

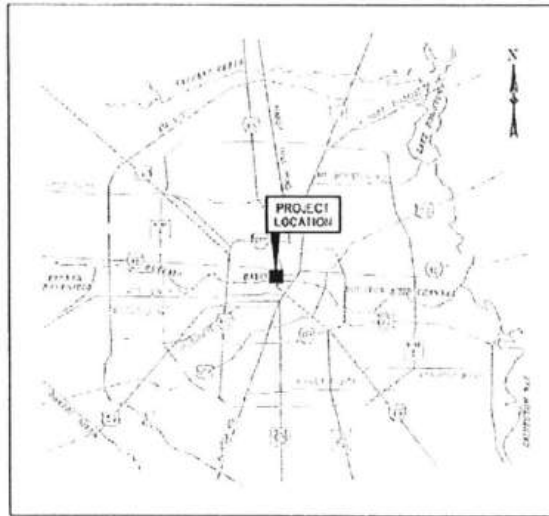
CITY OF HOUSTON SYSTEMIC SAFETY PROJECT

CONSTRUCTION PLANS FOR WHITE OAK AT GREENLEAF SAFETY IMPROVEMENTS

CCSJ NO. 0912-72-754

SUB-CSJ NO. 0912-72-757

WBS NO. N-T05000-0014-7

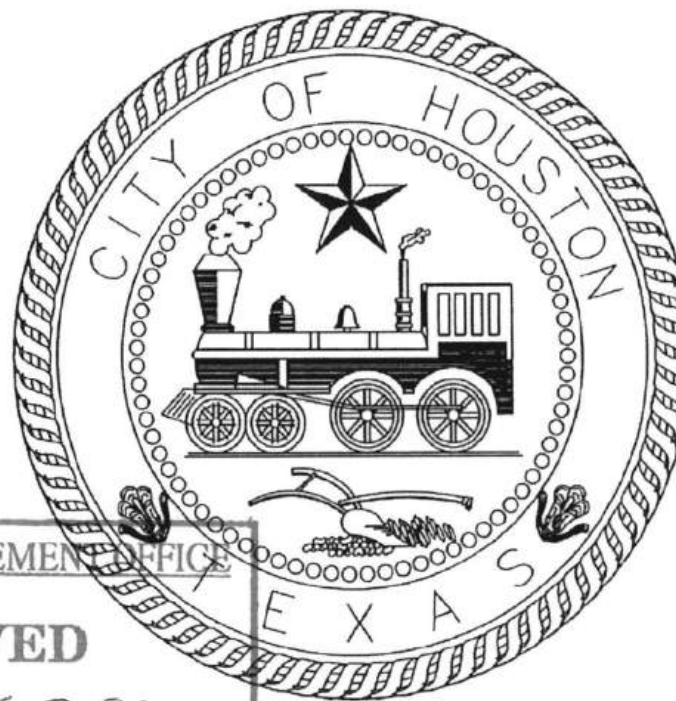


LOCATION MAP
N.T.S.



VICINITY MAP
1:2000

COUNCIL DISTRICT H
KEY MAP 493B
GIMS MAP 5358d
ZIP CODE 77009



FLOODPLAIN MANAGEMENT OFFICE

APPROVED

Development Permit #: 25-2588

Date: 6/18/25 By: [Signature]

MAYOR
JOHN WHITMIRE

CONTROLLER
CHRIS HOLLINS

DISTRICT
COUNCIL MEMBERS

- | | | | |
|--------------------------------|---------------------------------|-----------------------------------|-------------------------------------|
| AMY PECK
DISTRICT A | TARSHA JACKSON
DISTRICT B | ABBIE KAMIN
DISTRICT C | CAROLYN EVANS-SHABAZZ
DISTRICT D |
| FRED FLICKINGER
DISTRICT E | TIFFANY D. THOMAS
DISTRICT F | MARY NAN HUFFMAN
DISTRICT G | MARIO CASTILLO
DISTRICT H |
| JOAQUIN MARTINEZ
DISTRICT I | EDWARD POLLARD
DISTRICT J | MARTHA CASTEX-TATUM
DISTRICT K | |

COUNCIL MEMBERS
AT-LARGE

- | | |
|------------------------------|-------------------------------|
| JULIAN RAMIREZ
POSITION 1 | WILLIE DAVIS
POSITION 2 |
| TWILA CARTER
POSITION 3 | LETITIA PLUMMER
POSITION 4 |
| SALLIE ALCORN
POSITION 5 | |

PER RECORDS RECEIVED, THERE ARE NO PRIVATE UTILITIES WITHIN THE PROJECT LIMITS.

NOTE: BEFORE TREE PROTECTION AND SITE PREPARATION FOR ANY TREE REMOVAL, CONTACT THE CITY OF HOUSTON URBAN FORESTRY DEPARTMENT AT (832) 395-8459

FLOOD PLAIN INFO:
PER FEMA PANEL NOS. 48201C0670M (JUNE 9, 2014)
THE PROJECT AREA IS PARTIALLY LOCATED IN ZONE AE (100-YEAR FLOODPLAIN) AND FLOODWAY. BFE IS 38.05'.

THE CONTRACTOR SHALL NOTIFY THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING, OFFICE OF THE CITY ENGINEER, 48 HOURS PRIOR TO STARTING WORK ON THIS PROJECT. TELEPHONE NO. (832) 394-9098.

TEXAS 811 NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
WWW.TEXAS811.ORG/ OR
TEXAS811 OR 1-800-344-8377

 MEMORIAL HEIGHTS <small>PROFESSIONAL ENGINEERING</small> 1330 Foothold Blvd., Suite 2100 Houston, Texas 77099 713.858.9000	 QUIDDITY <small>Texas Board of Professional Engineers and Land Surveyors Reg. Nos. 1-23390 & 10046108</small> 6330 West Loop South, Suite 150 Dallas, TX 77401 713.777.5337	 STATE OF TEXAS VICTORIA M. MACALINO 142304 5/15/25 <i>Victoria Macalino</i>
SURVEYED BY: QUIDDITY FB NO.		
NOTE: CITY SIGNATURE VALID FOR ONE YEAR ONLY, AFTER DATE OF SIGNATURE.		
CITY OF HOUSTON HOUSTON PUBLIC WORKS		FOR CITY OF HOUSTON USE ONLY
DocuSigned by: <i>Johanna Clark</i> 808098A38F5E45F... Director of Houston Public Works		6/12/2025 Date:
SHEET NO 1 of 31		 80159 CITY ENGINEER HOUSTON, TEXAS




TDLR NO. TABS2025013744

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NO.	DATE	REVISION	APP.

 1330 Post Oak Blvd., Suite 2650 Houston, Texas 77056 713-850-9000	
 <small>Team of Professional Engineers and Land Surveyors, Inc. P-27228 & 30942-20 620 West Loop South, Suite 120, Houston, TX 77028 713.771.5537</small>	 SURVEYED BY: QUIDDITY FB NO. 3118 PAGES 17-19 <i>Victoria Macalino</i>
CITY OF HOUSTON HOUSTON PUBLIC WORKS	
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WBS NUMBER	N-T05000-0014
DRAWING SCALE	AS NOTED
CITY OF HOUSTON DISTRICT	HOUSTON, TEXAS
TOMS MATHEW	80159
SHEET NO.	2 OF 31

CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST	COUNTY		
HOU	HARRIS		

GENERAL CONSTRUCTION NOTES

- 1. UNLESS OTHERWISE NOTED AND APPROVED ON DRAWINGS, CONSTRUCT CIVIL INFRASTRUCTURE IN ACCORDANCE WITH THE EFFECTIVE EDITION OF THE HOUSTON PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS, AND SUPPLEMENTS, ADDENDA AND AMENDMENTS THEREIN. THE LATEST EDITION OF THE ABOVE PUBLICATIONS CAN BE FOUND AT: HTTP://WWW.HOUSTONPERMITTINGCENTER.ORG/OFFICE-CITY-ENGINEER/DESIGN-AND-CONSTRUCTION-STANDARDS.
2. THE DESIGN MUST BE CONSISTENT WITH THE EFFECTIVE EDITION OF HOUSTON PUBLIC WORKS INFRASTRUCTURE DESIGN MANUAL AND TCEQ (TEXAS COMMISSION ON ENVIRONMENTAL QUALITY) REQUIREMENTS.
3. UTILITIES SHOWN ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4567/811 OR 800-344-8377 AND LONG STAR NOTIFICATION CENTER AT 800-665-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION. UTILITIES MARKED WITH THE PUBLIC RIGHT OF WAY OR IN EASEMENTS SHALL COMPLY WITH TAC TITLE 10, PART 1, CHAPTER 18, RULE 116.9 AND THE AMERICAN PUBLIC WORKS ADMINISTRATION (APWA) UNIFORM COLOR CODE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER, STORM WATER LINES AND TRAFFIC CONTROL DEVICES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE EFFECTIVE EDITION OF HOUSTON PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEM, WATER LINES, STORM DRAINAGE, STREET PAVING, AND TRAFFIC AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, STREET PAVING, AND TRAFFIC, REFERENCED ABOVE AND SUPPLEMENTS, ADDENDA AND AMENDMENTS THEREIN, AT NO ADDITIONAL COST TO THE CITY OF HOUSTON.
5. CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER AND/OR CITY INSPECTOR, HOUSTON PUBLIC WORKS @ 832-394-9009 OR VIA FAX AT 832-395-4424 FOR INSPECTION AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
6. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER AND TO THE SATISFACTION OF THE OWNING AUTHORITY.
7. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.
8. CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.
9. CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS AND RECORD AS-BUILT CONDITIONS DURING CONSTRUCTION. THESE AS-BUILT DRAWINGS WILL BE SUBMITTED TO THE DESIGN CONSULTANT WHO WILL MAKE THE CHANGES ON THE ORIGINAL TRACINGS, LABEL EACH SHEET IN THE SET AS "RECORD DRAWINGS", AND RETURN IT TO THE OFFICE OF THE CITY ENGINEER.

ADDITIONAL GENERAL CONSTRUCTION NOTES

- 17. THE CONTRACTOR SHALL RETURN ALL EXISTING FACILITIES TO EXISTING OR BETTER CONDITION UNLESS OTHERWISE NOTED AT NO ADDITIONAL COST TO THE OWNER.
18. CONTRACTOR TO FOLLOW CONSTRUCTION DETAILS IF DRAWINGS DEVIATE FROM CITY OF HOUSTON STANDARDS.
19. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY CITY OF HOUSTON, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN CITY OF HOUSTON ROAD RIGHTS-OF-WAY.

URBAN FORESTRY NOTES

- 1. CONTRACTOR AND PROJECT INSPECTOR TO MEET WITH PARKS DEPARTMENT / URBAN FORESTRY BEFORE STARTING CONSTRUCTION TO DISCUSS TREE PROTECTION AND REMOVAL. CONTACT URBAN FORESTRY AT (832)305-8459.

UTILITY NOTES

- CAUTION: UNDERGROUND GAS FACILITIES
THE CONTRACTOR SHALL NOTIFY THE UTILITY COORDINATING COMMITTEE AT 1-800-345-8005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- FOR DISCREPANCIES REGARDING GAS LINES CALL (713) 836-3552 OR (713) 207-4200.
THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

- WARNING: OVERHEAD ELECTRICAL LINES
OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 732, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:
- ANY ACTIVITY WHERE PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN TEN (10) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.
PARTIES RESPONSIBLE FOR THE WORK INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT 713-207-2222.

- ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEED OR EASEMENT PROPERTY
NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEED OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6340 OR (713) 207-5769.
WARNING: UNDERGROUND ELECTRICAL UTILITIES
THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-345-8005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.
- ALL INFORMATION CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTORS ARE RESPONSIBLE MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THEREIN. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPELINES, CONDUITS, AND STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES OR BY EXCAVATING IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES WHEN AND WHERE THEY FALL IN THE PATH OF CONSTRUCTION.
- THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 AND TEXAS ONE CALL AT 1-800-245-4545, FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION.
- THE LOCATION OF ANY CENTERPOINT ENERGY UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. THEY AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
ALL PROPOSED FACILITIES SHALL MAINTAIN 12" CLEAR FROM ALL EXISTING UTILITIES.

- AT&T TEXAS/SWBT FACILITIES
1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL CALL 1-800-344-8377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES, THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER KEVIN RAY (713) 614-1983 OR E-MAIL HIM AT KR7896@att.com, IF CABLE LOCATE REQUESTS ARE NOT COMPLETED FOR OUR AT&T TEXAS/SWBT FACILITIES.

STREET & BRIDGE CONSTRUCTION NOTES

- 1. FILL AREAS ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND EACH COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY PRIOR TO INSTALLATION OF WATER LINE AND FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS.
2. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURBED INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.
3. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.
4. EXISTING PAVEMENTS, CURBS, DRIVEWAYS, AND SIDEWALKS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY OF HOUSTON STANDARDS, WITH LATEST ADDENDA AND AMENDMENTS THEREIN.
5. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY UPON COMPLETION OF JOB SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.
6. EXPOSED 15' OF REINFORCING STEEL AT PROPOSED SAVED JOINT IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS. HORIZONTAL DOWELS SHALL BE #6 BARS 24" LONG 24" C-C DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB WITH "PO ROC" OR EQUAL.
7. WHEELCHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF HOUSTON STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.
8. PRIOR TO STREET CONSTRUCTION, THE CONTRACTOR SHALL CONTACT HOUSTON PUBLIC WORKS AT (PHONE) 832-394-9078 AND COMPLY WITH ALL REQUIREMENTS FOR THE ISSUANCE OF NECESSARY PERMITS/WORK ORDERS FOR STREET CONSTRUCTION.
9. DOUBLE REFLECTORIZED BLUE TRAFFIC MARKERS SHALL BE PLACED 8-INCHES OFFSET OF THE CENTERLINE OF ALL FIRE HYDRANT LOCATIONS BY THE PAVING CONTRACTOR. HYDRANTS LOCATED AT INTERSECTIONS SHALL HAVE A BUTTON PLACED ON EACH STREET.

STORM SEWER CONSTRUCTION NOTES

- 1. STORM SEWER SHALL BE REINFORCED CONCRETE PIPE (C-78, CLASS II), AND SHALL BE INSTALLED, BEDDED, AND BACK FILLED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 2317-02, 02317-3, 02317-04, 02317-06, AND 02317-07 (JULY 2019) AS APPLICABLE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
2. ALL STORM SEWER CONSTRUCTED IN SLOPELOT EASEMENT SHALL BE R.C.P. (C-78, CLASS II) AND SHALL BE EMBEDDED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-04, 02317-06, AND 02317-07 AS APPLICABLE.
3. ALL SEWER UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE BACKFILLED WITH 1-1/2" SACK GYPSUM/C.Y. STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.
4. ALL TRENCH BACKFILL SHALL BE IN 8" LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS IN EACH LIFT, AND COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMACTION TEST (ASTM D-998/AASHTO 199).
5. CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINT CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.
6. ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24" AND LARGER R.C.P. (C-78, CLASS II).
7. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES AND INLET LEADS ARE TO BE PLUGGED WITH 6" BRICK WALLS UNLESS OTHERWISE NOTED.
8. MINIMUM HORIZONTAL CLEARANCE BETWEEN ANY STORM PIPE AND BOX SHALL BE AT LEAST 48-INCHES FROM EXTERIOR OF THE STORM PIPE OR BOX TO THE EXTERIOR OF THE EXISTING OR PROPOSED PUBLIC OR PRIVATE UTILITY AND OTHER APPURTENANCES. MINIMUM VERTICAL CLEARANCE BETWEEN ANY STORM PIPE AND BOX SHALL BE AT LEAST 24-INCHES FROM EXTERIOR OF THE STORM PIPE OR BOX TO THE EXTERIOR OF THE EXISTING OR PROPOSED PUBLIC OR PRIVATE UTILITY AND OTHER APPURTENANCES.
9. ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION 02080-ADJUSTING MANHOLES, INLETS, AND VALVE BOXES TO GRADE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF THIS WORK.
11. ALL DITCHES SHALL BE GRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREA SHALL BE REGRADED, SEEDED, AND FERTILIZED.
12. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.

SWPPP CONSTRUCTION NOTES

- 1. CONTRACTOR SHALL IMPLEMENT ILT PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SECTIONS SO THAT EXCAVATION MATERIAL CAN BE QUERLY HAUL AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEEPED BACK INTO THE EXCAVATED AREA.
3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FROM THE EXCAVATED AREA.
4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
- DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- STRUCTURAL CONTROL MEASURES.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SOODING IS DISTURBED BY EXCAVATION OR BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SOODING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SOODING.

METRO GENERAL NOTES

- 1. CONTRACTOR SHALL NOTIFY METRO AT 713-615-7119 TWO WEEKS PRIOR TO MOBILIZING TO THE PROJECT SITE TO COORDINATE IMPACTS TO BUS OPERATIONS DURING CONSTRUCTION.
2. CONTRACTOR SHALL CONTACT FACILITIES MAINTENANCE AT 713-615-9195 OR FACILITIESMAINTENANCE@METRO.ORG 14 WORKING DAYS PRIOR TO PLANNED IMPACTS TO EXISTING METRO BUS STOPS TO SCHEDULE THE REMOVAL OF ANY BENCHES, WASTE RECEPTACLES, AND SIGNS AS REQUIRED.
3. CONTRACTOR SHALL NOTIFY METRO AT LEAST 72 HOURS PRIOR TO PLACEMENT OF CONCRETE SUBSLAB FOR PAVERS AT BUS STOP AND ALLOW METRO TO INSPECT THE SLAB FORM FOUNDATION PRIOR TO PLACEMENT OF CONCRETE.
4. CONTRACTOR SHALL COORDINATE WITH METRO, AS NECESSARY, FOR INSTALLATION OF VARIOUS FEATURES AT FINISHED BUS STOP LOCATIONS.
5. THERE ARE NOTICE, INSPECTION, AND TRAINING REQUIREMENTS ASSOCIATED WITH THIS WORK THAT ARE IN ADDITION TO THE GENERAL REQUIREMENTS. SEE METRO "ADJACENT CONSTRUCTION PROJECT MANUAL".
6. THE AUTHORITY SHALL BE RESPONSIBLE FOR DESIGN SUBMITTALS AS INDICATED IN SECTION 1.3.C, 1.3.D, AND 2.0 (EXCEPT 2.3) OF THE "ADJACENT CONSTRUCTION PROJECT MANUAL". CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER METRO SUBMITTALS AND APPROVALS.
7. METRO REQUIRES TRAINING FOR EVERYONE WORKING WITHIN THE SAFETY ZONE. THIS PROJECT INCLUDES WORK IN THE SAFETY ZONE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAINING.
8. THE GREETER METRO POINT OF CONTACT FOR ANY CONSTRUCTION RELATED QUESTIONS, INCLUDING FLAGGING, IS JOSE CASTELLANOS AT 713-739-3777 OR JOSE.CASTELLANOS@METRO.ORG.

METRO'S NOTES FOR WORK ADJACENT TO BUS STOPS

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY METRO FACILITIES DAMAGED DURING CONSTRUCTION. IF THE CONTRACTOR CANNOT IMMEDIATELY MAKE THE REPAIRS TO METRO'S SATISFACTION, METRO WILL MAKE THE REPAIRS AND BILL THE COST TO THE CONTRACTOR.
2. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY IN THE FIELD THAT THERE ARE NO CONFLICTS WITH OUR ELECTRICAL POWER, FIBER OPTICS, COMMUNICATION, SIGNALING, HIGH VOLTAGE CABLES OR ANY OTHER METRO INFRASTRUCTURE.
3. THE CONTRACTOR SHALL HAND EXCAVATE IN THE VICINITY OF COMMUNICATION AND POWER LINES FEEDING THE METRO SYSTEM.
4. THE CONTRACTOR SHALL CONTACT THE DIRECTOR OF UNIVERSAL ACCESSIBILITY, TM MILLS BY EMAIL AT TM14@METRO.ORG OR BY PHONE 713-739-6881 ONE WEEK PRIOR TO CONSTRUCTION. METRO WILL ASSIGN AN INSPECTOR TO ASSURE NO DAMAGES ARE MADE TO METRO'S FACILITIES. UNIVERSAL ACCESSIBILITY WILL COORDINATE ANY PERMANENT OR TEMPORARY IMPACT ON BUS STOPS, SHELTERS AND SIDEWALK TO MAINTAIN ACCESSIBILITY.
5. THE CONTRACTOR SHALL CONTACT METRO BUS OPERATIONS A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO CONSTRUCTION IMPACTING BUS STOPS AND BUS ROUTES. THE CONTACT INFORMATION IS CARL TAYLOR, CARL.TAYLOR@METRO.ORG 713-615-7219 OR SHIRLEY MITCHELL, SHIRLEY.MITCHELL@METRO.ORG 713-615-7212.
6. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY BUS STOP FACILITIES NEEDED, EXCEPT FOR BUS STOP SIGNS, AT NO COST TO METRO AND SHALL RESTORE ANY AFFECTED BUS STOPS PER CON IDM AND MEET CURRENT AMERICAN DISABILITY ACT (ADA) REQUIREMENTS BY LOCAL, STATE AND FEDERAL CODE AND REQUIREMENTS. NO BUS STOP SHALL BE PERMANENTLY REMOVED WITHOUT APPROVAL FROM METRO.

PAVING CONSTRUCTION NOTES

- 1. PAVEMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING CITY OF HOUSTON DOCUMENTS: "STANDARD CONSTRUCTION SPECIFICATIONS" AND "STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATERLINES, STORM DRAINAGE AND STREET PAVING".
2. THE CONTRACTOR(S) SHALL NOTIFY CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORK AND ENGINEERING, OFFICE OF THE CITY ENGINEER, 48 HOURS PRIOR TO START OF WORK ON THIS PROJECT. TEL. NO. 832-394-9007, FAX NO. 832-395-4424.
3. ALL RETURNS SHALL HAVE A 25-FOOT RADIUS AT FACE OF CURB UNLESS OTHERWISE NOTED.
4. CUREDLINES SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE OBSERVED.
5. ALL INTERSECTIONS SHALL BE CONSTRUCTED WITH WHEELCHAIR RAMPS IN ACCORDANCE WITH THE GOVERNOR'S OFFICE OF TRAFFIC SAFETY MEMORANDUM DATED MAY 6, 1978, (HIGHWAY SAFETY ACT - 1973 SECTION 208). SEE CITY OF HOUSTON ACCESSIBLE COMPLIANT CURB RAMPS AND LANDINGS DETAIL. ALL WHEELCHAIR RAMPS SHALL COMPLY WITH CURRENT THE AMERICANS WITH DISABILITIES ACT (A.D.A.) SPECIFICATIONS. RAMPS TO BE COLORED WITH A COLOR TO BE DETERMINED BY THE ENGINEER CONFORMING TO ASTM-C979.
6. ALL FILL IN EXISTING OR PROPOSED CITY OF HOUSTON RIGHT-OF-WAY, INCLUDING BACKDRESSING BEHIND THE CURB, SHALL BE PLACED IN MAXIMUM LOOSE LIFTS OF EIGHT INCHES (8") OR LESS AND COMPACTED TO 95% OF MAXIMUM DENSITY AT -1X TO +5X MOISTURE CONTENT AS DETERMINED BY AASHTO TEST METHOD T-99.
7. ALL CONCRETE PAVEMENT TO BE 28 TO 42-FOOT 8-8 TWELVE (12) INCH REINFORCED CONCRETE WITH SIX (6) INCH REINFORCED CONCRETE CURBS, UNLESS OTHERWISE NOTED. CONCRETE MIX SHALL BE AS SPECIFIED.
8. PAVEMENT REINFORCEMENT FOR REIN. CONCRETE SHALL BE #6, GRADE 60 STEEL REBARS ON 18-INCH CENTERS FOR LONGITUDINAL STEEL, AND ON 36-INCH CENTERS FOR TRANSVERSE STEEL. REINFORCEMENT SHALL BE PLACED ON CHAIRS SPACED 36" CENTER TO CENTER. BENT BARS SHALL BE GRADE 40.
9. REFER TO THE LATEST CITY OF HOUSTON PAVEMENT MARKING DETAILS.
10. SIDEWALK BULLNOSES CONSTRUCTED IN ESPLANADES SHALL BE SIX INCHES (6") THICK WITH SURFACE COLORED BLACK. WHEN CURBS ARE TEN FEET (10') AND LESS IN WIDTH FROM FACE-TO-FACE OF CURBS. FOR CONCRETE ROADWAYS, SURFACE SHALL BE COLORED BLACK. FOR ASPHALT ROADWAYS, SURFACE SHALL BE UNCOLORED.

TRAFFIC CONTROL NOTES

CONTRACTOR OR OWNER SHALL SUBMIT TRAFFIC CONTROL PLANS WITH THE MOBILITY PERMIT APPLICATION. THE PLANS SHALL BE DRAWN TO SCALE AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS.
THE GENERAL NOTES THAT SHALL BE INCLUDED ON THE TRAFFIC CONTROL PLAN CAN BE FOUND IN CHAPTER 15 (15.12 TRAFFIC CONTROL PLAN) OF THE CITY OF HOUSTON'S (CITY) INFRASTRUCTURE DESIGN MANUAL (IDM). BELOW ARE SEVERAL KEY NOTES FROM THE IDM TO BE ADHERED TO:

- 1. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUD) LATEST EDITION WITH REVISIONS DURING THE ENTIRE CONSTRUCTION PERIOD.
2. NO WORK SHALL BE PERFORMED IN RESIDENTIAL AREAS FROM 7:00PM TO 7:00AM.
3. CONTRACTOR SHALL MAINTAIN APPROVED NUMBER OF LANES OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION WORKING HOURS. TRAFFIC CONTROL PLANS SHALL INCLUDE ONE-WAY AND/OR DETOUR PLANS. CONTRACTOR SHALL MAINTAIN ADA COMPLIANT PEDESTRIAN ACCESS TO BUS STOPS AND ADEQUATE BUS ACCESS TO THE BUS STOP.
4. CONTRACTOR SHALL COVER OPEN PAVEMENT EXCAVATIONS FOR MOTOR UTILITY WORK WITH ANCHORED STEEL PLATES DURING NON-WORKING HOURS. OPEN LANES FOR NORMAL TRAFFIC FLOW WHEN FEASIBLE.
5. CONTRACTOR SHALL SECURE ROADWAY/SIDEWALK/STREET/BICYCLE FACILITY PERMITS AS DESCRIBED IN CITY OF HOUSTON ORDINANCE, CHAPTER 48 - STREETS & SIDEWALKS, SECTION 48-361 FROM HOUSTON PERMITTING CENTER (MOBILITY PERMIT SECTION AT HTTPS://GEMPHOUSTON.ORG) BEFORE IMPLEMENTING THE TRAFFIC CONTROL PLAN. THE APPLICATION MUST BE SUBMITTED AT LEAST TEN BUSINESS DAYS PRIOR TO THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN AND/OR BEGINNING CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS, CONSTRUCTION SCHEDULING, AND CONSTRUCTION SCHEDULE WITH THE APPLICATION.
6. CONTRACTOR SHALL HAVE APPROVED TRAFFIC CONTROL PLAN AND PERMIT AT THE JOB SITE FOR INSPECTION AT ALL TIMES.
7. ACCESS TO DRIVEWAYS ADJACENT TO THE CONSTRUCTION WORK ZONE SHALL BE MAINTAINED AT ALL TIMES AS MUCH AS POSSIBLE. ADDITIONAL CONES AND/OR DELINEATORS MAY BE REQUIRED TO DELINEATE THE DRIVEWAY ACCESS ROUTE THROUGH THE CONSTRUCTION WORK ZONE. A MINIMUM OF ONE TRAVEL LANE SHALL BE MAINTAINED ACROSS THE DRIVEWAY, UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE CITY OF HOUSTON.
8. ADDITIONAL OFF DUTY POLICE OFFICERS/FLAGGERS MAY BE REQUESTED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED AT THE DIRECTION OF THE CITY EVEN IF THEY ARE NOT SPECIFICALLY IDENTIFIED ON THE PROJECT PLANS.

GRADING CONSTRUCTION NOTES

- 1. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
2. BEFORE STARTING CONSTRUCTION, CONTRACTOR SHALL VERIFY BENCHMARK ELEVATION AND NOTIFY ENGINEER IF ANY DISCREPANCY AND/OR CONFLICT IS FOUND.
3. CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS AND NO PONDING IN AREAS USED FOR STORAGE OF MATERIALS THAT ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT OR UTILITIES.
4. CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNOBTAINED DURING CONSTRUCTION.
5. ALL EXISTING CONCRETE PAVING, SIDEWALK, AND CURB DEMOLITION SHALL BE REMOVED AND DISPOSED OF BY CONTRACTOR. DISPOSAL SHALL BE AT AN APPROVED OFF-SITE, LAWFUL LOCATION, UNLESS DIRECTED OTHERWISE BY THE OWNER.

ABBREVIATIONS

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes terms like ASPH, BLDG, CONC, C&G, etc.

Vertical table with columns: NO., DATE, REVISION, APP.

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES
Mike Browne 06/06/25
Date

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for conflict verification.
Signature valid for six months.
Mike Browne 06/06/25
Date

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. (This signature verifies existing underground facilities - not to be used for conflict verification).
Signature valid for six months.

Marlon Smith 05/20/2025
Date
Approved for AT&T underground conduit facilities only.
Signature valid for one year.

