



City of Austin

AUSTIN WATER

Collection System Engineering Division

2600 Webberville Road, Suite 200, Austin, TX 78702

Date: October 03, 2016

PROJECT: **Wastewater Line Renewal and Spot Repair Service Contract (2017 to 2019)**

CIP ID#: **2231.275**

IFB#: **6100 CLMC619**

SUBJECT: **Sample Work Order**

The following Sample Work Order is presented for information purposes only. This Sample Work Order does not modify the Bid Documents. Any modifications to the Bid Documents will be through an Addendum.

The Works presented in this Sample Work Order were completed under the last contract for Wastewater Line Relay and Spot Repair.

The Works presented include:

1. City of Austin - General Permit Program sample
2. City of Austin - Small Project Exemption Notification sample

Similar, but not identical information will be provided for projects under this Contract.

City of Austin
General Permit Program



City of Austin
P.O. Box 1088, Austin, Texas 78767 - One Texas Center - 505 Barton Springs Road

CITY OF AUSTIN
GENERAL PERMIT PROGRAM

Permit No.: GP-2015-0264.AWU **Expiration Date:** 04/25/2019
Project Name (or description): AWU-Wastewater Renewal Program Chalmers at 6th Alley-UCC-150820-02-01
Address or Location Description: 600-615 CHALMERS AVE
Watershed: Town Lake
Watershed Classification:
Owner of Property: Greg Kirton, P.E. City of Austin Water Utility
Address: 2600 WEBBERVILLE RD AUSTIN TX 78702
Owner's Representative:
Address:

DEVELOPMENT PERMIT IS HEREBY ISSUED FOR:

Construct Water and Wastewater Mains, services, and associated restoration

CONDITIONS OF PERMIT

It is agreed that the proposed development shall be performed and completed in accordance with the plans and specifications approved by the City of Austin Standard Specifications and Code requirements, and State of Texas construction safety statutes. All development approved by this permit is subject to the inspection and control of the City of Austin.

It is the responsibility of the permit holder to identify all utilities in the work area and to notify each utility of the scope of work in the immediate area of the utilities.

SPECIAL CONDITIONS:



Signature of Applicant

For *AW-Collection Sys* *4.26.16*

Owner Date



Permit Approved by City of Austin-GPP

04/25/2016

Date

CITY OF AUSTIN, TEXAS AUSTIN WATER UTILITY



WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ) CHALMERS AVE. & 6TH STREET ALLEY

SUB PROJECT ID: 2231.249

AW PROJECT ID NO. *S-2016-0048*

NOTES:

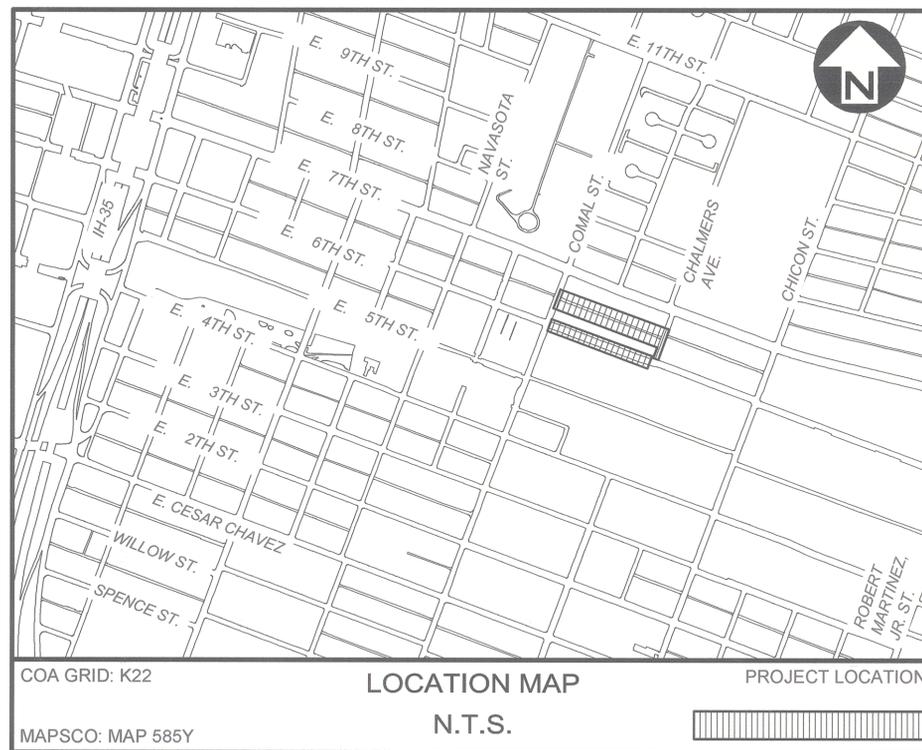
- CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT 24 HOURS PRIOR TO STARTING CONSTRUCTION OR CLEARING OPERATIONS.
- CONTRACTOR SHALL CALL "ONE CALL" AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET RIGHT OF WAYS.
- THIS PROJECT IS LOCATED WITHIN THE LADY BIRD LAKE WATERSHED (CLASSIFIED AS URBAN AND SHALL BE DEVELOPED, CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 25 OF THE CODE OF THE CITY OF AUSTIN.
- NO PORTION OF THIS SITE IS LOCATED WITHIN PARKLAND OR LAND USED FOR PARK PURPOSES. (IF SUCH LAND IS INCLUDED, DOCUMENTATION OF PARKS AND RECREATION DEPT APPROVAL IS REQUIRED AT THE TIME OF SUBMITTAL FOR GENERAL PERMIT PROGRAM APPROVAL.)
- NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN, PER CITY OF AUSTIN AND FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S) NO. 48453C0605H, DATED SEPTEMBER 26, 2008.
- THIS PROJECT IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS DEFINED BY THE CITY OF AUSTIN. THIS PROJECT IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ).
- THERE ARE NO CRITICAL ENVIRONMENTAL FEATURES WITHIN 150' OF ANY PORTION OF THIS PROJECT. A FIELD INVESTIGATION HAS NOT BEEN PERFORMED AS A PART OF THIS PROJECT AND IS NOT REQUIRED.
- THE STANDARD SHEETS INCLUDED IN THIS PLAN SET WERE PROVIDED BY THE GENERAL PERMIT PROGRAM OFFICE FOR USE ON GENERAL PERMIT PROJECTS ONLY. IF ANY MODIFICATIONS TO THE SHEETS WERE MADE, THEY ARE CLEARLY INDICATED ON THE SHEET ITSELF AND IN THE COVER SHEET INDEX.
- ADDITIONAL TRENCH E/S CONTROL: TRIANGULAR SEDIMENT FILTER DIKE WILL BE INSTALLED ACROSS FULL WIDTH OF TRAFFIC CLOSURE AND DOWNSTREAM OF CONSTRUCTION AREA, PERPENDICULAR TO CURB. FILTER DIKE TO FOLLOW ACTIVE CONSTRUCTION. REMOVING AND RE-SETTING FILTER DIKE IS CONSIDERED SUBSIDIARY TO BARRICADES AND TRAFFIC HANDLING.
- PROJECT SCHEDULE MUST BE APPROVED BY THE GENERAL PERMIT PROGRAM (GPP) COORDINATOR. INSTALLATION AND REMOVAL OF TEMPORARY AND PERMANENT EROSION/SEDIMENTATION CONTROLS MUST BE REFLECTED IN THE SCHEDULE, BY STATION NUMBER. GPP INSPECTOR MUST BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.
- APPROPRIATE EASEMENTS/APPROVALS MUST BE SECURED AND DOCUMENTED FOR PROJECT AREAS LOCATED OUTSIDE OF RIGHT OF WAYS. NO WORK SHALL BE PERFORMED WITHIN THESE AREAS UNTIL ASSOCIATED RIGHT OF ENTRY HAS BEEN SECURED. ADDITIONALLY, THIS PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL ALL RECORDED EASEMENT DOCUMENT NUMBERS HAVE BEEN OBTAINED AND SHOWN ON PLANS.
- CONTRACTOR SHALL STAKE ALL PROPOSED SERVICE CONNECTIONS LOCATED WITHIN THE CRITICAL ROOT ZONE OF TREES 8" IN CALIPER AND LARGER AT LEAST 21 CALENDAR DAYS PRIOR TO CONSTRUCTION OF SUCH SERVICES. STAKING SHALL CONSIST OF A LATH WITH NAIL AND PAINT MARKINGS. IN CASES WHERE A STAKE CANNOT BE PLACED WITHOUT DAMAGING PROPERTY, CONTRACTOR MAY USE PAINT ONLY. ONCE STAKING IS COMPLETED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE CITY OF AUSTIN'S CONSTRUCTION INSPECTOR WITHIN TWENTY-FOUR HOURS. THE CITY OF AUSTIN'S CONSTRUCTION INSPECTOR WILL THEN COORDINATE A FIELD REVIEW OF THE SERVICE LOCATIONS WITH THE GENERAL PERMIT PROGRAM COORDINATOR AND PROPERTY OWNERS. SERVICE LINE LOCATIONS MAY BE ADJUSTED BASED ON THE REVIEW AND WILL BE RESTAKED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL SERVICE LINE STAKING SHALL BE MAINTAINED UNTIL THE SERVICE IS INSTALLED.

NOTES:
GENERAL PERMIT PROGRAM APPROVAL DOES NOT CONSTITUTE UTILITY ALIGNMENT/ASSIGNMENT APPROVAL.
RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

GENERAL PERMIT PROGRAM CORRECTIONS RECORD

FOR USE BY GENERAL PERMIT OFFICE ONLY

| NO | DESCRIPTION | BY | CORRECT (C) ADD (D) VOID (V) SHEET NO.'s | TOTAL # SHEETS IN CORRECTION PLAN SET | GENERAL PERMIT PROGRAM APPROVAL | APPROVAL DATE |
|----|-------------|----|---|--|--|------------------|
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COA GRID: K22 LOCATION MAP PROJECT LOCATION
MAPSCO: MAP 585Y N.T.S.

| WATER PRESSURE ZONE: LOCATION | | | |
|-------------------------------|------|------|------|
| LOCATION | MIN. | TYP. | MAX. |
| | | | |
| | | | |
| | | | |

UCC-150820-02-01
AULCC NUMBER

PROJECT INFORMATION:

STREET ADDRESS:
CHALMERS AVE. & 6TH ST. ALLEY
AUSTIN, TEXAS 78702

OWNER:
AUSTIN WATER UTILITY

CONTACT:
GREG KIRTON, P.E.
COLLECTION SYSTEM ENGR DIV.
2600 WEBBERVILLE RD., 2ND FLR
AUSTIN TEXAS 78702
512-972-2053

PROJECT MANAGEMENT:
CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT DIVISION
505 BARTON SPRINGS RD., STE. 900
AUSTIN, TEXAS 78704

PROJECT MANAGER:
GREG KIRTON, P.E.
COLLECTION SYSTEM ENGR DIV.
2600 WEBBERVILLE RD. 2ND FLR
512-972-2053

PREPARED & SUBMITTED FOR APPROVAL BY:



ESD
ENGINEERING SERVICES
DIVISION
CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION
505 BARTON SPRINGS RD., STE. 900
AUSTIN, TEXAS 78704

CONTACT:
RUBEN LOPEZ, JR., P.E.
505 BARTON SPRINGS
AUSTIN, TEXAS 78704
O: (512) 974-7159
E: RUBEN.LOPEZ@AUSTINTEXAS.GOV

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

APPROVED BY GENERAL PERMIT HOLDER:

W. A. Johnson, P.E.
FOR GENERAL PERMIT HOLDER

4/20/16
DATE

GP-2015-0000.AWU
ANNUAL GENERAL PERMIT NUMBER

2016
3/29/2016

REVIEWED BY:

George Resendiz
AUSTIN WATER

4/20/16
DATE

Inspection Notice:
Please contact Public Works, Construction Inspection Division at 512.478.1599 for arrangements for payment of inspection fees and job assignment for inspection of the public utilities related to this site. Inspection fees must be paid before any pre-construction meeting can be held

APPROVAL FOR GENERAL PERMIT:

Robert Martinez, Jr.
GENERAL PERMIT PROGRAM COORDINATOR
DEVELOPMENT SERVICES DEPARTMENT

04/25/2016
DATE

GP-2015-0264.AWU
GENERAL PERMIT NUMBER

DATE

10/05/2015
SUBMITTAL DATE

GENERAL PERMIT PROGRAM

| | |
|----|---|
| 1 | GENERAL COVER |
| 2 | INDEX OF SHEETS |
| 3 | LEGEND |
| 4 | ABBREVIATIONS |
| 5 | GENERAL CONSTRUCTION NOTES |
| 6 | EROSION AND SEDIMENTATION CONTROL NOTES & DETAILS |
| 7 | TREE PROTECTION NOTES |
| 8 | TREE PROTECTION DETAILS |
| 9 | SURVEY AND OVERVIEW MAP |
| 10 | PROPOSED EROSION CONTROL PLAN |
| 11 | PROPOSED 8-INCH WASTEWATERLINE STA. 0+00 - STA. 2+00 |
| 12 | PROPOSED 8-INCH WASTEWATERLINE STA. 2+00 - STA. 4+00 |
| 13 | PROPOSED 8-INCH WASTEWATERLINE STA. 4+00 - STA. 6+00 |
| 14 | PROPOSED 8-INCH WASTEWATERLINE STA. 6+00 - END |
| 15 | PROPOSED WATER SERVICE CONNECTION |
| 16 | PROPOSED 2-INCH WATERLINE ABANDONMENT |
| 17 | GENERAL CONSTRUCTION DETAILS SHEET 1 |
| 18 | GENERAL CONSTRUCTION DETAILS SHEET 2 |
| 19 | GENERAL CONSTRUCTION DETAILS SHEET 3 |
| 20 | GENERAL CONSTRUCTION DETAILS SHEET 4 |
| 21 | TRAFFIC CONTROL NOTES |
| 22 | PROPOSED TRAFFIC CONTROL PLAN FOR WASTEWATER LINE PHASE 1 |
| 23 | PROPOSED TRAFFIC CONTROL PLAN FOR WASTEWATER LINE PHASE 2 |
| 24 | PROPOSED TRAFFIC CONTROL PLAN FOR WASTEWATER LINE PHASE 3 |
| 25 | PROPOSED TRAFFIC CONTROL PLAN FOR WASTEWATER LINE PHASE 4 |
| 26 | PROPOSED TRAFFIC CONTROL PLAN FOR WATER CONNECTION |
| 27 | TRAFFIC CONTROL DETAILS SHEET 1 |
| 28 | TRAFFIC CONTROL DETAILS SHEET 2 |
| 29 | PROPOSED PAVING PLAN |

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| REVISION DESCRIPTION | |
| DATE | |
| REV. BY | |
| NO. | |

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBÉN LÓPEZ, JR. LIC. # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
CHALMERS AVE. & 6TH STREET ALLEY

