metering-equipment charges directly to Entergy New Orleans LLC, and include the payment of such charges in the contract proposal. No additional compensation will be paid to this contractor by the owner for any costs which are relative thereto.
- T. For the purpose of making the project proposal, assume that such connection, service, and/or metering-equipment charges which are required to be paid to Entergy New Orleans LLC for the project permanent power connection (only) will total \$2,000.00, and include such amount in the project proposal amount; a subsequent adjustment upward (in the form of an additive change order) or downward (in the form of a credit change order) will be made when the actual magnitude is known. As a clarification, the connection, service, and/or metering-equipment charges which are required to be paid to Entergy New Orleans LLC for the project temporary (i.e., construction) power connection shall be paid directly to Entergy New Orleans LLC by this contractor and shall not be included in the above-referenced figure; include the payment of such temporary-power charges in the contract proposal.
- U. For the purpose of coordination with Entergy New Orleans LLC, contact directly Entergy New Orleans LLC; Attention Mr. Vincent Roppolo, Entergy Metro Engineering, CBD Network; phone: 504-595-3711; email: vropp90@entergy.com., or Mr. Viet Tran, ENO Customer Service; mobile phone: 504-401-5472; email: vtran@entergy.com, or Mr. Ryan Adams P.E., Metro Region Manager; phone: 504-593-3419; email: radams8@entergy.com,
- V. As soon as this contract is let, make arrangements with the local inspection department to have an inspector make periodic inspections of the electrical work as the project progresses. The work shall be inspected before being permanently concealed. Furnish final inspection certificates from the local inspection department to the engineer. Include in the contract proposal all costs to comply with the above requirements.

- herein or indicated on the drawings):
- Safety Code" (NFPA No. 101):
- (NFPA 70F): 4. The International Building Code;
- The International Fire Code:
- The Edison Electric Institute (EEI);
- The American National Standards Institute (ANSI);
- 10. The American Society for Testing Materials (ASTM) 11. The National Electrical Safety Code (Handbook H30);
- Communications Lines (Handbook 81) of the National Bureau of Standards, Washington, D.C.;
- 12. The Safety Rules for the Installation and Maintenance of Electrical Supply and 13. All National Fire Protection Association related standards: and
- instructions. etc.
- deliver it to the engineer before the acceptance of the project.

- 1.2 Circuiting and Grouping of Circuits:
- Β.
- the National Electrical Code.
- 1.3 Torquing:
- connection, and again just prior to project completion. 1.4 Testing:
- personnel which are required for such tests.
- 1.5 Excavating:
- 1.6 Safety Precautions and as required to secure such protection.
- 1.7 Supervisior
- 1.8 Underground, Power, Pull Boxes: drawings or not.
 - cover which is inscribed to say "POWER".
 - application, and shall have a watertight, traffic-duty cover which is inscribed to say "POWER".
- particularly Article 314.
- 1.9 Temporary Electrical Service:
- metering and billing.
- 1.10 Safety Switch: reject all others.
- approved equivalent

ELECTRICAL SPECIFICATION NOTES Scale: No Scale

W. Follow, as minimum project standards, the established standards of the following organizations, and the individual standards which are named, the same as if they were fully written herein, except where otherwise explicitly specified (in all places in the project construction/bid documents where standards and codes are referenced, the reference is to the respective latest editions of such standards and codes; provide higher grades of materials and workmanship which are specified

1. The Institute of Electrical and Electronic Engineers (IEEE); 2. The National Fire Protection Association "National Electrical Code" (NFPA No. 70) and "Life

3. The National Fire Protection Association "Standard for Electrical Safety in the Workplace"

The National Electrical Manufacturers Association (NEMA);

The Insulated Power Cable Engineers Association (IPCEA);

14. The applicable Entergy New Orleans LLC mandates, recommendations, details, guidelines,

X. Submit to the engineer for review an electronic copy of detailed drawings showing construction details and dimensions, and in the case of lighting fixtures photometric data, of all items, equipment, and/or materials which are being provided, before they are ordered.

Y. Deliver to the engineer an electronic copy, and three (3) hard copies, of maintenance manuals, which shall include printed instructions relating to the operation, proper maintenance, and repair, and parts lists indicating the various parts by name, number, and diagram, for each piece of equipment that is being provided. Neatly bind such documentation in hard-covered binders and

Request and obtain from the engineer one (1) set of the project electrical drawings and keep such set of drawings on the project site. Show on such drawings all changes in the project work which are caused by any factors whatsoever. At the end of the project, submit such corrected set of drawings to the engineer prior to receiving the final project payment.