MEMORIAL HEIGHTS REDEVELOPMENT AUTHORITY
1330 Post Oak Blvd., Suite 2650
Houston, Texas 77056
713-850-9000

QUIDDITY
SURVEYED BY: QUIDDITY
FB NO. 3118 PAGES 17-19
VICTORIA M. MACALINO
142304
7/8/25

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

GENERAL NOTES

WHITE OAK AT GREENLEAF SAFETY IMPROVEMENTS

WBS NUMBER: N-T05000-001
DRAWING SC: 80159
AS NOTED
CITY OF HOUSTON
TOMS MATHEW
SHEET NO. 3 OF 31

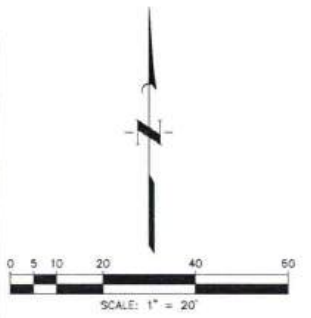
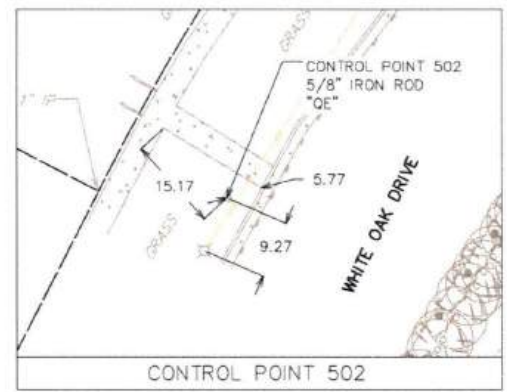
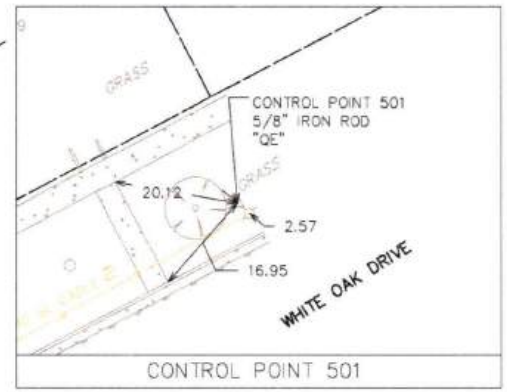
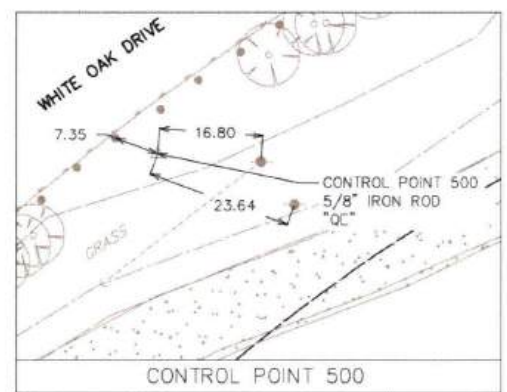
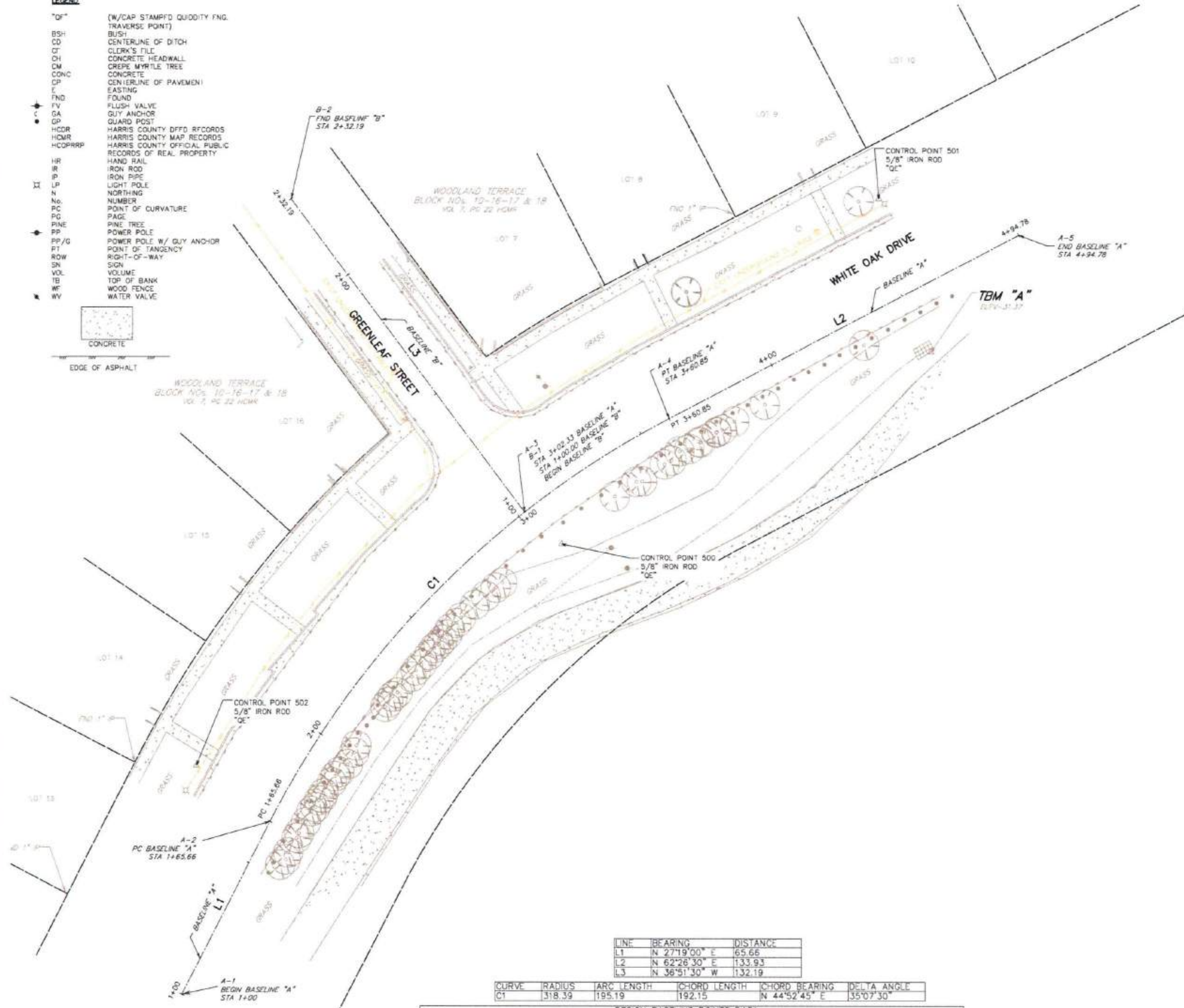
Table with 4 columns: CONT, SECT, JOB, HIGHWAY. Row 1: 0912, 72, 754, etc., VARIOUS. Row 2: DIST, COUNTY. Row 3: HOU, HARRIS.

K:\14760\14760-0024-02_1-0541_WHITE_OAK_AT_GREENLEAF_2_DESIGN_PHASE\CAD\PLANS\14760-0024-01-001-GENERAL.DWG, 5/27/2025 7:28 AM

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LEGEND

“Of”	(W/CAP STAMP'D QUIDDITY ENG. TRAVERSE POINT)
BSH	BUSH
CD	CENTERLINE OF DITCH
CH	CLERK'S FILE
CM	CONCRETE HEADWALL
CONC	CREPE MYRTLE TREE
CP	CONCRETE CENTERLINE OF PAVEMENT
E	EASTING
FND	FOUND
FV	FLUSH VALVE
GA	GUY ANCHOR
GP	GUARD POST
HCDR	HARRIS COUNTY DFTS RECORDS
HCMR	HARRIS COUNTY MAP RECORDS
HCDPRRP	HARRIS COUNTY OFFICIAL PUBLIC RECORDS OF REAL PROPERTY
HR	HAND RAIL
IR	IRON ROD
IP	IRON PIPE
N	NORTHING
Nc	NUMBER
PC	POINT OF CURVATURE
PG	PAGE
PNE	PINE TREE
PP	POWER POLE
PP/G	POWER POLE W/ GUY ANCHOR
PT	POINT OF TANGENCY
R/W	RIGHT-OF-WAY
SN	SIGN
VOL	VOLUME
WB	TOP OF BANK
WF	WOOD FENCE
WV	WATER VALVE



BENCHMARKS:

Harris County Floodplain Reference Mark No. 050010 located on the east side of Houston Avenue on a bridge crossing White Oak Bayou (E-100-00-00), approximately .15 miles south of the intersection of Houston Avenue and White Oak Bayou Drive. Published elevation= 43.26 feet, NAVD 88, 2001 Adjustment.

Harris County Floodplain Reference Mark No. 050135 located on the west side of North Main on a bridge crossing Little White Oak Bayou (E101-00-00), approximately .13 miles north of the intersection of North Main and Quitman. Published elevation= 33.73 feet, NAVD 88, 2001 Adjustment.

TBM "A":
Being a cut "X" on the southeast side of a grate top inlet located on the south side of White Oak Drive approximately 150 feet southeast of the intersection of White Oak Drive and Greenleaf Street. Elevation: 31.37 feet, NAVD 88, 2001 Adjustment.

- GENERAL NOTES:**
- This survey was prepared without the benefit of a current Commitment for Title Insurance or Abstractor's Certification and therefore easements or encumbrances may exist which are not shown hereon. No research of the Public Records of Harris County, Texas regarding these easements or encumbrances was performed by Quiddity Engineering, LLC.
 - This survey does not provide any determination concerning wetlands, fault lines, toxic waste or any other environmental issues. Such matters should be directed by the client or prospective purchaser to an expert consultant.
 - The surveyor has not been provided with construction plans showing the location of underground utilities. Underground utilities may exist which are not shown hereon.
 - Only visible improvements/utilities were located with this survey; no subsurface probing, excavation or exploration was performed for this survey.
 - Bearings and coordinates shown hereon are based on the Texas Coordinate System of 1983, South Central Zone.
 - All distances and coordinates shown hereon are on SURFACE (unless otherwise noted) and may be converted to GRID using the combined scale factor of 0.9999959819.

LINE	BEARING	DISTANCE
L1	N 27°19'00" E	65.66
L2	N 62°26'30" E	133.93
L3	N 36°51'30" W	132.19

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
CT	318.39	195.19	192.15	N 44°52'45" E	35°07'30"

DESIGN BASELINE POINTS DATA					
Point No.	Station	Northing (Surface)	Eastng (Surface)	Northing (Grid)	Eastng (Grid)
A-1	1+00.00	13,850,367.83	3,117,003.61	13,848,927.15	3,116,679.39
A-2	1+65.66	13,850,426.17	3,117,033.75	13,848,985.48	3,116,709.52
A-3	3+02.33	13,850,530.65	3,117,120.22	13,849,089.94	3,116,795.98
A-4	3+60.85	13,850,562.33	3,117,169.33	13,849,121.62	3,116,845.08
A-5	4+94.78	13,850,624.29	3,117,288.06	13,849,183.57	3,116,963.81
B-1	1+00.00	13,850,530.65	3,117,120.22	13,849,089.94	3,116,795.98
B-2	2+32.19	13,850,636.42	3,117,040.92	13,849,195.70	3,116,716.70

SURVEY CONTROL POINTS DATA							
Point No.	Station	Offset	Northing (Surface)	Eastng (Surface)	Northing (Grid)	Eastng (Grid)	Elevation
500	3+05.85	Right 16.17	13,850,519.97	3,117,132.83	13,849,079.26	3,116,808.59	34.97
501	4+58.24	Left 32.89	13,850,636.54	3,117,240.45	13,849,195.82	3,116,916.20	34.24
502	1+70.58	Left 31.03	13,850,445.19	3,117,008.69	13,849,004.50	3,116,684.46	35.59
TBM "A"	4+50.07	Right 31.03	13,850,584.84	3,117,258.21	13,849,144.13	3,116,933.96	31.37

CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST		COUNTY	
HOU		HARRIS	

1330 Post Oak Blvd., Suite 2650
Houston, Texas 77056
713-850-9000

MEMORIAL HEIGHTS REDEVELOPMENT AUTHORITY

QUIDDITY
Three Years of Professional Experience
and Licensed Surveying Eng. No. 1-2006 & 2046202
8231 West Loop South, Suite 150, Dallas, TX 75240
713-771-9897

STATE OF TEXAS REGISTERED PROFESSIONAL LAND SURVEYOR
MATTHEW W. BRAZZEL
6140
Matthew W. Brazzel
8-14-2024

SURVEYED BY: QUIDDITY
FB NO. 3116 PAGES 17-19

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

SURVEY CONTROL MAP

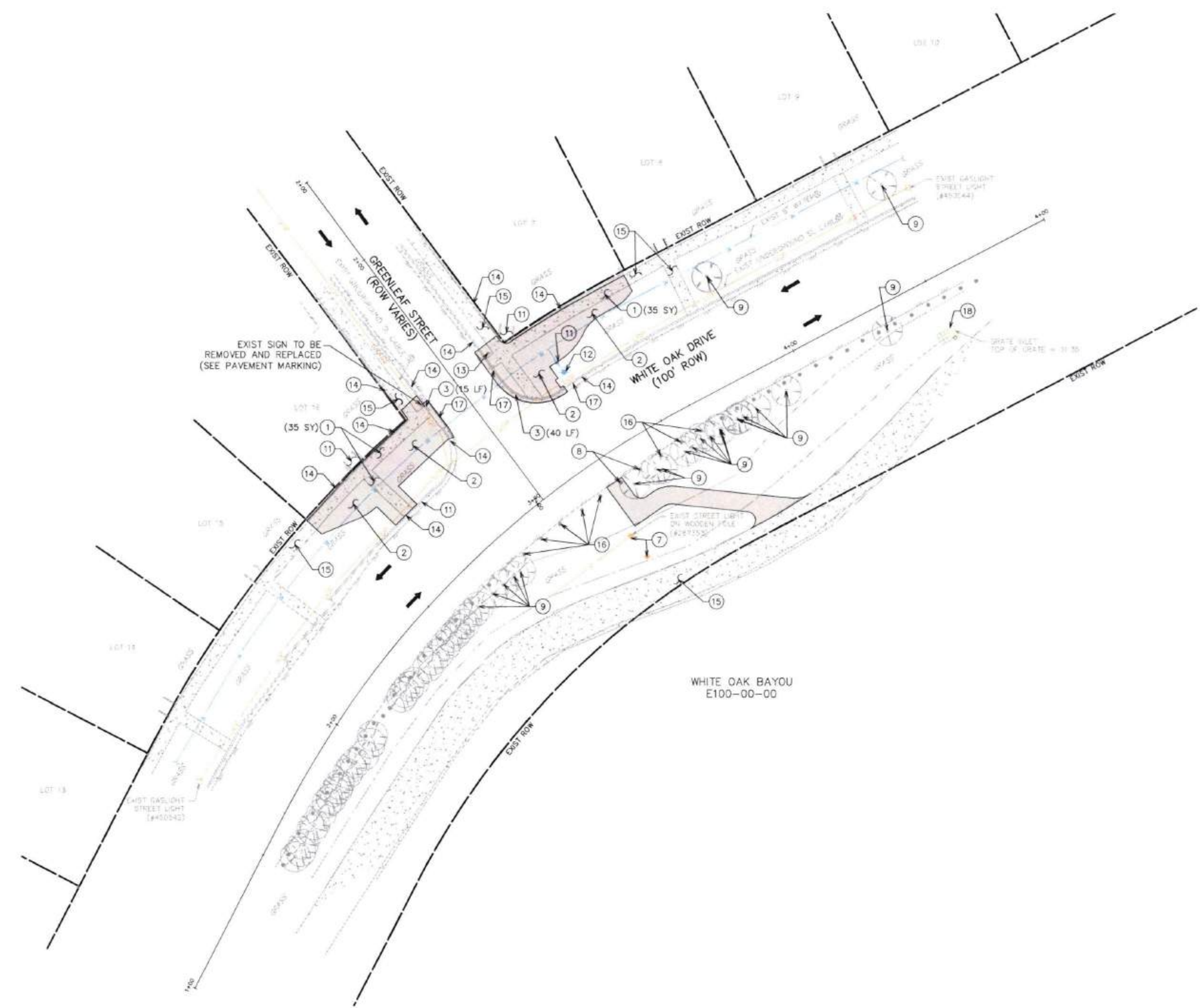
WHITE OAK AT GREENLEAF SAFETY IMPROVEMENTS

WBS NUMBER: N-T05000-0014
DRAWING SCALE: AS NOTED
CITY OF HOUSTON POC: TOMS MATHEW
SHEET NO. 5 OF 5

FOR CITY OF HOUSTON USE ONLY
ACCEPTED AND FILED
80159
CITY OF HOUSTON
HOUSTON, TEXAS

APP.	REVISION	DATE

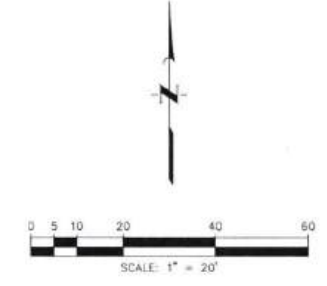
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LEGEND
 [Shaded Area] DEMOLITION AREA
 [Arrow] DIRECTION OF TRAVEL

GENERAL NOTES
 A. SCOPE OF WORK INDICATED WITHIN SHADED AREA. EXISTING FEATURES OUTSIDE SHADED AREA TO REMAIN UNLESS NOTED OTHERWISE.
 B. CONTRACTOR IS TO PROTECT THE FACE OF ALL EXISTING BUILDINGS AND STRUCTURES. DAMAGE TO BUILDING/STRUCTURE SHALL BE REPAIRED/REPLACED AT CONTRACTOR'S EXPENSE.
 C. EXISTING PUBLIC UTILITY STRUCTURES (METER AND VALVE VAULTS, JUNCTION BOXES, CLEAN OUTS, FIRE HYDRANTS, ETC.) IN USE IN THE AREA OF DEMOLITION ARE TO BE PROTECTED AND REMAIN OPERATIONAL DURING DEMOLITION, UNLESS NOTED OTHERWISE. ELEVATION OF COVER OF UTILITY STRUCTURE IS TO BE ADJUSTED TO BE LEVEL WITH NEW PAVING. PRIVATE UTILITY MANHOLES ARE TO BE ADJUSTED BY OTHERS.
 D. CONTRACTOR IS TO PROTECT ALL IRRIGATION SYSTEM COMPONENTS DURING DEMOLITION OPERATIONS UNLESS NOTED OTHERWISE. ANY IRRIGATION SYSTEM COMPONENTS DAMAGED AS A RESULT OF DEMOLITION OPERATIONS SHALL BE REPLACED TO SATISFACTION OF OWNER AT CONTRACTOR'S EXPENSE.
 E. CONTRACTOR TO PROTECT ALL FACILITIES NOT SPECIFICALLY CALLED OUT FOR DEMOLITION.
 F. CONTRACTOR NOT TO ENTER PRIVATE PROPERTY TO PERFORM PROTECTIONS UNTIL A RIGHT-OF-ENTRY FORM IS SECURED FROM THE PROPERTY OWNERS.

KEY NOTES
 ① REMOVE CONC SW
 ② REMOVE GRAVEL, GRASS, AND/OR SOIL
 ③ REMOVE CONC CURB/CURB AND GUTTER
 ④ REMOVE SIGN AND/OR POLE
 ⑤ REMOVE EXIST TREE
 ⑥ REMOVE EXIST STREET LIGHT AND PROTECT EXIST POLE
 ⑦ REMOVE EXIST STREET LIGHT AND POLE
 ⑧ REMOVE EXIST BOLLARD
 ⑨ PROTECT EXIST TREE
 ⑩ PROTECT EXIST PLANTING AND IRRIGATION
 ⑪ PROTECT EXIST STRUCTURE
 ⑫ PROTECT EXIST FIRE HYDRANT
 ⑬ PROTECT EXIST TRAFFIC SIGN/POLE
 ⑭ PROTECT EXIST CURB/RETAINING WALL
 ⑮ PROTECT EXIST SW
 ⑯ PROTECT EXIST BOLLARD
 ⑰ REMOVE AND REPLACE EXIST HISTORIC TILE STREET SIGN (SEE PAVEMENT MARKING SHEET)
 ⑱ PROTECT EXIST INLET



CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST		COUNTY	
HOU		HARRIS	

 1330 Post Oak Blvd., Suite 2650 Houston, Texas 77056 713-850-9000	
 SURVEYED BY: QUIDDITY FB NO. 3116 PAGES 17-19	 <i>Victoria Macalino</i>
CITY OF HOUSTON HOUSTON PUBLIC WORKS	
DEMOLITION PLAN	
WHITE OAK AT GREENLEAF SAFETY IMPROVEMENTS	
WBS NUMBER: N-T05000-0014	
DRAWING SCALE: AS NOTED	
CITY OF HOUSTON PROJECT NO. 80159	
TCOMS MATHEW SHEET NO. 6 OF 31	

NO.	DATE	REVISION	APP.

FLOODPLAIN MANAGEMENT OFFICE

APPROVED

Development Permit #: 25-2588

Date: 6/18/25 By: [Signature]

PAVING LEGEND

- PROP SIDEWALK
- PROP SOD (TO MATCH EXIST)
- PROP TRUNCATED DOMES
- STATION & OFFSET (SEE THIS SHEET)
- MATCH EXIST (SEE THIS SHEET)

GENERAL NOTES

A. SCOPE OF WORK INDICATED WITH SHADED AREA. EXISTING FEATURES OUTSIDE SHADED AREA TO REMAIN UNLESS NOTED OTHERWISE.

B. CONTRACTOR IS TO PROTECT THE FACE OF ALL EXISTING BUILDINGS AND STRUCTURES. DAMAGE TO BUILDING/STRUCTURE SHALL BE REPAIRED/REPLACED AT CONTRACTOR'S EXPENSE.

C. EXISTING PUBLIC UTILITY STRUCTURES (METER AND VALVE VAULTS, JUNCTION BOXES, CLEAN OUTS, FIRE HYDRANTS, ETC.) IN USE IN THE AREA OF DEMOLITION ARE TO BE PROTECTED AND REMAIN OPERATIONAL DURING DEMOLITION UNLESS NOTED OTHERWISE. ELEVATION OF COVER OF UTILITY STRUCTURE IS TO BE ADJUSTED TO BE LEVEL WITH NEW PAVING. PRIVATE UTILITY MANHOLES ARE TO BE ADJUSTED BY OTHERS.

D. STREET LIGHTS AND TRAFFIC SIGNALS TO REMAIN OPERATIONAL DURING CONSTRUCTION. INSTALL TEMPORARY SIGNALIZATION ACCORDING TO TEMPORARY SIGNAL PLAN.

E. CONTRACTOR IS TO PROTECT ALL IRRIGATION SYSTEM COMPONENTS DURING DEMOLITION OPERATIONS UNLESS NOTED OTHERWISE. ANY IRRIGATION SYSTEM COMPONENTS DAMAGED AS A RESULT OF DEMOLITION OPERATIONS SHALL BE REPLACED TO SATISFACTION OF OWNER AT CONTRACTOR'S EXPENSE.

F. CONTRACTOR TO PROTECT ALL FACILITIES NOT SPECIFICALLY CALLED OUT FOR DEMOLITION.

G. CONTRACTOR TO COORDINATE WITH CITY OF HOUSTON URBAN FORESTER AT (832)395-8459 PRIOR TO WORK BEGINNING EXISTING MATURE TREES FOR ANY ADDITIONAL TREE PROTECTION REQUIREMENTS.

NOTICE:

FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Mike Brower 06/08/25
Date

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for conflict verification.
Signature valid for six months.

Mike Brower 06/08/25
Date

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. (This signature verifies existing underground facilities - not to be used for conflict verification).
Signature valid for six months.

Marlon Smith 05/20/2025
Date

Approved for ALL underground conduit facilities only.
Signature valid for one year.

MEMORIAL HEIGHTS
RESOLUTIONS ADMINISTRATION

1330 Post Oak Blvd., Suite 2650
Houston, Texas 77056
713-850-9000

QUIDDITY

State of Texas
VICTORIA M. MACALINO
142304
5/27/25

SURVEYED BY: QUIDDITY
FB NO. 3116 PAGES 17-19

Victoria Macalino

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING & DRAINAGE PLAN

**WHITE OAK AT GREENLEAF
SAFETY IMPROVEMENTS**

WBS NUMBER: 105000-0014-7

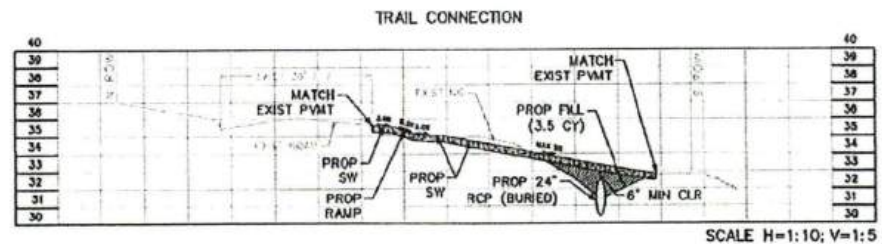
DRAWING SCALE: AS NOTED

CITY OF HOUSTON PUBLIC WORKS
TOMAS MATHEW

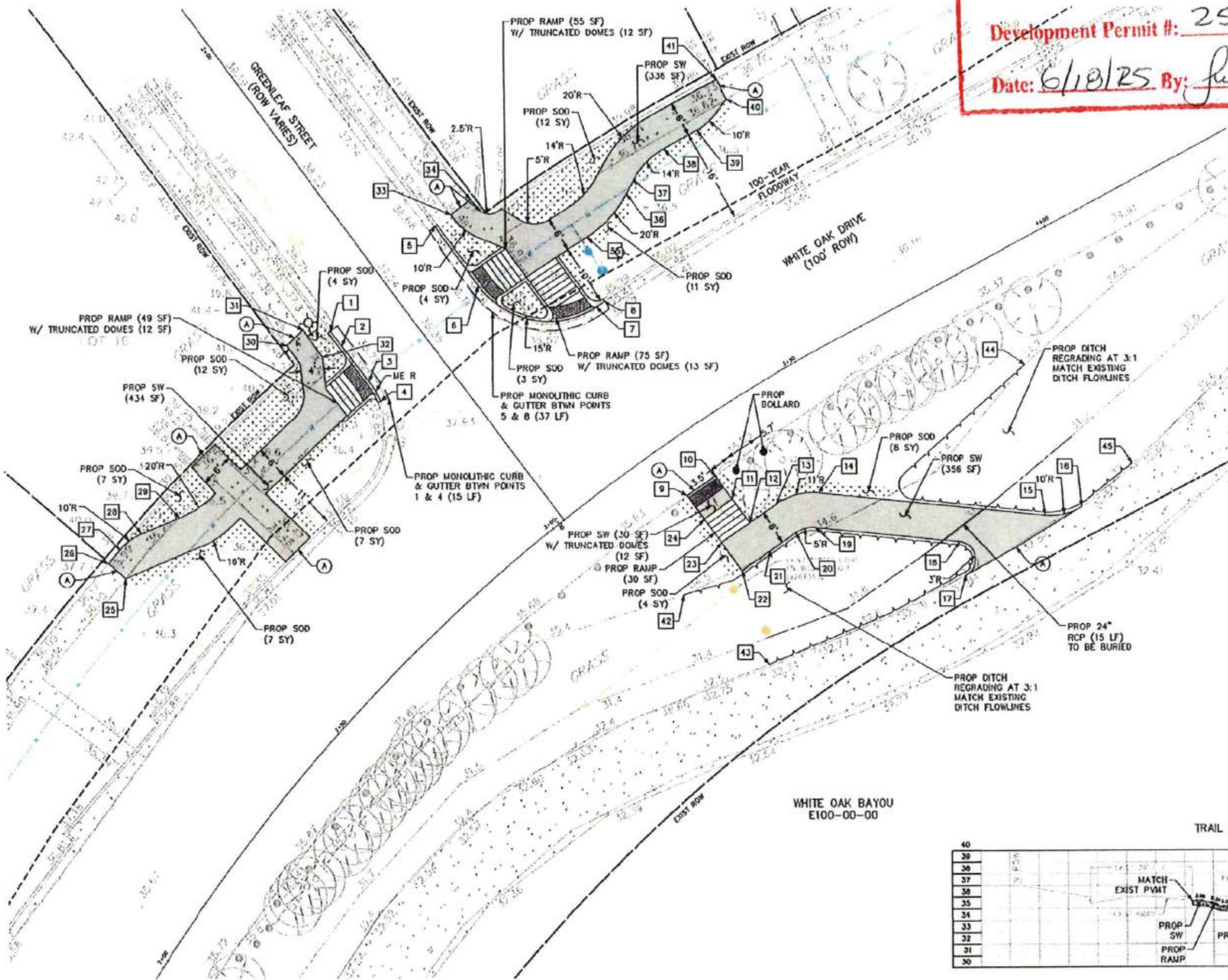
SHEET NO. 7 OF 31

80159

Point	Station	Offset	Elevation
1	3+92.44	50.36' LT	ME
2	2+92.30	47.01' LT	ME
3	2+92.01	39.43' LT	ME
4	2+93.41	35.58' LT	ME
5	3+14.12	53.07' LT	ME
6	3+14.19	40.63' LT	ME
7	3+27.39	26.04' LT	ME
8	3+28.95	26.03' LT	ME
9	3+22.27	9.31' RT	ME
10	3+28.45	9.23' RT	ME
11	3+28.72	14.23' RT	35.54'
12	3+29.00	19.22' RT	35.12'
13	3+34.94	19.03' RT	34.89'
14	3+42.69	21.26' RT	34.52'
15	3+76.84	43.33' RT	32.93'
16	3+83.07	44.94' RT	32.80'
17	3+59.77	45.99' RT	32.83'
18	3+61.55	40.48' RT	33.33'
19	3+36.80	26.06' RT	34.56'
20	3+35.22	25.03' RT	34.74'
21	3+29.35	25.21' RT	35.00'
22	3+22.83	25.30' RT	35.00'
23	3+22.61	19.30' RT	35.12'
24	3+22.44	14.31' RT	35.54'
25	2+44.32	45.02' LT	ME
26	2+44.32	48.97' LT	ME
27	2+47.00	49.00' LT	ME
28	2+50.92	48.04' LT	ME
29	2+56.67	45.03' LT	ME
30	2+86.10	55.30' LT	ME
31	2+89.46	53.52' LT	ME
32	2+89.06	47.74' LT	ME
33	3+17.04	53.11' LT	ME
34	3+20.70	53.28' LT	ME
35	3+32.10	36.77' LT	ME
36	3+40.83	39.31' LT	ME
37	3+42.77	40.57' LT	ME
38	3+49.34	42.56' LT	ME
39	3+55.07	42.52' LT	ME
40	3+61.31	44.70' LT	ME
41	3+61.31	48.50' LT	ME
42	3+11.37	22.75' RT	ME
43	3+16.85	40.91' RT	ME
44	3+85.88	19.02' RT	ME
45	3+94.29	42.38' RT	ME



