CONSTRUCTION PLANS FOR

HARDSCAPE

TO SERVE



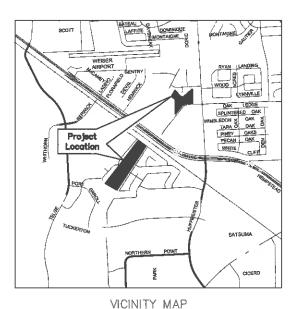
MUNICIPAL UTILITY DISTRICT NO. 248 CITY OF HOUSTON ETJ, HARRIS COUNTY, TEXAS

JOB NO. 0460-4898

DATE: August, 2019

PROJECT LOCATION OF PASS CREEK OF

LOCATION MAP



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(NEW STATEWIDE NUMBER OUTSIDE HOUSTON
1—800—545—8005

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III. TRAFFIC CONTROL PLAN	ET OR, AS PRESENTED OUT-BLI PIPE SIZE: RESTRICTOR PIPE SIZE: NOTE: ALL ROMEN SIZE: NOTE: ALL ROMEN SIZE: NOTE: ALL ROMEN SIZE: PRAYE ALL ROMEN SIZE: NOTE: ALL ROMEN SIZE: NOTE: ALL PUMPED DETENTION OUT-BLIS REQUIRE EROSION CONTROL MEASURES IN HARRIS COUNTY ROW: ALL PUMPED DETENTION OUT-BLIS TO ROADSIDE DITCHES REQUIRE MANHOLE W: LEAD THE PROJECT THE SIGNING SIZE: HAVE BEEN ADDRESSED	NOTE. COPY OF TCEQ APPROVAL FOR PRIVATE WATER & WASTE WATER SYSTEMS IS REQUIRED FOR PLAN APPROVAL NOTE. DEDICATED UNDERGROUND FIRE LINES MUST BE SUBMITTED TO THE HARRIS COUNTY FIRE PROTECTION GROUP FOR REVIEW AND GRAMITTING BY THE UNDERGROUND FIRE LINE CONTACTOR. CIVIL REFER DOES NOT REVIEW OR APPROVE UNDERGROUND FIRE LINES FOR THE FIRE PROTECTION SISTEMS			HCED SIGNATURE BLOCK PROJECT NAME: HCMUD 248 WHITE OAK SPRINGS & WHITE OAK FALLS TRAILS ADDRESS: D WHITE OAK SPRINGS (OFF) DRIVE WAS ACCEPTED BY THE FOLLOWING GROUPS FOR THE PURPOSES LISTED BELOW: ENGINEERING DIVISION BY INTERPOSE NO OBJECTION
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VERSION 18.0 JULY 9, 2019	REVIEW SHEET		HAR	RIS COUNTY PROJECT	NO. 1906190052 SHEET H-0.0 / 1 OF 20

GRADING NOTES

- A. The contractor shall refer to local prevailing codes and standards where applicable.
- B. The contractor shall be responsible for tree protection. Maintain existing grade within drip line of all existing trees. The contractor shall notify the Landscape Architect before commencing work where grading conditions dictate more than 2° of fill within the drip line.
- C. The contractor is responsible for the replacement of any existing materials that are damaged during construction, as determined by the Owner's authorized representative.
- D. Contractor shall be responsible for verifying locations of all underground utilities, pipes and structures prior to any grading activities. Contractor shall take sole responsibility for any cost incurred due to damage of mentioned utilities.
- E. Contractor shall not willfully proceed with construction as designed when it is obvious that unknown obstructions and/or grade differences exist that may not have been known during preparation of construction documents. Such conditions shall immediately be brought to the attention of the Owner. The contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
- F. No change in contract price will be allowed for any actual or claimed discrepancy between existing grades and those shown on plans after contractor has accepted existing grades and begun work on the site.
- G. Contractor shall be responsible for any coordination with subcontractors as required to accomplish grading operations.
- H. The location of features to be constructed and not specifically dimensioned may be determined by scale. If conflicts arise in the field, notify the Landscape Architect for resolution.
- In the field if scaled dimensions conflict with noted grades, and/or elevations, notify the Landscape Architect to resolve discrepancies.
- J. Fill and grade smooth all holes, depressions, and ruts that are a result of work performed under this contract. All areas are to be graded so as to provide positive drainage and outfall.
- K. Finished grade shall be 1" below adjacent curbs, pavement, and walks.

HARDSCAPE NOTES

- A. Contractor shall act in accordance with applicable local codes, ordinances and standards enforced at the time of construction.
- B. Contractor is responsible for verifying the accurate locations of property lines, rights of way and future construction easements and shall notify the Landscape Architect of any discrepancies prior to construction.
- C. Contractor is responsible for verifying all utility locations and shall notify the Landscape Architect of any discrepancies prior to construction.
- D. Contractor shall not willfully proceed with construction as designed when it is obvious that unknown obstructions and/or grade differences exist that may not have been known during preparation of construction documents. Such conditions shall immediately be brought to the attention of the Owner. The contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
- E. Contractor shall stake locations of all proposed hardscape elements for approval by the Landscape Architect prior to construction.
- F. Contractor shall layout curvilinear sidewalks and paths so as to make smooth and continuous transitions.
- G. Sidewalks to cross slope 0.5% min, 2% max. 5% max. slope on sidewalks.
- H. Dimensions taken from road edge are typically from Back of Curb (B.O.C.) unless otherwise noted on the plan. All dimensions taken from curbs, building face, or other hardscape features are taken perpendicular unless otherwise noted on plans.
- All hardscape element dimensions are to centerline of the element unless otherwise noted on the plans.
- J. The elevations of all proposed hardscape elements shall be verified in the field and approved by Landscape Architect.
- K. Contractor is responsible for replacement of any existing materials that are damaged during construction, as determined by the Landscape Architect or Owner's authorized representative.
- L. Contractor shall be responsible for existing tree protection.

LA

Planning & Landscape Architecture Sustainable Design Community Planning Urban Design Landscape Architecture
LJA Engineering, Inc. 2020 Britanpark Drivin Suite 600 Houston, 17 Januar 7784-12-5703

Key Ma

HCMUD 248
WHITE OAK
SPRINGS &
WHITE OAK
FALLS
TRAILS

HARDSCAPE DRAWINGS

THE CITY OF HOUSTON ETJ, HARRIS COUNTY, TEXAS

DATE	ISSUE	

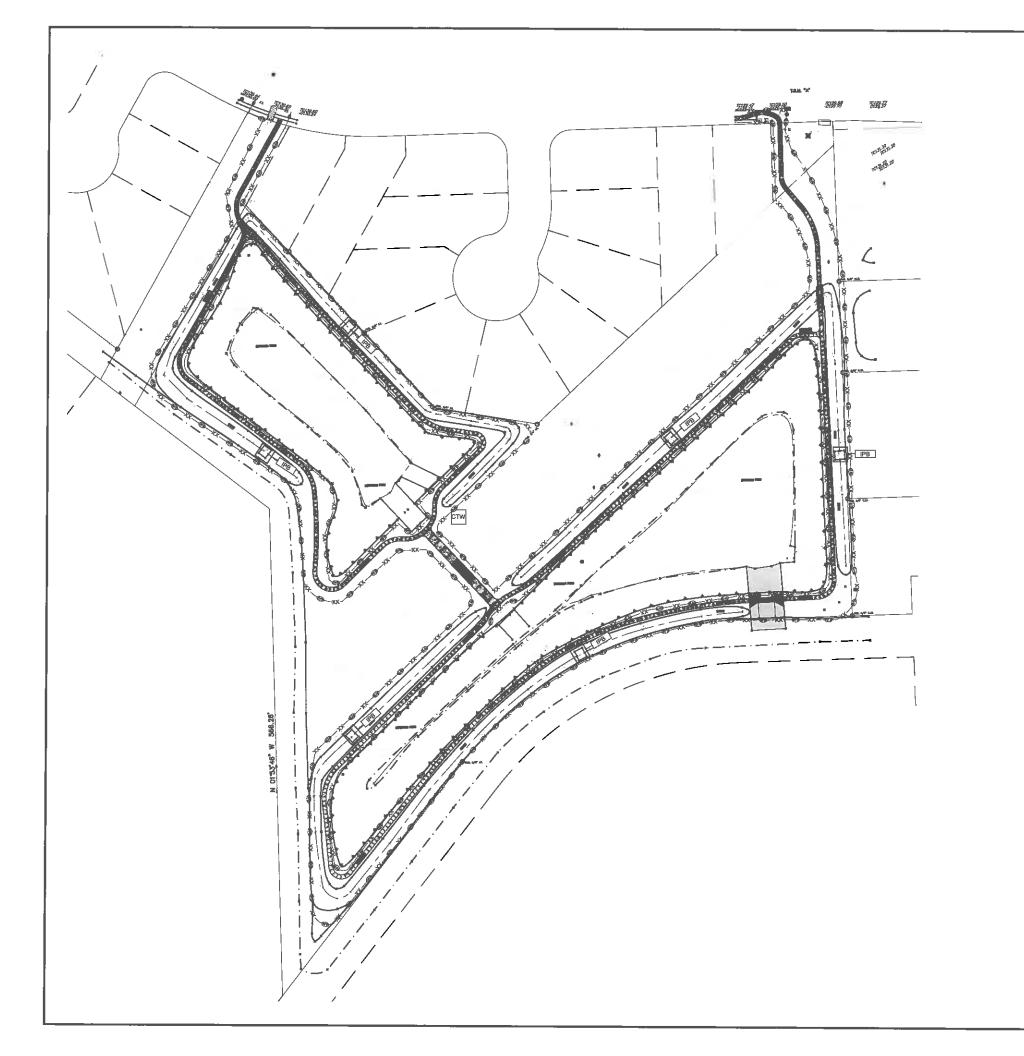
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Project #: 0460-4898

FOR CONSTRUCTION
Date: August 21, 2019

Revision Date Retrarks

GENERAL NOTES



SWPPP LEGEND

— (FB)——XX— REINFORCED FILTER FABRIC FENCE (SEE DETAIL, SHEET XX) MIN 2°FROM B.O.C.