INDEX OF SHEETS



| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

ESD
ENGINEERING SERVICES
DIVISION

GP-2015-0264.AWU

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EXISTING FEATURES

PROPOSED FEATURES

| | | | |
|--|-------------------------------|--|----------------------------------|
| | BASELINE | | IRRIGATION LINE |
| | CENTERLINE | | IRRIGATION ABANDONED |
| | RIGHT OF WAY LINE | | SPRINKLER MAIN |
| | PROPERTY LINE | | SPRINKLER LATERAL |
| | EASEMENT LINE | | PETROLEUM LINE |
| | FLOOD HAZARD ZONE 25 YEAR | | STORM DRAIN LINE |
| | FLOOD HAZARD ZONE 100 YEAR | | STORM DRAIN LINE (GENERIC) |
| | CRITICAL WATER QUALITY ZONE | | STORM DRAIN ABANDONED |
| | TRANSITION WATER QUALITY ZONE | | STORM DRAIN ABANDONED (GENERIC) |
| | DRAINAGE EDGE | | FIRE LINE |
| | DRAINAGE CENTERLINE | | FIRE ABANDONED |
| | DITCH EDGE | | WATER LINE |
| | TIME OF CONCENTRATION | | WATER ABANDONED |
| | MAJOR CONTOURS | | WASTEWATER LINE |
| | MINOR CONTOURS | | FORCE MAIN LINE |
| | ROAD PAVEMENT | | WASTEWATER LINE (GENERIC) |
| | DRIVEWAY / PARKING PAVEMENT | | FORCE MAIN LINE (GENERIC) |
| | GRAVEL EDGE | | WASTEWATER ABANDONED |
| | UNPAVED EDGE | | FORCE MAIN ABANDONED |
| | CURB LINE | | WASTEWATER ABANDONED (GENERIC) |
| | BUILDING LINE | | FORCE MAIN ABANDONED (GENERIC) |
| | RAIL CENTERLINE | | CIP PIPE |
| | GUARDRAIL | | DIP PIPE |
| | HANDRAIL | | PVC PIPE |
| | CHAINLINK FENCE | | RCP PIPE |
| | BARBWIRE FENCE | | CMP PIPE |
| | WOOD FENCE | | CLAY TILE PIPE |
| | STEEL FENCE | | BIKE PATH DASH-DOT STRIPING |
| | FENCELINE | | 6" - 10' DASH & 30' GAP STRIPING |
| | STONE / ROCK WALL | | 6" - 2' DASH & 6' GAP STRIPING |
| | BRICK WALL | | 6" - 1' DASH & 1' GAP STRIPING |
| | TREE LINE | | 4" - 2' DASH & 2' GAP STRIPING |
| | CABLE TV LINE | | 6" - 3' DASH & 9' GAP STRIPING |
| | CABLE TV CONDUIT | | 12" - 1' DASH & 1' GAP STRIPING |
| | CABLE TV DUCT BANK | | 4" WIDE STRIPING |
| | CABLE TV OVERHEAD | | 6" WIDE STRIPING |
| | CABLE TV UNDERGROUND | | 8" WIDE STRIPING |
| | COMMUNICATION LINE | | 1" WIDE STRIPING |
| | COMMUNICATION CONDUIT | | 2" WIDE STRIPING |
| | COMMUNICATION DUCT BANK | | |
| | COMMUNICATION OVERHEAD | | |
| | COMMUNICATION UNDERGROUND | | |
| | FIBER OPTIC LINE | | |
| | FIBER OPTIC CONDUIT | | |
| | FIBER OPTIC DUCT BANK | | |
| | FIBER OPTIC OVERHEAD | | |
| | FIBER OPTIC UNDERGROUND | | |
| | TRAFFIC SIGNAL LINE | | |
| | TRAFFIC SIGNAL CONDUIT | | |
| | TRAFFIC SIGNAL DUCT BANK | | |
| | TRAFFIC SIGNAL OVERHEAD | | |
| | TRAFFIC SIGNAL UNDERGROUND | | |
| | ELECTRIC LINE | | |
| | ELECTRIC CONDUIT | | |
| | ELECTRIC DUCT BANK | | |
| | ELECTRIC OVERHEAD | | |
| | ELECTRIC UNDERGROUND | | |
| | CHILLED WATER LINE | | |
| | CHILLED WATER SUPPLY | | |
| | CHILLED WATER RETURN | | |
| | CHILLED WATER ABANDONED | | |
| | NATURAL GAS LINE | | |
| | NATURAL GAS SERVICE LINE | | |
| | NATURAL GAS HIGH PRESSURE | | |
| | NATURAL GAS ABANDONED | | |
| | RECLAIMED WATER LINE | | |
| | RECLAIMED WATER ABANDONED | | |

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|--|-------------------------------|--|----------------------------------|
| | BASELINE | | TRAFFIC SIGNAL LINE |
| | CENTERLINE | | TRAFFIC SIGNAL CONDUIT |
| | RIGHT OF WAY LINE | | TRAFFIC SIGNAL DUCT BANK |
| | PROPERTY LINE | | TRAFFIC SIGNAL OVERHEAD |
| | EASEMENT LINE | | TRAFFIC SIGNAL UNDERGROUND |
| | FLOOD HAZARD ZONE 25 YEAR | | TRAFFIC SIGNAL DEMOLITION |
| | FLOOD HAZARD ZONE 100 YEAR | | ELECTRIC LINE |
| | CRITICAL WATER QUALITY ZONE | | ELECTRIC CONDUIT |
| | TRANSITION WATER QUALITY ZONE | | ELECTRIC DUCT BANK |
| | DRAINAGE EDGE | | ELECTRIC OVERHEAD |
| | DRAINAGE CENTERLINE | | ELECTRIC UNDERGROUND |
| | DITCH EDGE | | ELECTRIC DEMOLITION |
| | TIME OF CONCENTRATION | | CHILLED WATER LINE |
| | MAJOR CONTOURS | | CHILLED WATER SUPPLY |
| | MINOR CONTOURS | | CHILLED WATER RETURN |
| | ROAD PAVEMENT | | CHILLED WATER TO ABANDON |
| | DRIVEWAY / PARKING PAVEMENT | | CHILLED WATER DEMOLITION |
| | GRAVEL EDGE | | NATURAL GAS LINE |
| | UNPAVED EDGE | | NATURAL GAS SERVICE LINE |
| | CURB LINE | | NATURAL GAS HIGH PRESSURE |
| | BUILDING LINE | | NATURAL GAS TO ABANDON |
| | RAIL CENTERLINE | | NATURAL GAS DEMOLITION |
| | GUARDRAIL | | RECLAIMED WATER LINE |
| | HANDRAIL | | RECLAIMED WATER TO ABANDON |
| | CHAINLINK FENCE | | RECLAIMED WATER DEMOLITION |
| | BARBWIRE FENCE | | IRRIGATION LINE |
| | WOOD FENCE | | IRRIGATION TO ABANDON |
| | STEEL FENCE | | IRRIGATION DEMOLITION |
| | FENCELINE | | SPRINKLER MAIN |
| | STONE / ROCK WALL | | SPRINKLER LATERAL |
| | BRICK WALL | | PETROLEUM LINE |
| | TREE LINE | | PETROLEUM DEMOLITION |
| | CABLE TV LINE | | STORM DRAIN LINE |
| | CABLE TV CONDUIT | | STORM DRAIN TO ABANDON |
| | CABLE TV DUCT BANK | | STORM DRAIN DEMOLITION |
| | CABLE TV OVERHEAD | | STORM DRAIN TO ABANDON (GENERIC) |
| | CABLE TV UNDERGROUND | | STORM DRAIN DEMOLITION (GENERIC) |
| | COMMUNICATION LINE | | PERFORATED DRAIN |
| | COMMUNICATION CONDUIT | | TREE DRAIN |
| | COMMUNICATION DUCT BANK | | FIRE LINE |
| | COMMUNICATION OVERHEAD | | FIRE TO ABANDON |
| | COMMUNICATION UNDERGROUND | | FIRE DEMOLITION |
| | FIBER OPTIC LINE | | WATER LINE |
| | FIBER OPTIC CONDUIT | | WATER TO ABANDON |
| | FIBER OPTIC DUCT BANK | | WATER DEMOLITION |
| | FIBER OPTIC OVERHEAD | | WASTEWATER LINE |
| | FIBER OPTIC UNDERGROUND | | FORCE MAIN LINE |
| | TRAFFIC SIGNAL LINE | | WASTEWATER TO ABANDON |
| | TRAFFIC SIGNAL CONDUIT | | FORCE MAIN TO ABANDON |
| | TRAFFIC SIGNAL DUCT BANK | | WASTEWATER TO ABANDON (GENERIC) |
| | TRAFFIC SIGNAL OVERHEAD | | FORCE MAIN TO ABANDON (GENERIC) |
| | TRAFFIC SIGNAL UNDERGROUND | | WASTEWATER DEMOLITION |
| | ELECTRIC LINE | | FORCE MAIN DEMOLITION |
| | ELECTRIC CONDUIT | | WASTEWATER DEMOLITION (GENERIC) |
| | ELECTRIC DUCT BANK | | BIKE PATH DASH-DOT STRIPING |
| | ELECTRIC OVERHEAD | | 6" - 10' DASH & 30' GAP STRIPING |
| | ELECTRIC UNDERGROUND | | 6" - 2' DASH & 6' GAP STRIPING |
| | CHILLED WATER LINE | | 6" - 1' DASH & 1' GAP STRIPING |
| | CHILLED WATER SUPPLY | | 4" - 2' DASH & 2' GAP STRIPING |
| | CHILLED WATER RETURN | | 6" - 3' DASH & 9' GAP STRIPING |
| | CHILLED WATER ABANDONED | | 12" - 1' DASH & 1' GAP STRIPING |
| | NATURAL GAS LINE | | 4" WIDE STRIPING |
| | NATURAL GAS SERVICE LINE | | 6" WIDE STRIPING |
| | NATURAL GAS HIGH PRESSURE | | 8" WIDE STRIPING |
| | NATURAL GAS ABANDONED | | 1" WIDE STRIPING |
| | RECLAIMED WATER LINE | | 2" WIDE STRIPING |
| | RECLAIMED WATER ABANDONED | | |

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| REV. NO. | REVISION DESCRIPTION |
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| REV. BY | DATE |
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CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION

**WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY**

LEGEND

| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

**ENGINEERING SERVICES
 DIVISION**

GP-2015-0264.AWU

SHEET 3 OF 29

COMMONLY USED ABBREVIATIONS

| | | | |
|--------|---|--------------|--|
| A.C. | ASBESTOS CEMENT | SF | SILT FENCE |
| AATUR | ABANDONED ACCORDING TO UTILITY RECORDS | SH | SHEET |
| Ac. | ACRE | SHT. | SHEET |
| ACWP | AUSTIN CLEAN WATER PROGRAM | SP | SITE PLAN |
| AWU | AUSTIN WATER UTILITY | SQ. FT./S.F. | SQUARE FEET |
| BGN | BEGIN (BEGINNING) | SS | STORM SEWER |
| BLVD | BOULEVARD | SSD | STOPPING SIGHT DISTANCE |
| BOC | BACK OF CURB | SSL | STORM SEWER LINE |
| C.I.P. | CAPITAL IMPROVEMENT PROJECT | SSO | SANITARY SEWER OVERFLOW |
| C.R.Z. | CRITICAL ROOT ZONE | STA. | STATION |
| CATV | CABLE TELEVISION | STD. | STANDARD |
| CFS | CUBIC FEET PER SECOND | SW | SOUTH WEST |
| CI | CAST IRON | SWK. | SIDEWALK |
| CIP | CAPITAL IMPROVEMENT PROJECT | SY | SQUARE YARD |
| CL | CENTERLINE | T.B.A. | TO BE ABANDONED |
| CMP | CORRUGATED METAL PIPE | T.B.R. | TO BE REMOVED |
| CMTA | CAPITAL METROPOLITAN TRANSPORTATION AUTHORITY | TC | TOP OF CURB ELEVATION |
| CO | CLEAN OUT | TELECOM | TELECOMMUNICATIONS |
| COA | CITY OF AUSTIN | TEMP. | TEMPORARY |
| CONC. | CONCRETE | TFD | TRI-FILTER DIKE |
| CONT. | CONTINUED | TOC | TABLE OF CONTENTS |
| CPP | CORRUGATED PLASTIC PIPE | TOC | TOP OF CURB |
| CSC | CONCRETE STEEL CYLINDER | TOT. | TOTAL |
| CTB | CONCRETE TRAFFIC BARRIER | TP | TREE PROTECTION |
| CWQZ | CRITICAL WATER QUALITY ZONE | TSAAMSS | TEMPORARY STAGING AREA & MATERIAL STORAGE SITE |
| CY | CUBIC YARD | TV | TELEVISION |
| DE | DRAINAGE EASEMENT | TXDOT | TEXAS DEPARTMENT OF TRANSPORTATION |
| DIA. | DIAMETER | TYP | TYPICAL |
| DIST. | DISTRIBUTION | U.S. | UNITED STATES |
| DIV. | DIVISION | UG | UNDERGROUND |
| DOC. | DOCUMENT | UGTEL | UNDERGROUND TELEPHONE |
| DPS | DEPARTMENT OF PUBLIC SAFETY | USGS | U.S.GEOLOGICAL SURVEY |
| DR | DIMENSION RATIO | VC | VITREOUS CLAY |
| DRV. | DRIVEWAY | VC | VERTICAL CURVE ELEVATION |
| E | EAST | VCP | VITRIFIED CLAY PIPE |
| E O/H | ELECTRIC OVER HEAD | VOL. | VOLUME |
| E U/G | ELECTRIC UNDERGROUND | VPC | VERTICAL POINT OF CURVATURE |
| E/A | ENGINEER/ARCHITECT | VPI | VERTICAL POINT OF INTERSECTION |
| E/S | EROSION /SEDIMENTATION | VPT | VERTICAL POINT OF TANGENCY |
| EA. | EACH | W | WATER |
| EL. | ELEVATION | WL | WATER LINE |
| ELEC. | ELECTRIC | WQTZ | WATER QUALITY TRANSITION ZONE |
| ELEV. | ELEVATION | WV | WATER VALVE |
| EMH | ELECTRIC MANHOLE | WW | WASTEWATER |
| EOP | EDGE OF PAVEMENT | WWE | WASTEWATER EASEMENT |
| ESC | EROSION AND SEDIMENTATION CONTROL | WWL | WASTEWATER LINE |
| ESD | ENGINEERING SERVICES DIVISION | WWMH | WASTEWATER MANHOLE |
| ESMT | EASEMENT | WWSC | WASTEWATER SERVICE CONNECTION |
| ETC. | ETCETERA | YR | YEAR |
| EX. | EXISTING | | |
| EXIST. | EXISTING | | |
| FDU | FUNDING DEPARTMENT UNIT | | |
| FEMA | FEDERAL EMERGENCY MANAGEMENT SYSTEM | | |
| FH | FIRE HYDRANT | | |
| FL | FLOW LINE | | |
| FL. | FLOW | | |
| FOC | FACE OF CURB | | |
| FP | FLOODPLAIN | | |
| G | GALLON | | |
| GAL. | GALLON | | |
| GPS | GLOBAL POSITIONING SYSTEM | | |
| HDPE | HIGH DENSITY POLYETHYLENE | | |
| HWY | HIGHWAY | | |
| INC. | INCORPORATED | | |
| IP | INLET PROTECTION/IRON PIN | | |
| L | LENGTH | | |
| LB. | POUNDS | | |
| LF | LINEAR FEET | | |
| LN. | LINE | | |
| LN. | LANE | | |
| LOC | LIMIT OF CONSTRUCTION | | |
| LOG | LIP OF GUTTER | | |
| LT | LEFT | | |
| LTD. | LIMITED | | |
| MAX. | MAXIMUM | | |
| MH | MANHOLE | | |
| MIN. | MINIMUM | | |
| MM | MILLIMETER | | |
| MPH | MILES PER HOUR | | |
| N | NORTH | | |
| N/A | NOT APPLICABLE | | |
| NE | NORTH EAST | | |
| NO. | NUMBER | | |
| NTS | NOT TO SCALE | | |
| O.C. | ON CENTER | | |
| OH | OVERHEAD | | |
| P.C. | POINT OF CURVATURE | | |
| P.E. | PROFESSIONAL ENGINEER | | |
| P.I. | POINT OF INTERSECTION | | |
| PCC | POINT COMPOUND CURVE | | |
| PE | POLYETHYLENE | | |
| PG. | PAGE | | |
| PI | PLASTICITY INDEX | | |
| PL | PROPERTY LINE | | |
| PR. | PROPOSED | | |
| PROP. | PROPOSED | | |
| PSI | POUNDS PER SQUARE INCH | | |
| PT | POINT OF TANGENCY | | |
| PUE | PUBLIC UTILITY EASEMENT | | |
| PVC | POLYVINYL CHLORIDE | | |
| PVMT | PAVEMENT | | |
| PWD | PUBLIC WORKS DEPARTMENT | | |
| QL-D | QUALITY LEVEL - D | | |
| R.O.W. | RIGHT OF WAY | | |
| RB | ROCK BERM | | |
| RCP | REINFORCED CONCRETE PIPE | | |
| REF. | REFERENCE | | |
| ROW | RIGHT OF WAY | | |
| RR | RAILROAD | | |
| RT | RIGHT | | |
| S | SOUTH | | |
| S.F. | SQUARE FEET | | |
| SCE | STABILIZED CONSTRUCTION ENTRANCE | | |
| SDR | STANDARD DIMENSION RATIO | | |
| SE | SOUTH EAST | | |

| REV. NO. | BY | DATE | REVISION DESCRIPTION |
|----------|----|------|----------------------|
| | | | |
| | | | |
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I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION
**WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY**
 ABBREVIATIONS



| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

**ENGINEERING SERVICES
DIVISION**

GP-2015-0264.AWU

N:\TEAM\PAWL_WW\RELAY\RR2_CHALMERS AVE. & ALLEY\DWG\PRODUCTION FILES\DWG\CHAL-GN-ABRY\DWG.1.COA_PDF_22x34_COA_ESD.S1B

CITY OF AUSTIN - STANDARD NOTES
EROSION AND SEDIMENTATION CONTROL
(MODIFIED FOR USE ON GENERAL PERMIT PROJECTS)

- THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR EXCAVATION).
- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
- THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER, PERMIT APPLICANT, AND GENERAL PERMIT PROGRAM REPRESENTATIVE AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND THE TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE GENERAL PERMIT PROGRAM OFFICE AT 512/974-6330, AT LEAST 3 DAYS PRIOR TO THE MEETING DATE.
- ANY SIGNIFICANT VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS MUST BE APPROVED BY THE REVIEWING ENGINEER AND THE GENERAL PERMIT PROGRAM REPRESENTATIVE.

- THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT DAILY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES. SILT ACCUMULATION AT INLET DEVICES SHOULD BE REMOVED WHEN THE DEPTH REACHES TWO (2) INCHES.

- PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.

- ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS ONE SQUARE FOOT OR LARGER IN TOTAL AREA, BLOWS AIR FROM WITHIN THE SUBSTRATE, AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME, IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT THE GENERAL PERMIT PROGRAM REPRESENTATIVE FOR FURTHER INVESTIGATION.

- FIELD REVISIONS TO THE EROSION/SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES. ANY REVISIONS TO THE PERMITTED PLAN MUST BE APPROVED BY THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.

- PERMANENT EROSION/SEDIMENTATION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, WHERE THE CRITERIA MANUAL AND CONTRACT DOCUMENTS DIFFER THE MOST ENVIRONMENTALLY BENEFICIAL MATERIALS/METHOD SHALL BE REQUIRED UNLESS OTHERWISE APPROVED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE.

11. DEVELOPER INFORMATION:
 OWNER: RUBÉN LÓPEZ, JR.
 COMPANY: CITY OF AUSTIN
 CONTACT: 512-974-7159
 ADDRESS: 505 BARTON SPRINGS, AUSTIN TEXAS 78704
 E-MAIL: ruben.lopez@austintexas.gov

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS:
 COMPANY: CITY OF AUSTIN - AUSTIN WATER UTILITY
 CONTACT: GREG KIRTON, P.E.
 ADDRESS: 2600 WEBBERVILLE RD., SECOND FLOOR

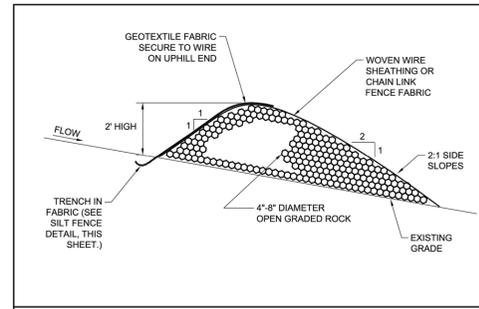
PHONE: 512-972-2053
 E-MAIL: greg.kirton@austintexas.gov

PARTY RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAINTENANCE:
 COMPANY: CONTRACTOR

PARTY RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE:
 COMPANY: CONTRACTOR

- THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE GENERAL PERMIT PROGRAM REPRESENTATIVE, AT 974-6330, AT LEAST 48 HOURS PRIOR TO THE SPOILS REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.

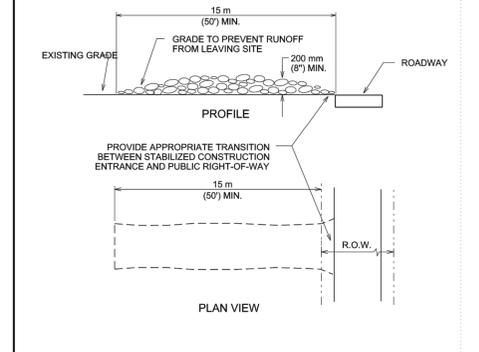
- INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY PRIOR TO STREET WORK, AND WILL BE REMOVED AS SOON AS THE GENERAL PERMIT PROGRAM REPRESENTATIVE AGREES THAT THERE IS NO POTENTIAL FOR SEDIMENTATION.



NOTES:

- USE ONLY OPEN GRADED ROCK, 4-8 INCH DIAMETER, FOR STREAM FLOW CONDITION. USE OPEN GRADED ROCK, 3-6 INCH DIAMETER, FOR OTHER CONDITIONS.
- ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 1 INCH OPENING AND MINIMUM WIRE DIAMETER OF 20 GAUGE.
- ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN WIRE SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
- WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE AND IN A MANNER AS TO NOT CREATE A SILTATION PROBLEM.
- DAILY INSPECTION SHALL BE MADE ON SEVERE SERVICE ROCK BERMS. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 6 INCHES.
- WHEN SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

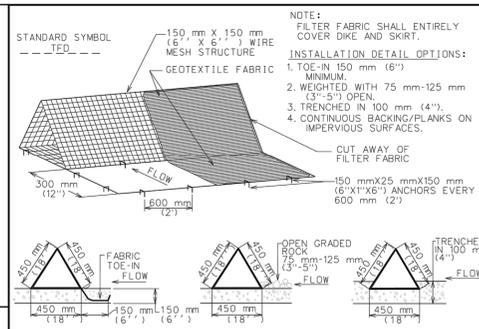
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|---|---|---|---|
| CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT | FABRIC COVERED (SEVERE SERVICE) ROCK BERM | CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT | TRIANGULAR SEDIMENT FILTER DIKE |
| RECORD COPY SIGNED BY J. PATRICK MURPHY | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | RECORD COPY SIGNED BY J. PATRICK MURPHY | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |
| 5/23/00 | ADOPTED | 3/27/00 | ADOPTED |
| STANDARD NO. N/A | 1 OF 1 | STANDARD NO. 6285 | |



NOTES:

- STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
- LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
- THICKNESS: NOT LESS THAN 200 mm (8").
- WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
- WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
- DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

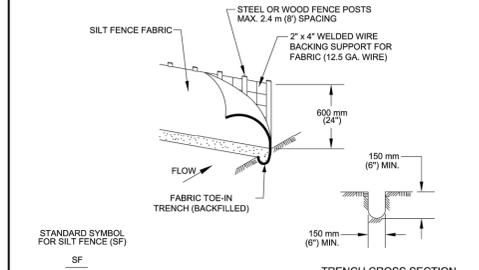
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|---|---|---|---|
| CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT | STABILIZED CONSTRUCTION ENTRANCE | CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT | SILT FENCE |
| RECORD COPY SIGNED BY J. PATRICK MURPHY | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | RECORD COPY SIGNED BY MORGAN BYARS | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |
| 5/23/00 | ADOPTED | 09/01/2011 | ADOPTED |
| STANDARD NO. 641S-1 | | STANDARD NO. 642S-1 | |



GENERAL NOTES:

- DIKES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT DIKE.
- THE FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS WRAPPING OF GEOTEXTILE. THE SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE FABRIC ON THE UPSTREAM FACE.
- THE SKIRT SHALL BE WEIGHTED WITH A CONTINUOUS LAYER OF 75-125 mm (3-5") OPEN GRADED ROCK OR TOE-IN 150 mm (6") WITH MECHANICALLY COMPACTED MATERIAL. OTHERWISE, THE ENTIRE STRUCTURE SHALL BE TRENCHED IN 100 mm (4").
- DIKES AND SKIRT SHALL BE SECURELY ANCHORED IN PLACE USING 150 mm (6") WIRE STAPLES ON 600 mm (2') CENTERS ON BOTH EDGES AND SKIRT, OR STAKE USING 10M (3/8") DIAMETER RE-BAR WITH TEE ENDS.
- FILTER MATERIAL SHALL BE LAPPED OVER ENDS 150 mm (6") TO COVER DIKE TO DIKE JOINTS. JOINTS SHALL BE FASTENED WITH GALVANIZED SHOOT RINGS.
- THE DIKE STRUCTURE SHALL BE MW40-150 mmx150 mm (6 GA. 6"X6") WIRE MESH, 450 mm (18") ON A SIDE.
- INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6") AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
- AFTER THE DEVELOPMENT SITE IS COMPLETELY STABILIZED, THE DIKES AND ANY REMAINING SILT SHALL BE REMOVED. SILT SHALL BE DISPOSED OF AS INDICATED IN GENERAL NOTE 9 ABOVE.

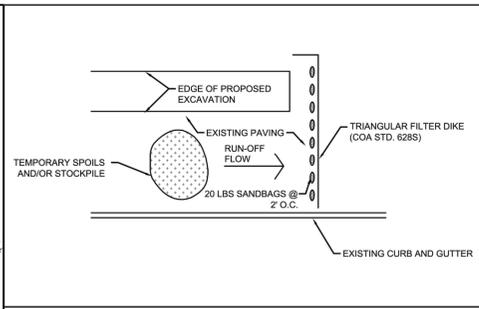
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|---|---|
| CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT | TRIANGULAR SEDIMENT FILTER DIKE |
| RECORD COPY SIGNED BY J. PATRICK MURPHY | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |
| 3/27/00 | ADOPTED |
| STANDARD NO. 6285 | |



NOTES:

- STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 inches). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 inches) DEPTH, USE STEEL POSTS.
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
- THE TRENCH MUST BE A MINIMUM OF 150 mm (6 inches) DEEP AND 150 mm (6 inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.
- INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

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|---|---|
| CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT | SILT FENCE |
| RECORD COPY SIGNED BY MORGAN BYARS | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |
| 08/24/2010 | ADOPTED |
| STANDARD NO. 642S-1 | |

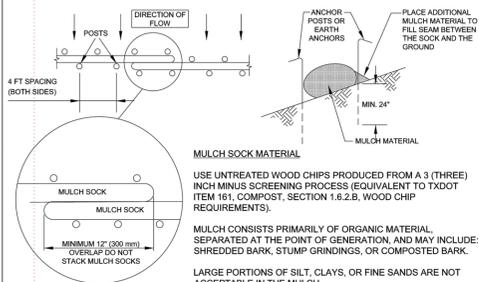


NOTES:

- THE TEMPORARY SPOILS/STOCKPILE STORAGE AREA AND STAGING AREA MAY BE LOCATED DIRECTLY ADJACENT TO THE EXCAVATION AND ON THE PAVEMENT.
- ANY SPOIL NOT INTENDED TO BE REUSED WILL BE HAUL TO AN APPROVED OR PERMITTED DISPOSAL SITE DAILY.
- INSTALL TRIANGULAR SEDIMENT FILTER DIKE (DETAIL 6285) ACROSS FULL WIDTH OF TRAFFIC CLOSURE AND DOWNSTREAM OF CONSTRUCTION AREA, PERPENDICULAR TO CURB AND PLACED TO EFFECTIVELY CATCH AND CONTAIN SEDIMENT LADEN RUNOFF FROM THE EXCAVATED AREA. FILTER DIKE TO FOLLOW ACTIVE CONSTRUCTION, REMOVING AND RE-SETTING FILTER DIKE IS CONSIDERED SUBSIDIARY TO BARRICADES AND TRAFFIC HANDLING.

ADDITIONAL EROSION/SEDIMENTATION CONTROL FOR WORK IN PAVED AREAS FOR GENERAL PERMIT PROGRAM PROJECTS

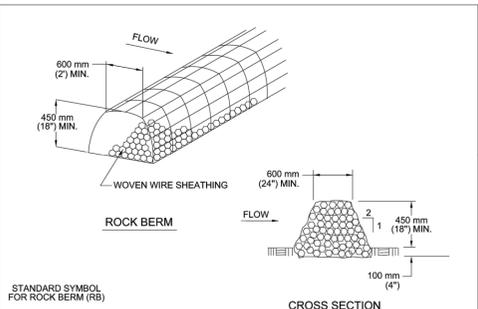
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|---|---|
| CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT | MULCH SOCK |
| RECORD COPY SIGNED BY MORGAN BYARS | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |
| 08/24/2010 | ADOPTED |
| STANDARD NO. 648S-1 | |



NOTES:

- STEEL OR WOOD POSTS WHICH SUPPORT THE MULCH SOCK SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 600 mm (24 inches). IF WOOD POSTS CANNOT ACHIEVE 600 mm (24 inches) DEPTH, USE STEEL POSTS. EARTH ANCHORS ARE ALSO ACCEPTABLE.
- THE TOE OF THE MULCH SOCK SHALL BE PLACED SO THAT THE MULCH SOCK IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. IN ORDER TO PREVENT WATER FROM FLOWING BETWEEN THE JOINTS OF ADJACENT ENDS OF MULCH SOCKS, LAP THE ENDS OF ADJACENT MULCH SOCKS A MINIMUM OF 300 mm (12 inches).
- MULCH MATERIAL MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. IT IS NOT ACCEPTABLE FOR THE MULCH MATERIAL TO CONTAIN GROUND CONSTRUCTION DEBRIS, BIOSOLIDS, OR MANURE.
- SOCK MATERIAL WILL BE 100% BIODEGRADABLE, PHOTODEGRADABLE, OR RECYCLABLE SUCH AS BURLAP, TWINE, UV PHOTOBIODEGRADABLE PLASTIC, POLYESTER, OR ANY OTHER ACCEPTABLE MATERIAL.
- MULCH SOCKS SHOULD BE USED AT THE BASE OF SLOPES NO STEEPER THAN 2:1 AND SHOULD NOT EXCEED THE MAXIMUM SPACING CRITERIA PROVIDED IN CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL TABLE 1.4.5.F.1 FOR A GIVEN SLOPE CATEGORY.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

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|---|---|
| CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT | MULCH SOCK |
| RECORD COPY SIGNED BY MORGAN BYARS | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |
| 08/24/2010 | ADOPTED |
| STANDARD NO. 648S-1 | |



NOTES:

- USE ONLY OPEN GRADED ROCK 75 TO 125 mm (3 TO 5") DIAMETER FOR ALL CONDITIONS.
- THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 25 mm (1") OPENING AND MINIMUM WIRE DIAMETER OF 12.9 mm (20 GAUGE).
- THE ROCK BERM SHALL BE INSPECTED DAILY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SEDIMENT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
- IF SEDIMENT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 150 mm (6"), WHICHEVER IS LESS, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTATION PROBLEM.
- WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

| | |
|---|---|
| CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT | ROCK BERM |
| RECORD COPY SIGNED BY MORGAN BYARS | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |
| 8/24/2010 | ADOPTED |
| STANDARD NO. 639S-1 | |

| REVISION DESCRIPTION | DATE | REV. BY | NO. |
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I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION
WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
CHALMERS AVE. & 6TH STREET ALLEY
EROSION AND SEDIMENTATION CONTROL NOTES & DETAILS



| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

ENGINEERING SERVICES DIVISION

GP-2015-0264.AWU

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**GENERAL PERMIT PROGRAM (GPP)
STANDARD ENVIRONMENTAL NOTES:**

ADDITIONAL AREAS:

1. ANY ADDITIONAL AREAS REQUIRED FOR CONSTRUCTION OF THIS PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST SECURE CITY OF AUSTIN APPROVAL OF PROPOSED ADDITIONAL AREAS PRIOR TO USE. APPROVAL OF "CORRECTION REQUEST" MUST BE SECURED FROM THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.
2. ALL ASSOCIATED PERMITS AND FEES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. IN ORDER TO SECURE APPROVAL FOR USE OF ADDITIONAL AREAS, CONTRACTOR MUST PROVIDE COMPLETE "CORRECTION REQUEST" SUBMITTAL TO GENERAL PERMIT PROGRAM OFFICE AND ALLOW A ONE WEEK COMMENT PERIOD FOR EACH REVIEW. CONTRACTOR SHOULD REQUEST INFORMATION ON THE ELEMENTS REQUIRED TO BE INCLUDED IN THE SUBMITTAL FROM THE OWNER'S REPRESENTATIVE OR THE GENERAL PERMIT PROGRAM OFFICE.
4. CONTRACTOR MUST INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION FOR ALL SUCH AREAS IN ACCORDANCE WITH THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL AND AS INCLUDED IN THE APPROVED SUBMITTAL OR DIRECTED IN THE FIELD BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE.
5. A SIGNED COPY OF THE PLANS PERMITTED THROUGH THE GENERAL PERMIT PROGRAM MUST BE KEPT ON SITE AND ACCESSIBLE AT ALL TIMES DURING PROJECT CONSTRUCTION.