K:\1760\1760-0024-02 T-0541 WHITE OAK AT GREENLEAF DESIGN PHASE1-CAD-PANES\1760-0024-02-CAD-PAVING & DRAINAGE.DWG, 5/26/2025 10:03 AM



DETENTION SUMMARY

TOTAL AREA WITHIN RIGHT-OF-WAY	0.856 AC (2,145 SF)
AREA OF EXIST IMPERVIOUS SURFACE	0.014 AC (600 SF)
AREA OF PROP IMPERVIOUS SURFACE	0.032 AC (1,385 SF)
DIFFERENTIAL IMPERVIOUS SURFACE	0.018 AC (758 SF)
DETENTION REQUIREMENT	0.75 AC-FT/AC
AREA OF IMPERVIOUS SURFACE, A _i	0.018 AC (758 SF)
DETENTION VOLUME REQUIRED, V _r	
V _r = 43,560 x (0.75 x A _i)	
V _r = 43,560 x (0.75 x 0.018)	
V _r = 588.06 CF (21.78 CY)	
DETENTION VOLUME PROVIDED VIA STORM PIPE & DITCHES	3,145.41 CF (116.50 CY)
*NO ADDITIONAL DETENTION REQUIRED	

DITCH CAPACITY

Name	Description	Begin Depth (FT)	End Depth (FT)	Average Depth (FT)	Length (FT)	Width (FT)	Volume (CF)	Volume (CY)
D-1	Before Crossing	0.58	1.32	0.95	207.09	10.89	2141.61	79.37
D-2	After Crossing	1.32	0.99	1.155	76.09	10.89	956.68	35.43
Total							3145.41	114.80

STORM PIPE CAPACITY

Name	Description	Pipe Size (IN)	Pipe Size (FT)	Pipe Radius (FT)	Length (LF)	Volume (CF)	Volume (CY)	
S-1	Storm Pipe	24	2.00	1.00	15.00	47.12	1.75	
Total							47.12	1.75

DETENTION VOLUME PROVIDED = 3,145.41 CF (CARRY OVER TO DETENTION SUMMARY)

LEGEND

- EXISTING DRAINAGE AREA
- EXISTING DRAINAGE AREA NAME
- AREA IN FT²
- AREA IN ACRES
- PROPOSED DRAINAGE AREA
- PROPOSED DRAINAGE AREA NAME
- AREA IN FT²
- AREA IN ACRES

GENERAL NOTES

- SCOPE OF WORK INDICATED WITHIN SHADED AREA. EXISTING FEATURES OUTSIDE SHADED AREA TO REMAIN UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO PROTECT THE FACE OF ALL EXISTING BUILDINGS AND STRUCTURES. DAMAGE TO BUILDING/STRUCTURE SHALL BE REPAIRED/REPLACED AT CONTRACTOR'S EXPENSE.
- EXISTING PUBLIC UTILITY STRUCTURES (METER AND VALVE VAULTS, JUNCTION BOXES, CLEAN OUTS, FIRE HYDRANTS, ETC.) IN USE IN THE AREA OF DEMOLITION ARE TO BE PROTECTED AND REMAIN OPERATIONAL DURING DEMOLITION UNLESS NOTED OTHERWISE. ELEVATION OF COVER OF UTILITY STRUCTURE IS TO BE ADJUSTED TO BE LEVEL WITH NEW PAVING. PRIVATE UTILITY MANHOLES ARE TO BE ADJUSTED BY OTHERS.
- STREET LIGHTS AND TRAFFIC SIGNALS TO REMAIN OPERATIONAL DURING DEMOLITION. INSTALL TEMPORARY SIGNALIZATION ACCORDING TO TEMPORARY SIGNAL PLAN.
- CONTRACTOR IS TO PROTECT ALL IRRIGATION SYSTEM COMPONENTS DURING DEMOLITION OPERATIONS UNLESS NOTED OTHERWISE. ANY IRRIGATION SYSTEM COMPONENTS DAMAGED AS A RESULT OF DEMOLITION OPERATIONS SHALL BE REPLACED TO SATISFACTION OF OWNER AT CONTRACTOR'S EXPENSE.
- CONTRACTOR TO PROTECT ALL FACILITIES NOT SPECIFICALLY CALLED OUT FOR DEMOLITION.
- CONTRACTOR TO COORDINATE WITH CITY OF HOUSTON URBAN FORESTRY AT (832)355-8459 FROM TO WORK BENEATH EXISTING MATURE TREES FOR ANY ADDITIONAL TREE PROTECTION REQUIREMENTS.

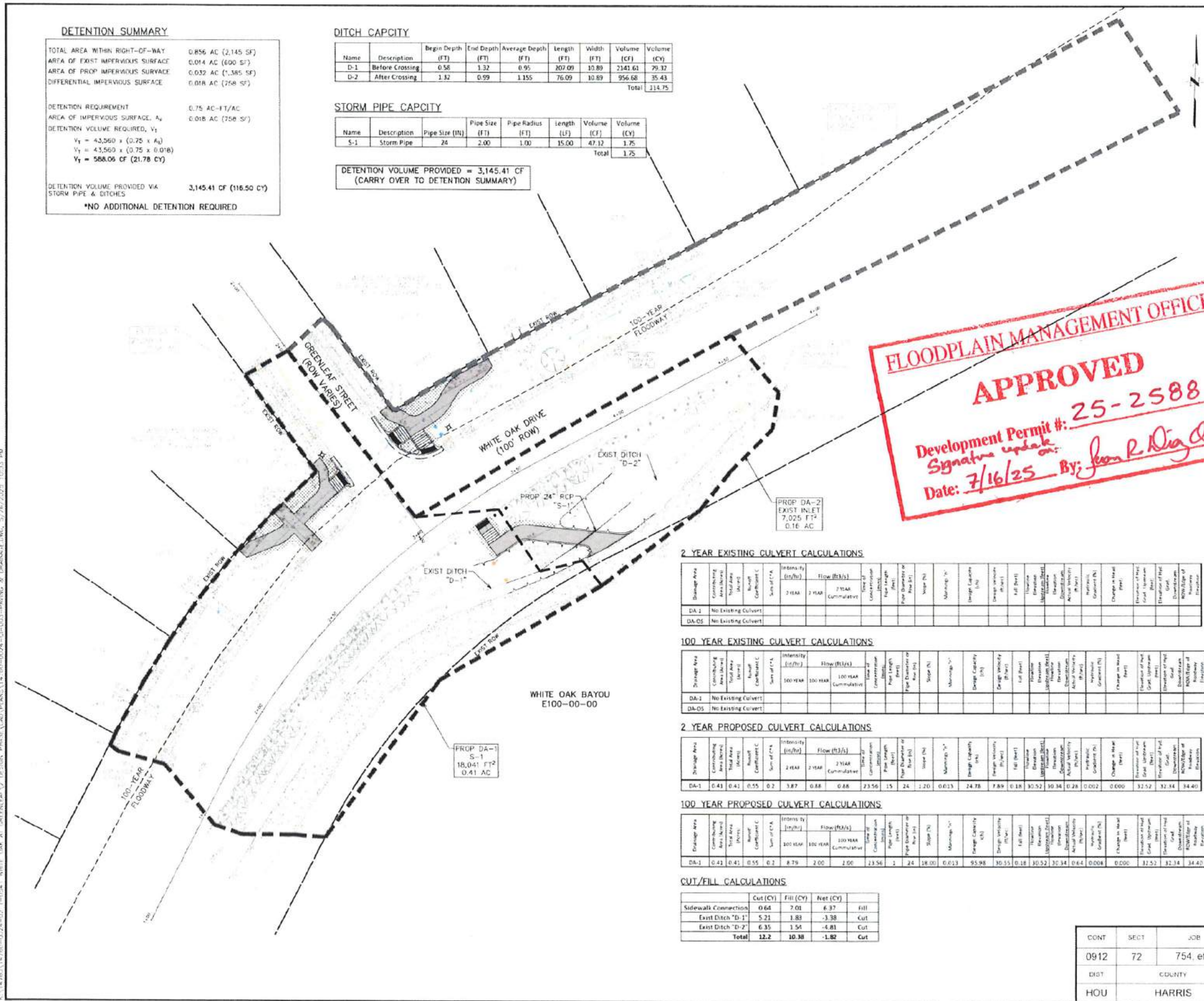
100-YEAR FLOOD PLAN

ACCORDING TO MAP NO. 48210C07EM OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAPS FOR HARRIS COUNTY, TEXAS AND INCORPORATED AREAS, DATED JUNE 9, 2014, THE SUBJECT TRACT IS SITUATED WHOLLY WITHIN:
 * FLOODWAY AREA WITHIN ZONE AE
 * SHADED ZONE AE, DESCRIBED AS AREAS OF 1% ANNUAL CHANCE FLOOD WITH BASE FLOOD ELEVATIONS DETERMINED.
 * SHADED ZONE X, DESCRIBED AS AREAS OF 2% ANNUAL CHANCE FLOOD WITH BASE FLOOD ELEVATIONS DETERMINED.

DETENTION NOTES

- CALCULATED PER 11-01-2023 COH IDM.
- 2 YEAR DESIGN STORM VALUES
B=48.35, D=9.07, F=0.7244 AND
100 YEAR DESIGN STORM VALUES
B=60.06, D=4.48, E=0.5797
- NO STORM WATER QUALITY PERMIT IS REQUIRED AS THE PROPOSED DEVELOPMENT IS LESS THAN 5 ACRES AND CHANGES LESS THAN 1 ACRE OF IMPERVIOUS COVER.

K:\14760\14760-0224-02 1-0541 WHITE OAK AT GREENLEAF 2 DESIGN PHASE 2 CAD PLANS 14760-0024-01-001 PAVING & DRAINAGE DWG 5/26/2025 10:03 PM



FLOODPLAIN MANAGEMENT OFFICE
APPROVED
 Development Permit #: 25-2588
 Signature update on:
 Date: 7/16/25 By: John R. Diaz

2 YEAR EXISTING CULVERT CALCULATIONS

Drainage Area	Contributing Area (Acres)	Topography	Soil	Runoff Coefficient (C)	Sum of C's	Intensity (in/hr)			Flow (ft ³ /s)			Time of Concentration (min)	Pipe Length (ft)	Pipe Diameter (ft)	Slope (%)	Manning's n	Design Capacity (ft ³ /s)	Design Velocity (ft/s)	Full (ft)	Invert Elevation	Structure Elevation	Invert Elevation	Actual Velocity (ft/s)	Hydraulic Gradient (%)	Change in Head (ft)	Elevation of Top of Structure	Elevation of Top of Road	Downstream Elevation	Downstream Elevation
						2 YEAR	2 YEAR	2 YEAR	2 YEAR	2 YEAR	2 YEAR																		
DA-1	No Existing Culvert																												
DA-05	No Existing Culvert																												

100 YEAR EXISTING CULVERT CALCULATIONS

Drainage Area	Contributing Area (Acres)	Topography	Soil	Runoff Coefficient (C)	Sum of C's	Intensity (in/hr)			Flow (ft ³ /s)			Time of Concentration (min)	Pipe Length (ft)	Pipe Diameter (ft)	Slope (%)	Manning's n	Design Capacity (ft ³ /s)	Design Velocity (ft/s)	Full (ft)	Invert Elevation	Structure Elevation	Invert Elevation	Actual Velocity (ft/s)	Hydraulic Gradient (%)	Change in Head (ft)	Elevation of Top of Structure	Elevation of Top of Road	Downstream Elevation	Downstream Elevation
						100 YEAR	100 YEAR	100 YEAR	100 YEAR	100 YEAR	100 YEAR																		
DA-1	No Existing Culvert																												
DA-05	No Existing Culvert																												

2 YEAR PROPOSED CULVERT CALCULATIONS

Drainage Area	Contributing Area (Acres)	Topography	Soil	Runoff Coefficient (C)	Sum of C's	Intensity (in/hr)			Flow (ft ³ /s)			Time of Concentration (min)	Pipe Length (ft)	Pipe Diameter (ft)	Slope (%)	Manning's n	Design Capacity (ft ³ /s)	Design Velocity (ft/s)	Full (ft)	Invert Elevation	Structure Elevation	Invert Elevation	Actual Velocity (ft/s)	Hydraulic Gradient (%)	Change in Head (ft)	Elevation of Top of Structure	Elevation of Top of Road	Downstream Elevation	Downstream Elevation
						2 YEAR	2 YEAR	2 YEAR	2 YEAR	2 YEAR	2 YEAR																		
DA-1	0.41	0.41	0.55	0.2	3.87	0.88	0.88	23.56	15	24	1.20	0.013	24.78	7.89	0.18	30.52	30.34	0.28	0.002	0.000				0.000	32.52	32.34	34.40		

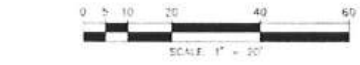
100 YEAR PROPOSED CULVERT CALCULATIONS

Drainage Area	Contributing Area (Acres)	Topography	Soil	Runoff Coefficient (C)	Sum of C's	Intensity (in/hr)			Flow (ft ³ /s)			Time of Concentration (min)	Pipe Length (ft)	Pipe Diameter (ft)	Slope (%)	Manning's n	Design Capacity (ft ³ /s)	Design Velocity (ft/s)	Full (ft)	Invert Elevation	Structure Elevation	Invert Elevation	Actual Velocity (ft/s)	Hydraulic Gradient (%)	Change in Head (ft)	Elevation of Top of Structure	Elevation of Top of Road	Downstream Elevation	Downstream Elevation
						100 YEAR	100 YEAR	100 YEAR	100 YEAR	100 YEAR	100 YEAR																		
DA-1	0.41	0.41	0.55	0.2	8.79	2.00	2.00	23.56	1	24	18.00	0.013	95.98	30.55	0.18	30.52	30.34	0.64	0.008	0.000				0.000	32.52	32.34	34.40		

CUT/FILL CALCULATIONS

	Cut (CY)	Fill (CY)	Net (CY)	
Sidewalk Connection	0.64	7.01	6.37	Fill
Exist Ditch "D-1"	5.21	1.89	-3.38	Cut
Exist Ditch "D-2"	6.35	1.54	-4.81	Cut
Total	12.2	10.38	-1.82	Cut

CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST	COUNTY		
HOU	HARRIS		



1330 Post Oak Blvd. Suite 2650
 Houston, Texas 77056
 713-850-9000

MEMORIAL HEIGHTS

QUIDDITY
 Surveyed by: *Victoria M. Macalino*
 1/8/25

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS

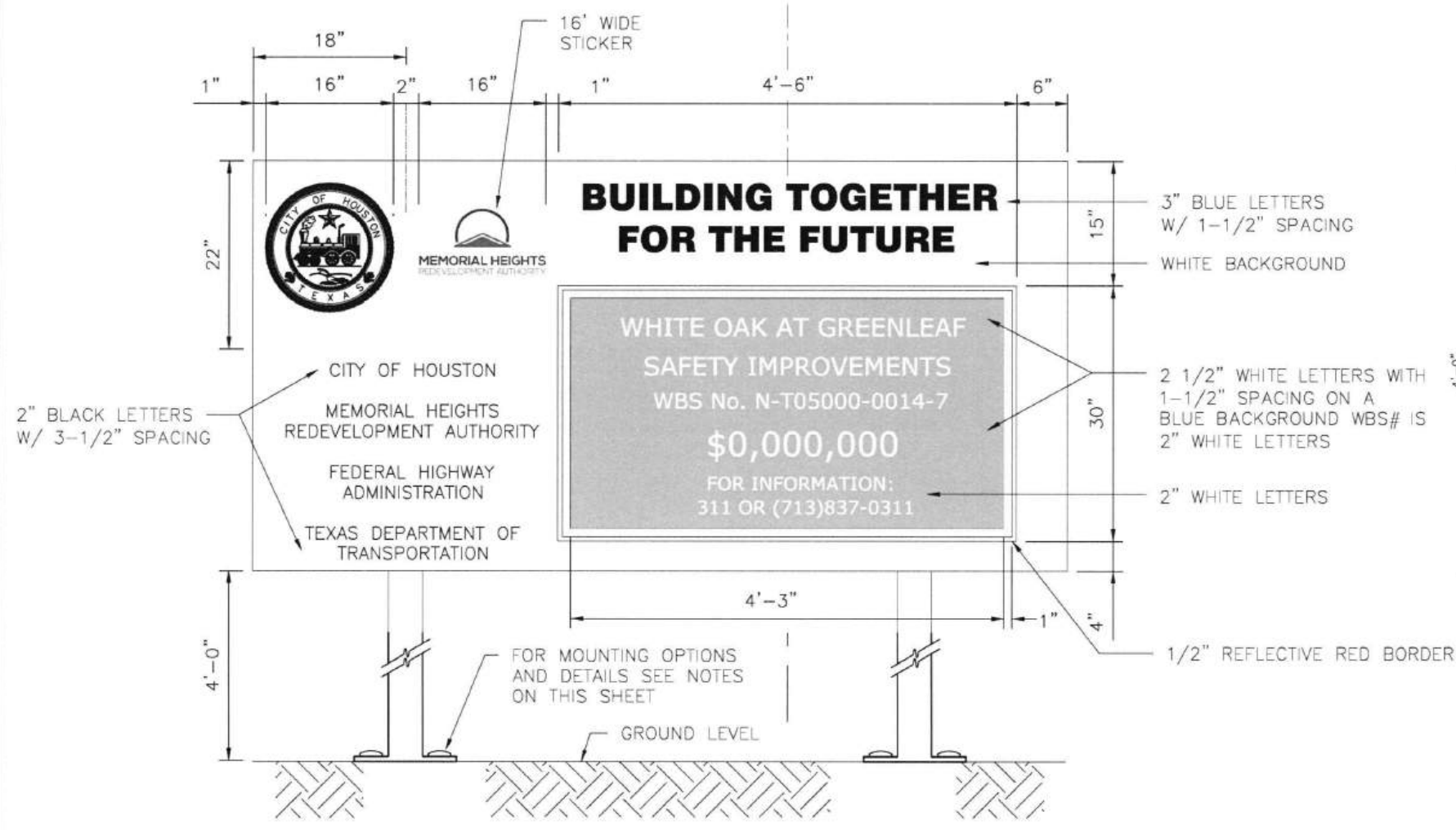
DRAINAGE AREA MAP & DETENTION CALCULATIONS

WHITE OAK AT GREENLEAF SAFETY IMPROVEMENTS

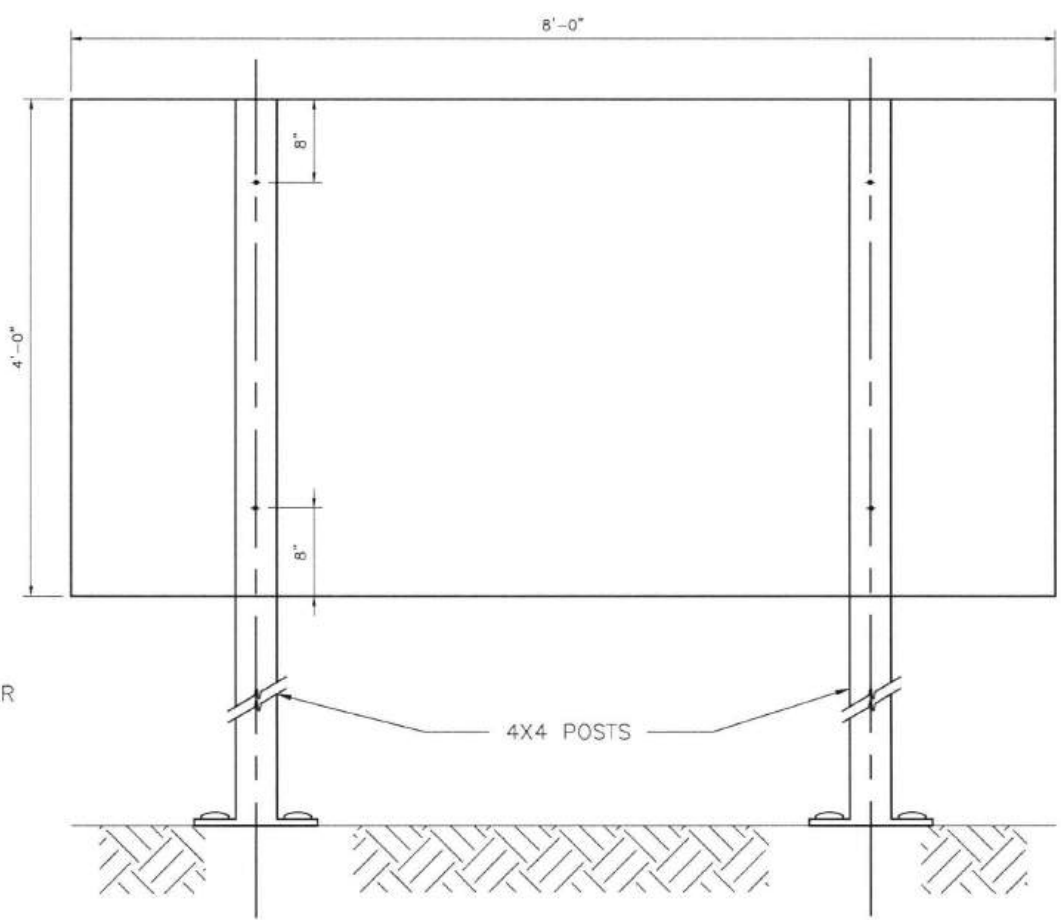
WDS NUMBER: N-105000-0314-7
 DRAWING SCALE: AS NOTED
 CITY OF HOUSTON PROJECT: TOMS MATHEW
 SHEET NO. 8 OF 31

80159

NO.	DATE	REVISION	APP.



FRONT VIEW



BACK VIEW

NOTES:

1. ALLOWABLE POST INSTALLATION METHODS ARE: CONCRETE FOOTING, SURFACE MOUNTING, SKID MOUNTING AND PILE DRIVEN POSTS.
2. FOR POST INSTALLATION WITH CONCRETE FOOTING, REFER TO DETAIL 01554-01.
3. FOR SURFACE MOUNTED POST INSTALLATION, REFER TO DETAIL 01554-02.
4. FOR SKID MOUNTING REQUIREMENTS REFER TO SPECIFICATION 10582.
5. PILE DRIVEN POSTS MUST BE DRIVEN TO A MINIMUM DEPTH OF 4- FEET INTO EXISTING GROUND.
6. LAYOUT, TEXT SIZE, AND OVERALL DESIGN OF THE SIGN WILL BE THE RESPONSIBILITY OF THE BUILD HOUSTON COORDINATOR.
7. ALL SIGN POSTS, SIGN TUBING, AND SIGN FASTENERS SHALL BE GALVANIZED STEEL PER SPECIFICATION 01582.

1330 Post Oak Blvd., Suite 2650
Houston, Texas 77056
713-850-9000

MEMORIAL HEIGHTS
REDEVELOPMENT AUTHORITY

QUIDDITY
Texas Board of Professional Engineers
and Land Surveyors Reg. No. T-23026 & T-264233
8830 West Loop South, Suite 130, Dallas, TX 75243
738.777.8887

VICTORIA M. MACALINO
142304
LICENSED PROFESSIONAL ENGINEER
5/15/25

SURVEYED BY: QUIDDITY
FB NO. 3116 PAGES 17-19

Victoria Macalino

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

CONSTRUCTION SIGN DETAIL

WHITE OAK AT GREENLEAF
SAFETY IMPROVEMENTS

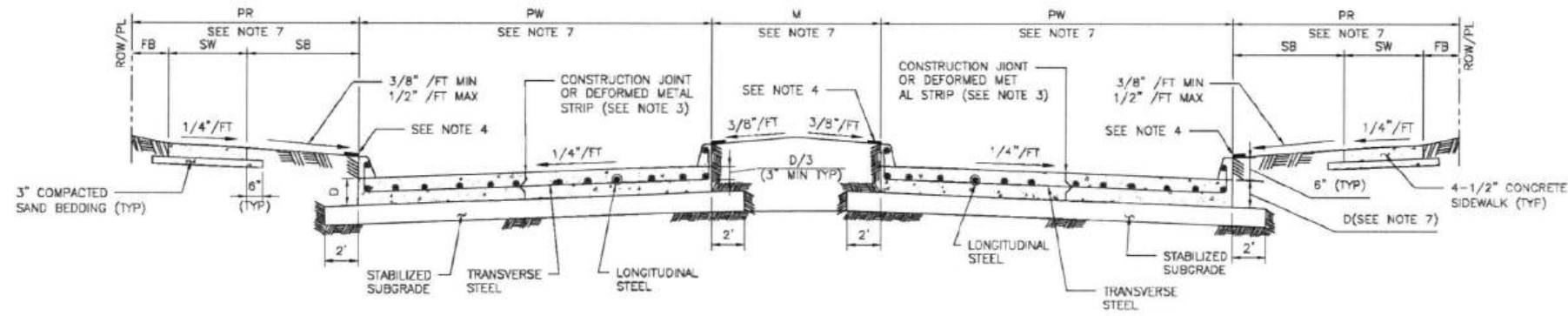
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DRAWING SCALE: AS NOTED
CITY OF HOUSTON, TX
TOMAS MATHEW
SHEET NO. 9 OF 31

80159

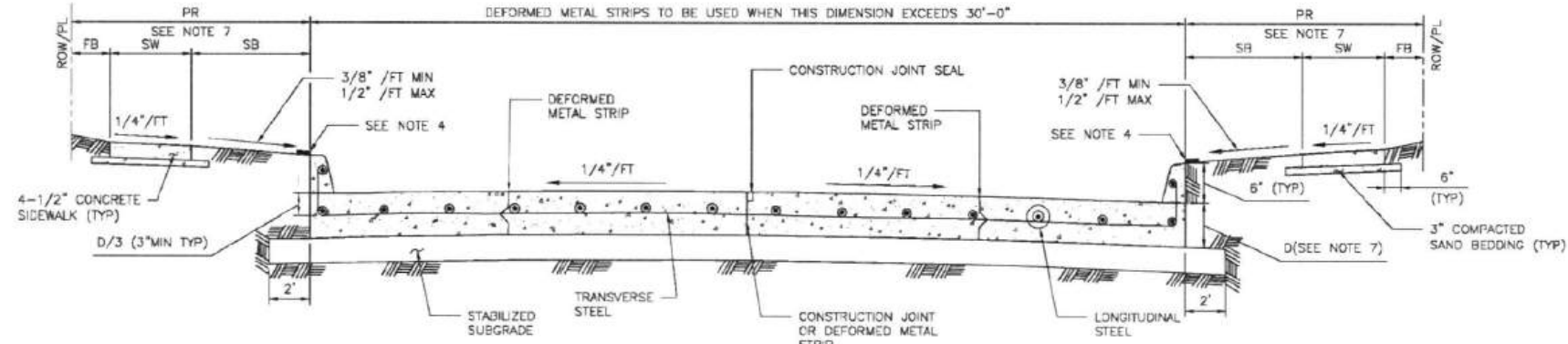
CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST		COUNTY	
HOU		HARRIS	

K:\14760\14760-0024-02_T-0541_WHITE_OAK_AT_GREENLEAF\2 DESIGN PHASE\CAD\PLANS\14760-0024-CI-005-DETAILS.DWG, 2/26/2025 9:21 AM

D:\PROJECTS\780-0024-02_1-0541_WHITE_OAK_AT_GREENLEAF\2 DESIGN PHASE\CONV\PLANS\14760-0024-01-005-DETAILS.DWG, 2/28/2025 9:21 AM
 THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



TYPICAL DOUBLE ROADWAY SECTION FOR CONCRETE PAVEMENT WITH CURBS



TYPICAL SINGLE ROADWAY SECTION FOR CONCRETE PAVEMENT WITH CURBS

NOTES:

1. THE MAXIMUM WIDTH BETWEEN LONGITUDINAL JOINTS SHALL NOT EXCEED 15'-0".
2. ALL EARTHEN AREAS ARE TO BE HYDROMULCHED UNLESS SHOWN OTHERWISE ON DRAWINGS.
3. CONTRACTOR MAY SAW CUT IN LIEU OF DEFORMED METAL STRIP.
4. USE STRIP OF SOD GRASS TO PREVENT EROSION UNTIL STAND OF GRASS IS ESTABLISHED.
5. AN EQUAL OR LARGER AREA OF WELDED REINFORCEMENT BAR CONFORMING TO ASTM A497, MAY BE SUBSTITUTED FOR REBARS LISTED IN TABLE 1.
6. IF AVAILABLE ROW IS NOT SUFFICIENT TO ACCOMMODATE SIDEWALK WIDTH (SW) ACCORDING TO IDM REQUIREMENTS, ENGINEER SHALL OBTAIN A VARIANCE FROM THE CITY ENGINEER.
7. REFER TO CONTRACT DRAWINGS FOR PAVEMENT WIDTH (PW) AND PAVEMENT THICKNESS (D), MEDIAN (M), PEDESTRIAN REALM (PR), SIDEWALK (SW), FRONTAGE BUFFER (FB), AND SAFETY BUFFER (SB) WIDTHS.