CTW CONCRETE TRUCK WASHOUT

IPB INLET PROTECTION BARRIER (SEE DETAIL, SHEET XX)

STABILIZED CONSTRUCTION EXIT

LA

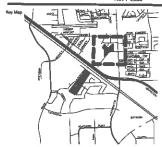
Planning& Landscape Architecture Sustainable Design Community Planning Urban Design Landscape Architecture

Landscape Architectum

LJA Engineering, In

2929 briarpark Drive Suite (
Mouston, Taxas 77042-370

713.953.5200 • f 733.953.50



HCMUD 248
WHITE OAK
SPRINGS &
WHITE OAK
FALLS
TRAILS

HARDSCAPE DRAWINGS

THE CITY OF HOUSTON ETJ, HARRIS COUNTY, TEXAS

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Project #: 0460-4898

FOR CONSTRUCTION

Date: August 21, 2019

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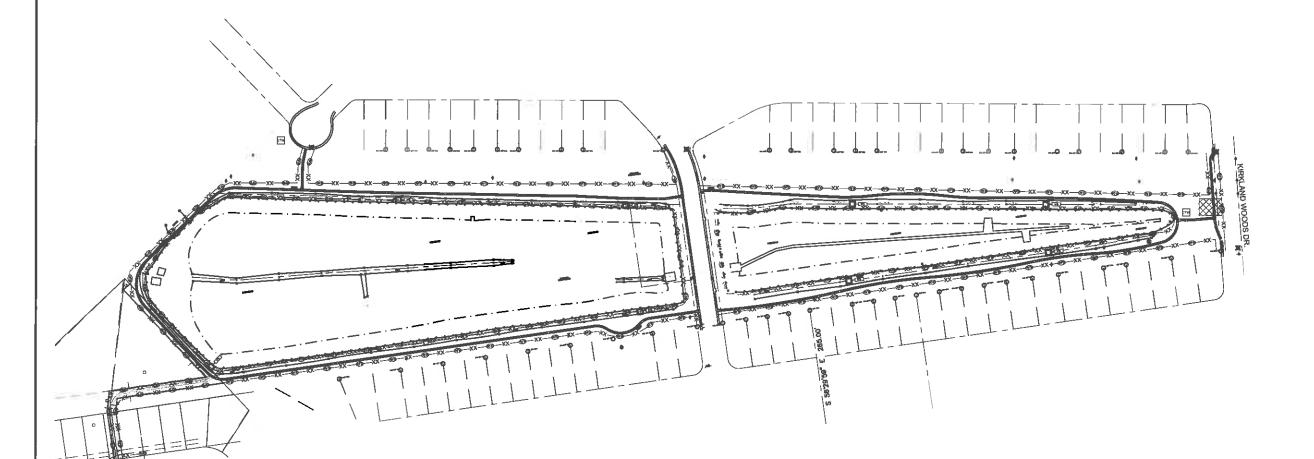
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SWPPP LEGEND

CTW CONCRETE TRUCK WASHOUT

IPB INLET PROTECTION BARRIER (SEE DETAIL, SHEET XX)

STABILIZED CONSTRUCTION EXIT



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HCMUD 248
WHITE OAK
SPRINGS &
WHITE OAK
FALLS
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HARDSCAPE DRAWINGS

THE CITY OF HOUSTON ETJ, HARRIS COUNTY, TEXAS

DATE ISS

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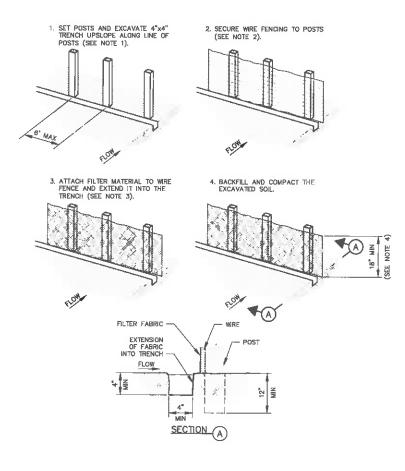


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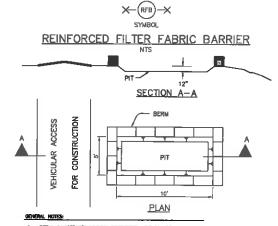
FOR CONSTRUCTION

Date: August 21, 2019

SWPP PLAN

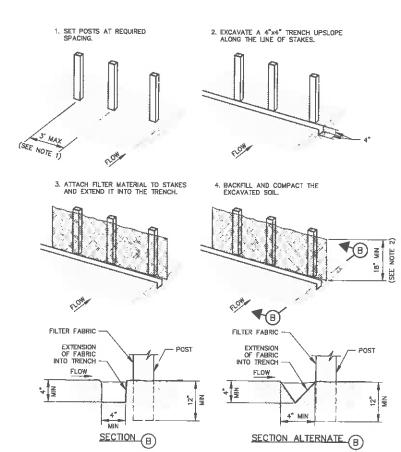


- 1. SET 2 INCH BY 2 INCH WOODEN STAKES SPACE A MAX OF 6 FEET APART AND EMBEDDED A MIN OF 12 INCHES,
- 2. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
- MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
- 5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS AND FOLDED.



- DETAIL ILLUSTRATÉS MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.
- WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.
- 3. WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INJURIENT FROM STORM WATER RUNGEF.
- CONTRACTOR TO REMOVE ALL DEBRIS AND REPLACE ANY VOIDS WITH CLEAN SOIL ONCE CONSTRUCTION IS COMPLETE.

CONCRETE TRUCK WASHOUT PIT

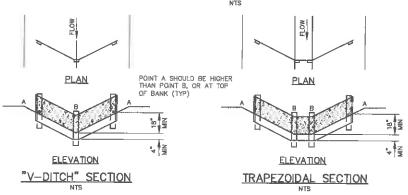


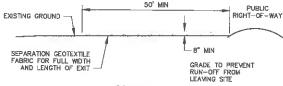
- 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PRE ASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
- ATTACH FILTER FABRIC TO WOODED STAKES. FILTER FABRIC FENCE SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS AND FOLDED.
- #5: MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.

WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS AND FOLDED.

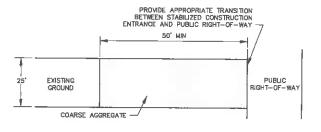


FILTER FABRIC FENCE





PROFILE

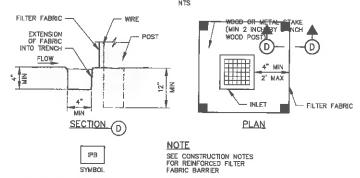


<u>PLAN</u>

- LENGTH SHALL IN AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
- 2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
- 3. WIDTH SHALL BE NOT LESS FULL WIDTH OF ALL POINTS OF INGRESS OR ENGRESS.
- STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWNOS.
- STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMMODATE A TRUCK WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE TRUCK WASHING AREA.
- STABILIZED CONSTRUCTION EXIT SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.