AA. Remove all debris and clean all electrical work prior to project completion.

A. Except where the number of electrical cables is indicated on the drawings, determine and provide the number of electrical cables which is required for each individual circuit according to all applicable codes and governing authorities, according to the instructions of the manufacturers of the respective electrical equipment that is being fed, and according to good practice.

Provide a separate-and-distinct neutral conductor for each project circuit which requires a neutral conductor, whether such circuit is a "single-pole" circuit or a "multi-wire" circuit. As a clarification, do not provide any "common neutrals" for this project (a "common neutral" conductor is defined as a neutral conductor which is associated with more than one [1] circuit).

C. Provide an insulated equipment-grounding conductor in each raceway, box, etc., whether so indicated on the drawings and/or elsewhere in these specifications or not. Such equipment-grounding conductors shall be sized respectively in accordance with Section 250-122 of

A. Torque all project lugs in strict accordance with the respective manufacturers' instructions, with all UNDERWRITERS' LABORATORIES' standards, and with the National Electrical Code, once at

A. After the electrical work is complete and at the time that the engineer directs, conduct an operating test of each electrical item, equipment, and material for approval. Provide all instruments and

Provide all required excavations and backfilling for the proper execution of the work, and remove all dirt and debris. Tamp (utilizing a mechanical compactor where and as practicable) the backfill in 9" lavers and water the finished fill. At the completion of the project, fill all low spots. As a clarification, in lieu of excavating and backfilling, underground raceways may be installed via directional boring.

A. Provide proper guards for the prevention of accidents. Provide and maintain all other construction which is required to secure safety of life and property, including maintaining sufficient lights where

A. Constantly supervise the project work from beginning to completion. Furnish all information and personnel which are required to assist the engineer in inspecting the work.

A. Provide all underground, power, pull boxes which are required for the project, whether shown on the

B. Unless required by any applicable code or by any respective governing authority otherwise, each such pull box which is associated in any way with a public utility shall be in strict accordance with all applicable standards, details, recommendations, requirements, etc. of the respective utility company (request and obtain all relevant information in advance), and shall have a watertight, traffic-duty

C. Unless shown on the drawings, or required by any applicable code or by any respective governing authority otherwise, each such pull box which is involved with project work that is not associated with a public utility shall be approved for, and shall be completely compatible with, the respective

D. Each underground power pull box shall meet all requirements of the National Electrical Code,

A. Provide temporary electrical service for construction power, in strict accordance with the National Electrical Code, all local codes, and all Entergy New Orleans LLC requirements and recommendations, and disconnect and remove same before the completion of the project.

B. Make all required arrangements with Entergy New Orleans LLC, including arrangements for

A. The service-entrance-rated, main, safety switch shall be heavy-duty, fusible, quick-make, quick-break, with cover interlock, and shall be U.L.-listed as raintight. The handle for such safety switch shall be lockable in the "open" position and in the "closed" position with up to three (3) padlocks. Such safety switch shall include rejection clips which will accept current-limiting fuses and

B. Such safety switch shall be manufactured by SCHNEIDER, ABB, SIEMENS, or EATON, or shall be

- 1.11 Fuses: A. Each fuse shall be the current-limiting type, shall be Class "RK1", shall have a minimum U.L.-listed interrupting rating of 200,000 amps, shall provide fast-acting protection against short-circuit currents
 - but time-delayed protection against motor overloads, and shall have a barrel which are yellow in color.
- B. Unless indicated otherwise, the continuous-current rating of each fuse shall be in accordance with the National Electrical Code current-carrying capacity of the conductors of the respective circuit.

C. Install each fuse so that its continuous-current rating is readily visible without the need to be removed

1.12 Project Conductor and Lug/Termination Temperature Ratings: A. Ensure that all project conductors and all project lugs/terminations are compatible, as per NEC 110-14(C) and 110-40, as applicable.