TABLE 1
 REINFORCING STEEL BAR SIZES AND SPACINGS FOR VARIOUS PAVEMENT THICKNESSES (D) WITH: MAXIMUM TRANSVERSE CONTROL JOINT SPACING = 20'-0"
 MAXIMUM EXPANSION JOINT SPACING = 80'-0"
 $f_c = 4,000 \text{ PSI}/28 \text{ DAYS}$ AND $F_y = 60,000 \text{ PSI}$

PAVEMENT THICKNESS 'D' (IN)	PAVEMENT WIDTH 'PW' (FT)	LONGITUDINAL STEEL									TRAVERSE STEEL		
		#4 BARS			#5 BARS			#6 BARS			#4 BARS	#5 BARS	#6 BARS
		NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	SPACING (IN)	SPACING (IN)	SPACING (IN)
6	28	17	20.50	4.00	-	-	-	-	-	-	36	-	-
7	25	17	18.25	4.00	-	-	-	-	-	-	36	-	-
7	35	24	18.00	3.00	-	-	-	-	-	-	36	-	-
7	36	25	17.75	3.00	-	-	-	-	-	-	36	-	-
7	37	25	18.25	3.00	-	-	-	-	-	-	36	-	-
7	41	28	18.00	3.00	-	-	-	-	-	-	36	-	-
7	45	31	17.75	3.75	-	-	-	-	-	-	36	-	-
8	25	20	15.50	2.75	13	24.50	3.0	-	-	-	36	36	-
8	34	27	15.50	2.50	17	25.00	4.0	-	-	-	36	36	-
8	35	27	16.00	2.00	18	24.25	4.0	-	-	-	36	36	-
8	36	28	15.75	3.25	18	25.00	3.0	-	-	-	30	36	-
8	44	24	15.75	4.00	22	24.75	4.0	-	-	-	30	36	-
8	45	35	15.75	2.25	23	24.25	3.0	-	-	-	30	36	-
9	25	22	14.00	3.00	14	22.50	4.0	-	-	-	36	36	-
9	34	31	13.50	2.00	19	22.25	3.5	-	-	-	30	36	-
9	35	31	13.75	3.75	20	21.75	3.5	-	-	-	30	36	-
9	36	32	13.75	3.00	21	21.25	3.5	-	-	-	30	36	-
9	44	39	13.75	2.75	25	21.75	3.0	-	-	-	24	36	-
9	45	39	14.00	4.00	26	21.25	4.5	-	-	-	24	36	-
10	25	24	12.75	3.50	17	18.25	4.0	-	-	-	36	36	36
10	34	33	12.50	4.00	21	20.00	4.0	-	-	-	30	36	36
10	35	34	12.50	3.75	23	18.75	4.0	-	-	-	30	36	36
10	36	35	12.50	3.50	24	18.50	3.0	-	-	-	30	36	36
10	44	44	12.00	4.00	29	18.50	4.5	-	-	-	24	36	36
10	45	44	12.50	3.00	29	19.00	3.0	-	-	-	24	36	36
11	25	27	11.25	3.00	17	18.25	4.0	12	26.75	3	36	36	36
11	34	36	11.50	2.75	24	17.50	2.5	17	25.00	4	24	36	36
11	35	37	11.50	3.00	24	18.00	3.0	17	25.75	4	24	36	36
11	36	40	11.00	2.00	25	17.75	3.0	17	26.50	4	24	36	36
11	44	48	11.125	2.50	30	18.00	3.0	21	26.00	4	24	36	36
11	45	49	11.125	3.00	31	17.75	4.0	22	25.50	3	24	36	36
12	25	-	-	-	19	16.25	4.0	13	24.50	3	36	36	36
12	34	-	-	-	26	16.00	4.0	18	23.50	4	24	36	36
12	35	-	-	-	26	16.50	4.0	19	23.00	3	24	36	36
12	36	-	-	-	27	16.25	4.5	20	22.25	4.5	24	36	36
12	44	-	-	-	33	16.25	4.0	24	22.50	5	24	30	36
12	45	-	-	-	35	15.75	3.0	25	22.25	3	24	30	36

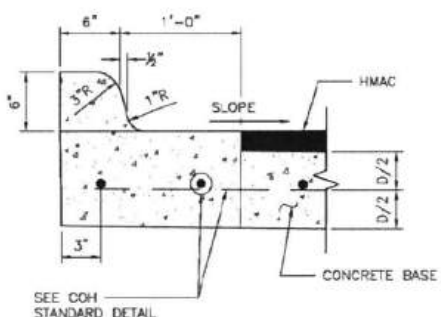
MINIMUM LAP LENGTH (L):
 A. # 4 BARS ; L = 22 INCHES
 B. # 5 BARS ; L = 27 INCHES
 C. # 6 BARS ; L = 32 INCHES

1980 Post Oak Blvd., Suite 1380 Houston, Texas 77056 713-850-9000	
APPROVED BY: Subal Banerjee CITY ENGINEER	APPROVED BY: Brian Nguyen CITY TRAFFIC ENGINEER
APPROVED BY: Carl Halladay DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02751-01
QUIDDITY State Board of Professional Engineers and Land Surveyors Reg. No. 012284 & 024226 6330 West Loop South, Suite 200, Dallas, TX 75240 972-777-9387	VICTORIA M. MACALINO 142304 LICENSED PROFESSIONAL ENGINEER 5/15/25 Victoria Macalino
SURVEYED BY: QUIDDITY FB NO. 3116 PAGES 17-19	
CITY OF HOUSTON HOUSTON PUBLIC WORKS STANDARD	
CONCRETE PAVEMENT DETAILS	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-T05000-0014-7	ACCEPTED
DRAWING SCALE	80159
NOT TO SCALE	
CITY OF HOUSTON	
TOMS MATHEW	
SHEET NO. 10 OF 31	

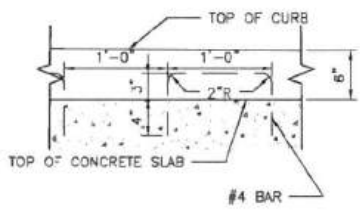
DSKY/AMK/PJ/780-0024-02 1-0541 WHITE OAK AT GREENLEAF 2 DESIGN PHASE (CADD/PLANS) 14760-0024-CI-005-DETAILS.DWG, 2/28/2025 9:21 AM
 THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

4"x12" MONOLITHIC AND TRANSITION CURB NOTES:

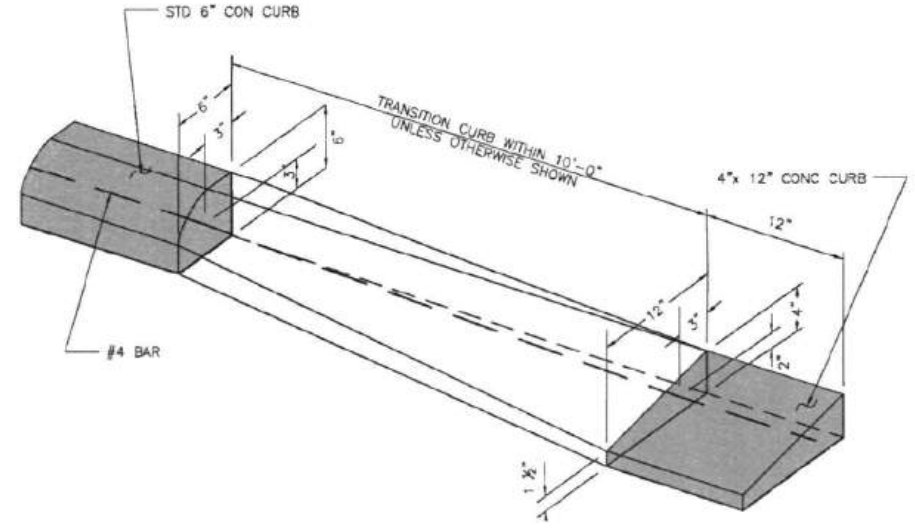
- 6-INCH CONCRETE CURB TO BE CONSTRUCTED ON ALL ESPLANADES, ISLANDS, NON-RESIDENTIAL STREETS, AND RESIDENTIAL STREETS.
- TRANSITIONS FROM 6-INCH CONCRETE CURB TO 4-INCH x 12-INCH CONCRETE CURB TO BE ACCOMPLISHED WITHIN 10 FEET, UNLESS OTHERWISE SHOWN. IF THIS 10-FOOT TRANSITION CURB IS NOT POURED MONOLITHICALLY WITH THE PAVEMENT, THEN REINFORCING STEEL AS SHOWN IN "4-INCH x 12-INCH TRANSITION CURB" IS TO BE INSTALLED.



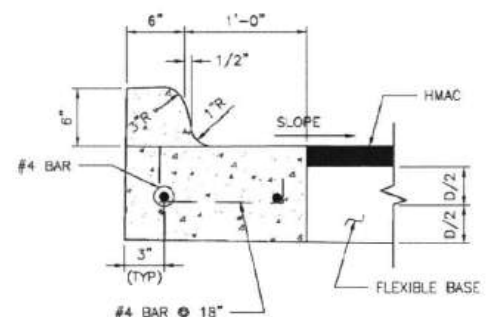
ESPLANADE CURB CONNECTED TO CONCRETE BASE



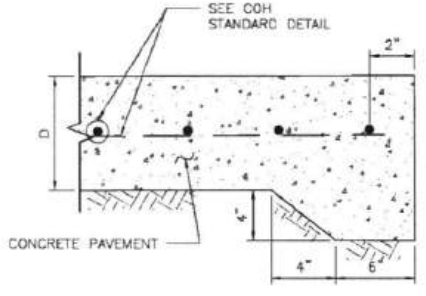
ALTERNATE CONCRETE CURB REINFORCEMENT



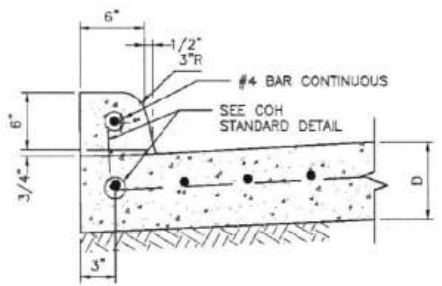
CURB TRANSITION
(SEE NOTES)



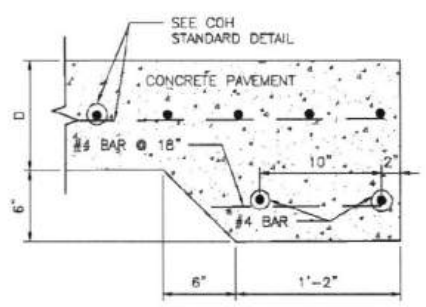
ESPLANADE CURB CONNECTED TO FLEXIBLE BASE



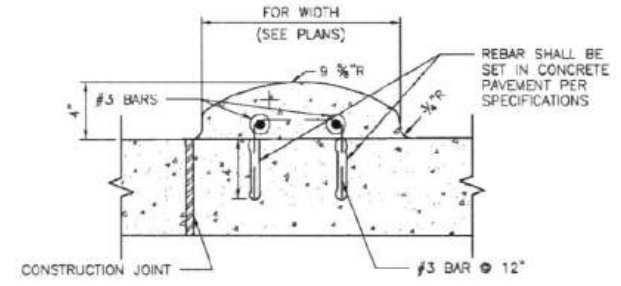
STANDARD CONCRETE PAVING HEADER



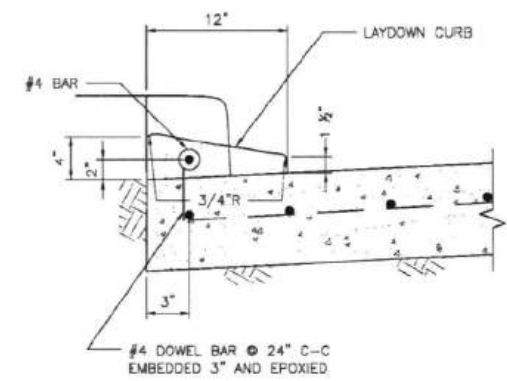
CONCRETE CURB



STANDARD RAILROAD HEADER

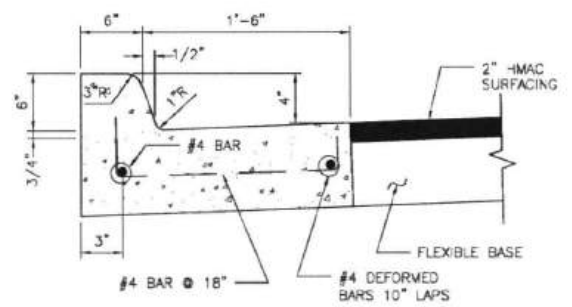


MOUNTABLE CURB

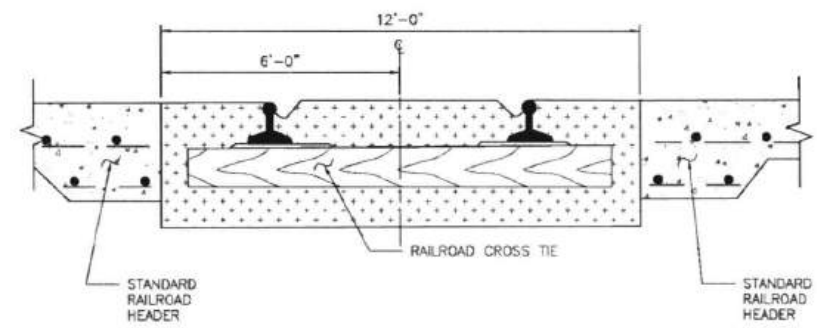


4-INCH x 12-INCH TRANSITION CURB
(SEE NOTES)

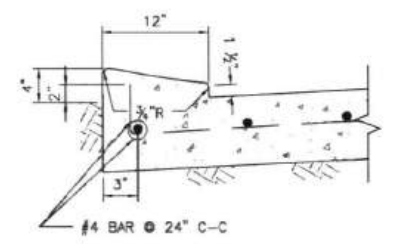
WHEN CONCRETE CURB IS TO BE PLACED EXISTING CONCRETE USE BASE #4 BAR @ 18x10" LONG, DOWELED AND SET IN EPOXY GROUT. SET #4 DOWEL BARS, 25" LONG AT 12" C-C WHEN PAVEMENT SECTION POURED.



MONOLITHIC CURB AND GUTTER



STANDARD RAILROAD CROSSING - SINGLE TRACK



4-INCH x 12-INCH MONOLITHIC CURB
(SEE NOTES)

1980 Post Oak Blvd., Suite 1380 Houston, Texas 77056 713-850-9000	
APPROVED BY: Suleh Isenbar CITY ENGINEER	APPROVED BY: WANG HUIWEN CITY TRAFFIC ENGINEER
APPROVED BY: Carl Hubbard DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02771-01
QUIDDITY Texas Board of Professional Engineers and Land Surveyors Reg. No. A-20268 & 4084030 4330 West Loop South, Suite 100, Bellaire, TX 77408 713.777.8807	VICTORIA M. MACALINO 142304 LICENSED PROFESSIONAL ENGINEER 5/15/25 Victoria Macalino
SURVEYED BY: QUIDDITY FB NO. 3116 PAGES 17-19	
CITY OF HOUSTON HOUSTON PUBLIC WORKS STANDARD	
CURB, CURB AND GUTTER AND HEADER DETAILS	
WBS NUMBER	N-T05000-0014-7
DRAWING SCALE	NOT TO SCALE
CITY OF HOUSTON POC	TOMS MATHEW
SHEET NO.	11 OF 31



K:\14760\14760-0024-02 1-0541 WHITE OAK AT GREENLEAF\2 DESIGN PHASE\CAU\PLANS\14760-0024-C1-005-DETAILS.DWG, 2/26/2025 9:21 AM

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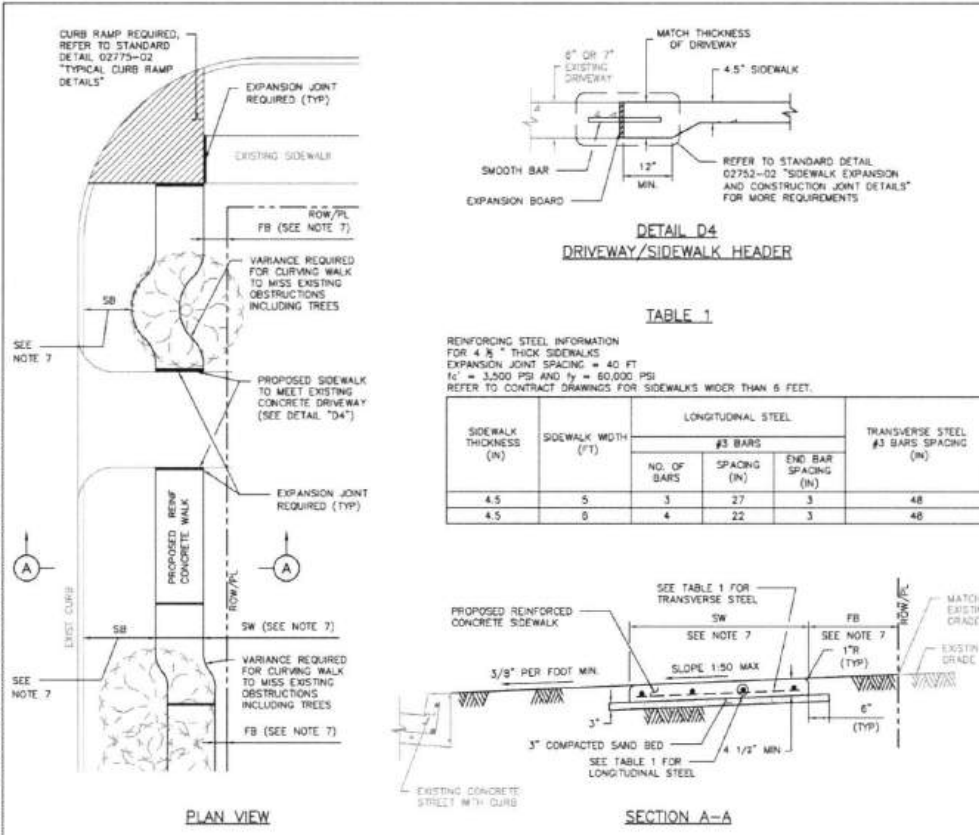


TABLE 1

REINFORCING STEEL INFORMATION FOR 4 1/2" THICK SIDEWALKS
EXPANSION JOINT SPACING = 40 FT
f'c = 3,500 PSI and fy = 60,000 PSI
REFER TO CONTRACT DRAWINGS FOR SIDEWALKS WIDER THAN 6 FEET.

SIDEWALK THICKNESS (IN)	SIDEWALK WIDTH (FT)	LONGITUDINAL STEEL			TRANSVERSE STEEL #3 BARS SPACING (IN)
		NO. OF BARS	SPACING (IN)	END BAR SPACING (IN)	
4.5	5	3	27	3	48
4.5	9	4	22	3	48

- NOTES:**
- 6x6 - W2.9x9.9 WELDED WIRE FABRIC MAY BE USED IN LIEU OF THE REINFORCING STEEL GIVEN IN TABLE 1.
 - REINFORCED CONCRETE SIDEWALKS THRU DRIVEWAYS OPENINGS SHALL BE EITHER 6" THICK OR 7" THICK AS SPECIFIED ON 6" STABILIZED SUBGRADE. FOR THE REINFORCING STEEL REQUIREMENTS, SEE CITY OF HOUSTON STANDARD DETAILS 02754-01A, 02754-01B, 02754-03, AND 02754-04.
 - MAXIMUM SPACING FOR EXPANSION JOINTS SHALL BE 40 FEET.
 - CONTRACTOR SHALL CONSTRUCT SIDEWALK IN A MANNER NOT TO BLOCK THE NATURAL DRAINAGE FROM ADJACENT PROPERTY.
 - ALL RAMP AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
 - CURB RAMP THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON UNLESS NOTED OTHERWISE.
 - REFER TO CONTRACT DRAWINGS FOR SIDEWALK (SW), FRONTAGE BUFFER (FB), AND SAFETY BUFFER (SB) WIDTHS.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD
TYPICAL SIDEWALK LAYOUT AND DETAILS FOR STREETS WITH CURBS
(SCALE: NOT TO SCALE)

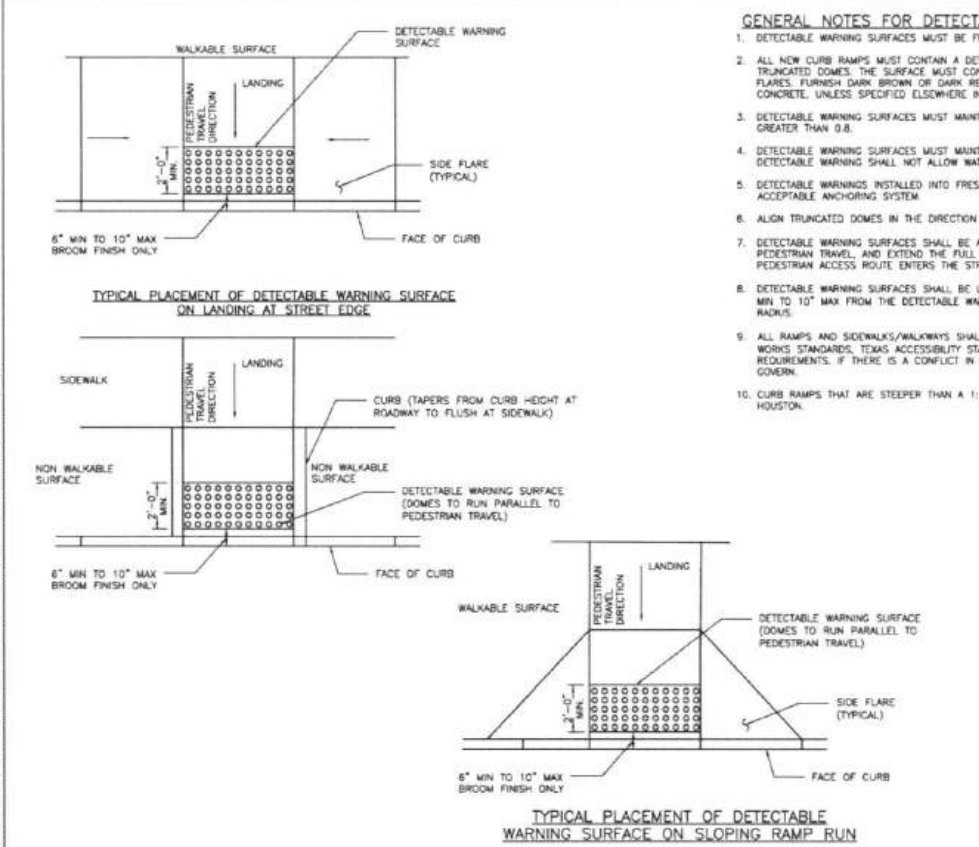
APPROVED BY:

City Engineer: *Shahid Inouar*
City Traffic Engineer: *Wahne Nijssen*

Director of HPW: *Carl Haddock*

EFF DATE: NOV-27-2023 DWG NO: 02775-01

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- GENERAL NOTES FOR DETECTABLE WARNINGS:**
- DETECTABLE WARNING SURFACES MUST BE FULLY ADA COMPLIANT.
 - ALL NEW CURB RAMP MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES. THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACE, INCLUDING SIDE FLARES. FURNISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
 - DETECTABLE WARNING SURFACES MUST MAINTAIN A SLIP RESISTANCE WITH FA-VALUE OF EQUAL TO OR GREATER THAN 0.8.
 - DETECTABLE WARNING SURFACES MUST MAINTAIN A WATER ABSORPTION RATE OF LESS THAN 1%. DETECTABLE WARNING SHALL NOT ALLOW WATER TO ACCUMULATE.
 - DETECTABLE WARNINGS INSTALLED INTO FRESH CONCRETE SHALL BE WITHOUT VOIDS AND UTILIZING AN ACCEPTABLE ANCHORING SYSTEM.
 - ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
 - DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
 - DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6" MIN TO 10" MAX FROM THE DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.
 - ALL RAMP AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
 - CURB RAMP THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD
DETECTABLE WARNING CURB RAMP DETAILS
(SCALE: NOT TO SCALE)

APPROVED BY:

City Engineer: *Shahid Inouar*
City Traffic Engineer: *Wahne Nijssen*

Director of HPW: *Carl Haddock*

EFF DATE: NOV-27-2023 DWG NO: 02775-06

CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST		COUNTY	
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713-850-9000

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Texas Board of Professional Engineers
142304
5/15/25

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING DETAIL

WHITE OAK AT GREENLEAF
SAFETY IMPROVEMENTS

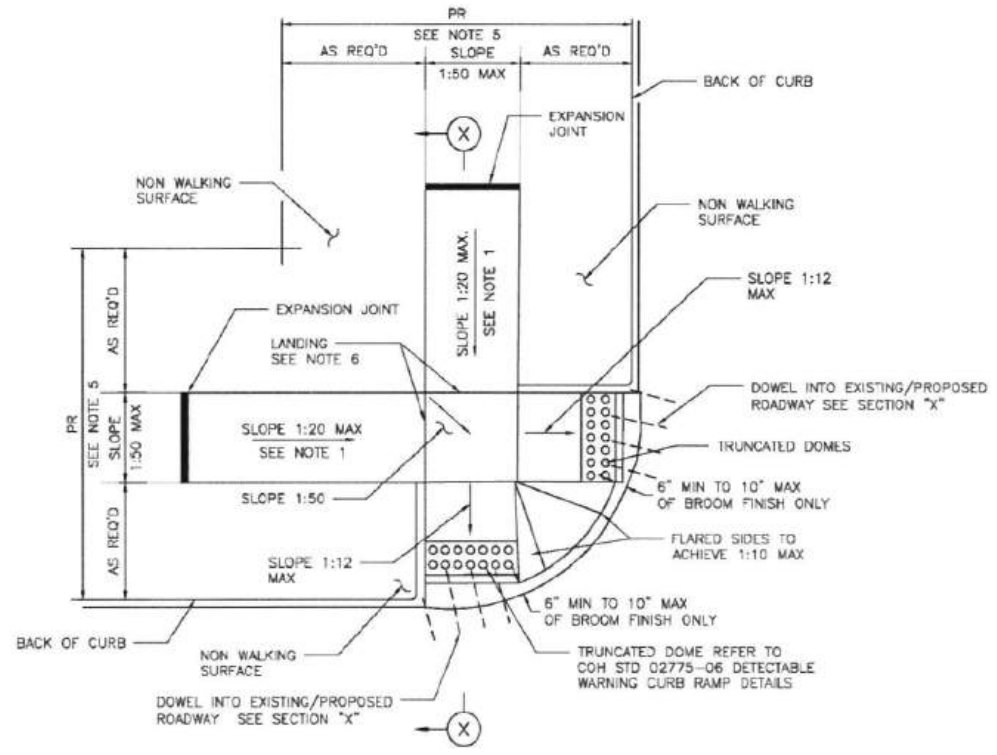
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DRAWING SCALE: AS NOTED
CITY OF HOUSTON DOC: TOMS MATHEW
SHEET NO. 12 OF 3

80159

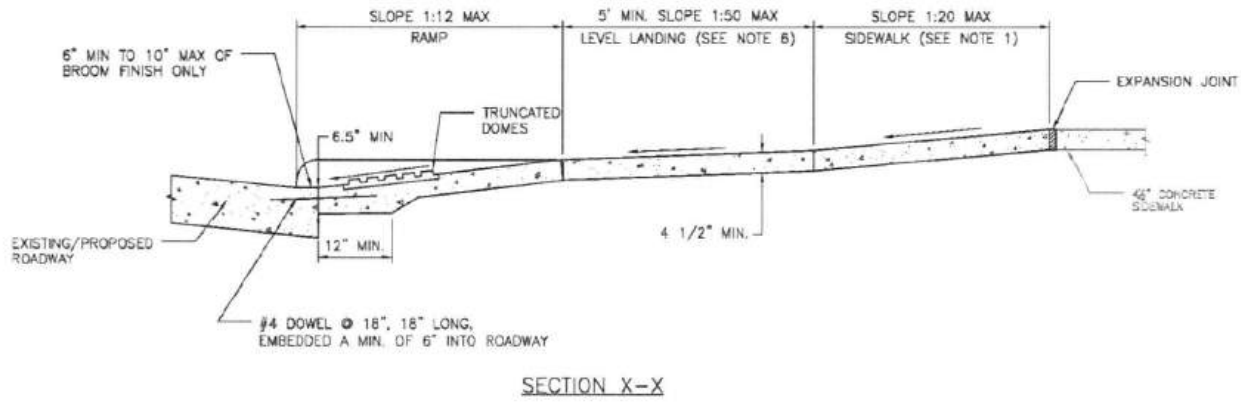
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NO.	DATE	REVISION	APP.

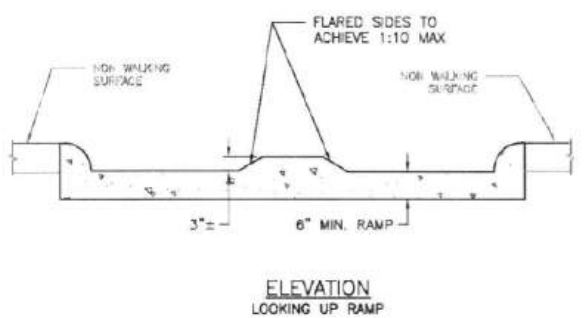
DATE PLOTTED: 2/28/2025 9:21 AM
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 THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



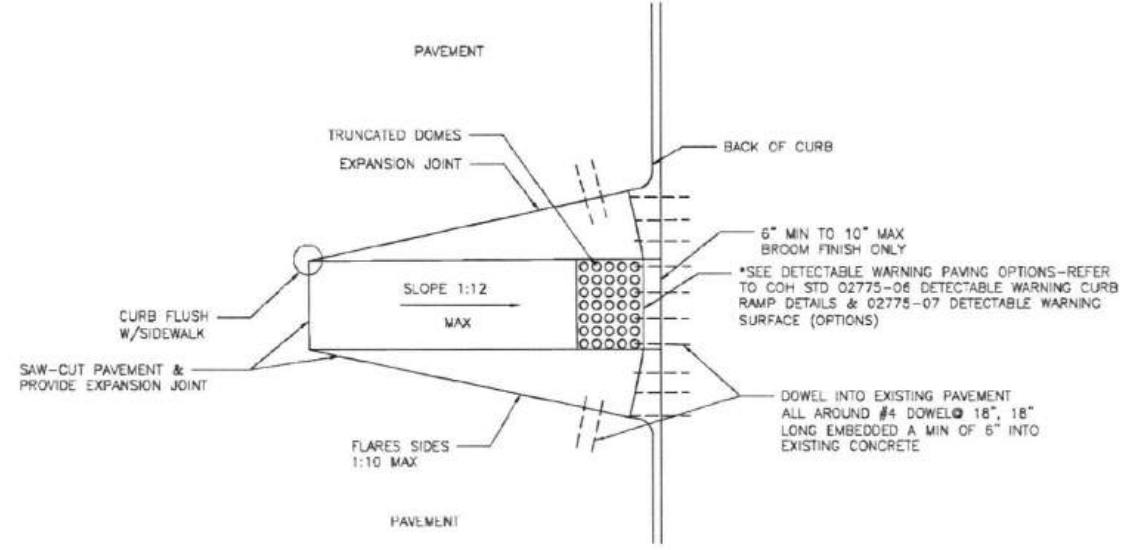
STREETS WITH NON-WALKING SURFACE BEHIND CURB
SEE NOTE-7



SECTION X-X



ELEVATION
LOOKING UP RAMP



CURB RAMP CONSTRUCTION FOR EXISTING PAVEMENT

- NOTES:**
1. REPLACE EXISTING SIDEWALK FROM LEVEL LANDING AS NECESSARY TO ACHIEVE 1:20 SLOPE
 2. BROOM FINISH IS MEASURED FROM FACE OF CURB.
 3. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
 4. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON UNLESS NOTED OTHERWISE.
 5. REFER TO CONTRACT DRAWINGS FOR PEDESTRIAN REALM (PR) WIDTH.
 6. MINIMUM 5'x5' LANDING PAD ACCORDING TO ADA REQUIREMENTS, WHEN THE APPROACHING SIDEWALK IS WIDER THAN 5', THE LANDING PAD AND RAMP WIDTH MUST MATCH THE SIDEWALK WIDTH.
 7. FOR STREETS WITH WALKABLE SURFACES IMMEDIATELY BEHIND THE CURB A FLARE IS REQUIRED ON BOTH SIDES OF THE RAMP.