STABILIZED CONSTRUCTION EXIT



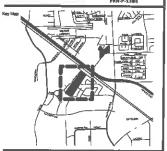
SILT FENCE DROP INLET PROTECTION BARRIER

CONTRACTOR NOTES

- CONTRACTOR IS RESPONSIBLE FOR DEVELOPING, IMPLEMENTING AND ADHERING TO THE CONTRACTOR DEVELOPED STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- CONTRACTOR SHALL PREPARE ALL NOTICE OF INTENT FORMS FOR THE WORK AND OBTAIN THE NECESSARY CERTIFICATES AND SIGNATURES FROM THE OWNER, APPLICABLE SUBCONTRACTORS AND OTHERS AS REQUIRED.

andscape Architectu

LJA Engineering, Inc 2929 Brisspark Orive Selte 60 Houston, Texas 77042-3703



HCMUD 248 WHITE OAK **SPRINGS &** WHITE OAK **FALLS TRAILS**

HARDSCAPE DRAWINGS

THE CITY OF HOUSTON ETJ, HARRIS COUNTY, TEXAS

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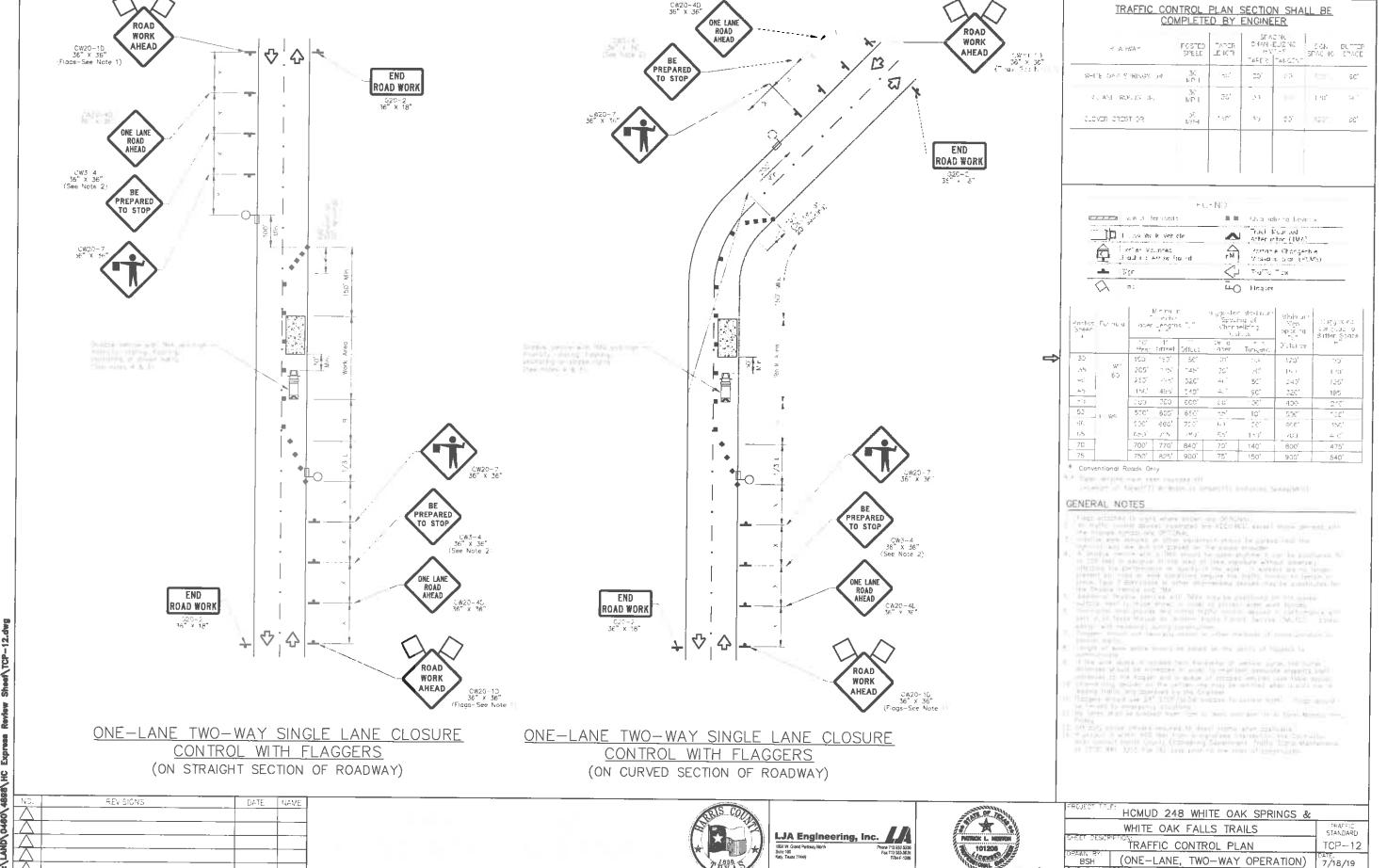
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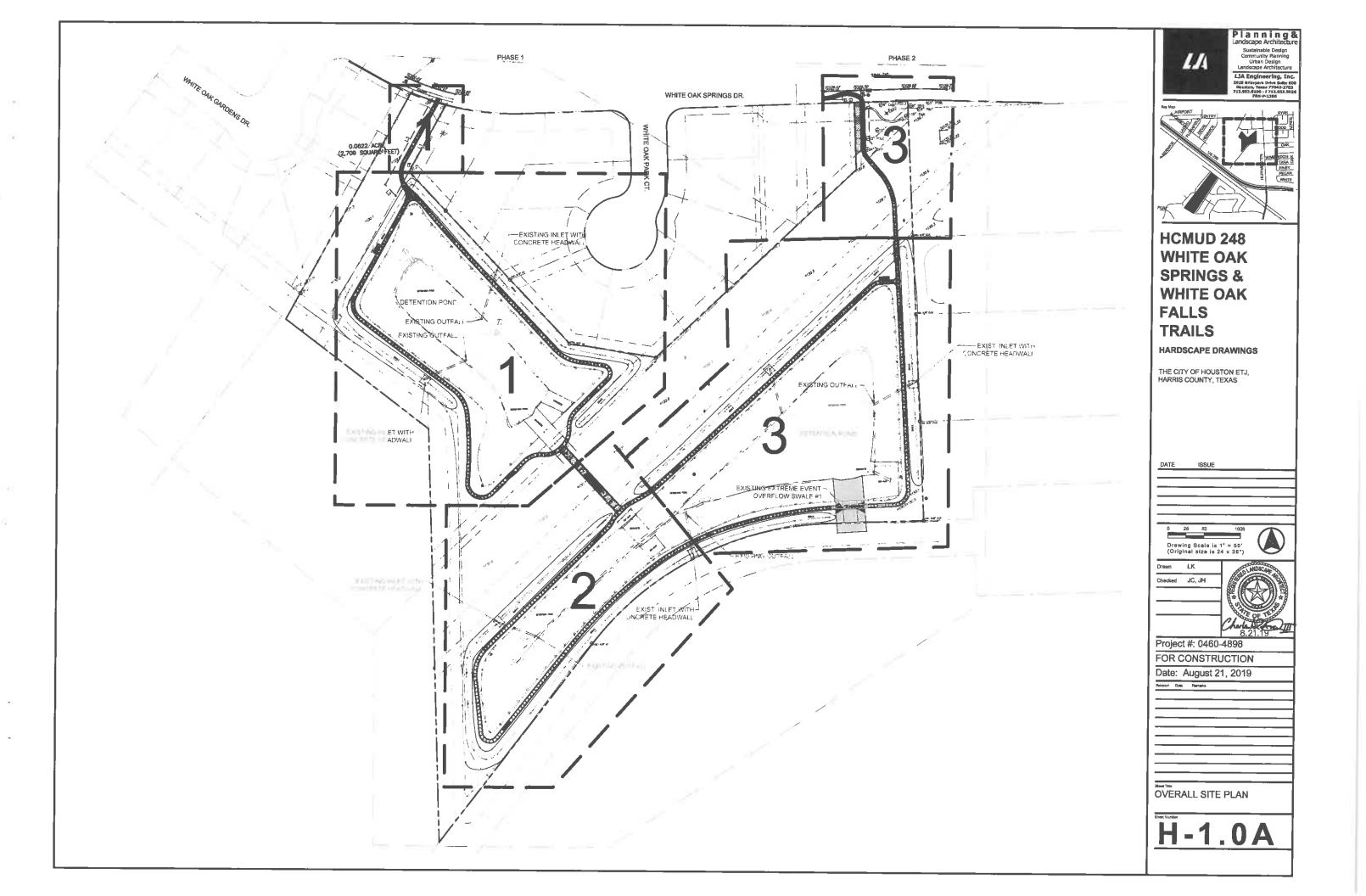
FOR CONSTRUCTION Date: August 21, 2019