1.13 Raceways and Electrical Cables:

- A. Electrical cables shall be installed in raceways which are concealed to the full extent which is practicable (verify in advance).
- B. Raceways for directional bores, and which are associated with underground, incoming, service-lateral feeders, shall be continuous; shall be Schedule 40 PVC conduit; shall be code-compliant and UL-listed for the respective exact applications; shall be coiled in reels for direct-burial service; and shall have a 4'-0" minimum soil cover. All above-grade portions of such raceway runs, including the elbows for rising to above grade, shall be Schedule 80 PVC conduit.
- C. Raceways for directional bores, and which are not associated with underground, transformer-secondary, service-lateral feeders, shall be continuous; shall be Schedule 40 PVC conduit or Schedule 80 HDPE: shall be code-compliant and UL-listed for the respective exact applications; shall be coiled in reels for direct-burial service; shall have a 4'-0" minimum soil cover; and shall have long-radius, rigid, galvanized-steel, conduit elbows where rising to above grade.
- D. There shall be no splices in directionally-bored conduit.
- E. As a clarification, if this contractor proposes to provide directionally-bored conduit, this contractor shall verify in advance that directionally-bored conduit can, and will, be successfully installed. If this contractor attempts to install directionally-bored conduit and if satisfactory installation is unsuccessful for any reason, this contractor shall provide all required re-installations, utilizing raceways which will result in proper installations (e.g., raceways which are installed via excavating and backfilling, etc.), at no cost to the owner or the engineer.
- F. Other than directionally-bored raceways, raceways which are installed below grade shall be Schedule 40 PVC conduit with long-radius, rigid, galvanized-steel, conduit elbows. Such raceways shall be 3'-0" minimum below finished grade (except for underground raceways for underground, transformer-secondary, service-lateral feeders, which shall have a 4'-0" minimum soil cover, or more if so directed by Entergy New Orleans LLC; verify in advance and provide accordingly). Provide the proper warning tape, at 1'-0" below finished grade, immediately above, and running parallel with, each underground raceway, for the entire length of such raceway.
- G. Above-grade raceways shall be rigid metallic conduit. Metallic conduit shall be aluminum or galvanized steel, except that metallic conduit which is installed in concrete or below grade shall not be aluminum.
- H. Install raceways so as to be parallel or perpendicular to structural lines. Support raceways by pipe straps, conduit clamps, hangers, or other approved fastening devices. Do not provide tie wires for such application
- Provide pull boxes where and as required. Each pull box shall be weather-tight and of code-gauge steel or aluminum, and shall have a removable access panel in its side, top, or bottom, as required.
- J. Conductors shall be of soft-drawn copper having the ampacity of at least ninety-eight percent (98%) of that of pure copper.
- K Unless noted otherwise the minimum conductor size shall be No. 12 AWG. 15-amp and 20-amp. circuit runs of from 75 feet to 199 feet in length to the ends of the respective loads shall have conductors which are sized no smaller than No. 10 AWG; and 15-amp and 20-amp, circuit runs that are longer than 199 feet in length to the ends of the respective loads shall have conductors which are sized no smaller than No. 8 AWG. The conductor size shall be the same throughout each
- ... Unless noted otherwise, size all conductors in accordance with the ratings of the respective protective devices and in accordance with the requirements of Article 240-OVERCURRENT PROTECTION of the National Electrical Code.
- M. Unless noted otherwise, electrical cables shall be the single-conductor type, and shall be Type "THHN/THWN" (75-degree C. rating). Conductors which are sized No. 8 AWG or larger shall be stranded, and conductors which are sized smaller than No. 8 AWG shall be solid.
- N. Color code electrical cables in strict accordance with the National Electrical Code. Unless required otherwise by any applicable code or governing authority, the insulation on electrical cables shall be color coded as follows:
- 1. Phase A black 2. Phase B - red
- 3. Phase C blue (there will be a "Phase C" only if the incoming service from Entergy New Orleans LLC will have 120/208V, 3-phase, 4-wire, wye-connected characteristics, as addressed more in detail below; verify in advance)
- Neutral white
- 5. Equipment ground green
- 1.14 Concrete A. Concrete for electrical work shall be ready-mix and shall develop a compressive strength of 4000 p.s.i. (minimum) within twenty-eight (28) days. Thoroughly compact concrete during and

1.15 Ground Rod:

A. The service-entrance ground rod shall be 3/4" diameter x 10'-0" long, copper-clad steel with a braze, irreversible-crimp, or thermal-weld connectors for the connection of the grounding cable. Bond all electrical-system-grounding and equipment-grounding means to all electrical-equipment enclosure-grounding means and to the metallic electrical-equipment rack. The electrical cables which are provided for all such bonding shall be sized the same as the project grounding-electrode cable.

immediately after pouring, and thoroughly work concrete into the corners of the respective forms.

1.16 Photoelectric Cell:

- A. Provide the project photoelectric cell (photocell) where and as shown on the drawings, and where and as required, and provide all required mounting and supporting hardware for mounting the photocell to, and supporting the photocell from, the designated, project, lighting-fixture pole, in strict accordance with manufacturer's instructions (verify in advance).
- B. Such means of support, and the total installation, shall be rated as required to withstand 120 m.p.h. winds, plus wind gusts of 3-second duration (verify in advance, and provide accordingly).
- C. Such photocell shall have the number of poles which is required for the number of circuits that are controlled; shall have a load rating that is greater than the total load which is controlled; and shall be in a weatherproof, cast-iron or cast-aluminum box/enclosure.
- D. Photocells shall be manufactured by TORK or INTERMATIC, or shall be approved equivalent.