 1980 Post Oak Blvd., Suite 1380 Houston, Texas 77056 713-850-9000	
APPROVED BY: <i>Suhad منصور</i> CITY ENGINEER	APPROVED BY: <i>HANE MAJID</i> CITY TRAFFIC ENGINEER
APPROVED BY: <i>Carl Hall</i> DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02775-02
 Texas Board of Professional Engineers and Land Surveyors, Exp. No. 142304, 10/01/2020 1200 West Loop South, Suite 1302, Dallas, TX 75240 754.377.8000	
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

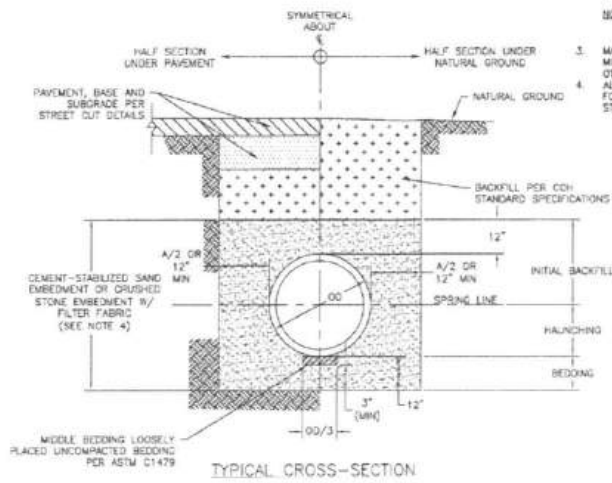
TYPICAL CURB RAMP DETAILS

WBS NUMBER	N-T05000-0014-7
DRAWING SCALE	NOT TO SCALE
CITY OF HOUSTON PROJECT NUMBER	80159
TOMS MATHEW	
SHEET NO.	13 OF 31



NO.	DATE	REVISION	APP.

02317-03



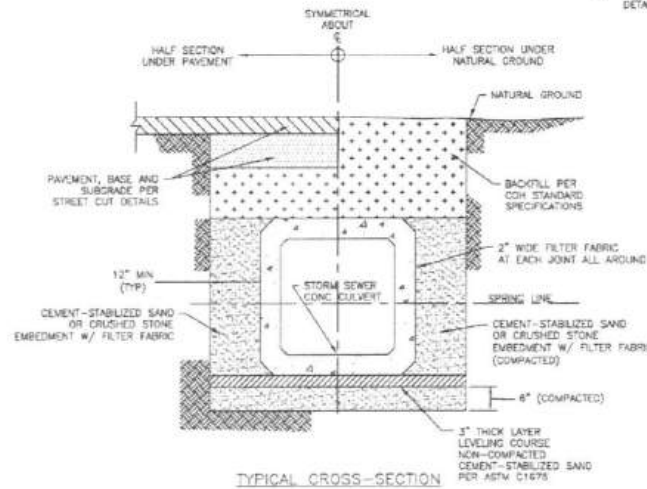
SANITARY OR STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH NTS

NOTES:

- THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS PER COH STANDARD. SEE COH STANDARD SPECIFICATION FOR REQUIREMENTS IN OTHER CONDITIONS.
- MIN. TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "X" FOR THE NOMINAL PIPE SIZE.
- MAX. TRENCH WIDTH SHALL BE NOT GREATER THAN MIN. TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
- ALTERNATIVE EMBEDMENT BACKFILL MATERIALS FOR FORCE MAINS MAY BE ALLOWED. SEE COH STANDARD SPECIFICATIONS.

NOMINAL PIPE SIZE	"X"
18" TO 30"	24"
OVER 30"	36"

02317-05

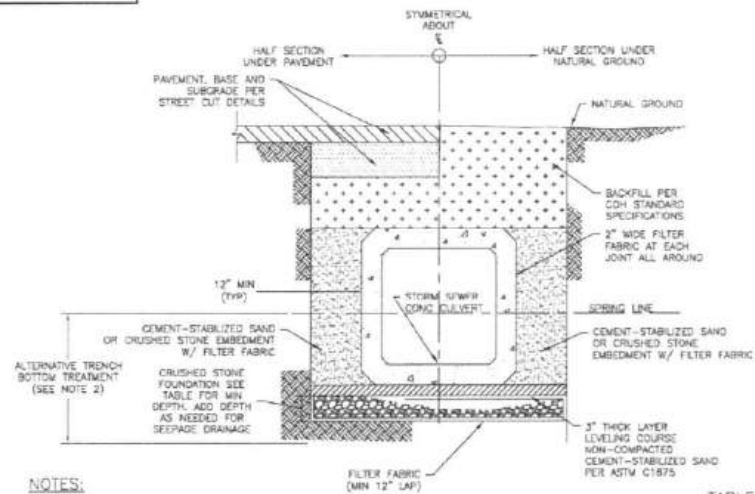


PRECAST CONCRETE BOX STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH NTS

NOTES:

- WHERE MULTIPLE BOX SEWER ARE USED IN THE SAME TRENCH, MIN. OUTSIDE TO OUTSIDE BOX SEWER SEPARATION SHALL BE 6".
- SUBGRADE AND PAVEMENT FOR STREET CUT DETAILS - 02551.

02317-06



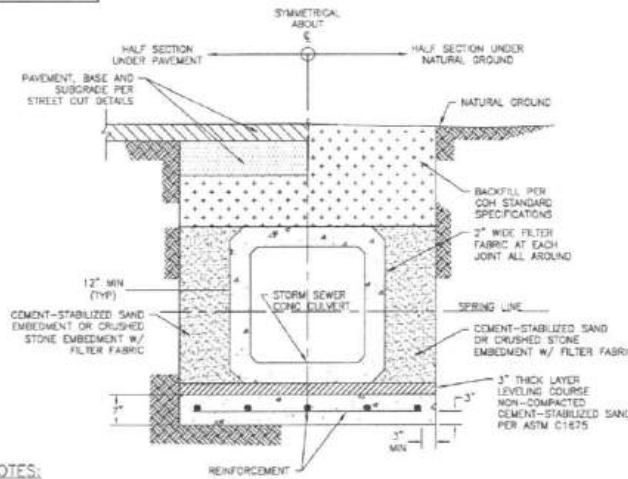
PRECAST CONCRETE BOX STORM SEWER BEDDING AND BACKFILL FOR WET STABLE TRENCH NTS

NOTES:

- WHERE MULTIPLE BOX SEWER ARE USED IN THE SAME TRENCH, MIN. OUTSIDE TO OUTSIDE BOX SEWER SEPARATION SHALL BE 6".
- ALTERNATIVE TRENCH BOTTOM TREATMENT MAY BE USED AS APPROVED BY THE CITY OF ENGINEERS AND AS PAID FOR IN THE PROPOSAL.

CUVERT SIZE (FT)	FOUNDATION DEPTH(INCHES)
3' x 3' TO 6' x 6'	12
6' x 6' AND LARGER	18

02317-07



PRECAST CONCRETE BOX STORM SEWER BEDDING AND BACKFILL WITH SEAL SLAB NTS

NOTES:

- WHERE MULTIPLE BOX SEWER ARE USED IN THE SAME TRENCH, MIN. OUTSIDE TO OUTSIDE BOX SEWER SEPARATION SHALL BE 6".
- REINFORCED CONCRETE SLAB PIPE BEDDING TO BE PLACED IN DRY TRENCH ONLY.
- CONCRETE IN SLAB TO REACH MIN. COMPRESSIVE STRENGTH OF 1000 PSI BASED ON MAX. DESIGN BEFORE PIPE IS LAID.
- PRECAST SEAL SLAB MAYBE USED AS APPROVED BY CITY ENGINEER.

FIRM INFORMATION		ENGINEER'S SEAL
CITY OF HOUSTON HOUSTON PUBLIC WORKS		
STORM SEWER 02317-03 THROUGH 07		
APPROVED BY:	<i>[Signature]</i>	APPROVED BY:
CITY ENGINEER		SEWER DIRECTOR
APPROVED BY:	<i>[Signature]</i>	
DIRECTOR		
EFFECTIVE DATE:	JUL-01-2019	
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SHEET NO.		

 MEMORIAL HEIGHTS REDEVELOPMENT AUTHORITY	1330 Post Oak Blvd., Suite 2650 Houston, Texas 77056 713-850-9000
 QUIDDITY Texas Board of Professional Engineers and Land Surveyors Reg. No. 71-02286 & 0204222 6500 West Loop South, Suite 100, Houston, TX 77047 713-779-8287	 <i>Victoria M. Macalino</i>
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STORM DETAIL

WHITE OAK AT GREENLEAF
SAFETY IMPROVEMENTS

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-T05000-0014-7	
DRAWING SCALE	AS NOTED
CITY OF HOUSTON PROJECT	TOMS MATHEW
SHEET NO.	14 OF 31

CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST	COUNTY		
HOU	HARRIS		



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NOTES:
FENCE LOCATION MAY BE ADJUSTED TO ACTUAL SITE CONDITIONS.

PLAN VIEW TREE PROTECTION FENCING DETAIL

- TREE PROTECTION FENCING
- FENCE SECURED TO POST AT 10'-0" ON CENTER MAXIMUM
- LIMITS OF TREE DRIFLINE
- AREA ENCLOSED BY FENCE IS TREE PROTECTION ZONE

FRONT VIEW TREE PROTECTION FENCING DETAIL

- TREE DRIFLINE
- PROTECTED TREE
- IRON T-BAR POST
- PRESERVATION TAG (CONSTRUCTION TAPE OR RIBBON)
- 6'-0" IRON T-BAR POST
- PLASTIC MESH CONSTRUCTION FENCE
- FINISH GRADE

DETAIL B-4 PROTECTIVE PLASTIC MESH FENCE

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TREE PROTECTION GENERAL REQUIREMENTS
(SCALE: NOT TO SCALE)

APPROVED BY:

Sahad Hussain
CITY ENGINEER

Carl Haddock
DIRECTOR OF HPW

EFF DATE: NOV-27-2023 DWG NO: 01562-01

DISCLAIMER: THE ENGINEER'S SERVICES IN THE DESIGN OF THIS STANDARD ARE LIMITED TO THE DESIGN OF THE STANDARD ONLY. THE USER OF THIS STANDARD SHALL BE RESPONSIBLE FOR THE DESIGN OF ANY PROJECT TO WHICH THIS STANDARD IS APPLIED. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR ANY DAMAGE TO PROPERTY OR PERSONS ARISING FROM THE USE OF THIS STANDARD.

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ROOT PRUNING NOTE:

- APPLICABLE TO ROOT PRUNING ON ONE SIDE OF TREE ONLY. CONSULT CITY ARBORIST FOR MORE EXTENSION ROOT PRUNING. FINAL APPROVAL SHALL COME FROM PARKS AND RECREATION DEPARTMENT.
- SIDEWALK SHALL BE CONSTRUCTED OF EITHER CEMENT, CONCRETE, ASPHALT OR OTHER DURABLE MATERIAL AS THE COUNCIL MAY DESIGNATE (CHAPTER 40-91, CODE OF ORDINANCES).

TREE PRUNING

- REMOVE MAJOR AND SECONDARY LIMBS & BRANCHES WITHIN SIDEWALK ENVELOPE
- PRUNE MAJOR LIMBS ONLY IF NECESSARY TO STRUCTURALLY AND AESTHETICALLY BALANCE FORM OF TREE

ROOT PRUNING DETAIL

- TREE DRIFLINE
- TREE PROTECTION FENCE
- TREE PROTECTION FENCE
- MIN DISTANCE (SEE TABLE 1)
- ROOT PRUNING TRENCH (MAX 6" WIDE)
- MIN 3" DEEP

TABLE 1 "M" DISTANCE TABLE

TREE TRUNK DIA. (IN)	*MINIMUM DISTANCE "M"
< 6"	3 FEET
6" ≤ DIA. ≤ 20"	0.75 FEET PER DIA.-INCH
> 20"	CONSULT CITY ARBORIST

*MINIMUM DISTANCE FROM TREE TRUNK TO EDGE OF TRENCH

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TREE PROTECTION TREE AND ROOT PRUNING
(SCALE: NOT TO SCALE)

APPROVED BY:

Sahad Hussain
CITY ENGINEER

Carl Haddock
DIRECTOR OF HPW

EFF DATE: NOV-27-2023 DWG NO: 01562-02

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CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST	COUNTY		
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TREE PROTECTION DETAIL

WHITE OAK AT GREENLEAF SAFETY IMPROVEMENTS

WBS NUMBER: N-T05000-0014-7
DRAWING SCALE: AS NOTED
CITY OF HOUSTON PROJECT: TOMS MATHEW
SHEET NO. 15 OF 31

80159

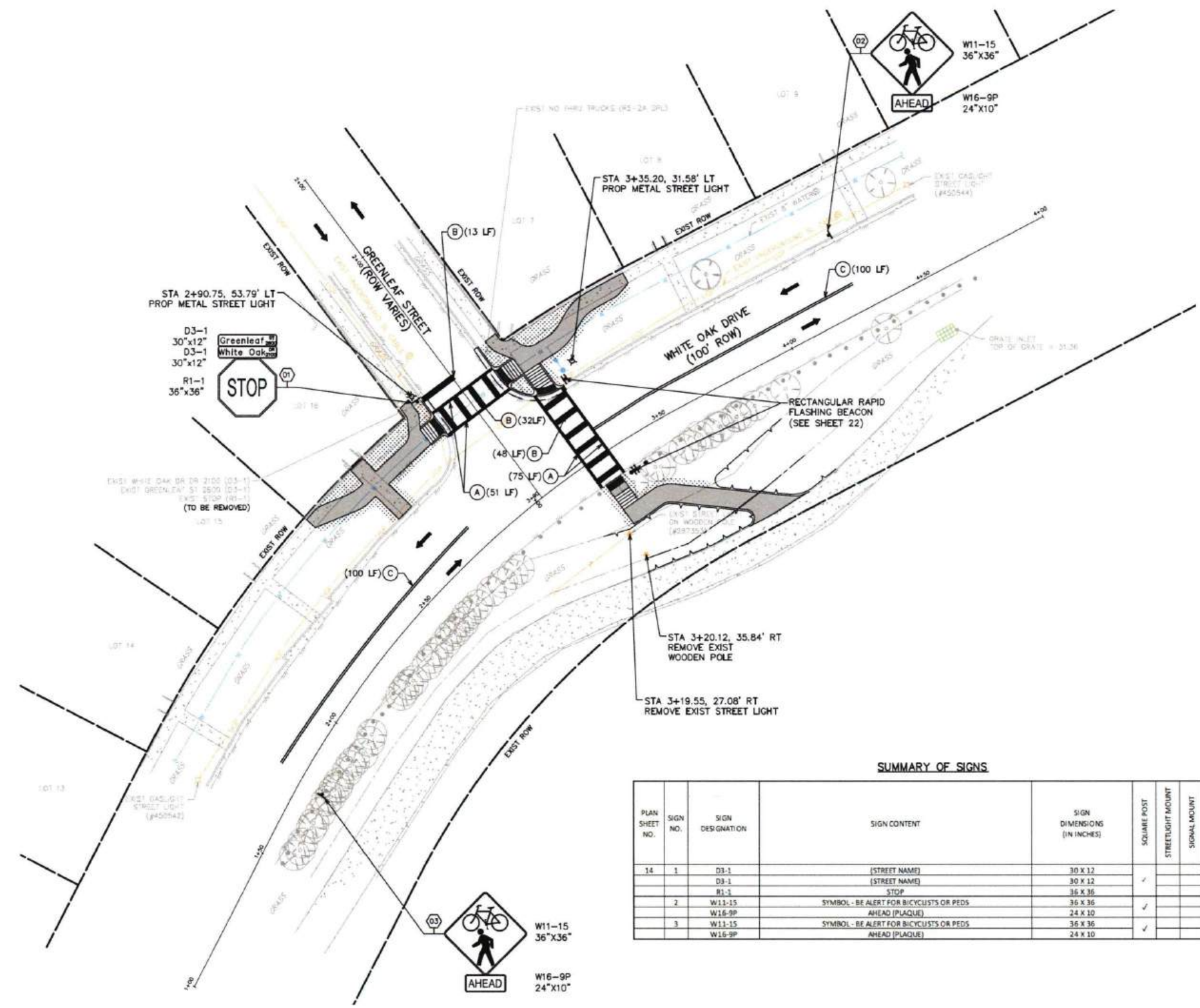
NO.	DATE	REVISION	APP.

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PAVEMENT MARKING LEGEND

- Ⓐ WS12
- Ⓑ WS24
- Ⓒ T054-A40/A40

NO.	DATE	REVISION	APP.



SUMMARY OF SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS (IN INCHES)	SQUARE POST	STREETLIGHT MOUNT	SIGNAL MOUNT	ROUND POST PERMISSION NEEDED FROM CITY TRAFFIC ENGINEER	Posts (1 or 2)	SIGN AREA SQ FT (FOR INFORMATION ONLY, NOT INTENDED FOR BID)
14	1	D3-1	(STREET NAME)	30 X 12					1	11.25
		D3-1	(STREET NAME)	30 X 12	✓					
		R1-1	STOP	36 X 36						
2	W11-15		SYMBOL - BE ALERT FOR BICYCLISTS OR Peds	36 X 36					1	10.67
	W16-9P		AHEAD (PLAQUE)	24 X 10	✓					
3	W11-15		SYMBOL - BE ALERT FOR BICYCLISTS OR Peds	36 X 36					1	10.67
	W16-9P		AHEAD (PLAQUE)	24 X 10	✓					

CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST	COUNTY		
HOU	HARRIS		

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MEMORIAL HEIGHTS REDEVELOPMENT AUTHORITY

QUIDDITY

Texas Board of Professional Engineers
and Land Surveyors Reg. No. P-12086 & 1204330
4330 West Loop South, Suite 200, Dallas, TX 75240
757-773-3327

5/27/25

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Victoria M. Macalino

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

**PAVEMENT MARKING, SIGNAGE,
& STREETLIGHT LAYOUT**

**WHITE OAK AT GREENLEAF
SAFETY IMPROVEMENTS**

WBS NUMBER: N-T05000-0014-7
DRAWING SCALE: AS NOTED
CITY OF HOUSTON PROJECT: TOMS MATHEW
SHEET NO. 16 OF 31

80159

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HOUSTON, TEXAS

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POST MOUNTED STREET NAME SIGN W/ NO OUTLET SIGN

D3 - POST MOUNTED STREET NAME SIGN

OVERHEAD STREET NAME SIGN DETAIL

D3 - STREET NAME SIGN

	POST-MOUNTED SIGN	OVERHEAD SIGN
HEIGHT	9"	24"
LENGTH	30" MIN 48" MAX 6" INCREMENTS OF LENGTH	10" MAX 2' INCREMENT OF LENGTH
THICKNESS	0.125"	0.080"
SUBSTRATE	ALUMINUM ALLOY, 5052-H38 (ASTM B-209)	
SIGN FACE MATERIALS	GREEN FILM OVER DIAMOND GRADE VIP SHEETING	
LEGENDS AND SYMBOLS	HIGHWAY GOTHIC SERIES D (USUAL) HIGHWAY GOTHIC SERIES C OR B FOR MAXIMUM LENGTH SIGN BLACK	
COLOR	LETTERS-WHITE REFLECTIVE BORDER-WHITE REFLECTIVE BACKGROUND-GREEN REFLECTIVE	

D3 SIGNS GREATER THAN 42" PLATES IN LENGTH

D3 SIGNS LESS THAN OR EQUAL TO 42" PLATES IN LENGTH

45°/90° CROSS PIECE SIGN BRACKET

SQUARE POST CAP BRACKET DETAILS

SIGNAL POLE MOUNTING DETAIL

NOTES:

- TYPICAL SIGN PLATE SHOULD BE 30" MAX.
- LONGER SIGN PLATE MUST BE APPROVED BY THE CITY TRAFFIC ENGINEER.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD
STREET NAME SIGN AND SIGN MOUNTING
(SCALE: NOT TO SCALE)

APPROVED BY:

Sahad Hanwar
CITY ENGINEER

WRENG NGUYEN
CITY TRAFFIC ENGINEER

Carroll Haddock
DIRECTOR OF HPW

EFF DATE: NOV-27-2023 DWG NO: 01554-03

DocuSign Envelope ID: CB71C116-8716-4899-ABEE-002F2C55AF8

TYPICAL SIGN PLACEMENT

TWO-WAY STOP AND ONE-WAY OPERATION ON MAJOR/LOCAL INTERSECTION

TWO-WAY STOP AND ONE-WAY OPERATION ON LOCAL/LOCAL INTERSECTION

FOUR-WAY STOP CONTROL ON LOCAL/LOCAL INTERSECTION

MAST ARM INSTALLATION
REFER TO TRAFFIC SIGNAL DETAILS FOR ADDITIONAL INFORMATION.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD
TYPICAL SIGN PLACEMENT
(SCALE: NOT TO SCALE)

APPROVED BY:

Sahad Hanwar
CITY ENGINEER

WRENG NGUYEN
CITY TRAFFIC ENGINEER

Carroll Haddock
DIRECTOR OF HPW

EFF DATE: NOV-27-2023 DWG NO: 01554-07

CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST		COUNTY	
HOU		HARRIS	

1330 Post Oak Blvd., Suite 2650
Houston, Texas 77056
713-850-9000

MEMORIAL HEIGHTS
REDEVELOPMENT AUTHORITY

QUIDDITY
Texas Board of Professional Engineers
and Land Surveyors Reg. No. P-20208 & D200202
6530 West Loop South, Suite 150, Dallas, TX 75240
713-777-0077

VICTORIA M. MACALINO
142304
LICENSED PROFESSIONAL ENGINEER
5/15/25

SURVEYED BY: QUIDDITY
FB NO. 3116 PAGES 17-19

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVEMENT MARKING & SIGNAGE
DETAILS

WHITE OAK AT GREENLEAF
SAFETY IMPROVEMENTS

WBS NUMBER: N-T05000-0014-7
DRAWING SCALE: AS NOTED
CITY OF HOUSTON PROJECT: TOMS MATHEW
SHEET NO. 18 OF 31

80159

NO.	DATE	REVISION	APP.

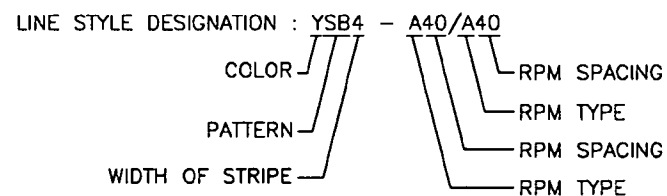
DISSEMINATED 7/50-0024-02 1-0541 WHITE OAK AT GREENLEAF2 DESIGN PHASE/CAD/PLANS/17160-0024-C-003-DETAILS.DWG. 5/15/2025 10:00 AM
 THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

DESCRIPTION AND APPLICATION OF PAVEMENT MARKING LINES

LINE SERIES	COLOR	DESCRIPTION	WIDTH (INCHES)	TYPICAL APPLICATIONS
WB	WHITE	BROKEN (10' STRIPE W/30' GAP)	4"	LANE LINES BETWEEN TRAVEL LANES IN THE SAME DIRECTION WHERE CHANGING OF LANES IS PERMITTED.
WS	WHITE	SOLID	4"	EDGE LINES TO DELINEATE THE RIGHT EDGE OF THE ROADWAY.
			6"	LEFT EDGE OF BICYCLE LANE AND LANE LINES BETWEEN TRAVEL LANES IN THE SAME DIRECTION WHERE CHANGING OF LANES IS DISCOURAGED.
			12"	PERPENDICULAR CROSSWALK LINES.
			24"	STOP BARS AT INTERSECTIONS (SIGNALIZED AND UNSIGNALIZED).
			12", 24"	HATCHING AT HIGH VISIBILITY CROSSWALKS.
WC	WHITE	GUIDE (2' STRIPE W/6' GAP)	6"	GUIDE LINES THROUGH INTERSECTIONS. TAPER LINES FOR TURN LANES. GUIDE LINES FOR BICYCLE LANES.
			4"	EDGE LINES TO DELINEATE THE LEFT EDGE OF A DIVIDED ROADWAY, A ONE-WAY ROAD, OR RAMP.
			6"	BIDIRECTIONAL BICYCLE LANE PAVEMENT MARKING.
YS	YELLOW	SOLID	12", 24"	DIAGONAL HATCHING USED IN GORES BETWEEN OPPOSING DIRECTION OF TRAVEL LANES.
			4"	EDGE LINES TO DELINEATE THE LEFT EDGE OF A DIVIDED ROADWAY, A ONE-WAY ROAD, OR RAMP.
YDS	YELLOW	DOUBLE SOLID	4" - (4") - 4" (GAP)	CENTERLINE THAT SEPARATES OPPOSING TRAVEL LANES AND DELINEATION OF MEDIAN ISLANDS.
YDB	YELLOW	DOUBLE BROKEN	4" - (4") - 4" (GAP)	DEFINES THE EDGES OF CENTER REVERSIBLE LANES THAT ARE USED AS TWLTL'S DURING INTERMITTENT PERIODS.
YB	YELLOW	BROKEN (10' STRIPE W/30' GAP)	4"	SEPARATES TRAVEL LANES IN OPPOSITE DIRECTIONS WHERE PASSING IS PERMITTED IN BOTH DIRECTIONS OF TRAVEL.
YB (BIKE)	YELLOW	BROKEN (3' STRIPE W/9' GAP)	4"	SEPARATES BICYCLE TRAVEL LANES IN OPPOSITE DIRECTIONS WHERE PASSING IS PERMITTED IN BOTH DIRECTIONS OF TRAVEL.
YSB	YELLOW	SOLID & BROKEN BROKEN (10' STRIPE W/30' GAP)	4" - (4") - 4" (GAP)	SEPARATES TRAVEL LANES IN OPPOSITE DIRECTIONS WHERE PASSING IS PERMITTED IN ONE DIRECTION AND PROHIBITED IN THE OPPOSITE DIRECTION.
				USED FOR EDGE OF TWO-WAY LEFT TURN LANES (TWLTL).
BICYCLE GREEN	GREEN	SOLID COLORED PAVEMENT	VARIES	PED/BIKE CROSSING
				VEHICLE / BIKE / CONFLICT AREA
YIELD LINE	WHITE	TRIANGLE	16" x 24"	MID-BLOCK CROSSING.

DESCRIPTION AND APPLICATION OF REFLECTIVE RAISED PAVEMENT MARKERS (RPM)

RRPM TYPES	COLOR	COH SPEC. SEC. 02754 EQUIVALENT	DESCRIPTION
C	CLEAR	TYPE I-C	APPROACH FACE THAT REFLECTS WHITE LIGHT, AND THE OTHER SIDE DOES NOT REFLECT.
R	CLEAR & RED	TYPE II-C-R	APPROACH FACE THAT REFLECTS WHITE LIGHT, AND THE OTHER SIDE REFLECTS RED LIGHT.
A	AMBER & AMBER	TYPE II-A-A	APPROACH FACE AND THE OTHER SIDE BOTH REFLECT AMBER LIGHT.