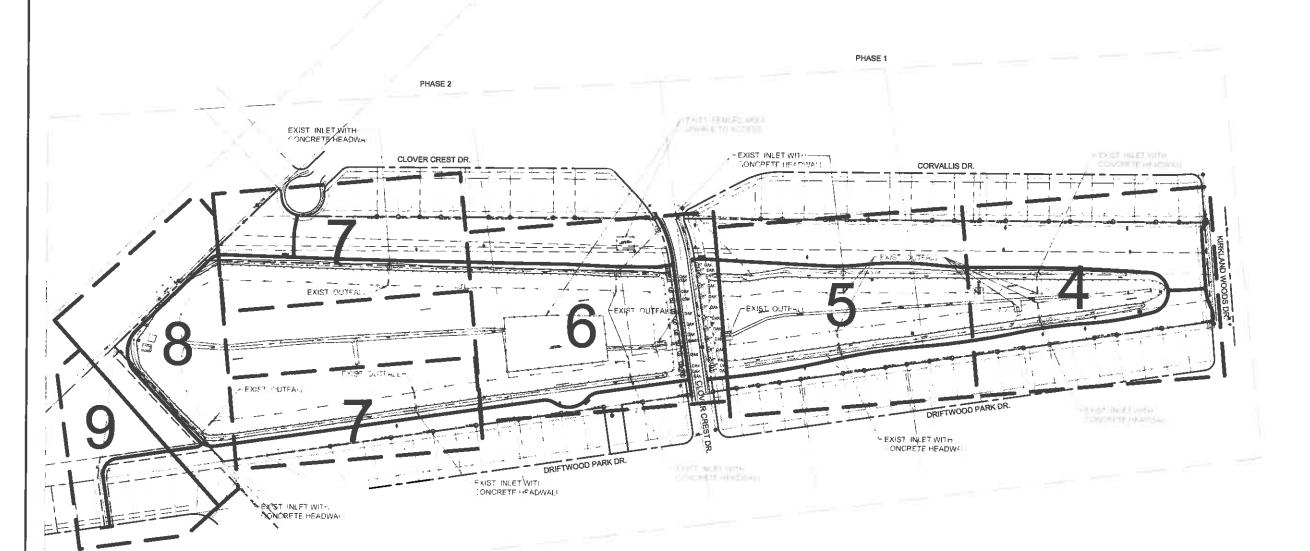
SWPP DETAILS



BSH

ON 4898 NC Express Review Sheet TCP-12-dwg

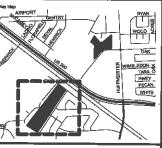




LA

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LJA Engineering, In-2929 Brispurk Orive Suita & Houston, Texas 77042-3270 713.953.5200 - / 712.983.50



HCMUD 248
WHITE OAK
SPRINGS &
WHITE OAK
FALLS
TRAILS

HARDSCAPE DRAWINGS

THE CITY OF HOUSTON ETJ, HARRIS COUNTY, TEXAS

DATE ISS

Drawing Scale Is 1" = 100'
(Original size is 24 x 36")