DEWATERING:

CONTRACTOR IS RESPONSIBLE FOR DEWATERING OF WORK AREA. CONTRACTOR MUST SECURE CITY OF AUSTIN APPROVAL OF PROPOSED DEWATERING PROCEDURES PRIOR TO INSTALLATION OR USE. APPROVAL MUST BE SECURED FROM THE GENERAL PERMIT PROGRAM (GPP) OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT. CONTRACTOR MUST PROVIDE COMPLETE SUBMITTAL TO GPP OFFICE AND ALLOW AN ONE WEEK (MIN.) COMMENT PERIOD FOR EACH REVIEW. CONTACT THE GPP OFFICE FOR SUBMITTAL REQUIREMENTS.

FUEL STORAGE:

FUEL STORAGE IS PROHIBITED ON THIS PROJECT. ADDITIONALLY, THE CONTRACTOR IS REQUIRED TO NOTIFY THE GENERAL PERMIT PROGRAM OFFICE IMMEDIATELY FOLLOWING ANY SPILL OF FUEL OR OTHER TOXIC MATERIAL. CONTRACTOR IS REQUIRED TO FOLLOW-UP WITH WRITTEN DOCUMENTATION, INCLUDING A COMPLETE DESCRIPTION OF THE INCIDENT, MATERIAL SPILLED, AND ACTIONS TAKEN TO CONTAIN AND CLEAN-UP MATERIAL.

FUGITIVE DUST CONTROL:

ALL PROJECTS APPROVED THROUGH THE GENERAL PERMIT PROGRAM (GPP) MUST COMPLY WITH THE CODE OF THE CITY OF AUSTIN AND THE ENVIRONMENTAL CRITERIA MANUAL REQUIREMENTS TO CONTROL AIRBORNE DUST. COMPLIANCE IS REQUIRED FOR ENTIRE PROJECT SITE AS WELL AS ASSOCIATED OPERATIONS. CONTACT THE GPP OFFICE FOR RECOMMENDED CONTROL METHODS.

SPOILS STORAGE:

NO SPOILS STORAGE IS ALLOWED WITHIN A CRITICAL WATER QUALITY ZONE, A 100-YEAR FLOODPLAIN, OR ON A SLOPE WITH A GRADIENT OF MORE THAN 15 PERCENT.

E/S CONTROLS FOR BORE / RECEIVING PIT LOCATIONS:

TEMPORARY E/S CONTROLS MUST SURROUND THE ENTIRETY OF BORING OPERATIONS, INCLUDING PIT, EQUIPMENT, ETC. FOR LOCATIONS WITHIN IMPVIOUS AREAS, TEMPORARY CONTROL WILL BE TRIANGULAR FILTER DIKE (COA STANDARD DETAIL #628S). DIKE FLAP WILL BE CONTINUOUSLY WEIGHTED DOWN THROUGH THE USE OF 1" BY 4" WOOD STRIPS NAILED TO THE PAVEMENT, EXCEPT FOR THE ACCESS POINT. PLACEMENT OF TEMPORARY E/S CONTROLS ACROSS ACCESS POINT WILL BE REQUIRED WHENEVER THE SITE IS NOT ACTIVELY USED. FOR LOCATIONS WITHIN PVIOUS AREAS, TEMPORARY CONTROL WILL BE SILT FENCE (COA STANDARD DETAIL #642S-1) OR MULCH SOCKS (COA STANDARD DETAIL #648S-1), AS INDICATED ON APPROVED PLANS.

SOIL RETENTION BLANKET:

UNLESS OTHERWISE INDICATED IN THE PROJECT DOCUMENTS, INSTALLATION OF SOIL RETENTION BLANKET WILL BE REQUIRED FOR ALL IMPACTED SLOPES GREATER THAN 3:1 AND ALL IMPACTED AREAS WITHIN DRAINAGE CONVEYANCES. (CITY OF AUSTIN STANDARD SPECIFICATION ITEM 605S) SOIL RETENTION BLANKET SUBMITTAL MUST BE APPROVED BY PROJECT ENGINEER AND GENERAL PERMIT PROGRAM (GPP) REPRESENTATIVE PRIOR TO USE AND MUST INCLUDE PRODUCT AND INSTALLATION DETAILS PROVIDED BY MANUFACTURER. FINISH GRADING MUST BE INSPECTED AND APPROVED BY GPP INSPECTOR PRIOR TO BLANKET INSTALLATION. INSTALLATION MUST BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MUST BE INSPECTED AND APPROVED BY GPP REPRESENTATIVE PRIOR TO ACCEPTANCE.

SOD INSTALLATION:

REVEGETATION WITHIN MANAGED TURF AREAS MUST BE ACCOMPLISHED THROUGH THE INSTALLATION OF SOLID BLOCK GRASS SOD. SOD TYPE MUST MATCH ADJACENT GRASS TYPE. QUESTIONS REGARDING SOD TYPE WILL BE RESOLVED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE. REFER TO CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 602S: SODDING FOR EROSION CONTROL, UNLESS OTHERWISE NOTED ON THE APPROVED PLANS.

TxDOT RIGHTS-OF-WAY:

TOPSOIL (TxDOT ITEM NO. 160), SOIL RETENTION BLANKET (TxDOT ITEM NO. 169), AND REVEGETATION (TxDOT ITEM NO. 164) INSTALLED WITHIN TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) RIGHT-OF-WAY SHALL COMPLY WITH "REQUIREMENTS FOR INSTALLATION OF UTILITIES WITHIN THE STATE RIGHT-OF-WAY, AUSTIN DISTRICT".

**PROJECT SEQUENCE:
(REFER TO FULL PLAN SET FOR PROJECT-SPECIFIC ADDITIONS, IF APPLICABLE.)**

PRIOR TO CONSTRUCTION:

1. SECURE APPLICABLE COA PERMITS, INCLUDING APPROVAL UNDER GENERAL PERMIT PROGRAM AND RIGHT-OF-WAY EXCAVATION PERMIT.
2. NOTIFY GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO PLACEMENT OF E/S CONTROLS AND TREE PROTECTION FENCING. ALL PROPOSED PHASING OF CONTROLS MUST BE SUBMITTED TO AND APPROVED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO THE FIELD PRE-CONSTRUCTION CONFERENCE.
3. NOTIFY COA TEMPORARY TRAFFIC CONTROL REPRESENTATIVE PRIOR TO PLACEMENT OF TEMPORARY TRAFFIC CONTROLS. ALL PROPOSED PHASING OF CONTROLS MUST BE INDICATED ON APPROVED TEMPORARY TRAFFIC CONTROL PLAN AND SEALED BY PROFESSIONAL ENGINEER.
4. PLACE TEMPORARY E/S CONTROLS AND TREE PROTECTION FENCING PRIOR TO BEGINNING ANY EXCAVATION. INSTALL C.I.P. SIGN, IF APPLICABLE.
5. HOLD ENVIRONMENTAL PRE-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, OWNER'S REPRESENTATIVE, AND GENERAL PERMIT PROGRAM REPRESENTATIVE AFTER INSTALLATION OF E/S CONTROLS AND TREE PROTECTION FENCING AND PRIOR TO ANY TRENCHING OPERATIONS.
6. PLACE TEMPORARY TRAFFIC CONTROL DEVICES.

PROJECT CONSTRUCTION:

1. BEGIN CONSTRUCTION. NOTIFY GENERAL PERMIT PROGRAM REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.
2. CONTACT GENERAL PERMIT OFFICE TO SCHEDULE FIELD INSPECTION PRIOR TO BEGINNING INSTALLATION OF PERMANENT E/S CONTROLS.
3. COMPLETE RESTORATION OF ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES FOR THIS PROJECT. (PERMANENT E/S CONTROLS)
4. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES RELATED TO WORK AREAS OUTSIDE OF THE STREET.
5. HOLD ENVIRONMENTAL POST-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, OWNER'S REPRESENTATIVE, AND GENERAL PERMIT PROGRAM REPRESENTATIVE. ALL PERMANENT E/S CONTROLS MUST BE ACCEPTED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE. PERMANENT CONTROLS SHALL CONSIST OF REVEGETATION PER DETAILS 602, 604S, AND 609S AS INDICATED ON APPROVED PLANS.
6. FOLLOWING FINAL ACCEPTANCE OF PERMANENT E/S CONTROLS BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE, REMOVE TEMPORARY E/S CONTROLS. CLEAN EXISTING STORM DRAINAGE SYSTEMS AS NECESSARY DUE TO CONSTRUCTION OPERATIONS.
7. DRESS-UP AND RESTORE ANY AREAS DISTURBED BY REMOVAL OF TEMPORARY E/S CONTROLS DESCRIBED ABOVE.

REQUIRED SUBMITTALS:

SUBMITTALS REQUIRED TO BE APPROVED BY GENERAL PERMIT PROGRAM REPRESENTATIVE INCLUDE: SUBMITTALS TRIGGERED BY CITY OF AUSTIN SERIES 600 SPECIFICATIONS AND RELATED SPECIAL PROVISIONS/SPECIFICATIONS, CONSTRUCTION SCHEDULE, TREE PROTECTION, P-6 AND OTHER ROOT ZONE PROTECTION/MITIGATION MEASURES, DEWATERING PLAN, WATERING SCHEDULE FOR REVEGETATION AREAS, AND ANY VEGETATIVE REPLACEMENT PROPOSALS, IF NOT ALREADY PART OF THE PERMITTED PLAN SET.

**CITY OF AUSTIN - STANDARD NOTES
TREE AND NATURAL AREA PROTECTION
(MODIFIED FOR USE ON GENERAL PERMIT PROJECTS)**

1. ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY MEASURES.
2. PROTECTIVE MEASURES SHALL BE INSTALLED ACCORDING TO CITY OF AUSTIN STANDARDS FOR TREE PROTECTION.
3. PROTECTIVE MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE PROJECT.
4. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP, COMPACTION OR CUTTING OF CRITICAL ROOT ZONE WITHIN TREE DRIP LINES.
5. TREE PROTECTION SHALL COMPLETELY SURROUND THE TREES OR GROUP OF TREES AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE). FOR NATURAL AREAS, PROTECTIVE MEASURES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
 - A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
 - B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT;
 - C. WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;
 - D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.

6. EXCEPTIONS TO INSTALLING PROTECTIVE FENCES AT CRITICAL ROOT ZONES MAY BE PERMITTED IN THE FOLLOWING CASES:
 - A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 FEET BEYOND THE AREA DISTURBED;
 - B. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA;
 - C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING;
 - D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE GENERAL PERMIT PROGRAM OFFICE AT 974-6330 TO DISCUSS ALTERNATIVES.

SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED.

WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE 5 FEET OR CLOSER TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING.

7. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES, THOSE AREAS SHOULD BE COVERED WITH 12 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION DURING CONSTRUCTION. FILTER FABRIC UNDERLAYMENT MAY BE REQUIRED AT DIRECTION OF GENERAL PERMIT PROGRAM REPRESENTATIVE BASED ON SITE CONDITIONS AND CONSTRUCTION ACTIVITIES. MAXIMUM FOUR (4) INCHES DEPTH MAY BE LEFT IN PLACE AFTER CONSTRUCTION WITH APPROVAL FROM THE GENERAL PERMIT PROGRAM REPRESENTATIVE.

8. ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCES TO 2 FEET BEHIND THE GRADE CHANGE AREA.

9. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.

10. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIP LINES, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS.

11. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHOULD BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS SHOULD BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

12. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
13. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.

14. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. SEE NOTE THREE (3) OF SUPPLEMENTAL TREE PROTECTION NOTES FOR ADDITIONAL REQUIREMENTS.

15. ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE GENERAL PERMIT PROGRAM OFFICE).

16. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NONCOMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.

17. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.

SUPPLEMENTAL TREE PROTECTION NOTES

1. ALL TREE PROTECTION MUST COMPLY WITH CITY OF AUSTIN REQUIREMENTS AS OUTLINED IN THE ENVIRONMENTAL CRITERIA MANUAL AND AS INDICATED BY STANDARD COA NOTES AND DETAILS INCLUDED WITHIN THIS DOCUMENT SET. CONTRACTOR SHALL INSTALL PROTECTION PRIOR TO PRE-CONSTRUCTION CONFERENCE, MAKE ADJUSTMENTS TO PROTECTION AS DIRECTED BY THE GPP REPRESENTATIVE, AND MAINTAIN PROTECTION UNTIL PROJECT IS COMPLETE.
2. TYPE AND LOCATION OF ALL TREE PROTECTION MUST BE APPROVED IN THE FIELD BY THE GENERAL PERMIT PROGRAM (GPP) REPRESENTATIVE PRIOR TO CONSTRUCTION.
3. WALK-THROUGH: CONTRACTOR SHALL CONDUCT WALK-THROUGH MEETING WITH GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO PERFORMING ANY PRUNING ACTIVITIES ON TREES IN PROJECT AREA. PURPOSE OF WALK-THROUGH WILL BE TWOFOLD. ONE PURPOSE WILL BE TO DETERMINE THE MINIMUM AMOUNT OF PRUNING NECESSARY TO ALLOW CONSTRUCTION WORK TO BE COMPLETED. SECOND PURPOSE WILL BE TO DETERMINE AREAS OF PROJECT IN WHICH EXHAUST DIVERTERS WILL BE REQUIRED ON CONSTRUCTION EQUIPMENT TO PREVENT SCORCHING OF EXISTING TREES.
4. ALL PRUNING MUST BE PERFORMED IN ACCORDANCE WITH ANSI A300 (PART 1) - 2001 AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS (PRUNING), OR LATEST APPROVED VERSION. THIS DOCUMENT MAY BE OBTAINED ONLINE FOR A FEE AT WWW.ANSI.ORG.
5. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. TO PREVENT BARK TEARS, THE WEIGHT OF THE BRANCH SHALL BE REMOVED BEFORE MAKING FINAL PRUNING CUT.
6. ALL PRUNING SHALL PRESERVE THE NATURAL CHARACTER OF THE TREE.
7. ONLY COLLAR CUTS ARE ACCEPTABLE. NO FLUSH CUTS OR STUB CUTS WILL BE ALLOWED.
8. ALL BRANCHES THAT ARE BROKEN OR DAMAGED DURING CONSTRUCTION SHALL BE REMOVED.
9. PRUNING CUTS OR DAMAGED AREAS ON AN OAK TREE SHALL BE PAINTED WITHIN FIVE MINUTES WITH A STANDARD TREE WOUND DRESSING. TREE WOUND DRESSING SHALL BE EITHER TREEKOTE AEROSOL OR TANGLEFOOT PRUNING SEALER (OR APPROVED EQUAL). THIS ALSO APPLIES TO WOUNDS CREATED BY CONSTRUCTION VEHICLES OR EQUIPMENT. ALL PRUNING MUST BE IN ACCORDANCE WITH COA OAK WILT PREVENTION POLICY.
10. ANY TREE ROOTS THAT ARE EXPOSED, CUT, OR TORN DURING CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SURROUNDING SOIL. (REFER ALSO TO NUMBER 9 OF THE TREE AND NATURAL AREA PROTECTION NOTES INCLUDED IN THIS PLAN SET.)
11. ALL TRENCHING WITHIN THE CRITICAL ROOT ZONE OF A TREE TO BE PRESERVED WILL BE SAW CUT OR EXCAVATED BY HAND, AS APPROVED BY THE GENERAL PERMIT PROGRAM ARBORIST.
12. REFER TO ENVIRONMENTAL CRITERIA MANUAL APPENDIX P-6 FOR FURTHER REMEDIAL TREE CARE REQUIREMENTS. P-6 REMEDIAL TREE CARE WILL BE COORDINATED WITH AND APPROVED BY THE GENERAL PERMIT PROGRAM ARBORIST FOR PROJECTS PERMITTED THROUGH THE GENERAL PERMIT PROGRAM.