GENERAL PAVEMENT MARKING NOTES:

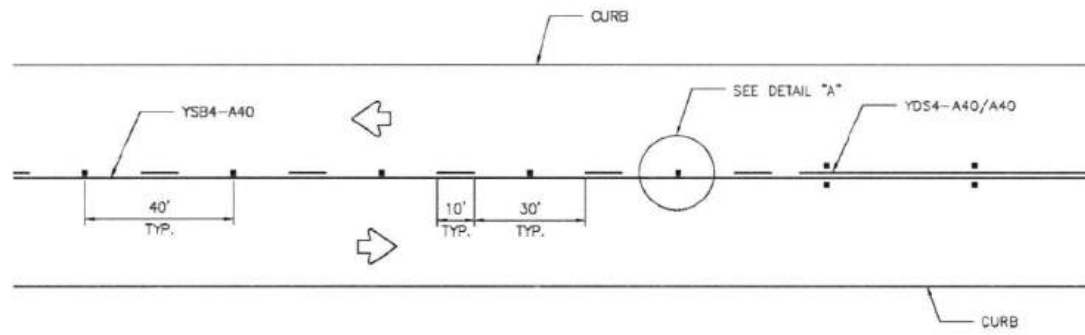
- PRIOR TO START OF CONSTRUCTION, ALL EXISTING PAVEMENT MARKINGS WITHIN THE AREA OF CONSTRUCTION SHALL BE INVENTORIED AND DOCUMENTED JOINTLY BY THE CITY INSPECTOR AND THE CONTRACTOR. THIS DOCUMENT WILL BE JOINTLY SIGNED BY BOTH PARTIES REFLECTING ALL EXISTING PAVEMENT MARKINGS AND LANE CONFIGURATIONS WILL BE DUPLICATED AGAIN. THIS REVIEW CAN BE DONE IN CONJUNCTION WITH SIGN INVENTORY. THE CONTRACTOR IS HELD ACCOUNTABLE FOR EXISTING AND TEMPORARY CONSTRUCTION PAVEMENT MARKINGS THROUGHOUT THE PROJECT AND AT THE PROJECT'S COMPLETION.
- ALL PAVEMENT MARKINGS SHALL CONFORM TO CITY OF HOUSTON STANDARDS AND SPECIFICATIONS AND GENERAL GUIDELINES OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
- THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED BY THE CITY TRAFFIC ENGINEER.
- THE DESIGN SPEED FOR THE ROAD IS: _____. THE POSTED SPEED LIMIT IS: _____.
- ALL LANE DIMENSIONS ARE FROM CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE, FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, DETAILS, AND STANDARDS WHEN INSTALLING PAVEMENT MARKINGS AND SYMBOLS.
- THE FINAL LONGITUDINAL STRIPINGS SHALL BE 60 MIL (0.060") THICK HOT-SPRAYED THERMOPLASTIC PLACED OVER THE TEMPORARY STRIPING WITHIN 14 TO 30 CALENDAR DAYS AFTER COMPLETION OF THE FINAL PAVEMENT SURFACE, OR AS DIRECTED BY THE CITY TRAFFIC ENGINEER. ALL OTHER PAVEMENT MARKINGS SHALL BE APPLIED AT THE SAME TIME. TEMPORARY STRIPING SHALL BE WATER BASED PAINT.
- ALL FINAL TRANSVERSE MARKINGS SHALL BE 90 MIL (0.090") HOT-SPRAYED THERMOPLASTIC. ALL PAVEMENT ARROWS AND LEGENDS SHALL ALSO BE 90 MIL (0.090") HOT-SPRAYED THERMOPLASTIC. PREFORMED THERMOPLASTIC APPLICATIONS MAY BE USED IF ONLY APPROVED BY THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS OF FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE IMPLEMENTED. IN TANGENT SECTIONS OF A ROAD WHERE THE PAVEMENT MARKING PATTERN DOES NOT CHANGE, CONTROL POINTS CAN BE SET AT 200 FEET SPACING. THE LAYOUT AND INSPECTION OF ALL PAVEMENT MARKINGS SHALL BE APPROVED BY CITY OF HOUSTON REPRESENTATIVE PRIOR TO THE APPLICATION OF MATERIALS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET NO MORE THAN ONE FOOT CLEAR OF THE CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE CITY TRAFFIC ENGINEER.
- ALL RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW. TYPE C PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE CLEAR FACE OF EACH MARKER IS FACING THE APPROACHING TRAFFIC FLOW AND PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
- ALL REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED IN ACCORDANCE TO CITY OF HOUSTON STANDARD SPECIFICATION 02762. APPLYING OVER EXISTING PAVEMENT MARKINGS DOES NOT CONSTITUTE AS APPROVED OBLITERATION METHOD.
- THE ENGINEER OF RECORD SHALL BE REQUIRED TO PRODUCE AS-BUILT OF PAVEMENT MARKING PLANS WITHIN 30 DAYS AFTER COMPLETION OF PAVEMENT MARKING IMPLEMENTATION.
- BLUE RPMS MAY BE PLACED ADJACENT TO FIRE HYDRANTS WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER.
- FOR ALL CONSTRUCTION, ALL PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED AND SHALL BE PAID BY THE PROJECT OWNER/DEVELOPER.
- FINAL INSPECTION AND ACCEPTANCE OF PAVEMENT MARKINGS SHALL BE PERFORMED BY TRANSPORTATION & DRAINAGE OPERATION REPRESENTATIVE (713-803-3054).

<p>1980 Post Oak Blvd., Suite 1380 Houston, Texas 77056 713-850-9000</p>	
APPROVED BY:	APPROVED BY:
 Subhad Banerjee CITY ENGINEER	 EBRINE NOUWEN CITY TRAFFIC ENGINEER
APPROVED BY:	
 Carl Haddock DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02760-01
 QUIDDITY Surveyed by: QUIDDITY FB NO. 3116 PAGES 17-19	
CITY OF HOUSTON HOUSTON PUBLIC WORKS STANDARD	

PAVEMENT MARKINGS GENERAL NOTES AND LEGENDS	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY.
N-T05000-0014-7	ACCEPTED AND FILED
DRAWING SCALE	80159
NOT TO SCALE	
CITY OF HOUSTON POST	CITY OF HOUSTON HOUSTON, TEXAS
TOMS MATHEW	
SHEET NO. 19 OF 31	

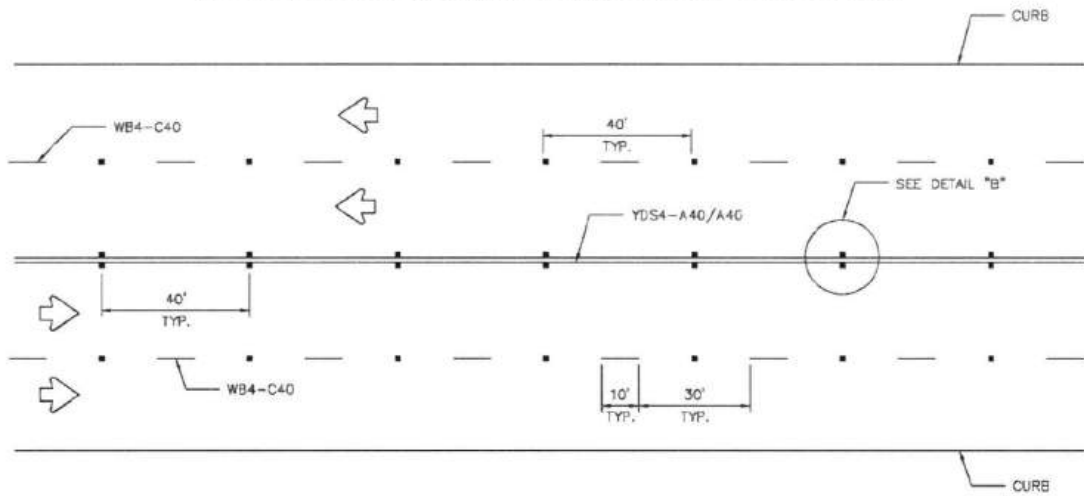
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 THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ACCURACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

CENTERLINE & FOR ALL TWO LANE STREETS WITH PASSING ZONE

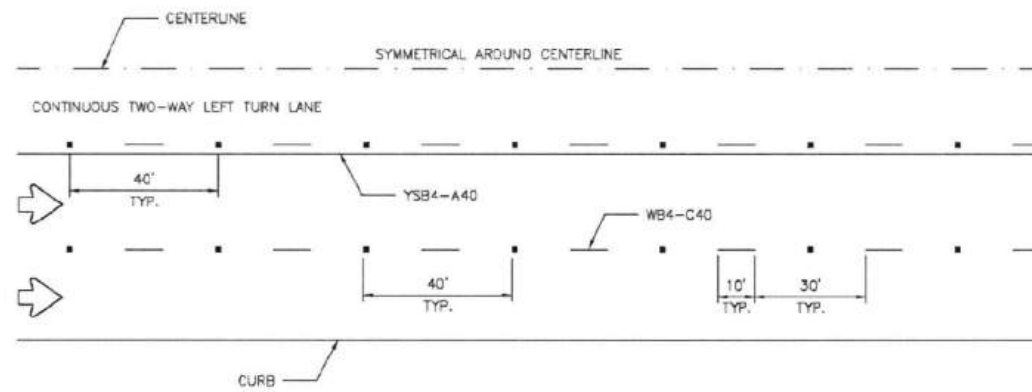


CENTERLINE & LANE LINES FOR FOUR LANE TWO-WAY STREETS

RRPM TYPE C, CLEAR FACE TOWARD NORMAL TRAFFIC, SHALL BE PLACED ON 40-FOOT CENTERS.

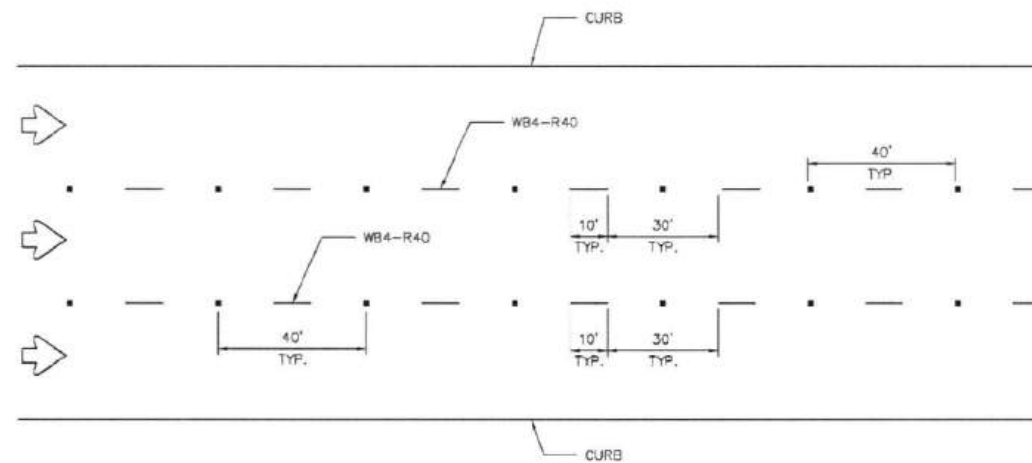


CENTERLINE & LANE LINES FOR TWO-WAY LEFT TURN LANE



LANE LINES FOR ONE-WAY MULTILANE STREET

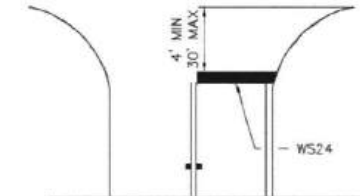
RRPM TYPE R SHALL HAVE CLEAR FACE TOWARD NORMAL TRAFFIC AND RED FACE TOWARD WRONG-WAY TRAFFIC.



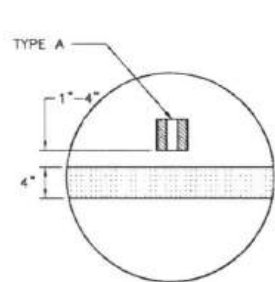
GENERAL NOTES:

1. EDGELINE ADJACENT TO CURB AND GUTTER IS NOT REQUIRED IN ALL CASES, HOWEVER SHALL BE PLACED AS DIRECTED BY CITY TRAFFIC ENGINEER.
2. THE TRAVELED WAY INCLUDES ONLY THAT PORTION OF THE ROADWAY USED FOR VEHICULAR TRAVEL AND NOT THE PARKING LANES, SIDEWALKS, BERMS AND SHOULDERS. THE TRAVELED WAYS SHALL BE MEASURED FROM THE INSIDE OF EDGELINE TO INSIDE OF EDGELINE OF A TWO LANE ROADWAY.
3. ALL RAISED PAVEMENT MARKERS PLACED IN BROKEN LINES SHALL BE PLACED IN LINE WITH AND MIDWAY BETWEEN THE STRIPES.
4. ON CONCRETE PAVEMENTS THE RAISED PAVEMENT MARKERS SHOULD BE PLACED TO ONE SIDE OF THE LONGITUDINAL JOINTS.
5. ALL PAVEMENT MARKING MATERIAL SHALL MEET THE REQUIRED MATERIAL SPECIFICATIONS AS SPECIFIED BY CITY OF HOUSTON STANDARD SPECIFICATIONS.

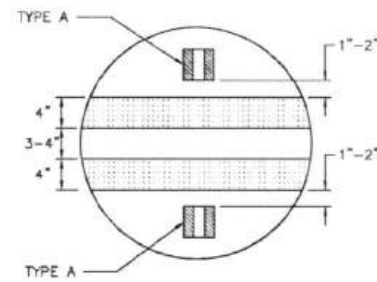
GUIDE FOR PLACEMENT OF STOP LINES & CENTERLINE



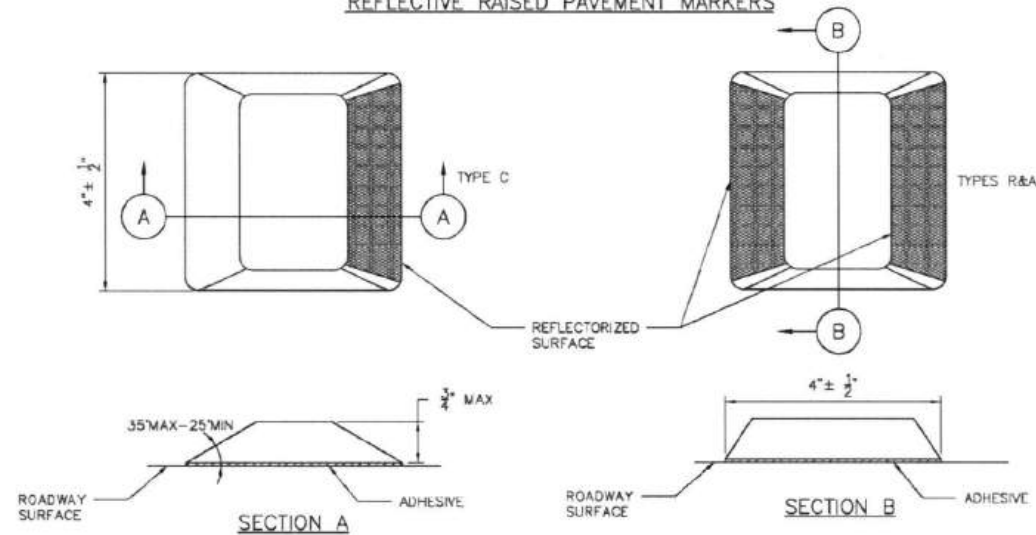
DETAIL "A"



DETAIL "B"



REFLECTIVE RAISED PAVEMENT MARKERS



1980 Post Oak Blvd., Suite 1380
Houston, Texas 77056
713-850-9000

APPROVED BY: *Suhail Inamdar* CITY ENGINEER
APPROVED BY: *BRUCE HOUYEN* CITY TRAFFIC ENGINEER

APPROVED BY: *Carl Hubbard* DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV-27-2023 DWG NO: 02760-05

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors, Reg. No. 42288 & 42888
6320 West Loop South, Suite 112, Dallas, TX 75240
754.777.8337

VICTORIA M. MACALINO
142304
LICENSED PROFESSIONAL ENGINEER
5/15/25

SURVEYED BY: QUIDDITY
FB NO. 3116 PAGES 17-19

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

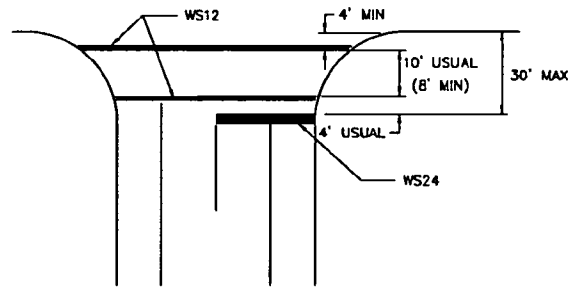
STANDARD PAVEMENT MARKINGS WITH REFLECTIVE RAISED PAVEMENT MARKERS FOR POSITION GUIDANCE

WBS NUMBER	N-105000-0014-7
DRAWING SCALE	NOT TO SCALE
CITY OF HOUSTON PROJECT	TOMS MATHEW
SHEET NO.	20 OF 31

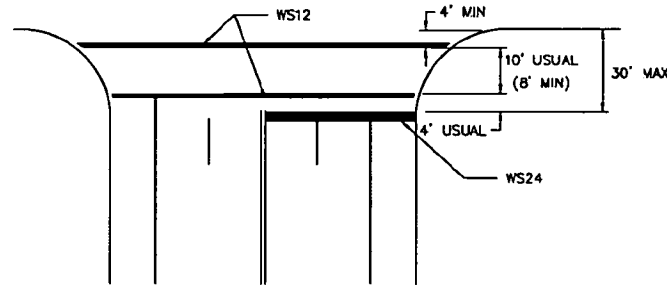


BASED ON 780-0024-02 1-0541 WHITE OAK AT GREENLEAF 2 DESIGN PHASE CAD PLANS 11780-0024-01-005-DETAILS.DWG, 5/15/2025 10:00 AM
 THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

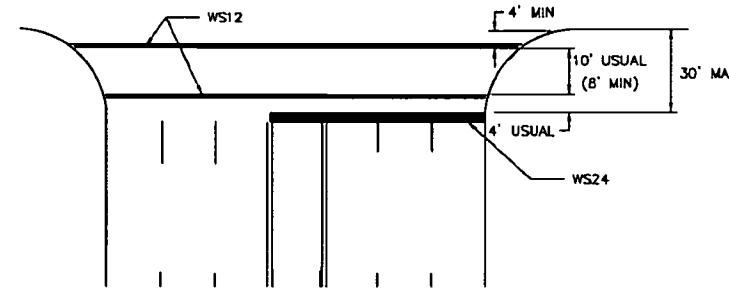
TWO LANES WITH SHOULDERS



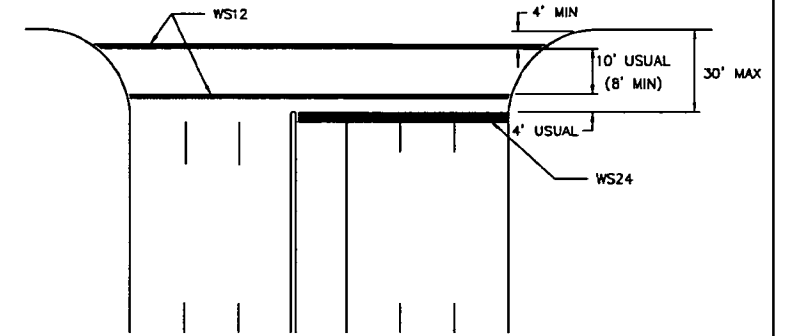
FOUR LANES WITH SHOULDERS



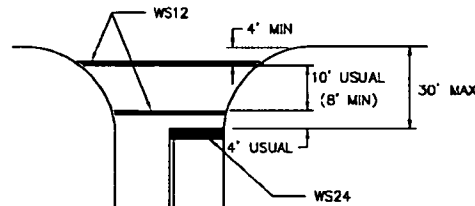
MULTI - LANES



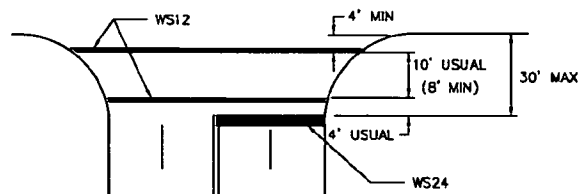
MULTI - LANE WITH MEDIAN



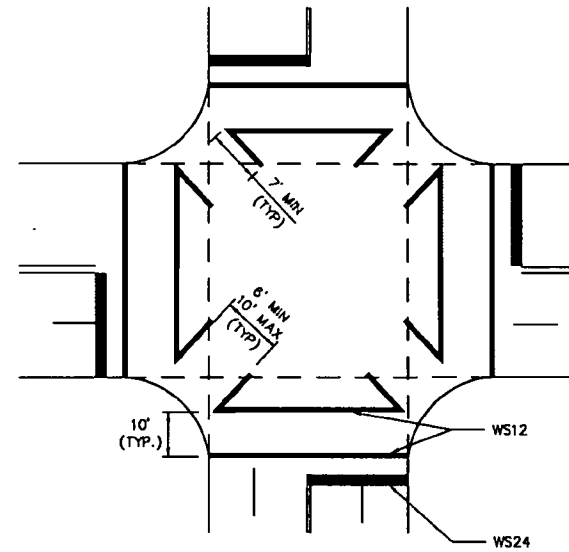
TWO LANES



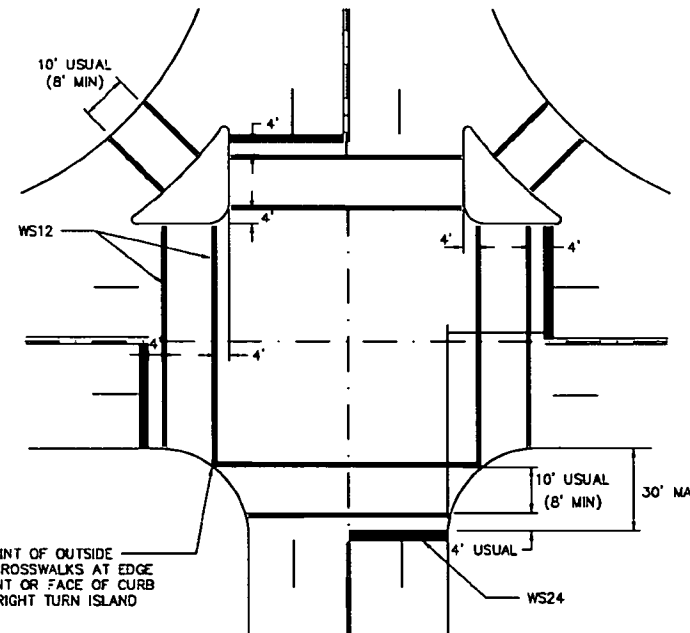
FOUR LANES



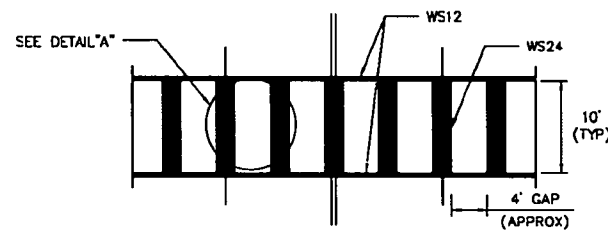
EXCLUSIVE PEDESTRIAN PHASE



INTERSECTION WITH RIGHT - TURN ISLANDS

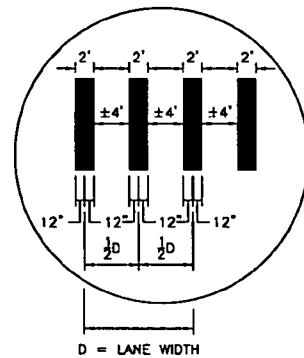


HIGH VISIBILITY CROSSWALK DETAIL



TYPICALLY USED AT SIGNALIZED AND NON-SIGNALIZED CROSSINGS ON COLLECTOR AND ARTERIAL ROADWAYS AND AT LOCATIONS REQUIRING EXTRA EMPHASIS.

DETAIL "A"



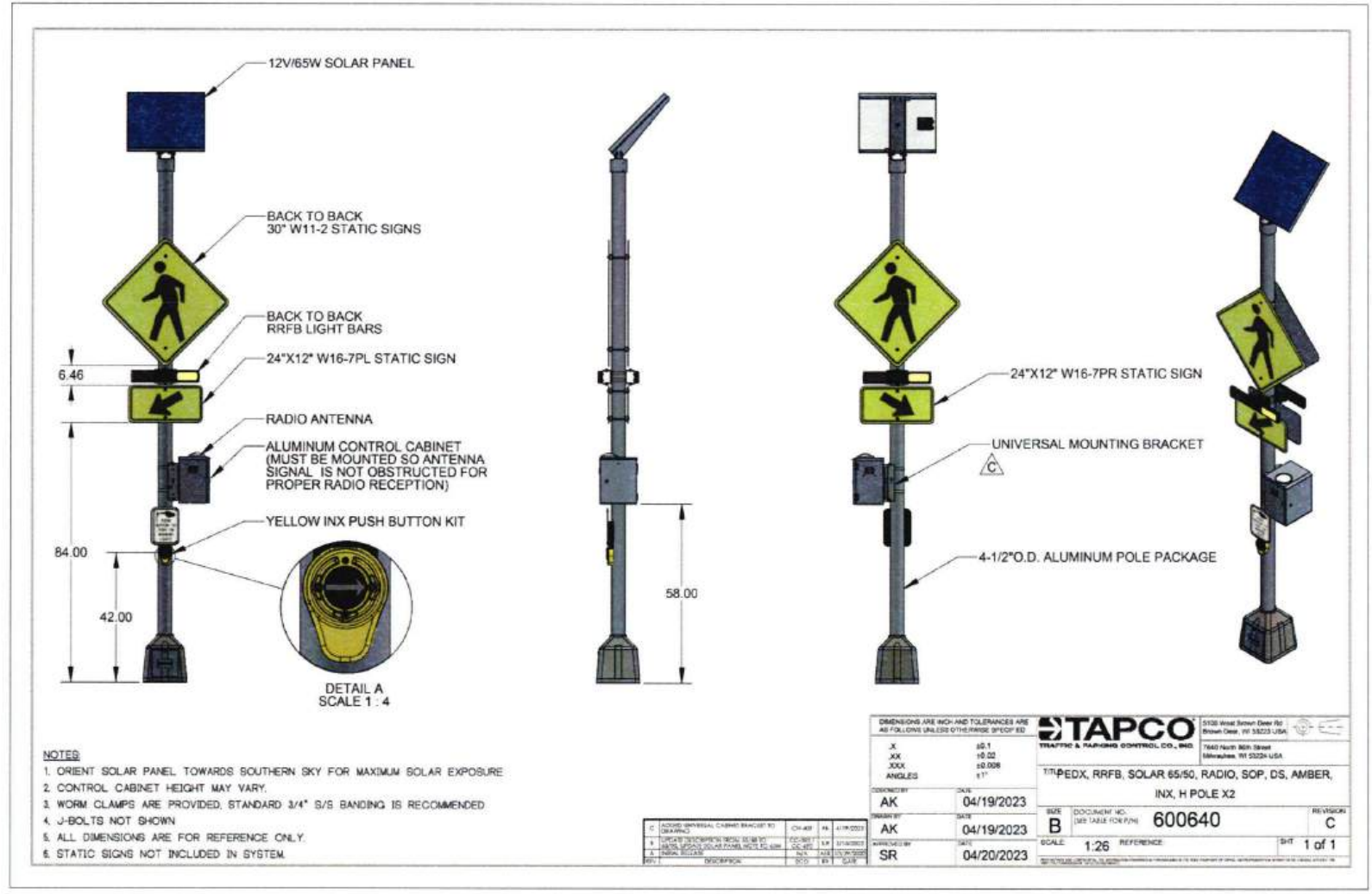
NOTES:

- CROSSWALKS AND STOP LINES SHALL BE WHITE.
- "D" IS EQUAL TO ONE HALF THE WIDTH OF TRAVEL LANE.

1980 Post Oak Blvd., Suite 1380 Houston, Texas 77056 713-850-9000	
APPROVED BY: Suleh Ismail CITY ENGINEER	APPROVED BY: ERIC NGUYEN CITY TRAFFIC ENGINEER
APPROVED BY: DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02760-12
SURVEYED BY: QUIDDITY FB NO. 3118 PAGES 17-19	142304 5/15/25 Victoria M. Macalind
CITY OF HOUSTON HOUSTON PUBLIC WORKS STANDARD	
TYPICAL CROSSWALK DETAILS	
WBS NUMBER N-T05000-0014	FOR CITY OF HOUSTON USE ONLY ACCEPTED AND FILED
DRAWING SCALE NOT TO SCALE	80159
CITY OF HOUSTON POC TOMS MATHEW	CITY ENGINEER
SHEET NO. 21 OF 21	HOUSTON, TEXAS

K:\14760\14760-0024-02 T-0541 WHITE OAK AT GREENLEAF V2 DESIGN PHASE\CAD\PLANS\14760-0024-C-005-DETAILS.DWG, 5/15/2025 10:00 AM

NO.	DATE	REVISION	APP.