Drawn LK Checked JC, JH



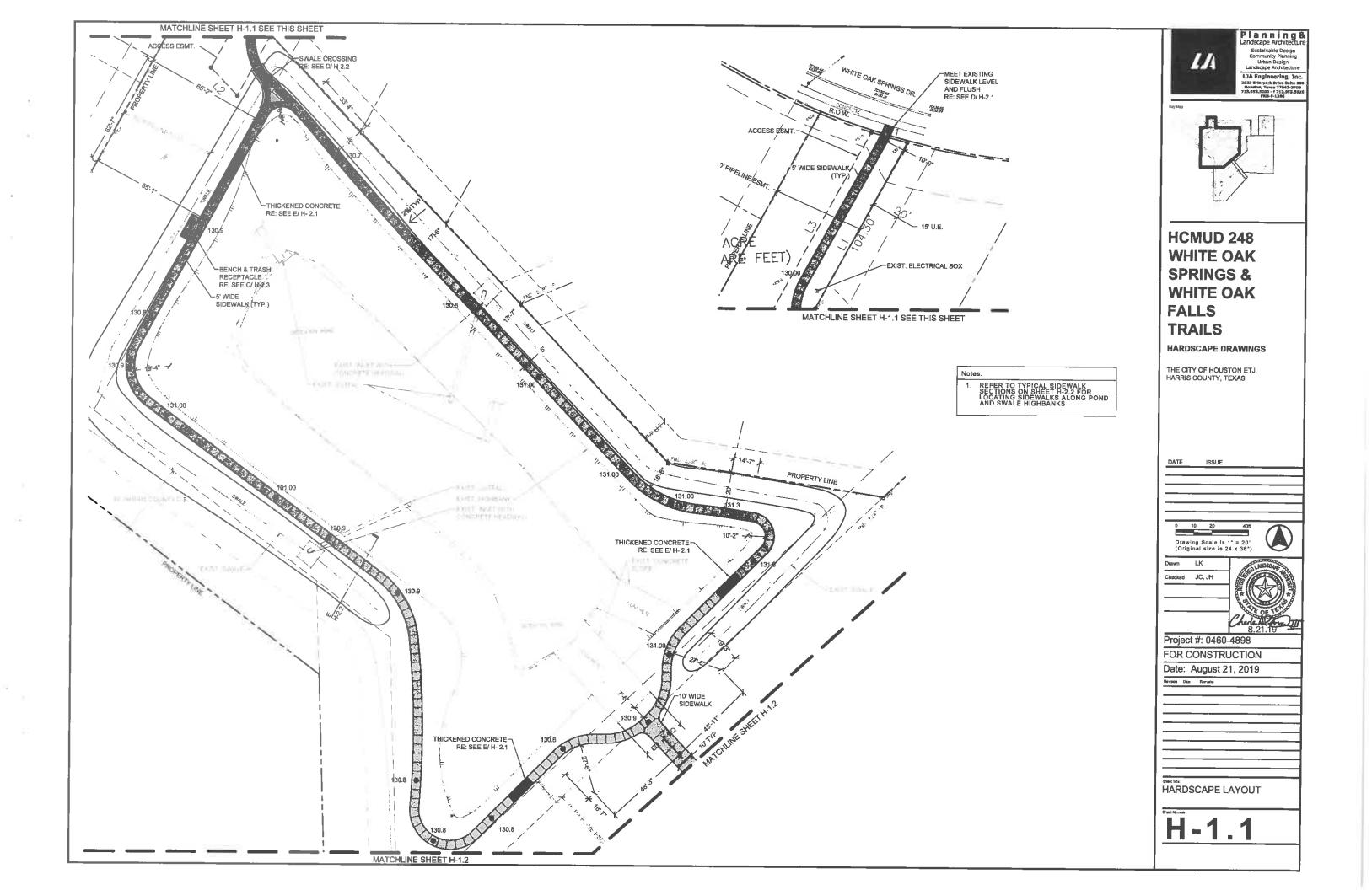
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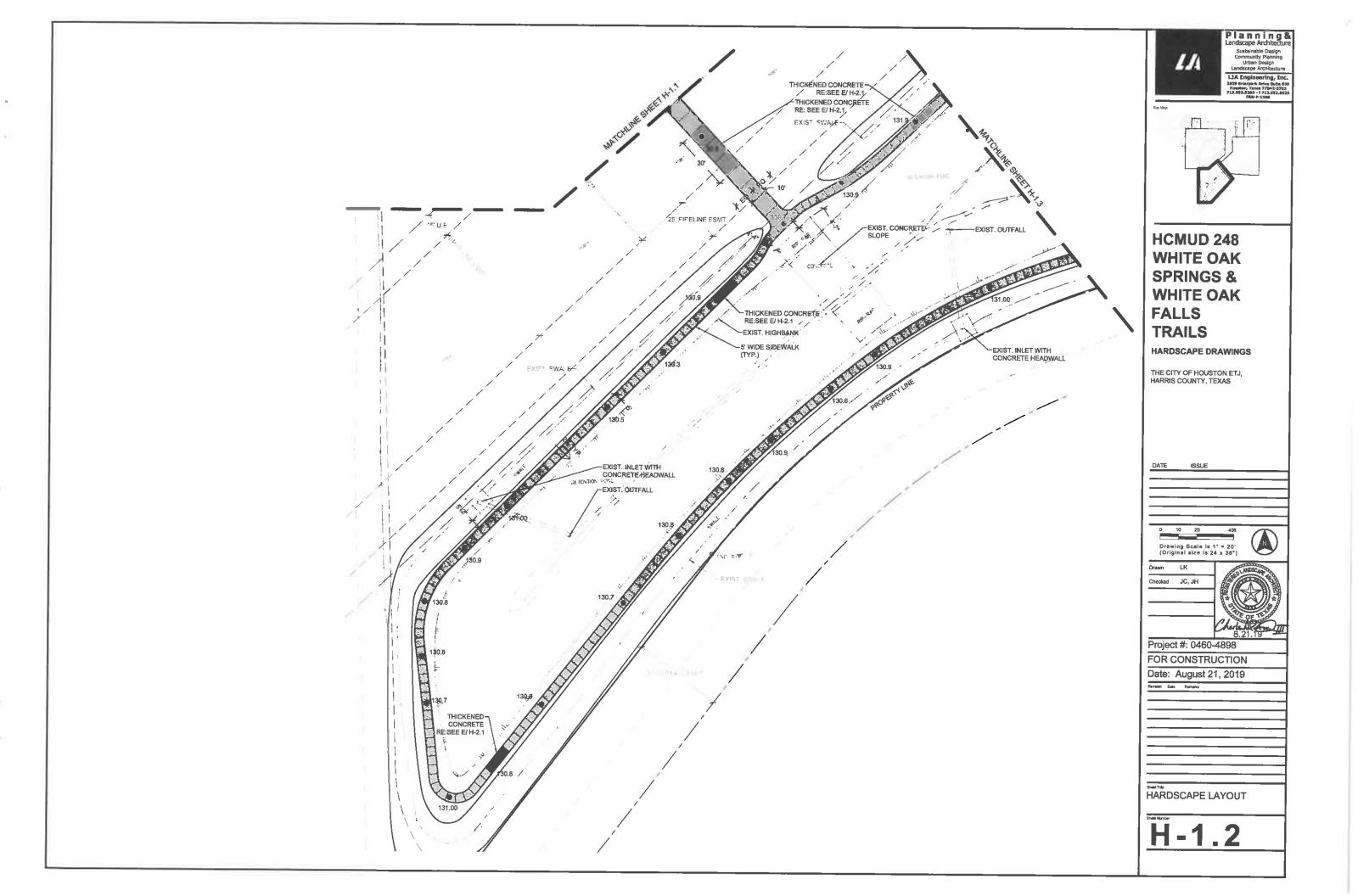
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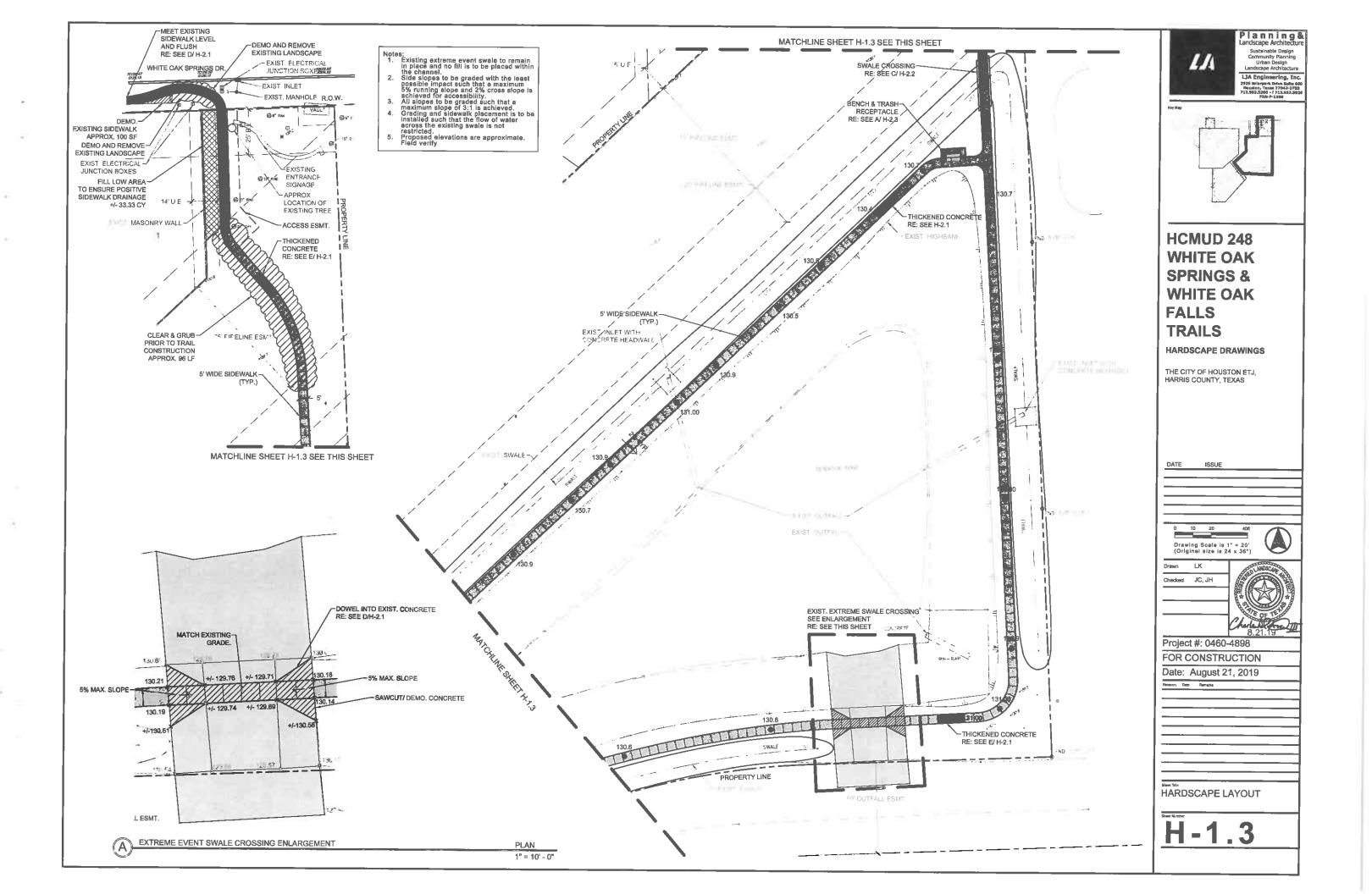
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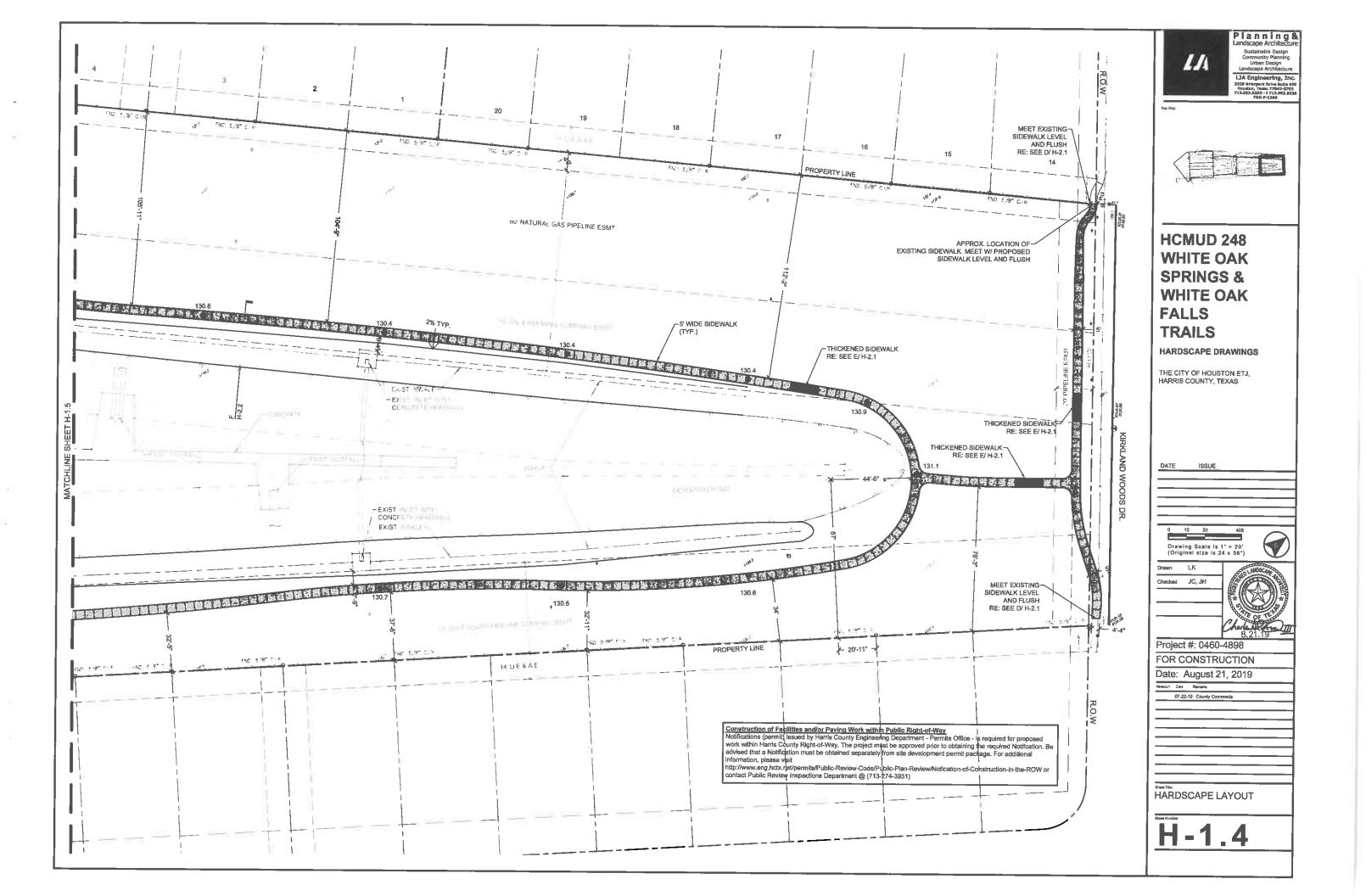
Sheet trib: OVERALL SITE PLAN