- 1.17 Service Entrance and System of Wir A. Before ordering any project equ before performing any project and fully with Entergy New Or characteristics of the new, inco such critical information into project-equipment shop drawin
- B. For the sake of figuring the p incoming, electrical service fro wye-connected characteristics 4-wire, wye-connected charact New Orleans LLC will be de 3-phase, 4-wire, wve-connecte proposal accordingly.
- C. As a clarification, if the new, ir characteristics other than 120 project-cost implications, a subor downward (in the form of a characteristics are known.
- 1.18 Main, Incoming-Power, Service-Late A. Provide the main, incoming-p where and as indicated on the Entergy New Orleans LLC rec existing, underground, pull/junc underground, distribution (netw location. Such conduits shall Orleans LLC; verify in advance accordingly.
- B. Conduit bends shall be the "lon
- 1.19 Lighting Fixtures, Drivers, Lamps, E A. Properly and firmly support each (verify in advance).
- certification is available.

- D. Provide LED lamps and LED determined by their manufactu
- E. LED lamps shall produce illur having the apparent correlated
- F. Provide lighting fixtures which the actual circuit from which schedules or not (verify all para
- G. The lighting-fixture catalogue contain the designations for a requirements for which are ma parameters and requirements i
- 1.20 Equipment Connections: A. Connect all project equipr recommendations. etc.
- B. Information which is presented information which was furnishe and from certain suppliers. Th connections of some or all of depicted on the project elec equipment that will actually be
- C. Rough-in in accordance with c equipment suppliers and/or ma the respective equipment suppl
- 1.21 Grounding and Bonding A. Electrical work for system gro NFPA 70: National Electrical referenced in 250.4 for particul
- B. Each raceway system shall equipment-grounding conducto specifications or not. Provide whether or not the raceway sys
- C. Provide an insulated equipme indicated on the drawings ar conductors shall be sized respe Code (verify in advance and pro
- D. System-grounding and equipm Sections 250-66 and 250-122 sizes which are indicated of design-manufacture difference
- E. Grounding conductors which ar
- F. Grounding-conductor connecti metallic equipment racks and to
 - G. Grounding-conductor connection bolted, clamped, or screwed, manufacturer, or by Article recommendations are unavailal
 - H. Grounding-electrode conductor
 - I. Grounding-electrode systems shall of rods and the project, metallic, equipm