- NOTES**
1. ORIENT SOLAR PANEL TOWARDS SOUTHERN SKY FOR MAXIMUM SOLAR EXPOSURE.
 2. CONTROL CABINET HEIGHT MAY VARY.
 3. WORM CLAMPS ARE PROVIDED. STANDARD 3/4\"/>

C	UNIVERSAL MOUNTING BRACKET KIT	CH-48	PK	4/19/2023
X	UNIVERSAL MOUNTING BRACKET KIT	CH-48	PK	4/19/2023
A	UNIVERSAL MOUNTING BRACKET KIT	CH-48	PK	4/19/2023

STAPCO
 THEFT & DAMAGE CONTROL, INC.
 1760 North 16th Street
 Houston, TX 77024 USA

5132 Wood Branch Drive Rd
 Houston, TX 77023 USA

17\"/>

CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST	COUNTY		
HOU	HARRIS		

1330 Post Oak Blvd., Suite 2650
 Houston, Texas 77056
 713-850-9000

MEMORIAL HEIGHTS REDEVELOPMENT AUTHORITY

QUIDDITY
 Texas Board of Professional Engineers
 and Land Surveyors Reg. No. 11-03248 & 03860002
 6304 West Loop South, Suite 230, Dallas, TX 75249
 754-777-8897

VICTORIA M. MACALINO
 LICENSED PROFESSIONAL ENGINEER
 142304
 5/15/25

SURVEYED BY: QUIDDITY
 FB NO. 3116 PAGES 17-19

Victoria Macalino

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS

PAVEMENT MARKING & SIGNAGE DETAILS

WHITE OAK AT GREENLEAF SAFETY IMPROVEMENTS

WBS NUMBER
 N-T05000-0014-7

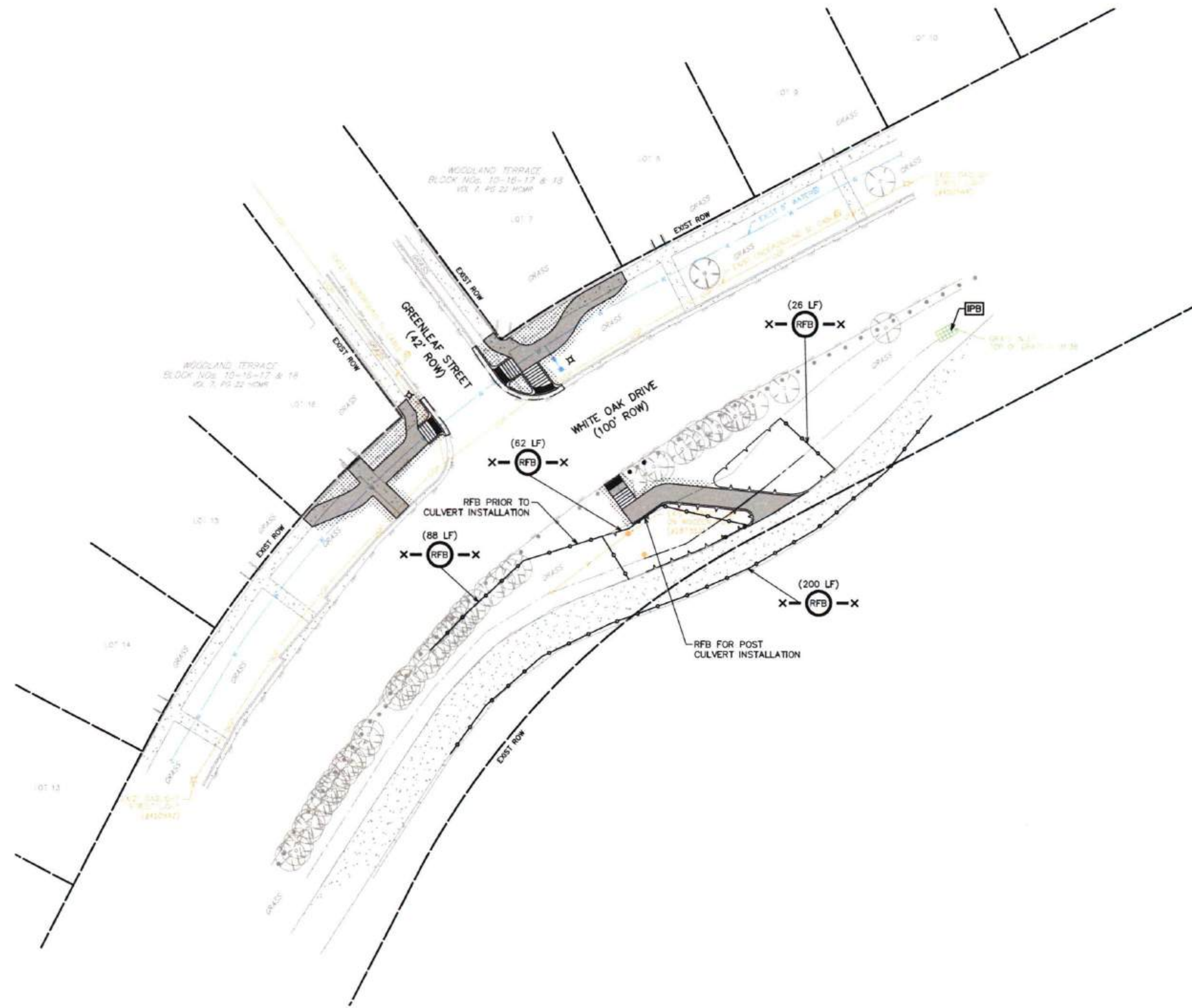
DRAWING SCALE
 AS NOTED

CITY OF HOUSTON POC
 TOMS MATHEW

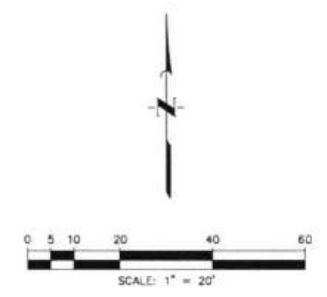
SHEET NO. 22 OF 31

80159

K:\14750\14750-0024-02 T-0541 WHITE OAK AT GREENLEAF.V2 DESIGN PHASE\CAD\PLANS\14750-0024-CI-007-SWPPP.DWG, 5/15/2025 10:08 AM



- LEGEND**
- INLET PROTECTION BARRIERS
 - REINFORCED FABRIC BARRIER
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT



NO.	DATE	REVISION	APP.

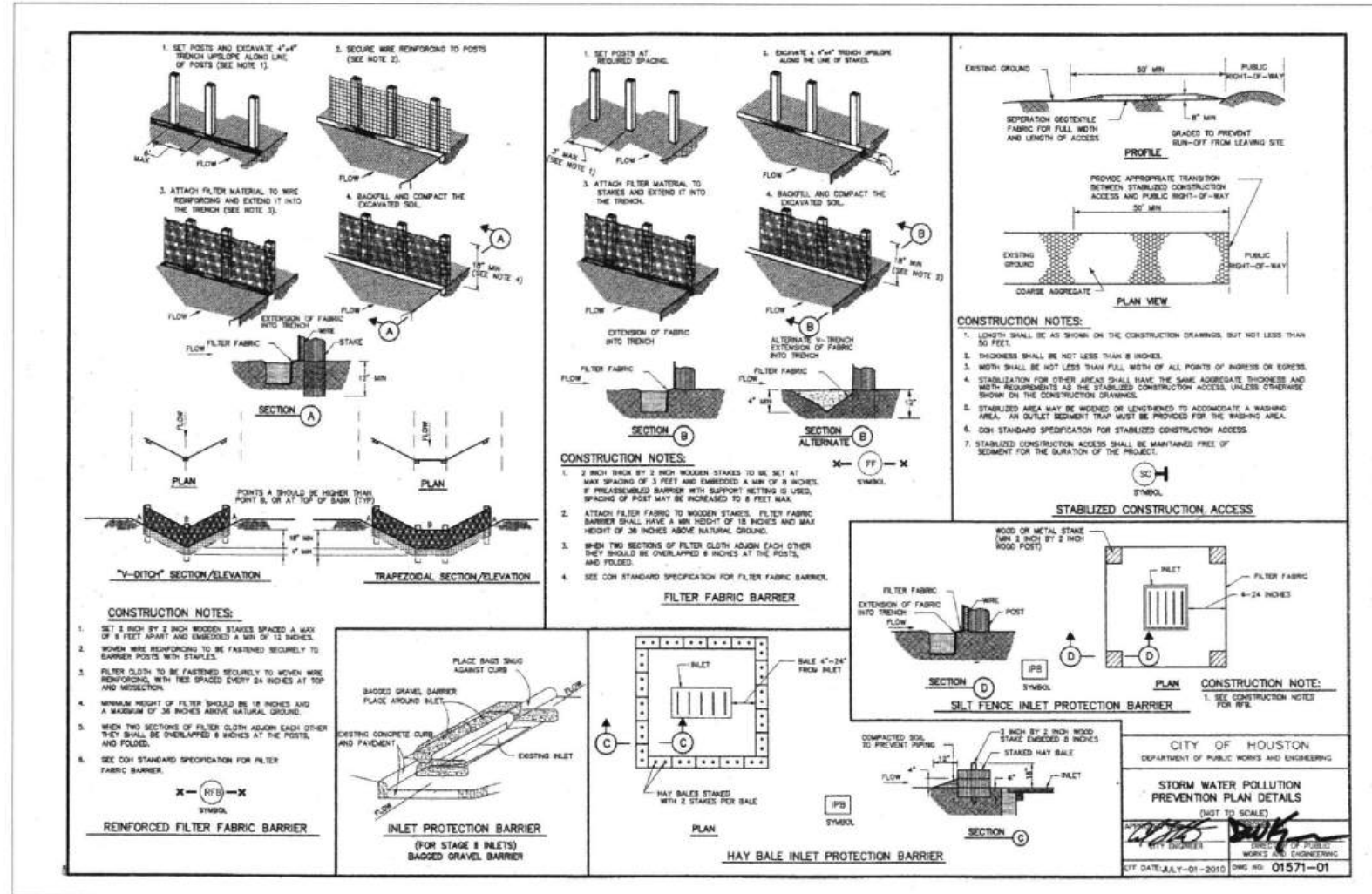
<p>1330 Post Oak Blvd., Suite 2650 Houston, Texas 77056 713-850-9000</p>	
<p>Quiddity Texas Board of Professional Engineers and Land Surveyors, Inc. No. 71208 & 108000 4500 West Loop South, Suite 100, Dallas, TX 75240 214.777.8887</p>	<p>5/27/25 <i>Victoria Macalino</i></p>
<p>SURVEYED BY: QUIDDITY FB NO. 3116 PAGES 17-19</p>	
<p>CITY OF HOUSTON HOUSTON PUBLIC WORKS</p>	
<p>STORM WATER POLLUTION PREVENTION PLAN</p>	
<p>WHITE OAK AT GREENLEAF SAFETY IMPROVEMENTS</p>	
<p>WBS NUMBER N-T05000-0014-7</p>	
<p>DRAWING SCALE AS NOTED</p>	
<p>CITY OF HOUSTON PROJECT TOMS MATHEW</p>	
<p>SHEET NO. 23 OF 31</p>	

CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST	COUNTY		
HOU	HARRIS		



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NO.	DATE	REVISION	APP.



CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST	COUNTY		
HOU	HARRIS		

1330 Post Oak Blvd., Suite 2650
Houston, Texas 77056
713-850-9000

MEMORIAL HEIGHTS REDEVELOPMENT AUTHORITY

QUIDDITY
Victor M. Macalino
5/15/25

CITY OF HOUSTON
HOUSTON PUBLIC WORKS


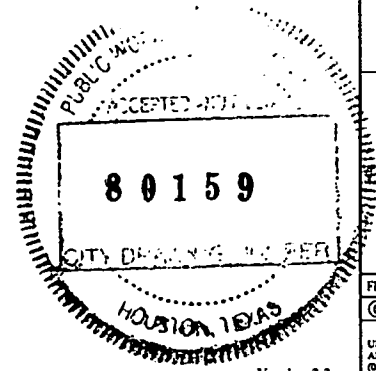

STORM WATER POLLUTION PREVENTION PLAN DETAIL

WHITE OAK AT GREENLEAF SAFETY IMPROVEMENTS

WBS NUMBER: N-T05000-0014-7
DRAWING SCALE: AS NOTED
CITY OF HOUSTON POC: TOMS MATHEW
SHEET NO. 24 OF 31

80159

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
STORM WATER POLLUTION PREVENTION PLAN DETAILS
(NOT TO SCALE)
DATE: JULY-01-2010 DWG NO: 01571-01

<p>I. STORMWATER POLLUTION PREVENTION</p> <p>Texas Pollutant Discharge Elimination System (TPDES) TXR 150000: Stormwater Discharge Permit or Construction General Permit is required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 506. Refer to the TxDOT SWP3 Summary Sheets, SWP3 Binder Template, and Form 2118.</p> <p style="text-align: center;">No Additional Comments</p>	<p>III. CULTURAL RESOURCES</p> <p>Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the area and contact the Engineer immediately.</p> <p style="text-align: center;">No Additional Comments</p>	<p>VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES</p> <p>Refer to TxDOT Standard Specifications in the event potentially contaminated materials are observed, such as dead or distressed vegetation, trash disposal areas, drums, canisters, barrels, leaching or seepage of substances, unusual smells or odors, or stained soil, cease work in the area and contact the Engineer immediately.</p> <p style="text-align: center;">No Additional Comments</p>																									
<p>II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS</p> <p>United States Army Corps of Engineers (USACE) Permit is required for filling, dredging, excavating or other work in water bodies, rivers, creeks, streams, wetlands or wet areas. The Contractor must adhere to all of the terms and general conditions associated with the following permit(s). If additional work not represented in the plans is required, contact the Engineer immediately.</p> <p><input checked="" type="checkbox"/> No United States Army Corps (USACE) Permit Required</p> <p><input type="checkbox"/> Work is authorized by the United States Army Corps of Engineers (USACE) under a Nationwide Permit (NWP) without a Pre-Construction Notification (PCN). Project specific permit was not issued by USACE, therefore is not in the plan set. The USACE general conditions are in the "General Notes."</p> <p><input type="checkbox"/> Work is authorized by the United States Army Corps of Engineers (USACE) under a Nationwide Permit (NWP) with a Pre-Construction Notification (PCN). The project specific permit issued by the United States Army Corps of Engineers (USACE) is included in the plan set. The USACE general conditions are in the "General Notes."</p> <p><input type="checkbox"/> Work is authorized by the United States Army Corps of Engineers (USACE) under a Individual Permit (IP). The project specific permit issued by the United States Army Corps of Engineers (USACE) is included in the plan set.</p> <p><input type="checkbox"/> Work would be authorized by the United States Army Corps of Engineers (USACE) permit. The project specific permit issued by the USACE will be provided to the contractor.</p> <p>United States Coast Guard (USCG) Permit is required for projects that involve the construction or modification (including changes to lighting) of a bridge or causeway across a water body determined to be navigable by the United States Coast Guard (USCG) under Section 9 of the Rivers and Harbors Act. If additional work not represented in the plans is required, contact the Engineer immediately.</p> <p><input checked="" type="checkbox"/> No United States Coast Guard (USCG) Coordination Required</p> <p><input type="checkbox"/> United States Coast Guard (USCG) Permit</p> <p><input type="checkbox"/> United States Coast Guard (USCG) Exemption</p> <p style="text-align: center;">No Additional Comments</p>	<p>IV. VEGETATION RESOURCES</p> <p>Preserve native vegetation to the extent practical. Refer to TxDOT Standard Specifications in order to comply with requirements for invasive species, beneficial landscaping and tree/brush removal.</p> <p style="text-align: center;">No Additional Comments</p>	<p>VII. OTHER ENVIRONMENTAL ISSUES</p> <p>Comments:</p>																									
	<p>V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS</p> <p>If any of the listed species below are observed, cease work in the area, do not disturb species or habitat and contact the Engineer immediately.</p> <p>The work may not remove active nests (from bridges, structures, or vegetation adjacent to the roadway, etc.) during nesting season (February 15 to October 1). If removal of structures or vegetation is necessary during the nesting season, the Contractor shall conduct a bird survey no more than 3 days in advance of the clearing/demolish start date. All bird surveys shall be conducted by a Field Biologist and adhere to the guidance document "Avoiding Migratory Birds and Handling Potential Violations" found in the TxDOT Environmental Compliance Toolkits at the time of the survey. (See below for Field Biologist and Ornithologist qualifications)</p> <p style="text-align: center;">No Additional Comments</p>	<div style="text-align: right;">  <p><i>Victoria Macalino</i></p> </div>																									
	<p><small>Field Biologist, Ornithologist – a field biologist is defined as an individual qualified to perform field investigations, presence/absence surveys and habitat surveys for protected avian species or species of concern. A mandatory bachelor's degree in biology or a related science is required. At a minimum, the Field Biologist, Ornithologist, shall have completed and reported a minimum of three presence/absence and habitat surveys for protected avian species in the past five years. A minimum of three projects must have been conducted in Texas. Surveys shall have been performed for documentation of species in accordance with a protocol approved by USFWS or TPWD, or following generally accepted methodologies.</small></p>	<div style="text-align: center;">  </div>																									
		<div style="text-align: right;">  <p>TxDOT Houston District</p> </div> <p style="text-align: center;">ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS</p> <p style="text-align: center;">EPIC</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>FILE: EPIC Sheet.dgn</td> <td>DN:</td> <td>CK:</td> <td>DTW:</td> <td>CK:</td> </tr> <tr> <td>© TxDOT: March 2017</td> <td>CONT</td> <td>SECT</td> <td>JOB</td> <td>HIGHWAY</td> </tr> <tr> <td>REVISED</td> <td>0912</td> <td>72</td> <td>757</td> <td>White Oak Dr</td> </tr> <tr> <td>UPDATED section V, w11 and added definition (10/17)</td> <td>DIST</td> <td>COUNTY</td> <td>SHEET NO.</td> <td></td> </tr> <tr> <td>ADDED USCO and USACE notes in Section VII (04/18)</td> <td>12</td> <td>Harris</td> <td>25 OF 31</td> <td></td> </tr> </table>	FILE: EPIC Sheet.dgn	DN:	CK:	DTW:	CK:	© TxDOT: March 2017	CONT	SECT	JOB	HIGHWAY	REVISED	0912	72	757	White Oak Dr	UPDATED section V, w11 and added definition (10/17)	DIST	COUNTY	SHEET NO.		ADDED USCO and USACE notes in Section VII (04/18)	12	Harris	25 OF 31	
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© TxDOT: March 2017	CONT	SECT	JOB	HIGHWAY																							
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DATE: Mar 25, 2025
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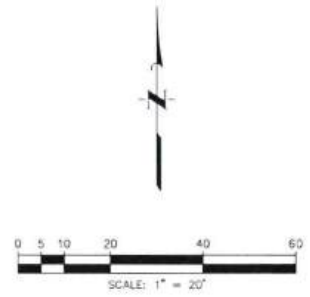
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- LEGEND**
- CONSTRUCTION PHASE 1
 - CONSTRUCTION PHASE 2
 - CONSTRUCTION PHASE 3
 - EXIST TRAFFIC DIRECTION

POSTED SPEED LIMIT 30 MPH

- NOTE**
1. AERIAL IMAGERY IS FOR REFERENCE ONLY AND MAY NOT LINE UP EXACTLY WITH FEATURES SHOWN.
 2. CONTRACTOR TO CONSTRUCT SIDEWALKS ONE CORNER AT A TIME AND ALLOW PARTIAL PEDESTRIAN ACCESS TO EXIST SIDEWALKS. NO SEPARATE PAY FOR TEMPORARY SIDEWALK.
 3. TRAFFIC CONTROL PLAN IS APPLICABLE DURING DAYTIME ONLY AS IT REQUIRES FLAG MAN. ALL TRAFFIC CONTROL MUST BE REMOVED AND HAVE THE LANES OPEN FOR TRAFFIC AT THE END OF EACH WORKING DAY.
 4. SEE COH STANDARD DETAILS ON SHEETS 27-31 FOR APPROACH SIGNING.



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QUIDDITY
Texas Board of Professional Engineers
4801 Lakeside Way, Suite 3-2500 & 3700
4300 West Loop South, Suite 200, Dallas, TX 75242
713-777-2800

VICTORIA M. MACALINO
142304
LICENSED PROFESSIONAL ENGINEER
7/8/25

SURVEYED BY: QUIDDITY
FB NO. 3116 PAGES 17-19

Victoria Macalino

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TRAFFIC CONTROL PLAN

WHITE OAK AT GREENLEAF
SAFETY IMPROVEMENTS

WBS NUMBER CITY OF HOUSTON USE ONLY

N-T05000-0014

DRAWING SCALE

AS NOTED

CITY OF HOUSTON

TOMS MATHEW

SHEET NO. 26 OF 31

80159

CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST	COUNTY		
HOU	HARRIS		

HOUSTON, TEXAS

GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) LATEST EDITION WITH REVISIONS DURING THE ENTIRE CONSTRUCTION PERIOD.
2. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM THE LATEST VERSION OF THE TMUTCD.
3. NO LANES SHALL BE CLOSED DURING THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 8:00 PM MONDAY THRU FRIDAY WITHOUT APPROVAL OF THE CITY TRAFFIC ENGINEER.
4. NO WORK SHALL BE PERFORMED IN RESIDENTIAL AREAS FROM 7:00 PM TO 7:00 AM.
5. CONTRACTOR SHALL MAINTAIN APPROVED NUMBER OF THROUGH LANES OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION WORKING HOURS. TRAFFIC CONTROL PLANS SHALL INCLUDE ONE-WAY AND/OR DETOUR PLANS. CONTRACTOR SHALL MAINTAIN ADA COMPLIANT PEDESTRIAN ACCESS TO BUS STOPS AND ADEQUATE BUS ACCESS TO ALL THE BUS STOPS.
6. CONTRACTOR SHALL MAINTAIN TRAFFIC LANES AND DETOURS ACCORDING TO TRAFFIC CONTROL PLANS DURING WORKING HOURS.
7. CONTRACTOR SHALL COVER OPEN PAVEMENT EXCAVATIONS FOR MINOR UTILITY WORK WITH ANCHORED STEEL PLATES DURING NON-WORKING HOURS, AND OPEN LANES FOR NORMAL TRAFFIC FLOW WHEN FEASIBLE.
8. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS" DURING THE CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT AN ALTERNATE SET OF TRAFFIC CONTROL PLANS TO THE CITY OF HOUSTON PROJECT MANAGER FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION. THESE PLANS SHALL BE DRAWN TO SCALE ON REPRODUCIBLE MYLARS AND SHALL BE SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. OFFICE OF CITY ENGINEER, MOBILITY PERMITS SECTION REPRESENTATIVE APPROVAL IS REQUIRED TO ACCEPT THE PROPOSED CHANGES.
9. CONTRACTOR SHALL SECURE LANE/SIDEWALK/BICYCLE FACILITY CLOSURE PERMITS FROM OFFICE OF CITY ENGINEER (MOBILITY PERMIT SECTION AT <https://gehuh.houston.tx.gov>) BEFORE IMPLEMENTING THE TRAFFIC CONTROL PLAN. THE APPLICATION MUST BE SUBMITTED AT LEAST TEN DAYS PRIOR TO THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN AND/OR BEGINNING CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS, CONSTRUCTION SEQUENCING, AND CONSTRUCTION SCHEDULE WITH THE APPLICATION.
10. CONTRACTOR SHALL HAVE APPROVED TRAFFIC CONTROL PLAN AND PERMIT AT THE JOB SITE FOR INSPECTION AT ALL TIMES.
11. DURING PAVEMENT SURFACE RESTORATION PROJECTS; THE CONTRACTOR SHALL NOT OPEN CLOSED LANES UNTIL THE PAVEMENT SURFACE HAS CURED ENOUGH TO ALLOW VEHICULAR TRAFFIC ACCORDING TO CITY OF HOUSTON STANDARD SPECIFICATIONS.
12. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL CONSTRUCTION ACTIVITIES WITH STAKE HOLDERS IN THE VICINITY INCLUDING EMERGENCY RESPONSE AGENCIES SUCH AS HOUSTON POLICE DEPARTMENT, HOUSTON FIRE DEPARTMENT, AND METROPOLITAN TRANSIT AUTHORITY.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ISSUING ALL WORK DIRECTIVES TO ALL SUB-CONTRACTORS, UTILITY COMPANIES, AND ALL OTHER ENTITIES PERFORMING CONSTRUCTION WORK ASSOCIATED WITH THE PROJECT.
14. NOTHING IN THESE NOTES OR PLANS SHALL RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT; INCLUDING SAFETY OF ALL MODES OF TRANSPORTATION, PERSONS, AND PROPERTY, AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS.
15. THE OFFICE OF CITY ENGINEER (MOBILITY PERMITS GROUP) PER THE DIRECTION OF THE CITY TRAFFIC ENGINEER HAVE THE RIGHT TO DEMAND THE INSTALLATION OF ADDITIONAL TRAFFIC CONTROL DEVICES OR MODIFICATIONS OF THESE PLANS AND NOTES, AS DEEMED NECESSARY TO PROMOTE THE SAFE AND ORDERLY FLOW OF TRAFFIC, INCLUDING PEDESTRIANS AND BICYCLES, THROUGH THE CONSTRUCTION WORK ZONE. THE CONTRACTOR SHALL COMPLY WITH THESE ADDITIONAL REQUESTS OR MODIFICATIONS WITH DUE DILIGENCE.
16. ALL EXISTING TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE MAINTAINED IN VISIBLE LOCATIONS DURING CONSTRUCTION UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM CITY OF HOUSTON PROJECT MANAGER. THE CONTRACTOR SHALL RESTORE OR REPLACE (AT THE DISCRETION OF THE CITY TRAFFIC ENGINEER) ANY PAVEMENT MARKING OR SIGNING DAMAGE DURING CONSTRUCTION OPERATIONS, INCLUDING RAISED PAVEMENT MARKERS (RPMs).
17. WHEN ENTERING OR LEAVING ROADWAYS CARRYING PUBLIC TRAFFIC, THE CONTRACTOR'S EQUIPMENT, WHETHER EMPTY OR LOADED SHALL IN ALL CASES YIELD TO PUBLIC TRAFFIC WITH THE ASSISTANCE OF CONTRACTOR PROVIDED CERTIFIED FLAGGER/PEACE OFFICER.
18. ACCESS TO DRIVEWAYS ADJACENT TO THE CONSTRUCTION WORK ZONE SHALL BE MAINTAINED AT ALL TIMES AS MUCH AS POSSIBLE. ADDITIONAL CONES AND/OR DELINEATORS MAY BE REQUIRED TO DELINEATE THE DRIVEWAY ACCESS ROUTE THROUGH THE CONSTRUCTION WORK ZONE. A MINIMUM OF ONE TRAVEL LANE SHALL BE MAINTAINED ACROSS THE DRIVEWAYS, UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM CITY OF HOUSTON PROJECT MANAGER.
19. SPILLAGE RESULTING FROM HAULING OPERATIONS ALONG OR ACROSS ANY PUBLIC TRAVELED WAY SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
20. THE CONTRACTOR SHALL SUBMIT AN APPLICATION FOR TEMPORARY PARKING RESTRICTIONS IF THERE ARE PARKING METERS LOCATED AT THE PROPOSED LANE CLOSURES FROM PARKING MANAGEMENT DIVISION (832-393-8690) AT LEAST TEN BUSINESS DAYS BEFORE IMPLEMENTATION OF LANE CLOSURES. IN ADDITION, TEMPORARY NO PARKING SIGNS SHALL BE POSTED 24 HOURS PRIOR TO COMMENCEMENT OF WORK.
21. ADDITIONAL OFF DUTY OFFICERS/FLAGGERS MAY BE REQUESTED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED AT THE DISCRETION OF THE CITY PROJECT MANAGER EVEN IF THEY ARE NOT SPECIFICALLY IDENTIFIED ON THE PROJECT PLANS.
22. THE CONTRACTOR SHALL REPLACE WITHIN 72 HOURS, ALL TRAFFIC SIGNAL LOOP DETECTORS DAMAGED DURING CONSTRUCTION.
23. IN GENERAL, A SOLAR POWERED FLASHING ARROW BOARD SHALL BE REQUIRED ON ALL MAJOR THROUGHFARE LANES CLOSURES. EXCEPTIONS TO FLASHING ARROW BOARDS AND/OR IMPLEMENTATION ON RESIDENTIAL LANE CLOSURES SHALL BE APPROVED BY CITY TRAFFIC ENGINEER.
24. APPROVED TRAFFIC CONTROL PLAN SHALL BE IN PLACE BEFORE STARTING ANY EXCAVATION.
25. WATER FILLED BARRIERS CAN BE USED AS INSTRUCTED BY THE ENGINEER AND APPROVED BY THE CITY FOR PROJECTS WHERE SPACE IS LIMITED AND HEAVY EQUIPMENT TO PLACE CONCRETE BARRIERS IS NOT FEASIBLE. WATER FILLED BARRIERS SHALL NOT BE USED ON ROADWAYS WITH A POSTED SPEED LIMIT MORE THAN 45 MPH.
26. WATER FILLED BARRIERS MUST BE INSTALLED AND MAINTAINED PER THE MANUFACTURER'S REQUIREMENTS AND ROUTINELY INSPECTED FOR DEFECTS.
27. IF WATER FILLED BARRIER IS PROVIDED, USE ENVIRONMENTALLY SAFE ANTI-FREEZING AGENT IN THE WATER WHEN IT IS APPLICABLE PER MANUFACTURER SPECIFICATIONS AND RECOVER AGENT WHEN THE BARRIER IS DRAINED.

28. DISPOSE OF WATER AND AGENT PROPERLY. DO NOT DRAIN WATER FILLED BARRIER INTO OR ACROSS AN EXISTING TRAVEL LANE.
29. PROVIDE BARRIER UNITS THAT ARE CAPABLE OF BEING LIFTED AND MOVED WHEN FILLED IF DRAINING IS NOT POSSIBLE.
30. PROVIDE WATER FILLED BARRIER THAT ACTS AS ITS OWN FREE STANDING, NON-REDIRECTIVE END TREATMENT.
31. WHEN WATER FILLED BARRIERS ARE USED TO CHANNELIZE PEDESTRIANS, THEY MUST HAVE A CONTINUOUS DETECTABLE BOTTOM FOR USERS OF LONG CANES AND THE TOP OF THE UNIT SHALL NOT BE LESS THAN 32 INCHES IN HEIGHT.
32. ANY CLOSURE OF A PEDESTRIAN OR BICYCLE FACILITY SHALL REQUIRE THE SHORTEST DETOUR THAT MAINTAINS THE SAFETY OF PEDESTRIAN AND/OR BICYCLISTS.