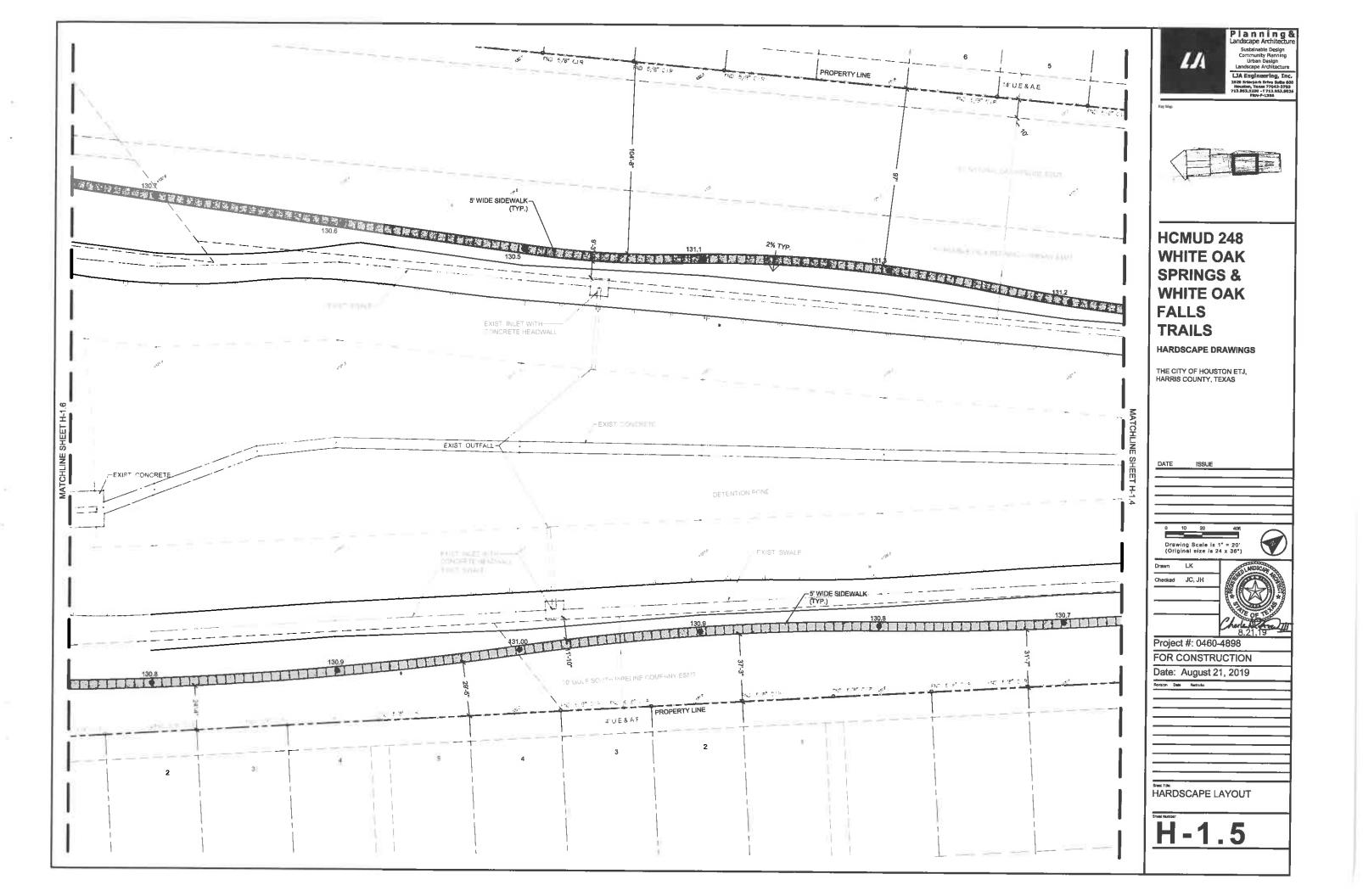
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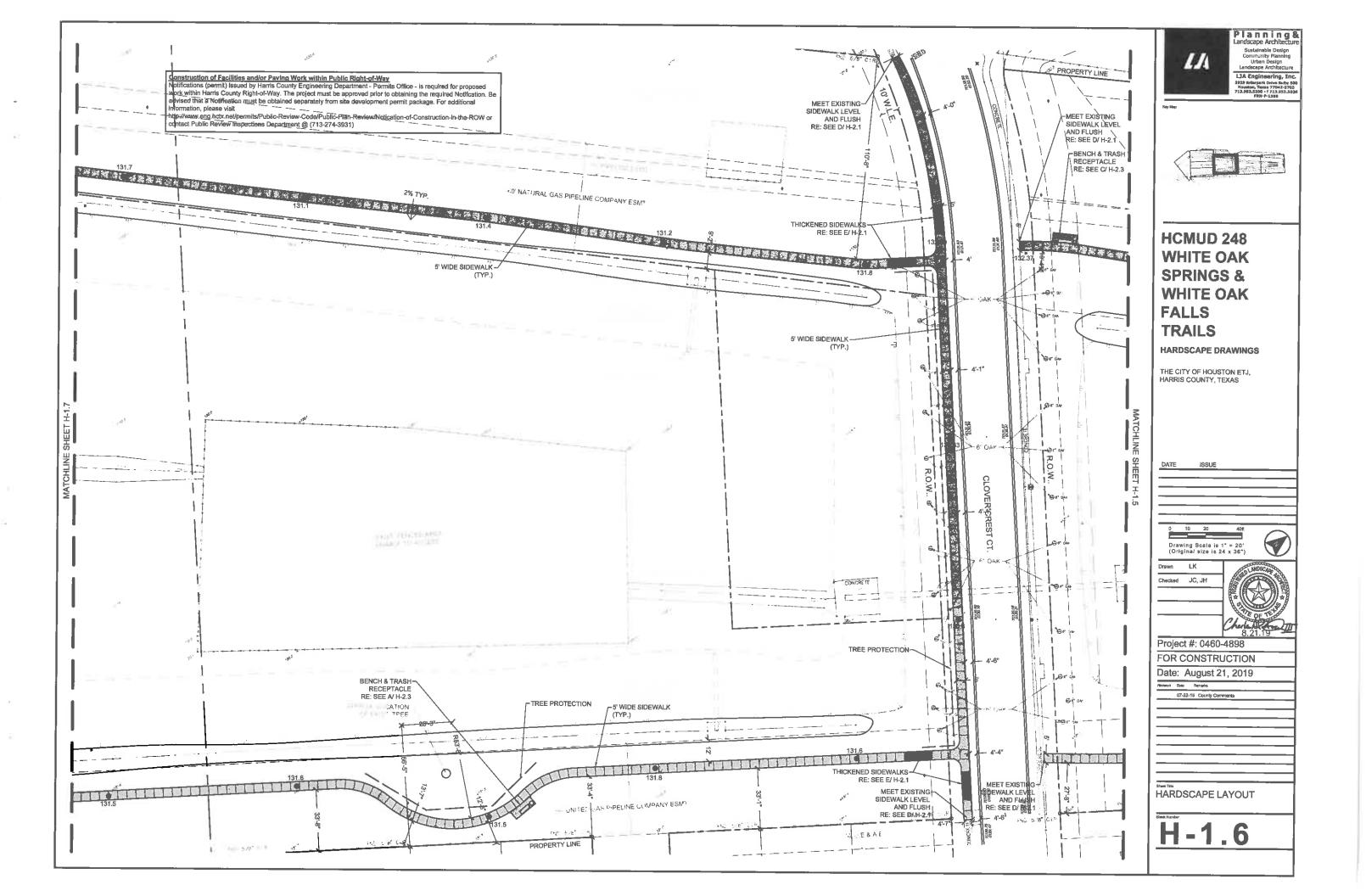