A. B. C. B. B.	 ice Entrance and System of Wiring: Before ordening any project equipment, before preparing any project-equipment shop drawings, and before performing any project work, contact Entergy New Orleans LLC directly, coordinate directly and fully with Entergy New Orleans, accertain from Entergy New Orleans at LC what the exact characteristics of the new, incoming, electrical service to and for this project equipment, when preparing the project-equipment shop drawings, and when performing the project equipment, when preparing the project-equipment shop drawings, and when performing the project equipment, when preparing the project equipment shop drawings, and when performing the project equipment, when preparing the project equipment shop drawings, and when performing the project equipment, when preparing the project equipment shop drawings, and when performing the project equipment, when preparing the project educted characteristics: that the project system of wiring shall have 120/208 volts, 3-phase, 4-wire, wye-connected characteristics: and that such new, incoming, electrical service from Entergy New Orleans LLC will have form the existing. Entergy New Orleans LLC, will have form the existing, Entergy New Orleans LLC, 120/208-volt, 3-phase, 4-wire, wye-connected, underground, distribution (network) system; and submit the project exists of the raw, incoming, electrical service from Entergy New Orleans LLC will have characteristics of the fram 120/208-volt, 3-phase, 4-wire, wye-connected, and if such fact results in project-cost implications, a subsequent adjustment upward (in the form of an additive change order) or downward (in the form of a credit change order) will be made when the actual, incoming, service characteristics are known. n.Incoming-Power, Service-Lateral, Underground Conduits and Electrical Cables; Provide the main, incoming-power, service-lateral, underground conduits and electrical cables, where and as indicated on the drawings, and where and as required (in strict accore		NEW ORLEANS RTA	INTERIM DOWNTOWN TRANSIT HIIR _ DHASE 2	TONIN UNAVIATION TRANSPORTED TO THE TRANSPORTED TO	
	Properly and firmly support each lighting fixture, in strict accordance with manufacturer's instructions (verify in advance).	⊢				
	Lighting-fixture drivers shall be U.Llisted; high-power factor, and certified by CBM, if such certification is available.					
C. D.	Provide LED lamps for all lighting fixtures. Provide LED lamps and LED drivers which are completely compatible with one another, as determined by their manufacturers, by UNDERW/RITERS'LARORATORIES, and by good practice;	REVISIONS				
E.	determined by their manufacturers, by UNDERWRITERS' LABORATORIES, and by good practice; verify all parameters and requirements in advance, and provide accordingly. LED lamps shall produce illumination having a minimum color-rendering index (CRI) of 75 and	REVI				
F.	having the apparent correlated color temperature which is respectively indicated on the drawings. Provide lighting fixtures which have the respectively-proper input-voltage characteristics, based on					
G.	the actual circuit from which they are fed, whether so indicated on the drawings and/or in the schedules or not (verify all parameters and requirements in advance, and provide accordingly). The lighting-fixture catalogue numbers which are indicated on the drawings do not necessarily	DATE				
	The lighting-fixture catalogue numbers which are indicated on the drawings do not necessarily contain the designations for all respectively-required options. Provide all necessary options, the requirements for which are made obvious by the respective lighting-fixture applications (verify all parameters and requirements in advance, and provide accordingly).	NO.				
	pment Connections: Connect all project equipment, in strict accordance with manufacturer's instructions, recommendations, etc.			•	0	
B.	Information which is presented on the electrical drawings for connection of equipment is based on information which was furnished during the design phases of the project from certain manufacturers and from certain suppliers. The possibility exists that the actual requirements for the installation and connections of some or all of such equipment differ from the requirements which are respectively depicted on the project electrical drawings. Provide the facilities which are required for the equipment that will actually be installed.		C		, LA. 7081	
C.	Rough-in in accordance with drawings and/or other information which is supplied by the respective equipment suppliers and/or manufacturers (request and obtain, well in advance and directly from the respective equipment suppliers and/or manufacturers, all relevant information).			, 	ROUGE,	თ
	Inding and Bonding Electrical work for system grounding and bonding of circuits and equipment shall conform fully to NFPA 70: National Electrical Code, particularly Article 250, including the other articles which are referenced in 250.4 for particular case applications.		Γ		BATON ROUGE	6-587
B.	Each raceway system shall enclose a separate, insulated (with green-colored insulation), equipment-grounding conductor, whether so indicated on the drawings and/or elsewhere in these specifications or not. Provide such ground-fault/transient-current return conductor regardless of whether or not the raceway system itself provides an adequate equipment-grounding return path.			د	—	(225)76
C.	Provide an insulated equipment-grounding conductor in each raceway system, etc., whether so indicated on the drawings and/or elsewhere in these specifications or not. Such grounding conductors shall be sized respectively in accordance with Section 250-122 of the National Electrical Code (verify in advance and provide accordingly).		ŀ	4	ET BLVD	FAX:
D.	System-grounding and equipment-grounding conductors shall be sized in strict accordance with Sections 250-66 and 250-122, respectively, of the National Electrical Code. Adjust the respective sizes which are indicated on the drawings as required to accommodate changes (such as design-manufacture differences, design changes, etc.), voltage drop, etc.		Ŭ		BLUEBONNE ⁻	358
E.	Grounding conductors which are sized No. 8AWG or larger shall be stranded.		Ţ			66-5
F. G.	Grounding-conductor connections shall be braze, irreversible-crimp, or thermal-weld connected to metallic equipment racks and to ground rods. Grounding-conductor connections to equipment-ground busses and raceways shall be mechanically		[┥	8383	25)7
0.	bolted, clamped, or screwed, with the proper tightening torque, as required by the respective manufacturer, or by Article 110-14 of the National Electrical Code if the manufacturer's(s') recommendations are unavailable.		С	>		NE: (2
H. Gro	Grounding-electrode conductors shall be installed in raceways. unding-electrode systems shall consist of 3/4" diameter x 10'-0" long (minimum), copper-clad steel		⊧ ح	₹	NEER	PHON
	and the project, metallic, equipment rack.				CONSULTING ENGINE	
	ELECTRICAL & CONTROL SYSTEMS			NED:		N/WDN
		СН	AWN ECK	ED:		MCN WDN
	ESDII & Associates, L.L.C. CONSULTING ENGINEERING 11853 Market Place Avenue		ALE:		: ' SHOW	WDN N
	Baton Rouge, Louisiana 70816 Phone 225-291-9266 Email dannynesbit@nesbitandassociates.com	DA ⁻ J,	TE:		26,	

N&A Project Number 2542