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CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION
**WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY**
TREE PROTECTION NOTES

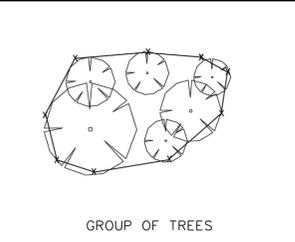
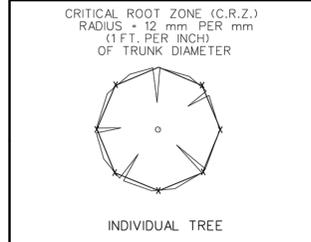
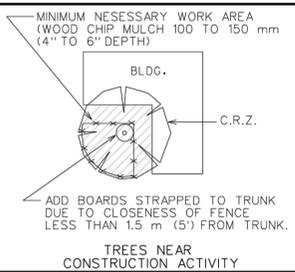
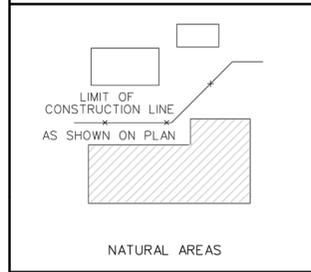
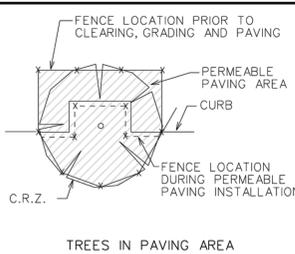
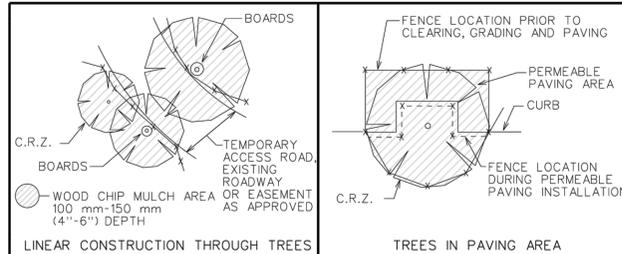


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| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

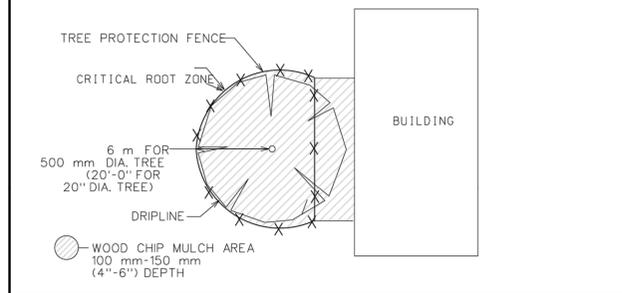
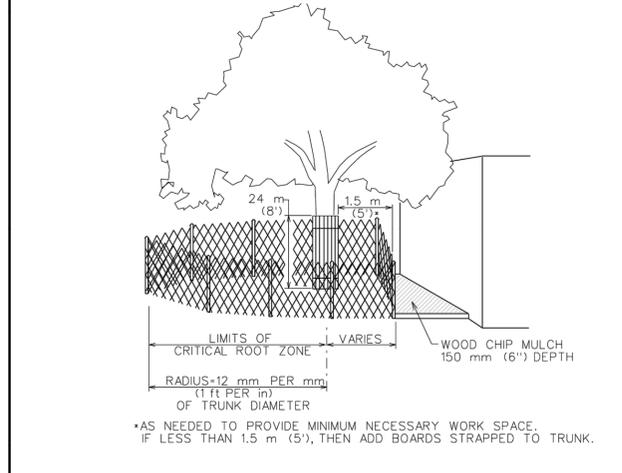
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CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT
RECORD COPY SIGNED BY J. PATRICK MURPHY 11/15/99 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
STANDARD NO. 610S-1



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT
RECORD COPY SIGNED BY J. PATRICK MURPHY 11/15/99 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
STANDARD NO. 610S-4

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STATE OF TEXAS
RUBEN LOPEZ, JR.
83745
PROFESSIONAL ENGINEER
April 20, 2018
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ, JR. LIC. # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

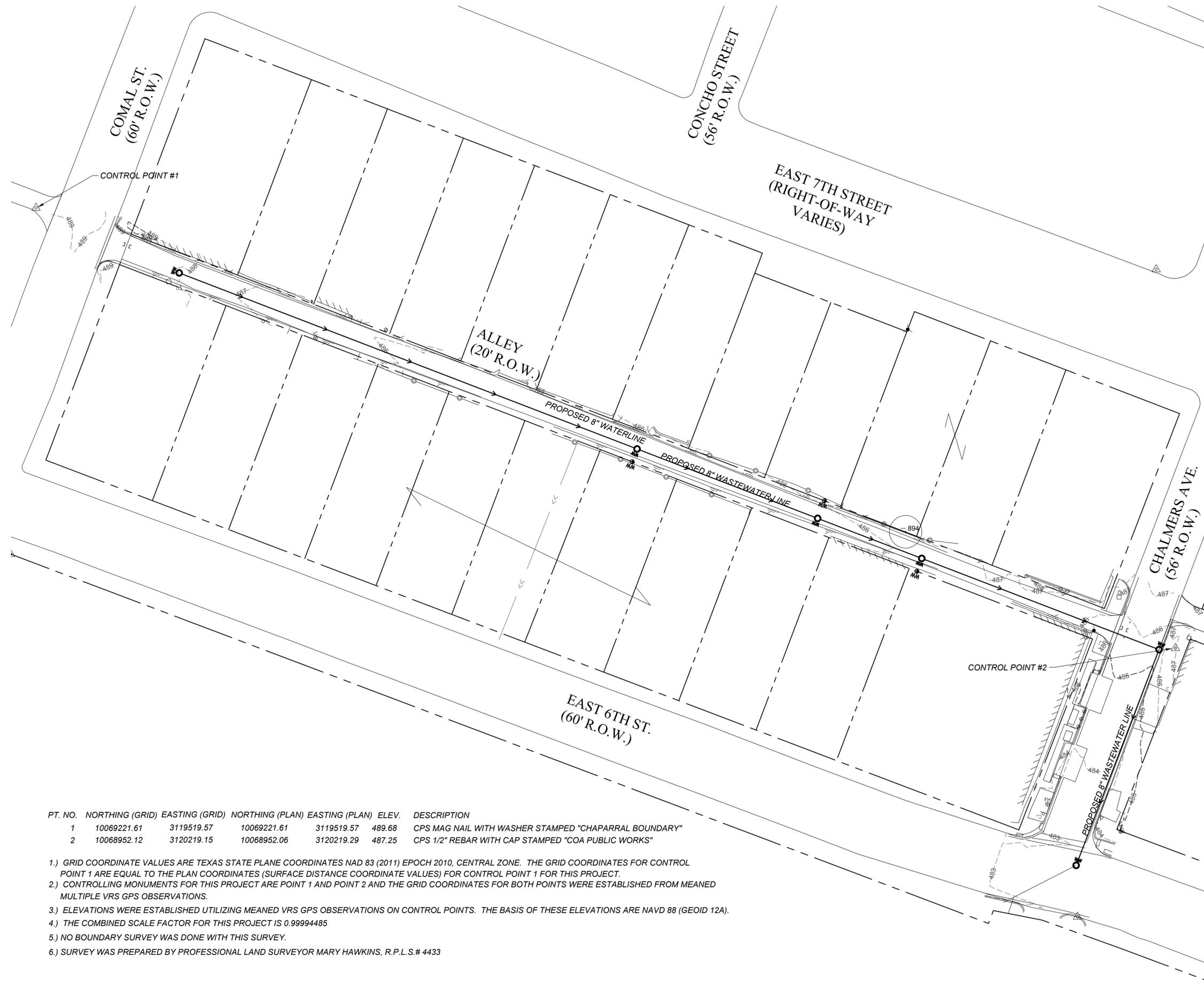
CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION
WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
CHALMERS AVE. & 6TH STREET ALLEY
TREE PROTECTION DETAILS



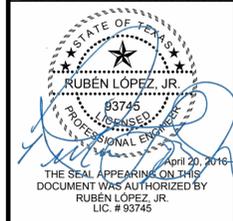
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| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

ESD
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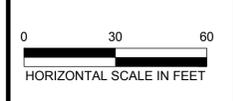


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CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION
WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY
 SURVEY AND OVERVIEW MAP



| NOTES | NAME | DATE |
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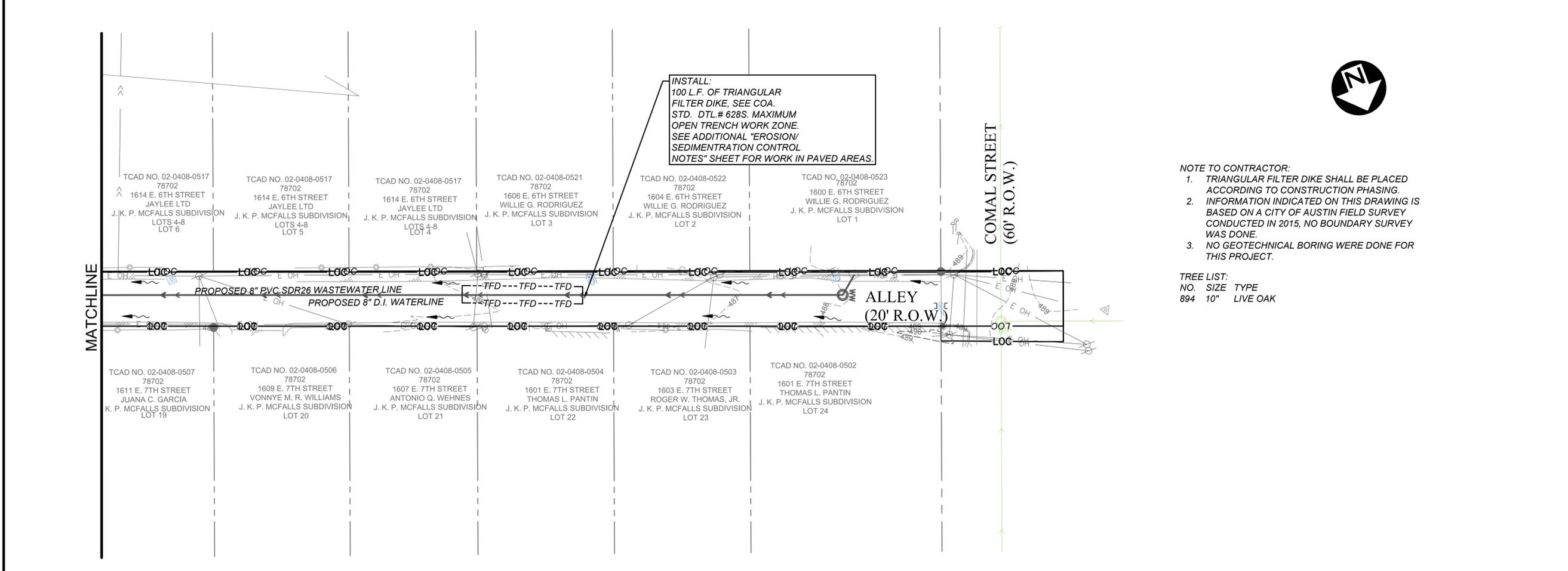
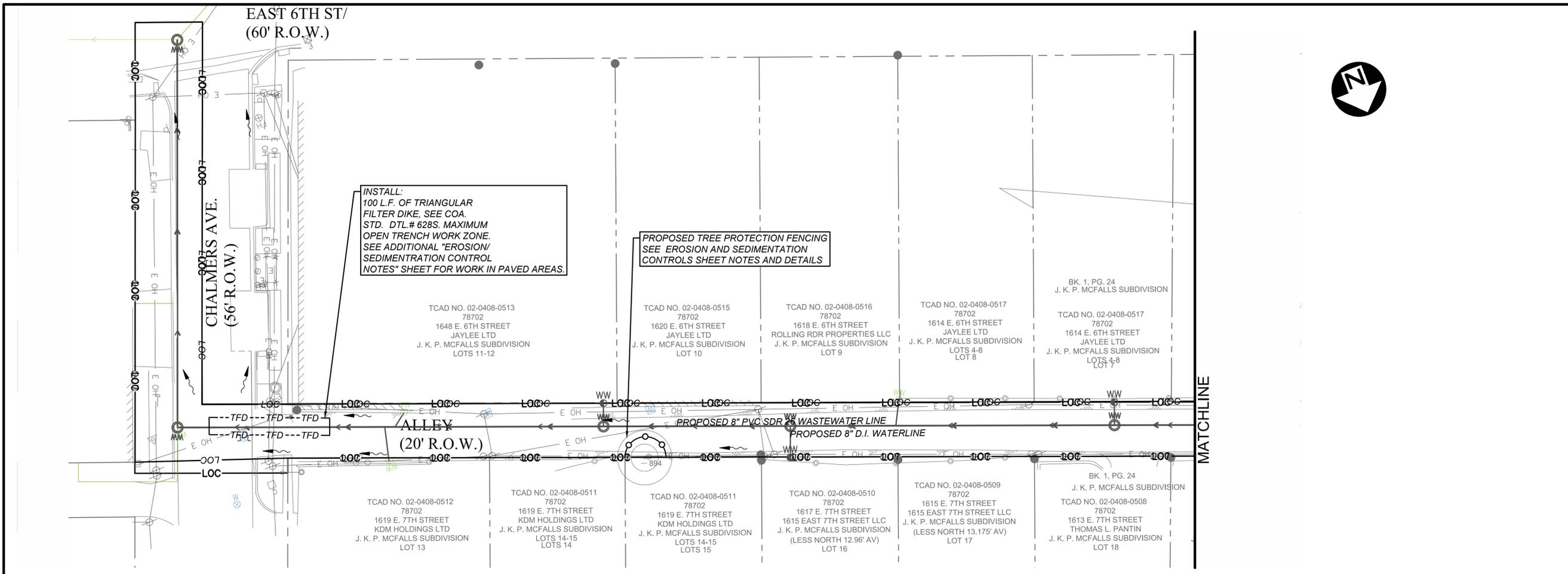


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| PT. NO. | NORTHING (GRID) | EASTING (GRID) | NORTHING (PLAN) | EASTING (PLAN) | ELEV. | DESCRIPTION |
|---------|-----------------|----------------|-----------------|----------------|--------|---|
| 1 | 10069221.61 | 3119519.57 | 10069221.61 | 3119519.57 | 489.68 | CPS MAG NAIL WITH WASHER STAMPED "CHAPARRAL BOUNDARY" |
| 2 | 10068952.12 | 3120219.15 | 10068952.06 | 3120219.29 | 487.25 | CPS 1/2" REBAR WITH CAP STAMPED "COA PUBLIC WORKS" |