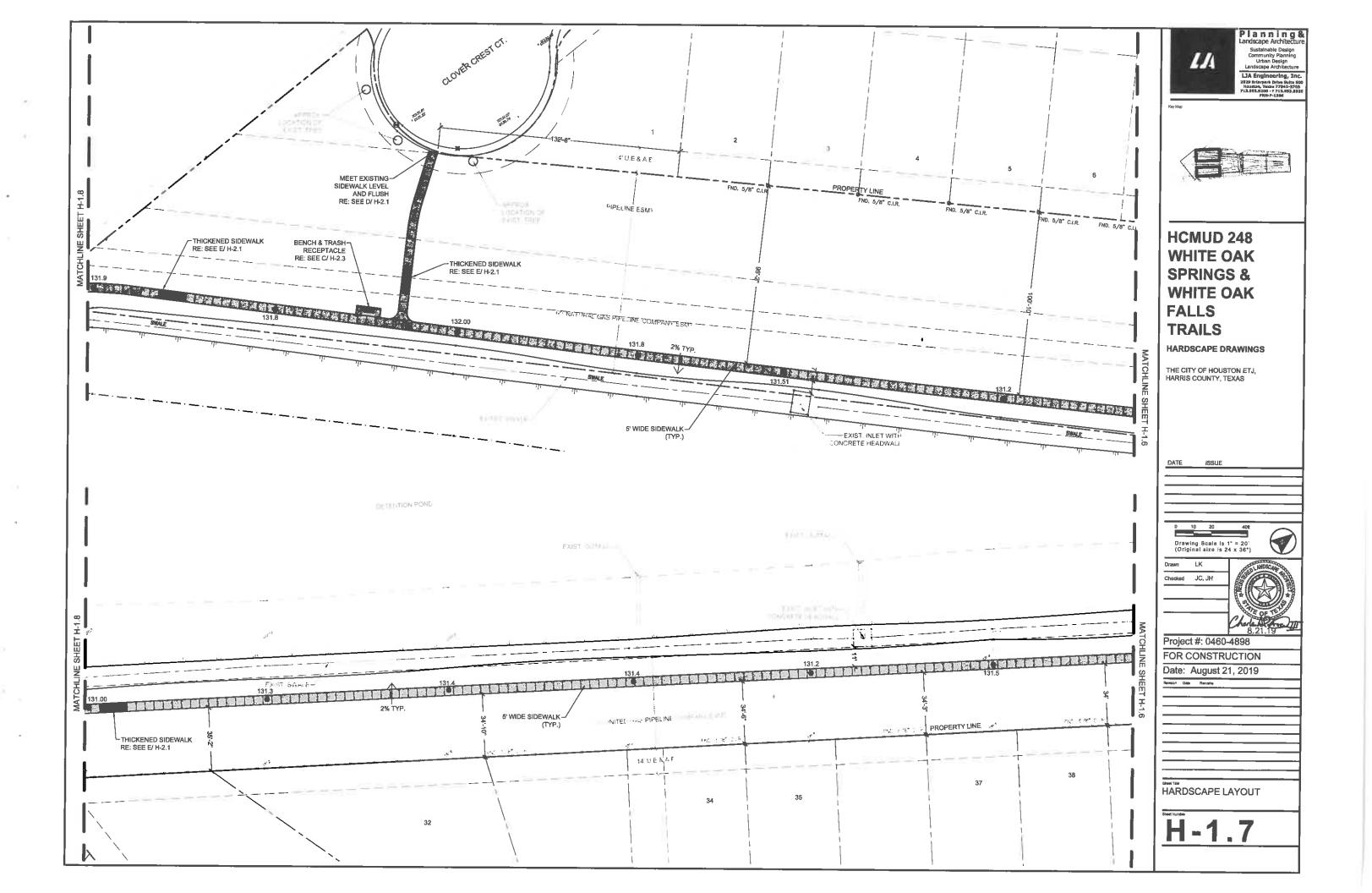


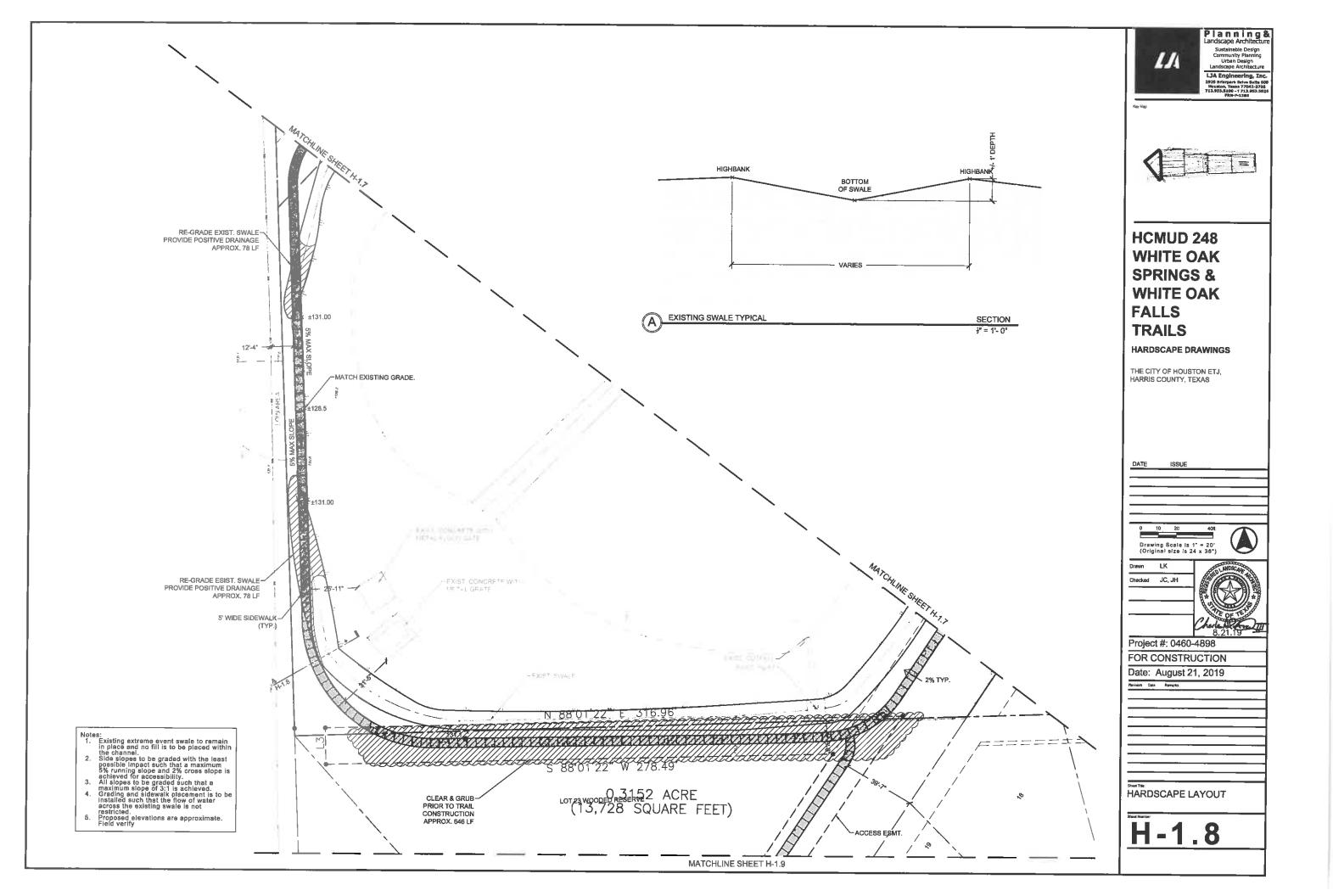








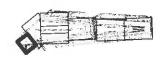




MATCHLINE SHEET H-1.8 ACCESS ESMT.-5' WIDE SIDEWALK -/ (TYP.) MEET EXISTING SIDEWALK LEVEL AND FLUSH RE: SEE D/ H-2.1 MEET EXISTING SIDEWALK LEVEL AND FLUSH RE: SEE D/ H-2.1

Notes:
1. Existing extreme event swale to remain in place and no fill is to be placed within the channel.
2. Slde slopes to be graded with the least possible impact such that a maximum 5% running slope and 2% cross slope is achieved for accessibility.
3. All slopes to be graded such that a maximum slope of 3:1 is achieved.
4. Grading and sidewalk placement is to be installed such that the flow of water across the existing swale is not restricted.
5. Proposed elevations are epproximate. Field verify

Pianning & Landscape Architecture



HCMUD 248 WHITE OAK **SPRINGS &** WHITE OAK **FALLS TRAILS**

HARDSCAPE DRAWINGS

THE CITY OF HOUSTON ETJ, HARRIS COUNTY, TEXAS

Drawing Scale is 1" = 20' (Original size is 24 x 36")

Checked JC, JH



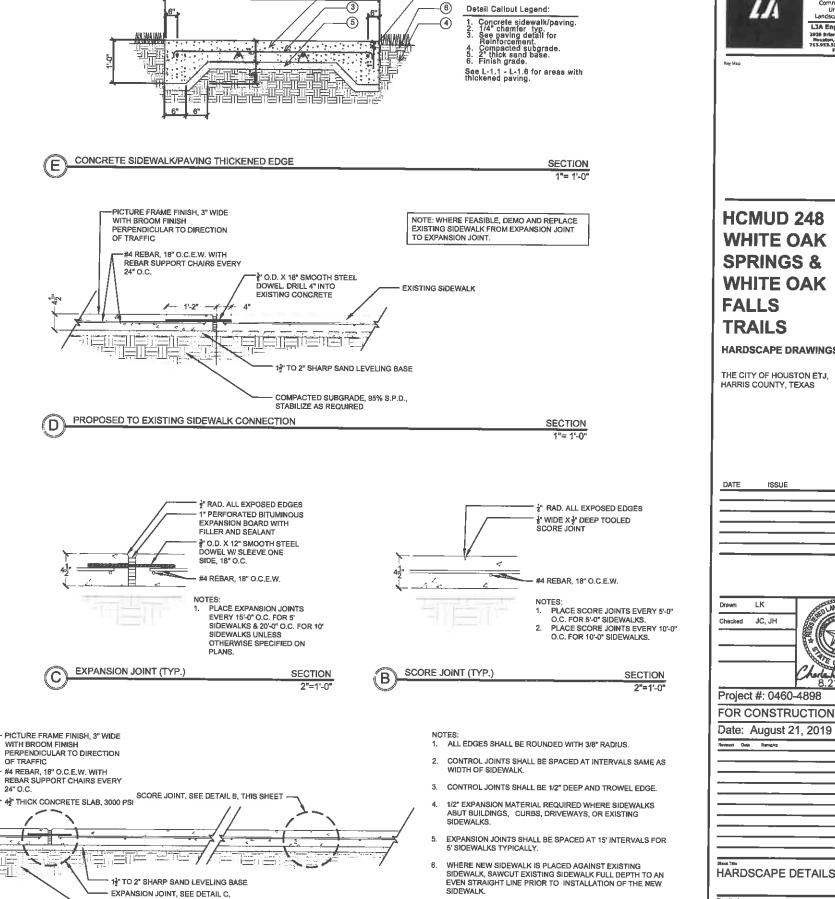
Project #: 0460-4898

FOR CONSTRUCTION

Date: August 21, 2019

STREET TRUE:
HARDSCAPE LAYOUT

H-1.9



- COMPACTED SUBGRADE, 95% S.P.D.,

Planning & Landscape Architecture

HCMUD 248 WHITE OAK **SPRINGS &** WHITE OAK **TRAILS**

HARDSCAPE DRAWINGS

THE CITY OF HOUSTON ETJ, HARRIS COUNTY, TEXAS

DATE	ISSUE	
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Drawn	LK	S LANDSCAS
Checked	JC, JH	
		OF TEST
		Charle 18 7 11
		0.21.19