SPACING FOR CHANNELIZING DEVICES

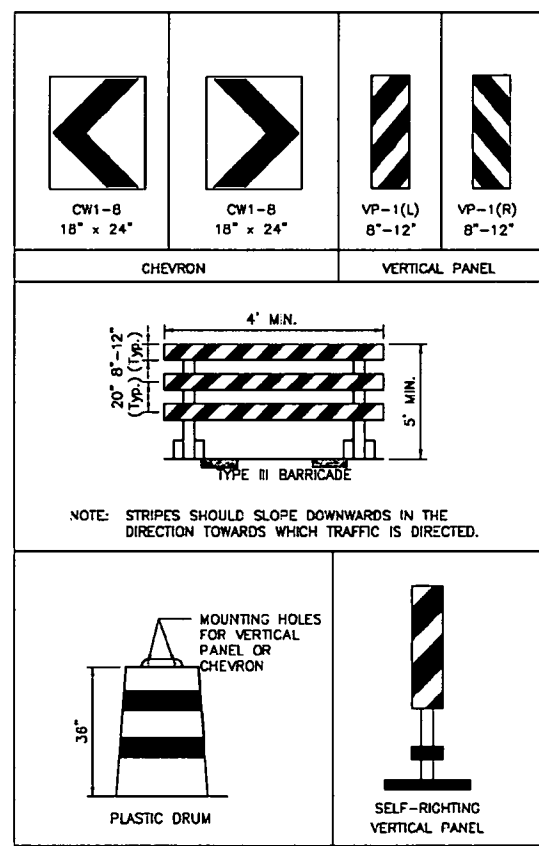
- A. PLASTIC DRUMS ON MERGING TAPER @ 30' C - C WITH CHEVRON SIGN @ 60' C - C AND WARNING LIGHTS FOR OVERNIGHT CLOSURE.
- B. PLASTIC DRUMS ON DOWNSTREAM TAPER @ 30' C - C (RETURN TAPER AND BARRICADE ARE OPTIONAL AND DIVIDED ROADWAY SECTION)
- C. PLASTIC DRUMS ON RADII @ 35' C - C.
- D. PLASTIC DRUMS ON TANGENT @ 35' C - C WITH VERTICAL PANEL AT 70' C - C AND APPROVED WARNING LIGHT @ 70' C - C (FOR OVERNIGHT CLOSURE).
- E. PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE @ 20' C - C WITH VERTICAL PANEL AT 40' C - C AND APPROVED WARNING LIGHT @ 40' C - C (FOR OVERNIGHT CLOSURE).
- F. CONCRETE TRAFFIC BARRIER (CTB) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) WITH APPROVED REFLECTORS @ 10' C - C IF PAVEMENT DROP IS GREATER THAN 1 FOOT.
- G. PLASTIC DRUMS W/GUARD RAIL MOUNTED.
- H. SELF-RIGHTING VERTICAL PANEL SPACING.
 - 4 LANES TO 2 LANES UNDIVIDED ROADWAY SECTION @ 20' C - C.
 - 4 LANES DIVIDED ROADWAY TO ONE SIDE TWO WAY ROADWAY @ 20' C - C.
 - LEFT LANE AND RIGHT LANE STORAGE BAYS @ 15' C - C.
- I. SPACING SHOWN ON TRAFFIC CONTROL SHALL SUPERSEDE THE ABOVE SPACING.
- J. SPACING MAY BE ADJUSTED TO PROVIDE DRIVEWAYS, INTERSECTIONS AND /OR MEDIAN OPENINGS.

TABLE C3 - TYPICAL SIGN SPACING, TAPER LENGTHS, AND SUGGESTED SPACING OF CHANNELIZATION DEVICES

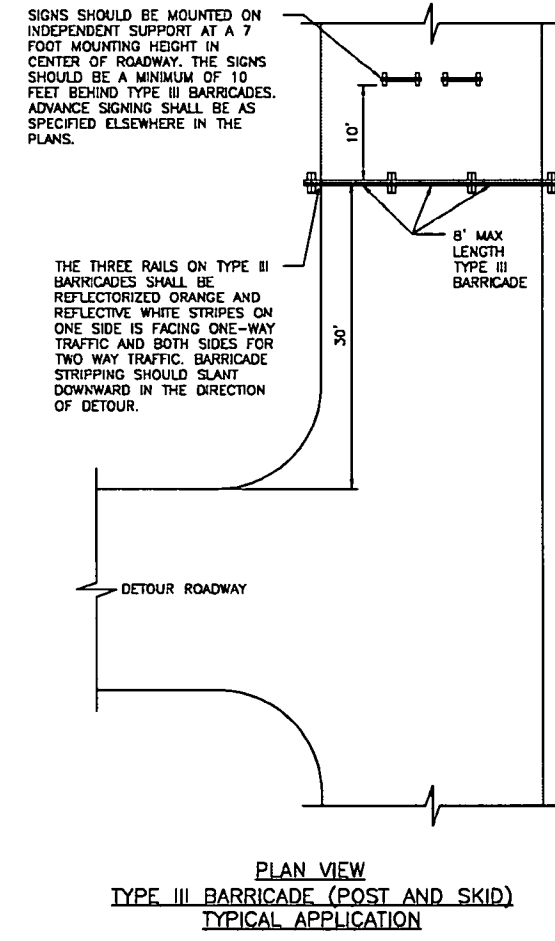
POSTED SPEED (MPH)	SIGN SPACING "X" (FEET)	MIN. DESIRABLE TAPER LENGTH "L"			SUGGESTED MAXIMUM SPACING OF DEVICE	
		10' OFFSET	11' OFFSET	12' OFFSET	ON A TAPER	ON A TANGENT
30	120'	150'	165'	180'	30'	60'-75'
35	160'	205'	225'	245'	35'	70'-90'
40	240'	265'	295'	320'	40'	80'-100'
45	320'	450'	495'	540'	45'	90'-110'
50	400'	500'	550'	600'	50'	100'-125'
55	500'	550'	605'	660'	55'	110'-140'

TABLE C4 - STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

POSTED SPEED (MPH)	DISTANCE "D" (FEET)
30	200
35	250
40	305
45	360
50	425
55	495



CHANNELIZATION AND BARRICADES



LEGEND:

- SGN
- FLAGGER
- APPROVED CHANNELIZATION DEVICE
- BARRICADE
- FLASHING ARROW PANEL
- AREA UNDER CONSTRUCTION
- EXISTING TRAVEL WAY
- TRAFFIC CONTROL PLAN DETOUR TRAVEL WAY

BASED ON 1760-0024-02 1-0541 WHITE OAK AT GREENLEAF 2 DESIGN PHASE CAD PLANS 11760-0024-01-005-DETAILS.DWG, 5/15/2025 10:00 AM
 THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN ENGINEERING PRACTICE ACT, THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THE USE OF THIS STANDARD. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

1980 Post Oak Blvd., Suite 1380
Houston, Texas 77056
713-850-9000

APPROVED BY:
 Submitted by: *Suhail Samavar*
 CITY ENGINEER
 Approved by: *WANG MAUJEN*
 CITY TRAFFIC ENGINEER

APPROVED BY:
 Submitted by: *Carl Haddock*
 DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV-27-2023 DWG NO: 01555-01

QUIDDITY
 State of Texas
 License No. 142304
 SURVEYED BY: QUIDDITY
 FB NO. 3118 PAGES 17-19
 Signature: *Victoria M. Macalino*

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS STANDARD

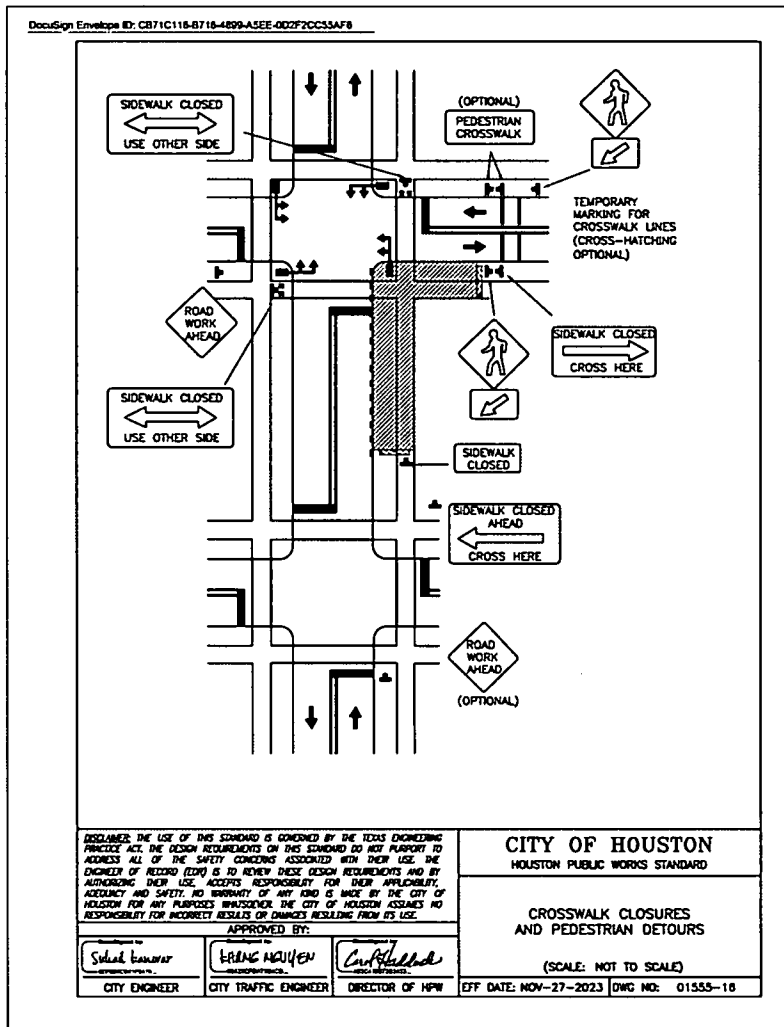
TCP NOTES CHANNELIZING DEVICES AND BARRICADES

WBS NUMBER: N-705000-0014-7
 DRAWING SCALE: NOT TO SCALE
 CITY OF HOUSTON POC: TOMS MATHEW
 SHEET NO. 27 OF 31

80159

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NO.	DATE	REVISION	APP.



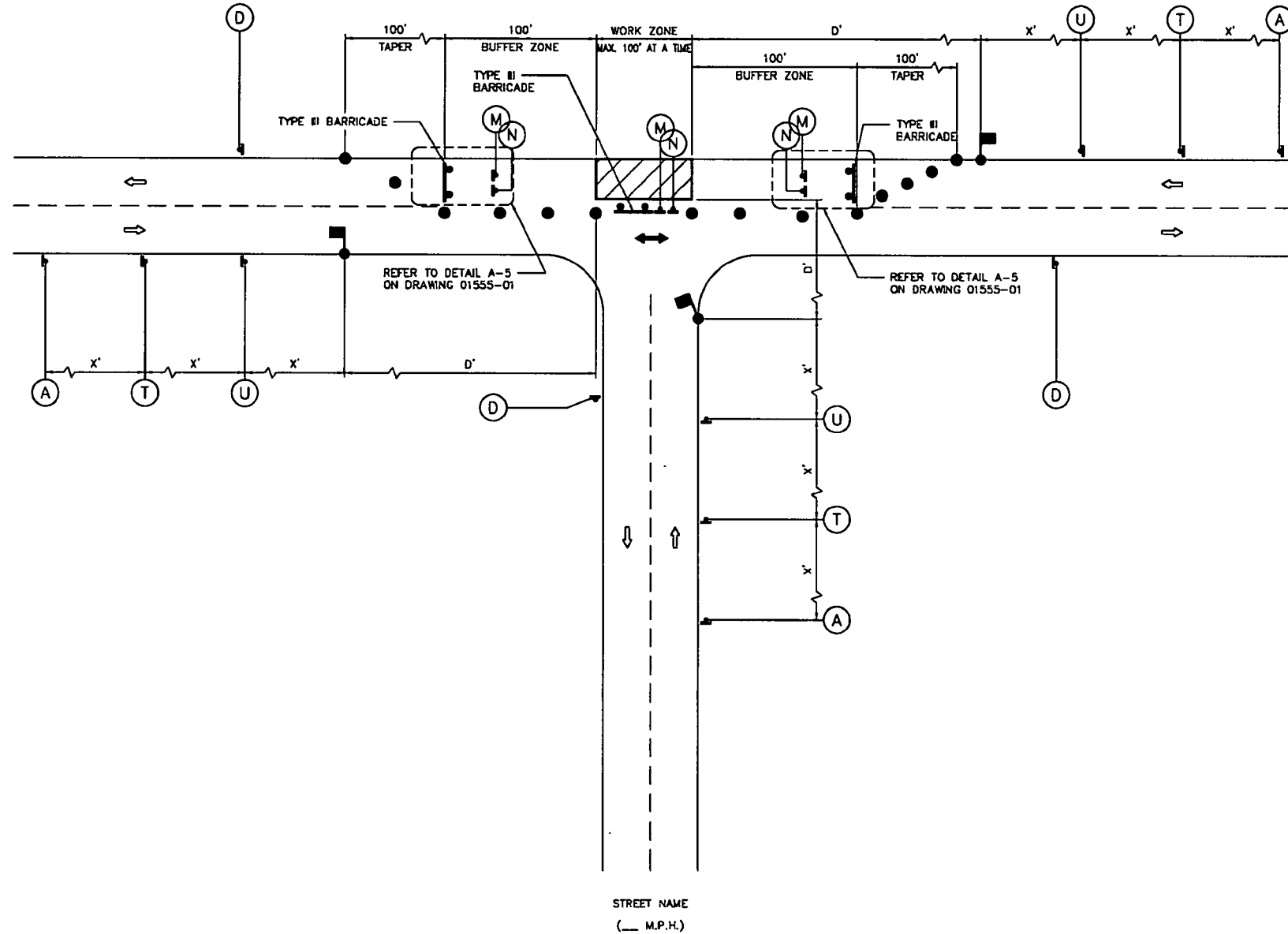
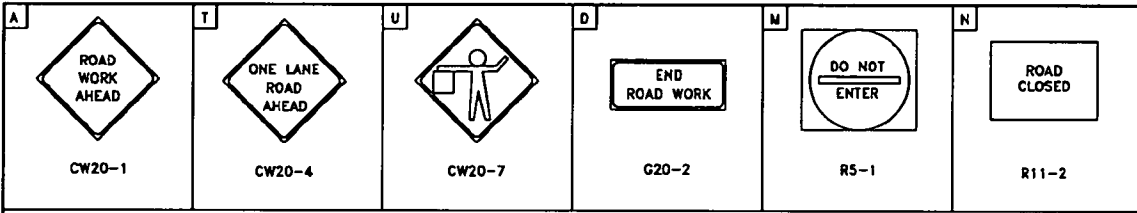
1330 Post Oak Blvd., Suite 2650 Houston, Texas 77056 713-850-9000	
QUIDDITY <small>State Board of Professional Engineers and Land Surveyors, Reg. No. P-25704 & 26842380 4226 West Loop South, Suite 200, Houston, TX 77027 713-771-8927</small>	5/15/25 <i>Victoria Macalino</i>
SURVEYED BY: QUIDDITY FB NO. 3118 PAGES 17-19	
CITY OF HOUSTON HOUSTON PUBLIC WORKS	
TCP DETAIL	
WHITE OAK AT GREENLEAF SAFETY IMPROVEMENTS	
WBS NUMBER N-T05000-0014-7	
DRAWING SCALE AS NOTED	
CITY OF HOUSTON POC TOMS MATHEW	
SHEET NO. 28 OF 31	

80159

HOUSTON, TEXAS









CONT	SECT	JOB	HIGHWAY
0912	72	754, etc.	VARIOUS
DIST	COUNTY		
HOU	HARRIS		

DESIGN: 07/10-0024-02 1-0541 WHITE OAK AT GREENLEAF 2 DESIGN PHASE: GAD/PLANS/114760-0024-01-003-DETAILS.DWG. 5/15/2023 10:00 AM
 THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.




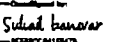
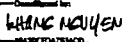



STREET NAME
(___ M.P.H.)

LEGEND:

-  SIGN
-  FLAGGER
-  APPROVED CHANNELIZATION DEVICE
-  BARRICADE
-  FLASHING ARROW PANEL
-  AREA UNDER CONSTRUCTION
-  EXISTING TRAVEL WAY
-  TRAFFIC CONTROL PLAN DETOUR TRAVEL WAY

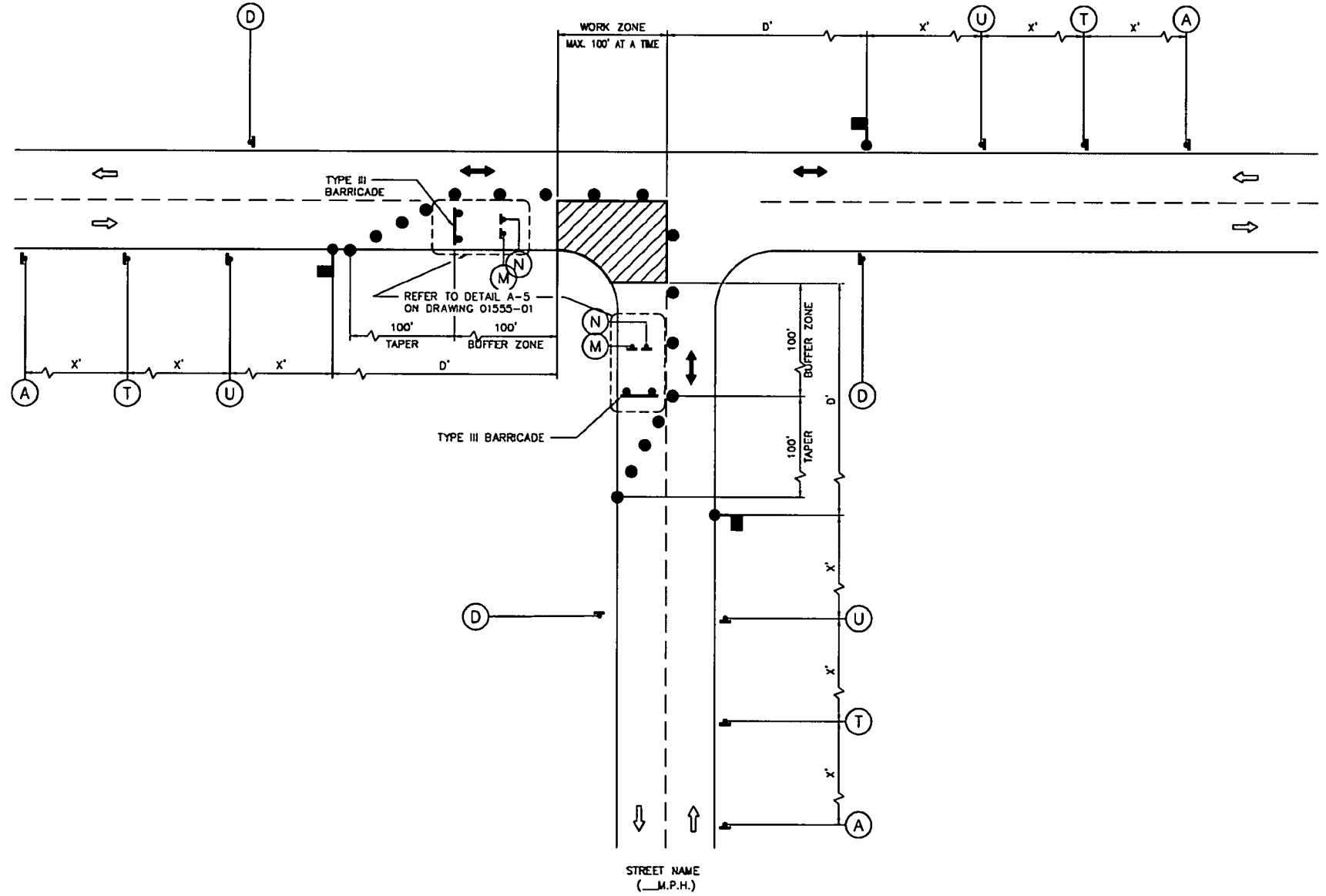
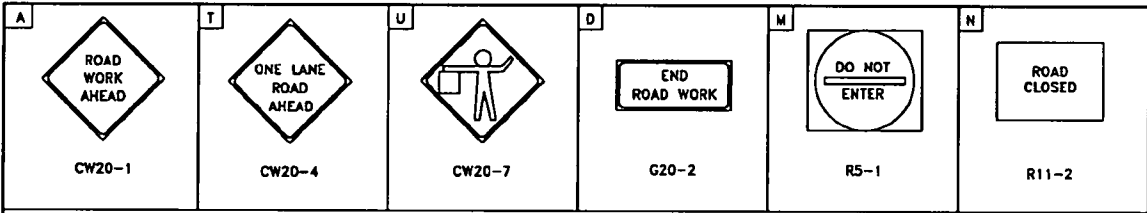
NOTES:

1. MINOR WORK AND DAYTIME OPERATIONS ONLY.
2. REFER TO PROJECT SPECIFIC TRAFFIC CONTROL PLANS FOR MAJOR OPERATIONS AND OVERNIGHT LANE CLOSURES.
3. FOR DIMENSIONS REFER TO SHEET 01555-01.
4. INSTALL FLASHERS ON DRUMS WHERE REQUIRED AND APPROVED BY CITY TRAFFIC ENGINEER.
5. MAX. 100' WORK ZONE AT A TIME.

 1980 Post Oak Blvd., Suite 1380 Houston, Texas 77056 713-850-9000	
APPROVED BY:  CITY ENGINEER	APPROVED BY:  CITY TRAFFIC ENGINEER
APPROVED BY:  DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01555-08
 Quiddity State Board of Professional Engineers and Land Surveyors, Reg. No. 42238 & 42898 4200 West Loop South, Suite 120, Houston, TX 77060 TEL 777.8227	 VICTORIA M. MACALINO 142304 LICENSED 5/15/25 Victoria Macalino
SURVEYED BY: QUIDDITY FB NO. 3116 PAGES 17-19	
CITY OF HOUSTON HOUSTON PUBLIC WORKS STANDARD	
TCP TYPICAL CONSTRUCTION ZONE AT A T-INTERSECTION PHASE 1 OF 3	
WBS NUMBER N-T05000-0014-7	
DRAWING SCALE: NOT TO SCALE	
CITY OF HOUSTON PROJECT NO: TOMS MATHEW	
SHEET NO. 29 OF 31	

80159

B:\502\05780-0024-02 1-0541 WHITE OAK AT GREENLEAF\2 DESIGN PHASE\GAD\PLANS\1780-0024-01-005-DETAILS.DWG, 5/15/2025 10:00 AM
 THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

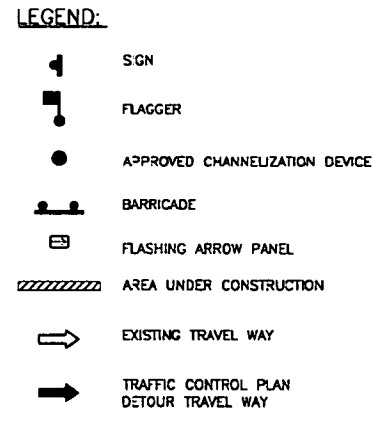
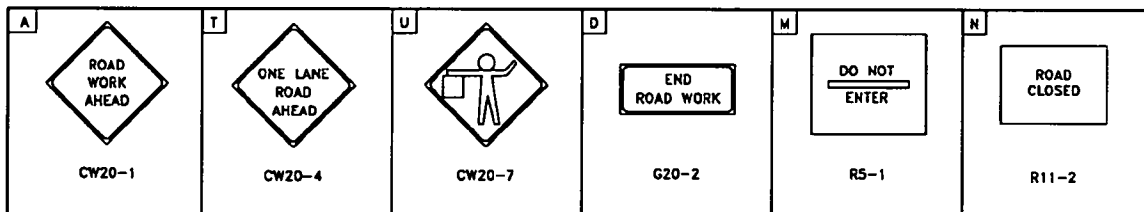


- LEGEND:**
- SGN
 - FLAGGER
 - APPROVED CHANNELIZATION DEVICE
 - BARRICADE
 - FLASHING ARROW PANEL
 - AREA UNDER CONSTRUCTION
 - EXISTING TRAVEL WAY
 - TRAFFIC CONTROL PLAN DETOUR TRAVEL WAY

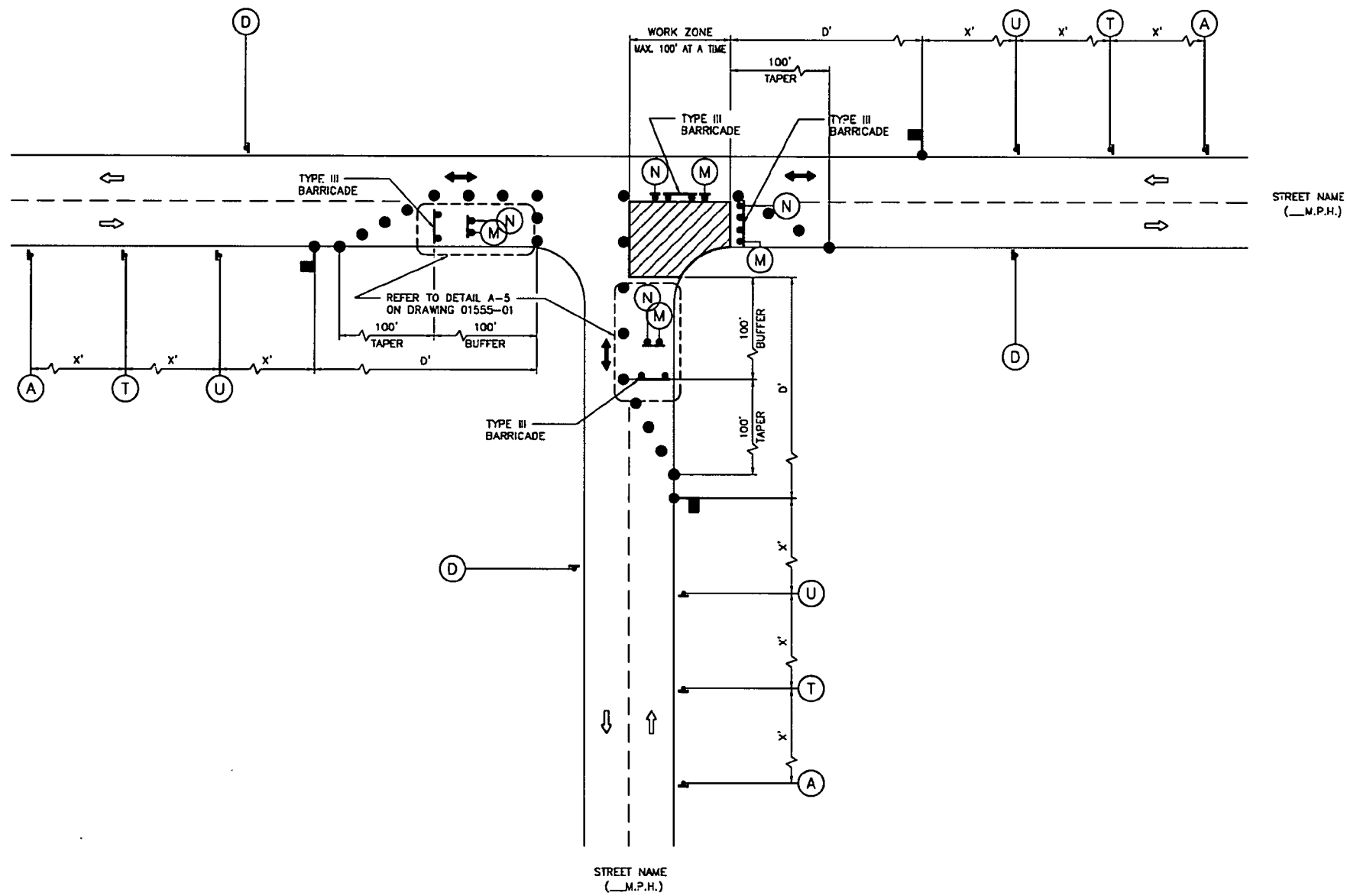
- NOTES:**
1. MINOR WORK AND DAYTIME OPERATIONS ONLY.
 2. REFER TO PROJECT SPECIFIC TRAFFIC CONTROL PLANS FOR MAJOR OPERATIONS AND OVERNIGHT LANE CLOSURES.
 3. FOR DIMENSIONS REFER TO SHEET 01555-01.
 4. INSTALL FLASHERS ON DRUMS WHERE REQUIRED AND APPROVED BY CITY TRAFFIC ENGINEER.
 5. MAX. 100' WORK ZONE AT A TIME.

1980 Post Oak Blvd., Suite 1380 Houston, Texas 77056 713-850-9000	
APPROVED BY: CITY ENGINEER	APPROVED BY: CITY TRAFFIC ENGINEER
APPROVED BY: DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01555-07
QUIDDITY <small>State Board of Professional Engineers and Land Surveyors Reg. No. 142304 & 148942 4200 West Loop South, Ste. 100, Houston, TX 77060 TEL 771.8827</small>	5/15/25 Victoria Macalino
CITY OF HOUSTON HOUSTON PUBLIC WORKS STANDARD	
TCP TYPICAL CONSTRUCTION ZONE AT A T-INTERSECTION PHASE 2 OF 3	
WBS NUMBER: N-T05000-001	80159
DRAWING SCALE: NOT TO SCALE	
CITY OF HOUSTON EDC	
TOMS MATHEW	
SHEET NO. 30 OF 31	

DATE: 05/15/2023 10:00 AM
 T-0341 WHITE OAK AT GREENLEAF 2 DESIGN PHASE (CAD) PLANS \1700-0024-CI-005-DETAILS.DWG, 5/15/2023 10:00 AM
 THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



- NOTES:**
- MINOR WORK AND DAYTIME OPERATIONS ONLY.
 - REFER TO PROJECT SPECIFIC TRAFFIC CONTROL PLANS FOR MAJOR OPERATIONS AND OVERNIGHT LANE CLOSURES.
 - FOR DIMENSIONS REFER TO SHEET 01555-01.
 - INSTALL FLASHERS ON DRUMS WHERE REQUIRED AND APPROVED BY CITY TRAFFIC ENGINEER.
 - MAX. 100' WORK ZONE AT A TIME.



1980 Post Oak Blvd., Suite 1380 Houston, Texas 77056 713-850-9000 MEMORIAL HEIGHTS REDEVELOPMENT AUTHORITY	
APPROVED BY: Subodh Banerjee CITY ENGINEER	APPROVED BY: Vikram Mathew CITY TRAFFIC ENGINEER
APPROVED BY: Carl Hubbard DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01555-08
QUIDDITY Texas Board of Professional Engineers and Land Surveyors, Reg. No. 142304 & 142304 620 West Loop South, Suite 120, Houston, TX 77007 TEL: 773.5327	VICTORIA M. MACALINO 142304 LICENSED 5/15/25 Victoria Macalino
SURVEYED BY: QUIDDITY FB NO. 3118 PAGES 17-19	
CITY OF HOUSTON HOUSTON PUBLIC WORKS STANDARD	
TCP TYPICAL CONSTRUCTION ZONE AT A T-INTERSECTION PHASE OF 3	
WBS NUMBER	N-T05000-0014-7
DRAWING SCALE	NOT TO SCALE
CITY OF HOUSTON POSITION	TOMS MATHEW
SHEET NO.	31 OF 31