- GRID COORDINATE VALUES ARE TEXAS STATE PLANE COORDINATES NAD 83 (2011) EPOCH 2010, CENTRAL ZONE. THE GRID COORDINATES FOR CONTROL POINT 1 ARE EQUAL TO THE PLAN COORDINATES (SURFACE DISTANCE COORDINATE VALUES) FOR CONTROL POINT 1 FOR THIS PROJECT.
- CONTROLLING MONUMENTS FOR THIS PROJECT ARE POINT 1 AND POINT 2 AND THE GRID COORDINATES FOR BOTH POINTS WERE ESTABLISHED FROM MEANED MULTIPLE VRS GPS OBSERVATIONS.
- ELEVATIONS WERE ESTABLISHED UTILIZING MEANED VRS GPS OBSERVATIONS ON CONTROL POINTS. THE BASIS OF THESE ELEVATIONS ARE NAVD 88 (GEOID 12A).
- THE COMBINED SCALE FACTOR FOR THIS PROJECT IS 0.99994485
- NO BOUNDARY SURVEY WAS DONE WITH THIS SURVEY.
- SURVEY WAS PREPARED BY PROFESSIONAL LAND SURVEYOR MARY HAWKINS, R.P.L.S.# 4433

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April 29, 2016
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ, JR., LIC. # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

**WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
CHALMERS AVE. & 6TH STREET ALLEY**

PROPOSED EROSION CONTROL PLAN

FOUNDED 1839

| NOTES | NAME | DATE |
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| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

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HORIZONTAL SCALE IN FEET

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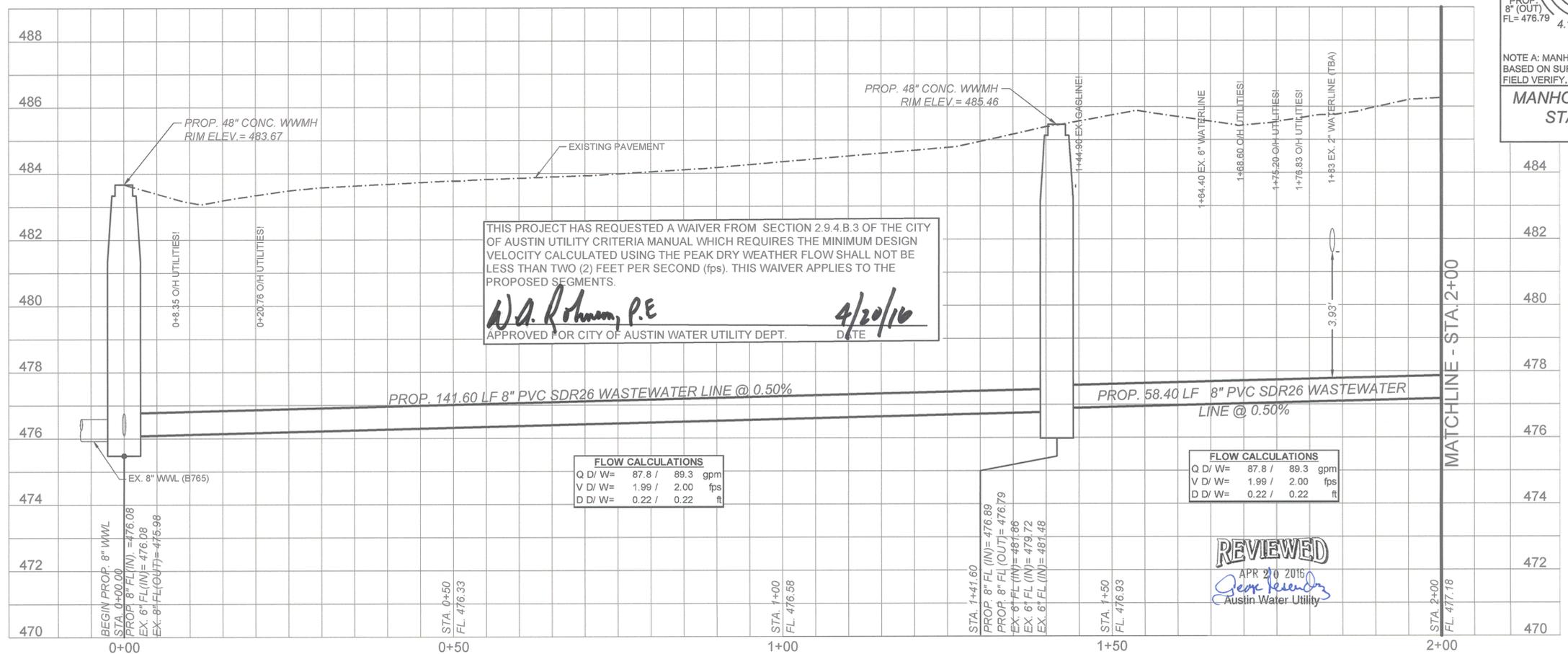
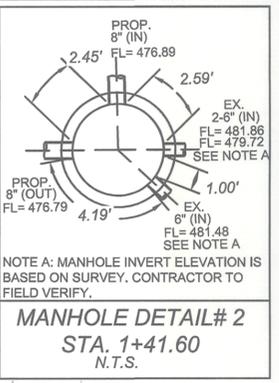
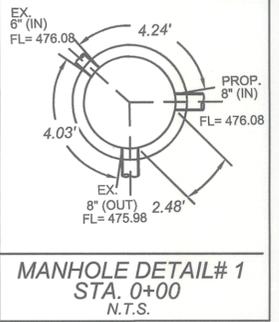
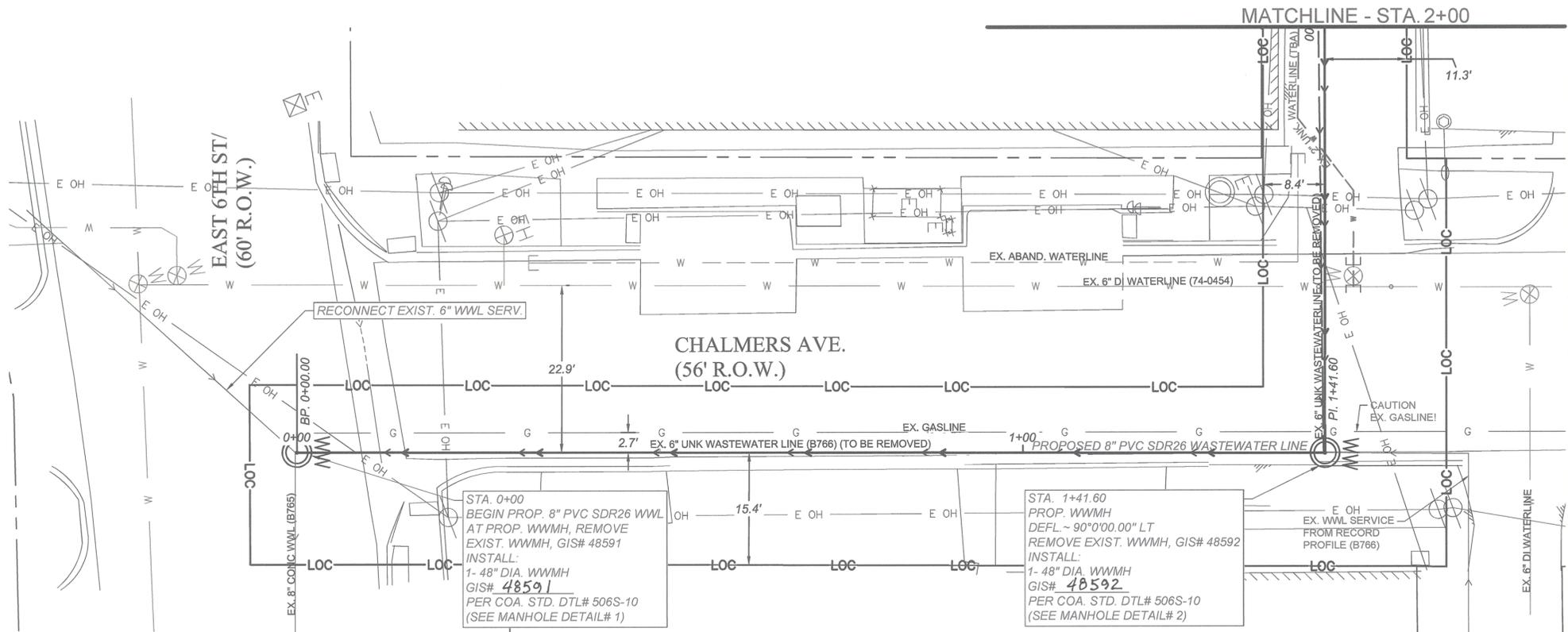
SHEET 10 OF 29



| RECORD REFERENCES | | |
|-------------------|-------------------------|-------------------------|
| MAPSCO NUMBER: | WASTEWATER PROFILE MAP: | WATER INTERSECTION MAP: |
| 585Y | B765 | 675 |
| | B766 | 1024 |

NOTE TO CONTRACTOR:

- CONTRACTOR SHALL UTILIZE COA STD. DTL. 1100S-2 FOR ALL TRENCH REPAIR.
- CONTRACTOR SHALL UTILIZE WASTEWATER DETAILS 520S-1B, 3, 3A, 3B, & 520S-6 FOR PROPOSED WW SERVICES.
- ALL ACTIVE SERVICES WILL BE RECONNECTED. CONTRACTOR AND CITY TO EVALUATE EACH SERVICE PRIOR TO RECONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY ALL WW SERVICES FOR LOTS ABUTTING ALLEY. ONLY THOSE SERVICES WITH VISIBLE CLEANOUTS WERE LOCATED BY SURVEY. THERE ARE NO WW LINES IN BOTH 6TH AND 7TH STREETS.



| REVISION DESCRIPTION | REV. NO. | DATE |
|----------------------|----------|------|
| | | |
| | | |

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ, JR. LIC. # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION

WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY

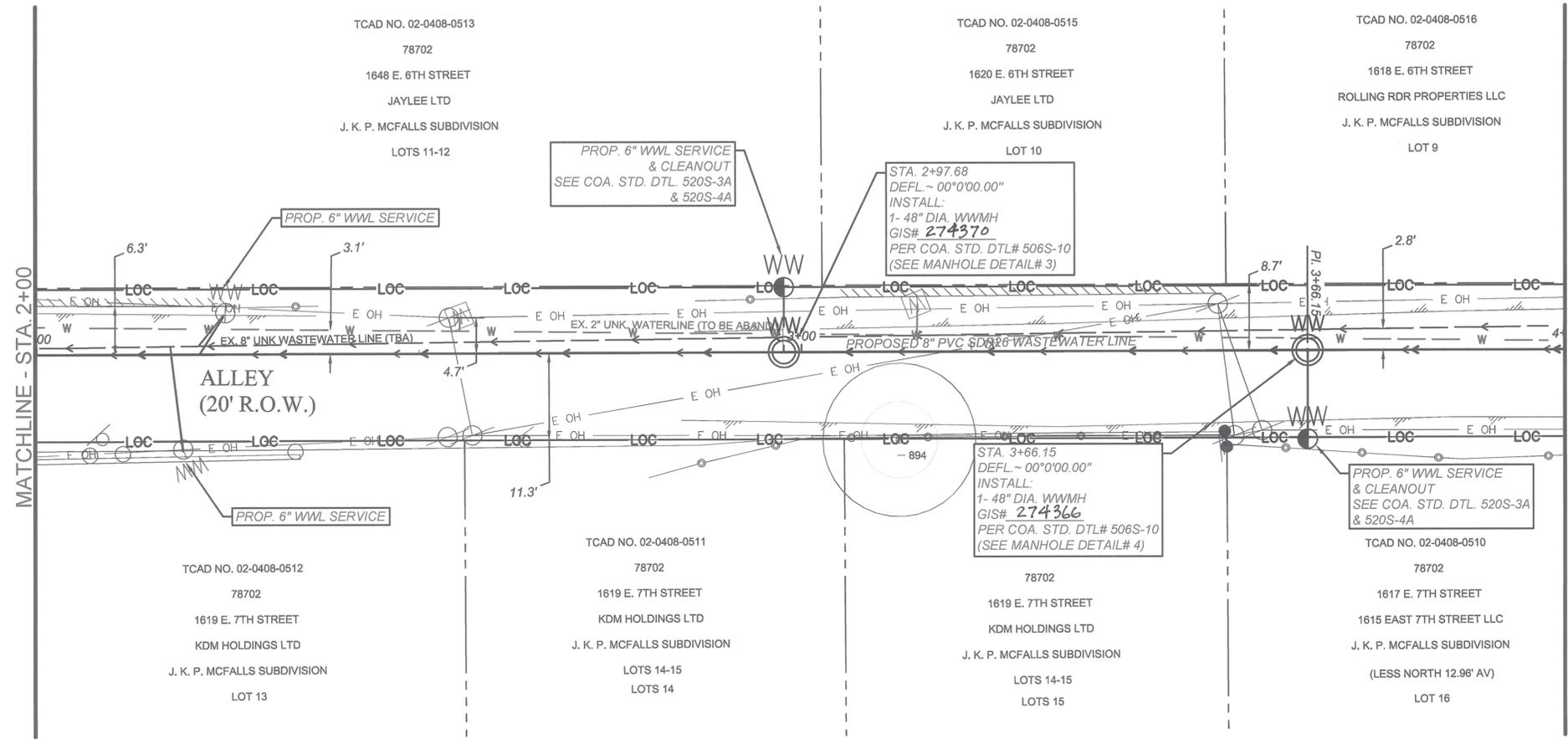
PROPOSED 8-INCH WASTEWATERLINE
 STA. 0+00 - STA. 2+00

| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

0 10 20
 HORIZONTAL SCALE IN FEET
 0 2 4
 VERTICAL SCALE IN FEET

GP-2015-0264.AWU

SHEET 11 OF 29



| RECORD REFERENCES | | |
|-------------------|-------------------------|-------------------------|
| MAPSCO NUMBER: | WASTEWATER PROFILE MAP: | WATER INTERSECTION MAP: |
| 585Y | B766 | ~ |

NOTE TO CONTRACTOR:

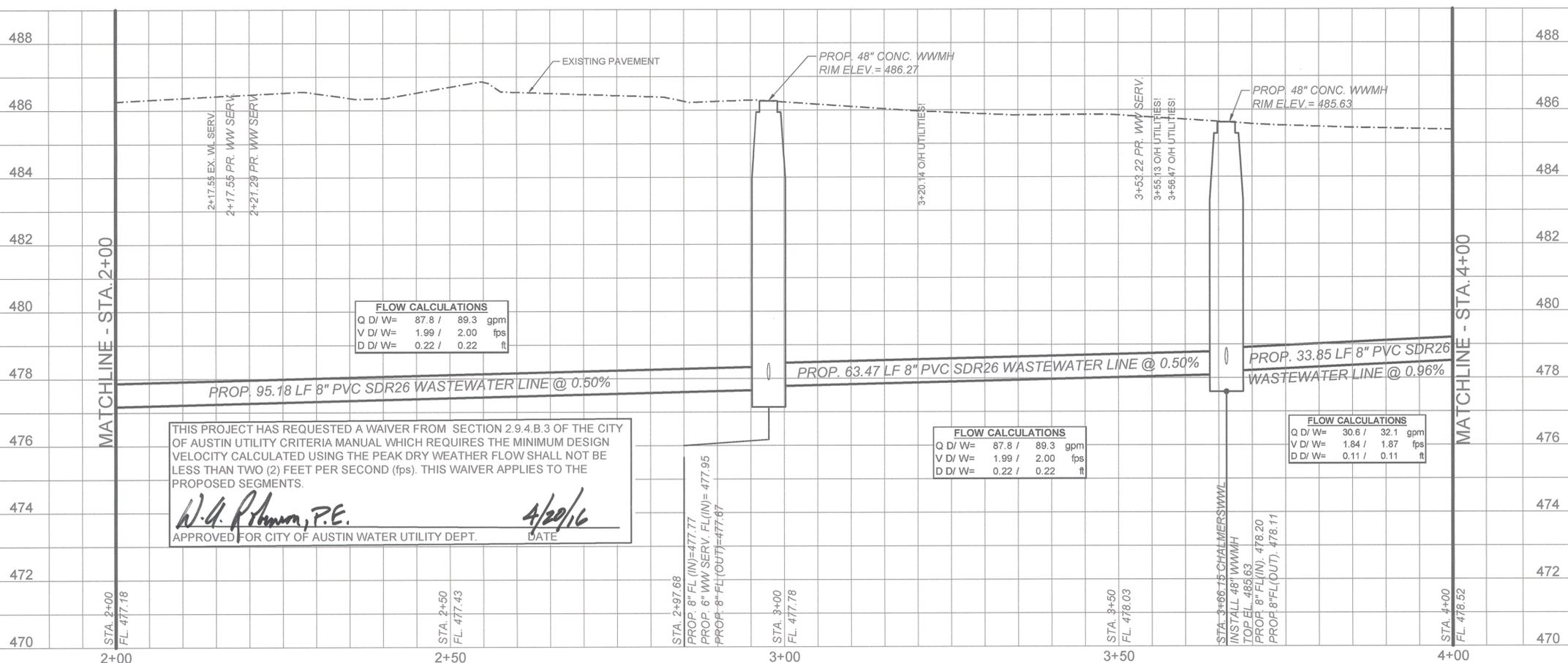
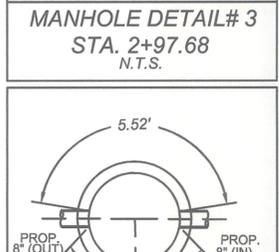
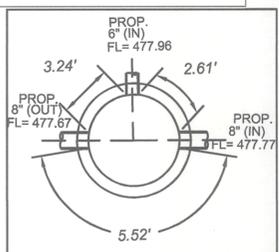
- CONTRACTOR SHALL UTILIZE COA STD. DTL. 1100S-2 FOR ALL TRENCHING
- CONTRACTOR SHALL UTILIZE WASTEWATER DETAILS 520S-1B, 3, 3A, 3B, & 520S-6 FOR PROPOSED WW SERVICES.
- ALL ACTIVE SERVICES WILL BE RECONNECTED. CONTRACTOR AND CITY TO EVALUATE EACH SERVICE PRIOR TO RECONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY ALL WW SERVICES FOR LOTS ABUTTING ALLEY. ONLY THOSE SERVICES WITH VISIBLE CLEANOUTS WERE LOCATED BY SURVEY. THERE ARE NO WW LINES IN BOTH 6TH AND 7TH STREETS.