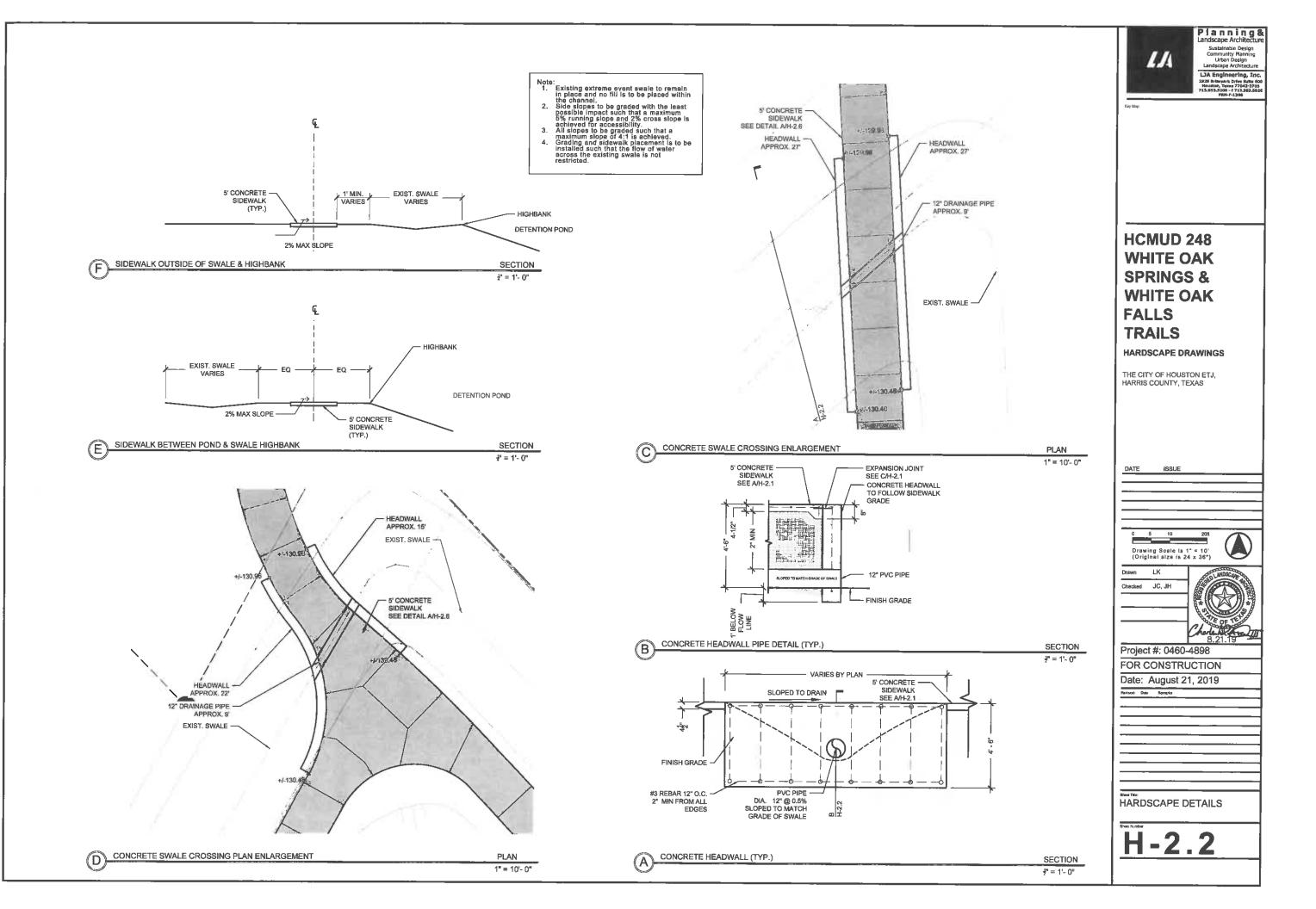
Project	#:	0460-4898

FOR CONSTRUCTION

Revision Date Ramgrics

HARDSCAPE DETAILS

SECTION 1"= 1'-0"



SITE FURNISHINGS SCHEDULE						
1	ITEM	QTY	TYPE / DESCRIPTION	MANUF./VENDOR	MODEL NUMBER	NOTES
	BENCH	5	BENCH160	Du Mor	150-60	SURFACE MOUNT TO FOOTING. POWDERCOAT COLOR: BLACK METAL
	TRASH RECEPTACLE	5	RECEPTACLE 157	Du Mor	157-22	SURFACE MOUNT TO CONCRETE PAD. POWDERCOAT COLOR: BLACK LID OPTION; CROWN UD

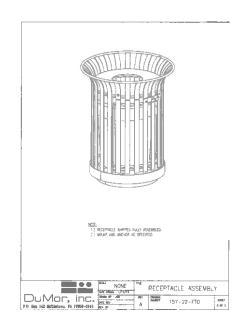
DRAWING FOR REFERENCE ONLY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROJECT BENCH SUPPLIER.
CONTACT: ERIC D HILLER
PAUL E ALLEN CO., INC.
972-724-2656 (R88-977-485'
972-724-2656 (FAX)
ERICHILLER@PAULEALLENCO.COM

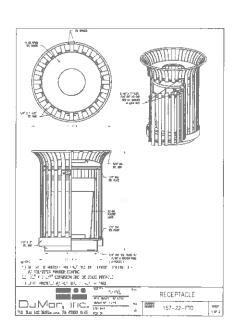
COLOR: NOTED IN SCHEDULE

GENERAL FURNISHING NOTES:

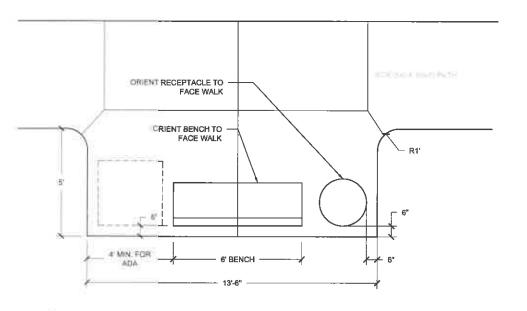
1. CONTRACTOR TO PROVIDE PRODUCT CUT SHEETS AND COLOR SELECTION FOR APPROVAL PRIOR TO FABRICATION / INSTALLATION

2. INSTALLAL FURNISHINGS PER MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE SPECIFIED



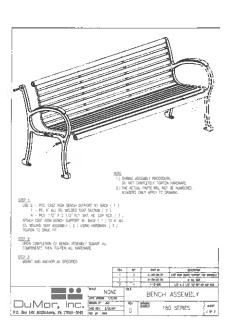


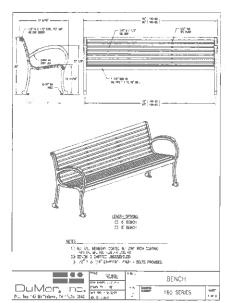
B TRASH RECEPTACLE



BENCH AND TRASH RECEPTACLE WITH CONCRETE PATH

SECTION ½" = 1'- 0"





HCMUD 248 WHITE OAK **SPRINGS &** WHITE OAK **FALLS TRAILS** HARDSCAPE DRAWINGS THE CITY OF HOUSTON ETJ, HARRIS COUNTY, TEXAS DATE LK Checked JC, JH Project #: 0460-4898 FOR CONSTRUCTION Date: August 21, 2019 Revision Date Remarks

HARDSCAPE DETAILS

Planning & Landscape Architecture Sustainable Design Community Planning Urban Design Landscape Architecture

LJA Engineering, Inc. 2929 Briarpark Drive Suits 601 Hussban, Texas 77912-3703 713.953.9200 - 7213.953.9020 PUN-F-1366

A BENCH