REVISION DESCRIPTION

| REV. NO. | DATE | DESCRIPTION |
|----------|------|-------------|
| | | |
| | | |
| | | |

STATE OF TEXAS
 RUBÉN LÓPEZ, JR.
 93745
 PROFESSIONAL ENGINEER
 APR 19, 2016
 THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBÉN LÓPEZ, JR. LIC. # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.



THIS PROJECT HAS REQUESTED A WAIVER FROM SECTION 2.9.4.B.3 OF THE CITY OF AUSTIN UTILITY CRITERIA MANUAL WHICH REQUIRES THE MINIMUM DESIGN VELOCITY CALCULATED USING THE PEAK DRY WEATHER FLOW SHALL NOT BE LESS THAN TWO (2) FEET PER SECOND (fps). THIS WAIVER APPLIES TO THE PROPOSED SEGMENTS.

W. G. Peltzman, P.E.
 APPROVED FOR CITY OF AUSTIN WATER UTILITY DEPT. DATE: 4/20/16

REVIEWED
 APR 20 2016
Scott Jensen
 Austin Water Utility

CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION

WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY

PROPOSED 8-INCH WASTEWATERLINE
 STA. 2+00 - STA. 4+00

CITY OF AUSTIN
 FOUNDED 1839

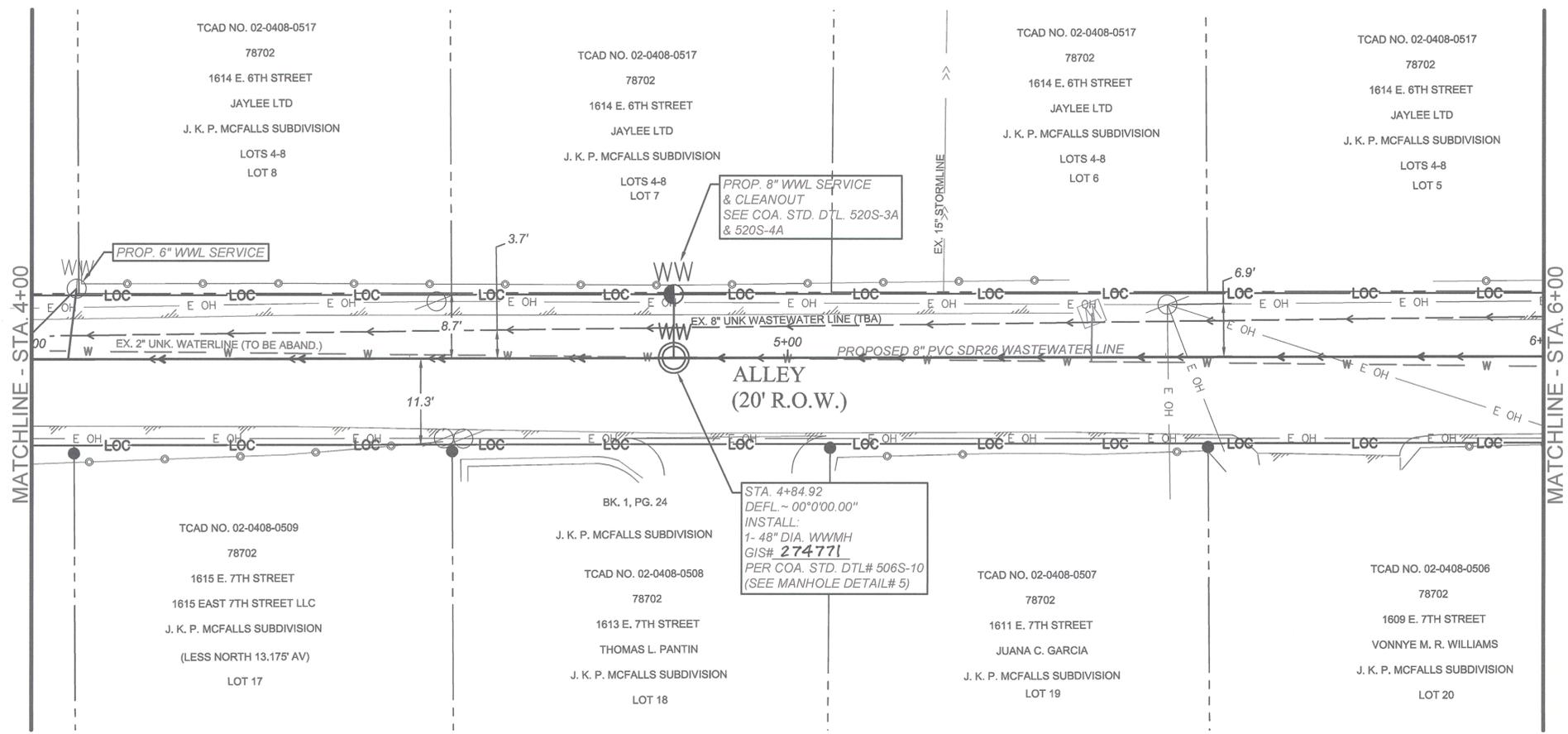
| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

0 10 20
 HORIZONTAL SCALE IN FEET

0 2 4
 VERTICAL SCALE IN FEET

GP-2015-0264.AWU

SHEET 12 OF 29

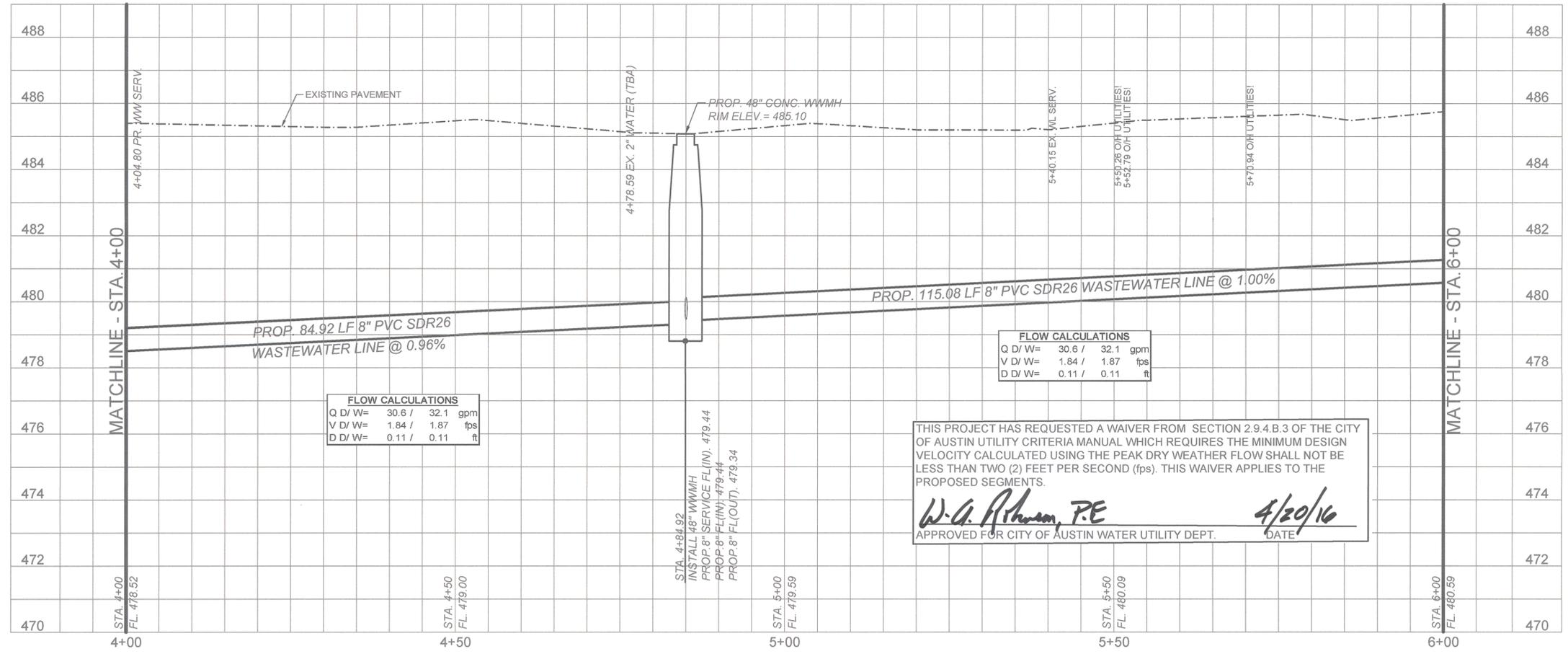
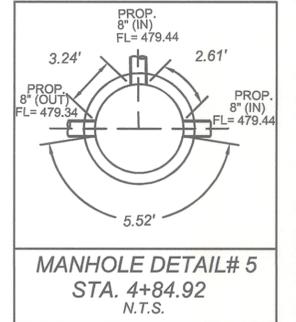


RECORD REFERENCES

| MAPSCO NUMBER: | WASTEWATER PROFILE MAP: | WATER INTERSECTION MAP: |
|----------------|-------------------------|-------------------------|
| 585Y | B766 | ~ |

NOTE TO CONTRACTOR:

- CONTRACTOR SHALL UTILIZE COA STD. DTL. 1100S-2 FOR ALL TRENCHING
- CONTRACTOR SHALL UTILIZE WASTEWATER DETAILS 520S-1B, 3, 3A, 3B, & 520S-6 FOR PROPOSED WW SERVICES.
- ALL ACTIVE SERVICES WILL BE RECONNECTED. CONTRACTOR AND CITY TO EVALUATE EACH SERVICE PRIOR TO RECONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY ALL WW SERVICES FOR LOTS ABUTTING ALLEY. ONLY THOSE SERVICES WITH VISIBLE CLEANOUTS WERE LOCATED BY SURVEY. THERE ARE NO WW LINES IN BOTH 6TH AND 7TH STREETS.



THIS PROJECT HAS REQUESTED A WAIVER FROM SECTION 2.9.4.B.3 OF THE CITY OF AUSTIN UTILITY CRITERIA MANUAL WHICH REQUIRES THE MINIMUM DESIGN VELOCITY CALCULATED USING THE PEAK DRY WEATHER FLOW SHALL NOT BE LESS THAN TWO (2) FEET PER SECOND (fps). THIS WAIVER APPLIES TO THE PROPOSED SEGMENTS.

W.G. Johnson, P.E. **4/20/16**
APPROVED FOR CITY OF AUSTIN WATER UTILITY DEPT. DATE

REVIEWED
APR 20 2016
Gene Resendez
Austin Water Utility

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
CHALMERS AVE. & 6TH STREET ALLEY

PROPOSED 8-INCH WASTEWATERLINE
STA. 4+00 - STA. 6+00

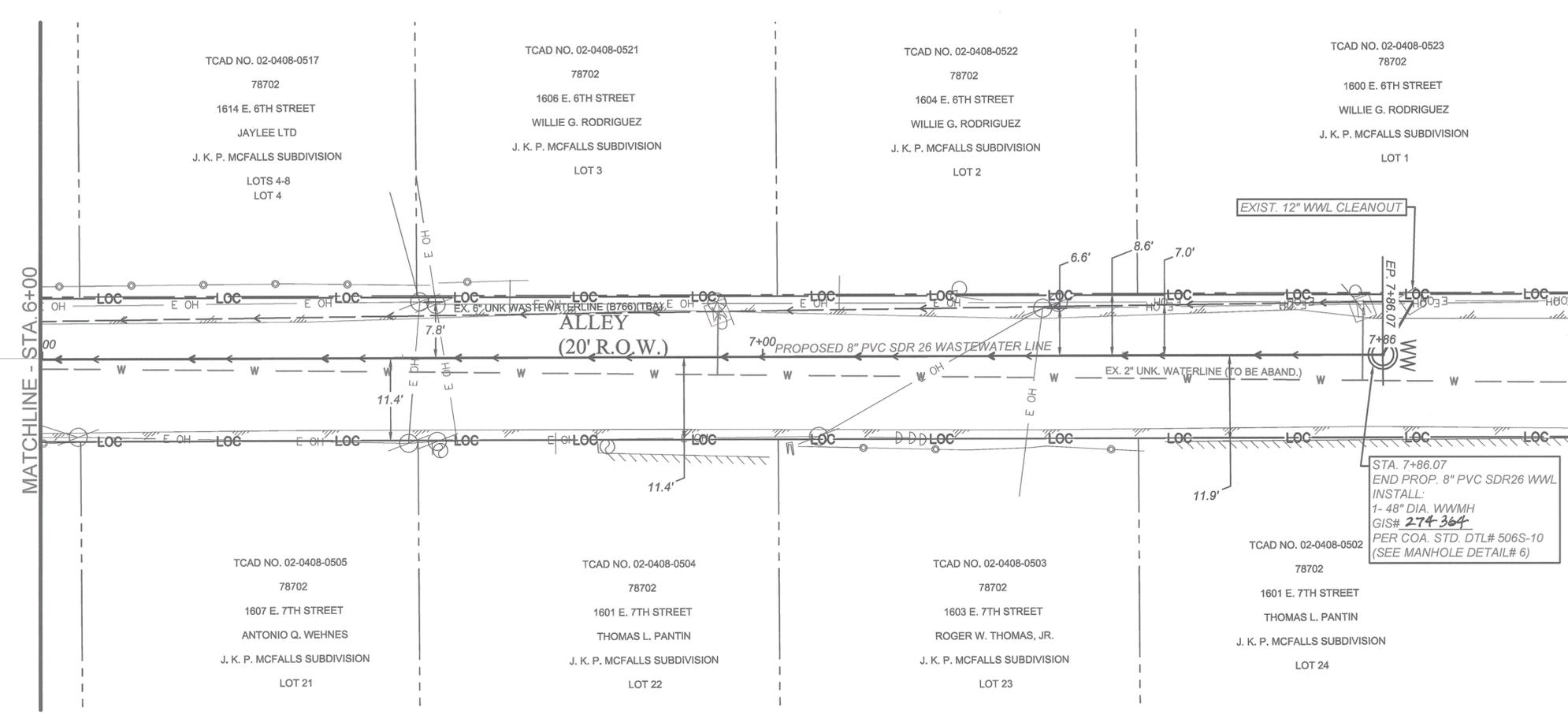
| REVISION DESCRIPTION | DATE | REV BY | NO. |
|----------------------|------|--------|-----|
| | | | |

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ, JR., LIC. # 83745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

GP-2015-0264.AWU

SHEET 13 OF 29

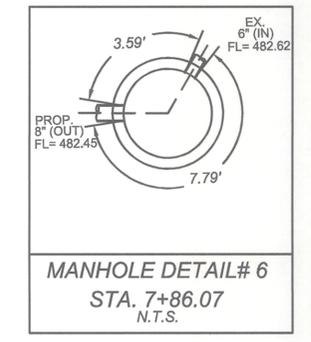


RECORD REFERENCES

| MAPSCO NUMBER: | WASTEWATER PROFILE MAP: | WATER INTERSECTION MAP: |
|----------------|-------------------------|-------------------------|
| 585Y | B766 | 1014 |

NOTE TO CONTRACTOR:

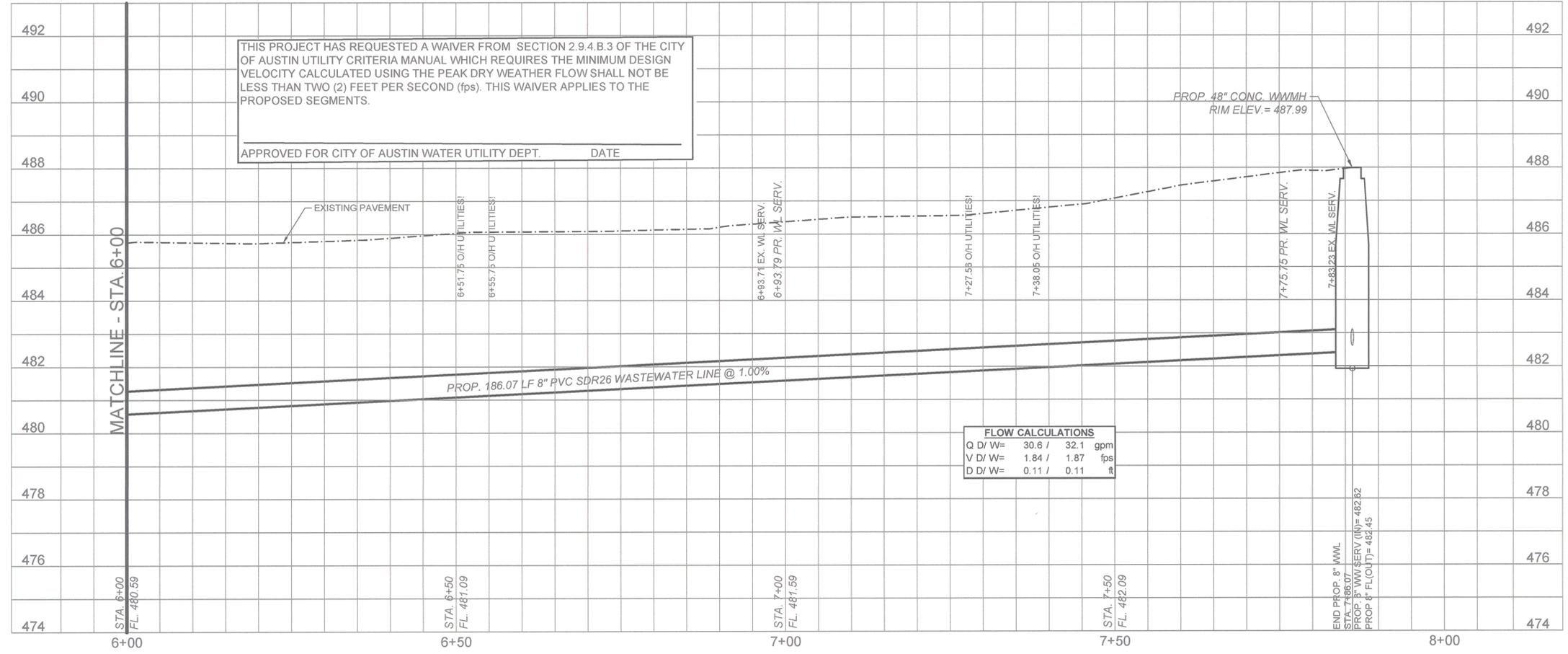
- CONTRACTOR SHALL UTILIZE COA STD. DTL. 1100S-2 FOR ALL TRENCHING
- CONTRACTOR SHALL UTILIZE WASTEWATER DETAILS 520S-1B, 3, 3A, 3B, & 520S-6 FOR PROPOSED WW SERVICES.
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STA. 7+86.07
 END PROP. 8" PVC SDR26 WWL
 INSTALL:
 1- 48" DIA. WWMH
 GIS# 274364
 PER COA. STD. DTL# 506S-10
 (SEE MANHOLE DETAIL# 6)

THIS PROJECT HAS REQUESTED A WAIVER FROM SECTION 2.9.4.B.3 OF THE CITY OF AUSTIN UTILITY CRITERIA MANUAL WHICH REQUIRES THE MINIMUM DESIGN VELOCITY CALCULATED USING THE PEAK DRY WEATHER FLOW SHALL NOT BE LESS THAN TWO (2) FEET PER SECOND (fps). THIS WAIVER APPLIES TO THE PROPOSED SEGMENTS.

APPROVED FOR CITY OF AUSTIN WATER UTILITY DEPT. _____ DATE _____



FLOW CALCULATIONS

| | | | |
|-----------|--------|------|-----|
| Q D / W = | 30.6 / | 32.1 | gpm |
| V D / W = | 1.84 / | 1.87 | fps |
| D D / W = | 0.11 / | 0.11 | ft |

REVIEWED
 APR 2 2016
Geoff Kessinger
 Austin Water Utility

REVISION DESCRIPTION

| REV. NO. | DATE | DESCRIPTION |
|----------|------|-------------|
| | | |

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ, JR. LIC. # 93745

APR 19 2016

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION

WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY

PROPOSED 8-INCH WASTEWATER LINE
 STA. 6+00 - END

| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

HORIZONTAL SCALE IN FEET

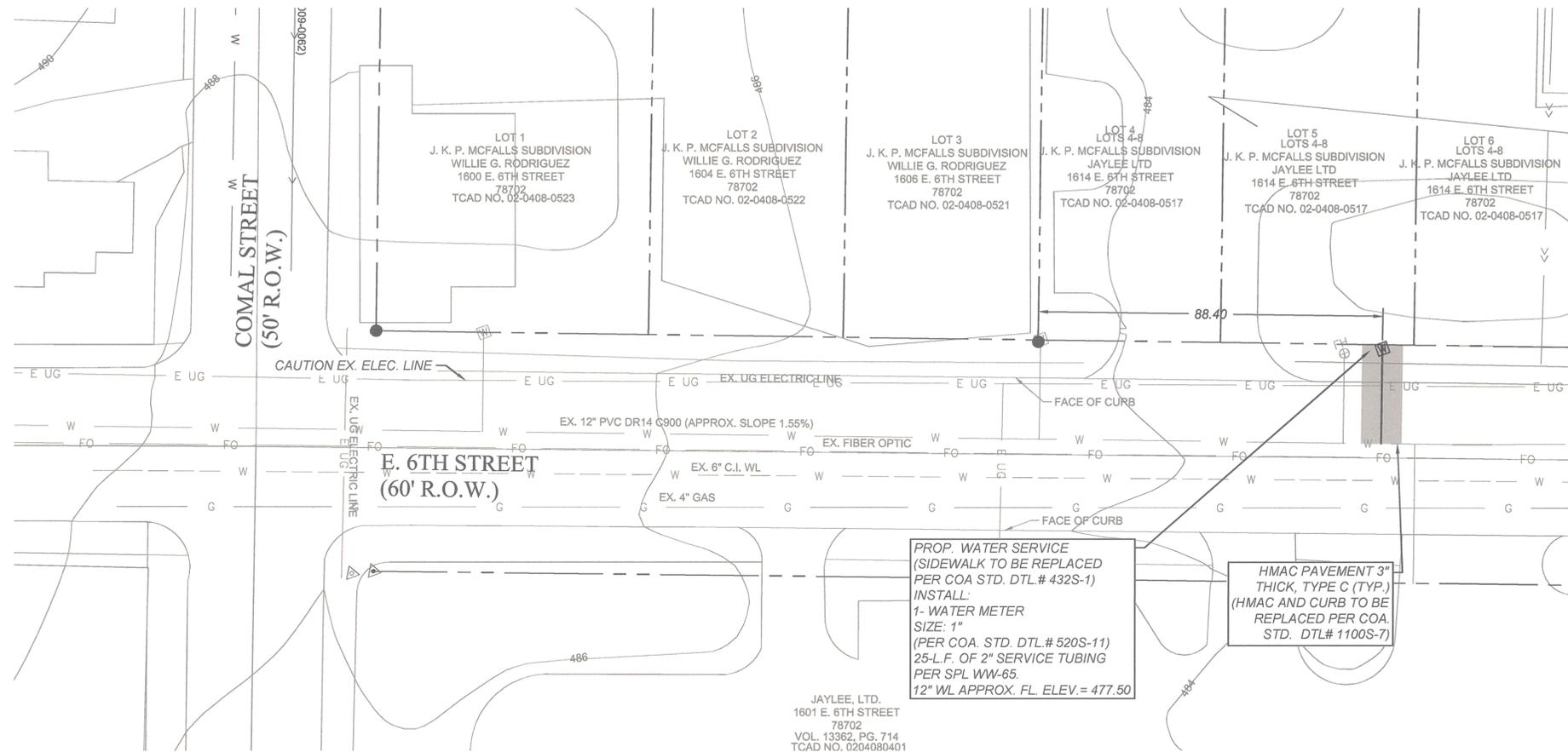
VERTICAL SCALE IN FEET

GP-2015-0264.AWU

SHEET 14 OF 29

N:\TEAM\AWU\WW RELAY\802_CHALMERS AVE. & ALLEY\DWG\PRODUCTION FILES\DWG\CHALC-AWU\PR01.DWG; COA_PDF_22634_COA_ESD0181

LOPEZ, RUBEN



| RECORD REFERENCES | | |
|-------------------|-------------------------|-------------------------|
| MAPSCO NUMBER: | WASTEWATER PROFILE MAP: | WATER INTERSECTION MAP: |
| 585Y | B786 | 1023 |

CONTRACTOR TO FIELD VERIFY ALL ACTIVE WATER SERVICES AND RECONNECT ALL ACTIVE WATER SERVICES TO EXIST. 12" PVC DR14 C900 WATERLINE

INFORMATION INDICATED ON THIS DRAWING IS BASED ON CITY OF AUSTIN PLANIMETRICS CONDUCTED IN 2013.

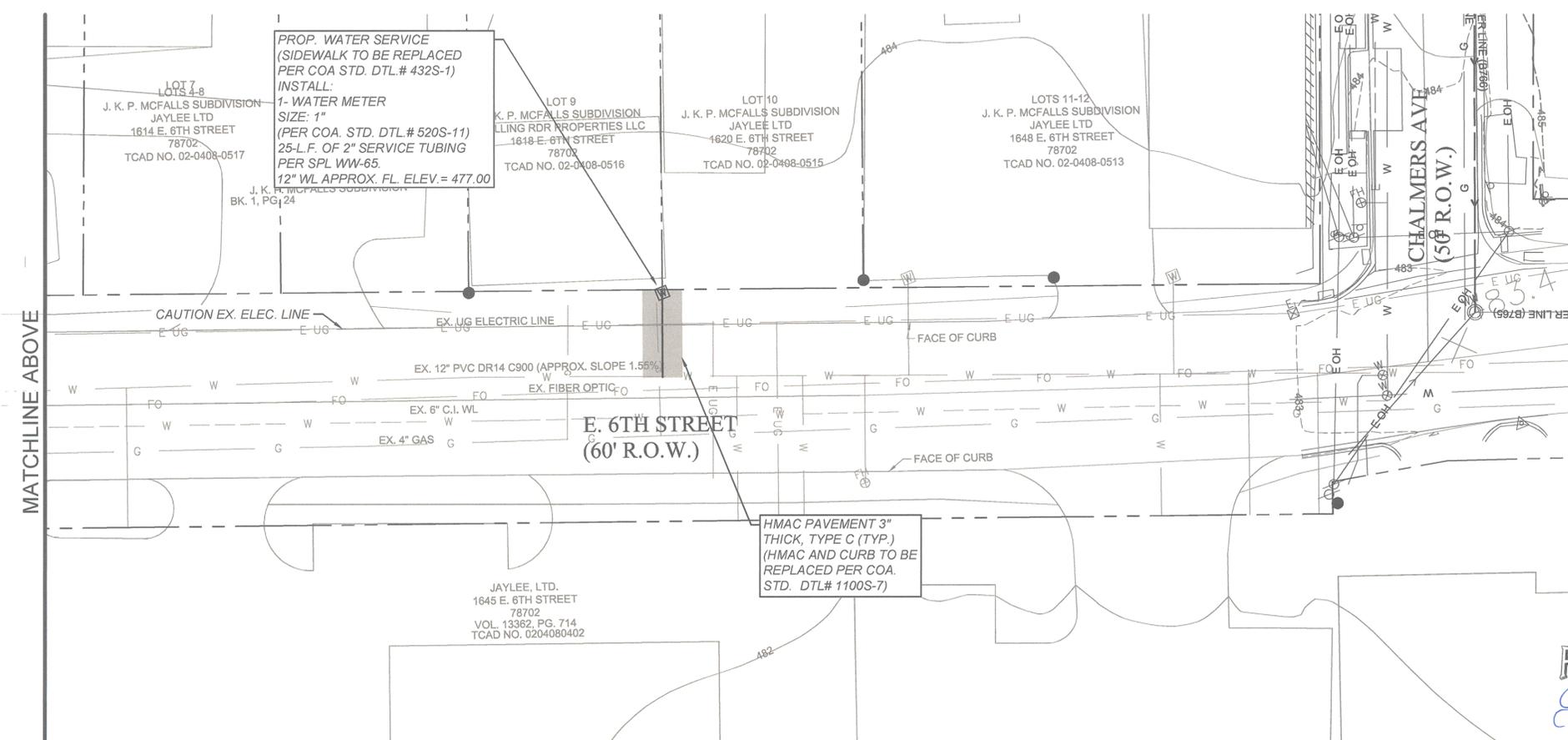
EXISTING 12" FLOWLINE ELEVATIONS ARE APPROXIMATED OFF OF GENERAL PERMIT CASE# GP-2011-0120.AWU

REVISION DESCRIPTION

| REV. NO. | DATE | DESCRIPTION |
|----------|------|-------------|
| | | |

STATE OF TEXAS
RUBEN LOPEZ, JR.
93745
PROFESSIONAL ENGINEER
APR 14 2016
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ, JR. LIC. # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.



| RECORD REFERENCES | | |
|-------------------|-------------------------|-------------------------|
| MAPSCO NUMBER: | WASTEWATER PROFILE MAP: | WATER INTERSECTION MAP: |
| 585Y | B766 | 1024 |
| | B765 | |

CONTRACTOR TO FIELD VERIFY ALL ACTIVE WATER SERVICES AND RECONNECT ALL ACTIVE WATER SERVICES TO EXIST. 12" PVC DR14 C900 WATERLINE

INFORMATION INDICATED ON THIS DRAWING IS BASED ON CITY OF AUSTIN PLANIMETRICS CONDUCTED IN 2013.

EXISTING 12" FLOWLINE ELEVATIONS ARE APPROXIMATED OFF OF GENERAL PERMIT CASE# GP-2011-0120.AWU

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

**WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
CHALMERS AVE. & 6TH STREET ALLEY**

PROPOSED WATER SERVICE CONNECTION

CITY OF AUSTIN
FOUNDED 1839

| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | DA | 08/15 |
| DESIGNED BY | RL | 08/15 |
| REVIEWED BY | ESD | 09/15 |

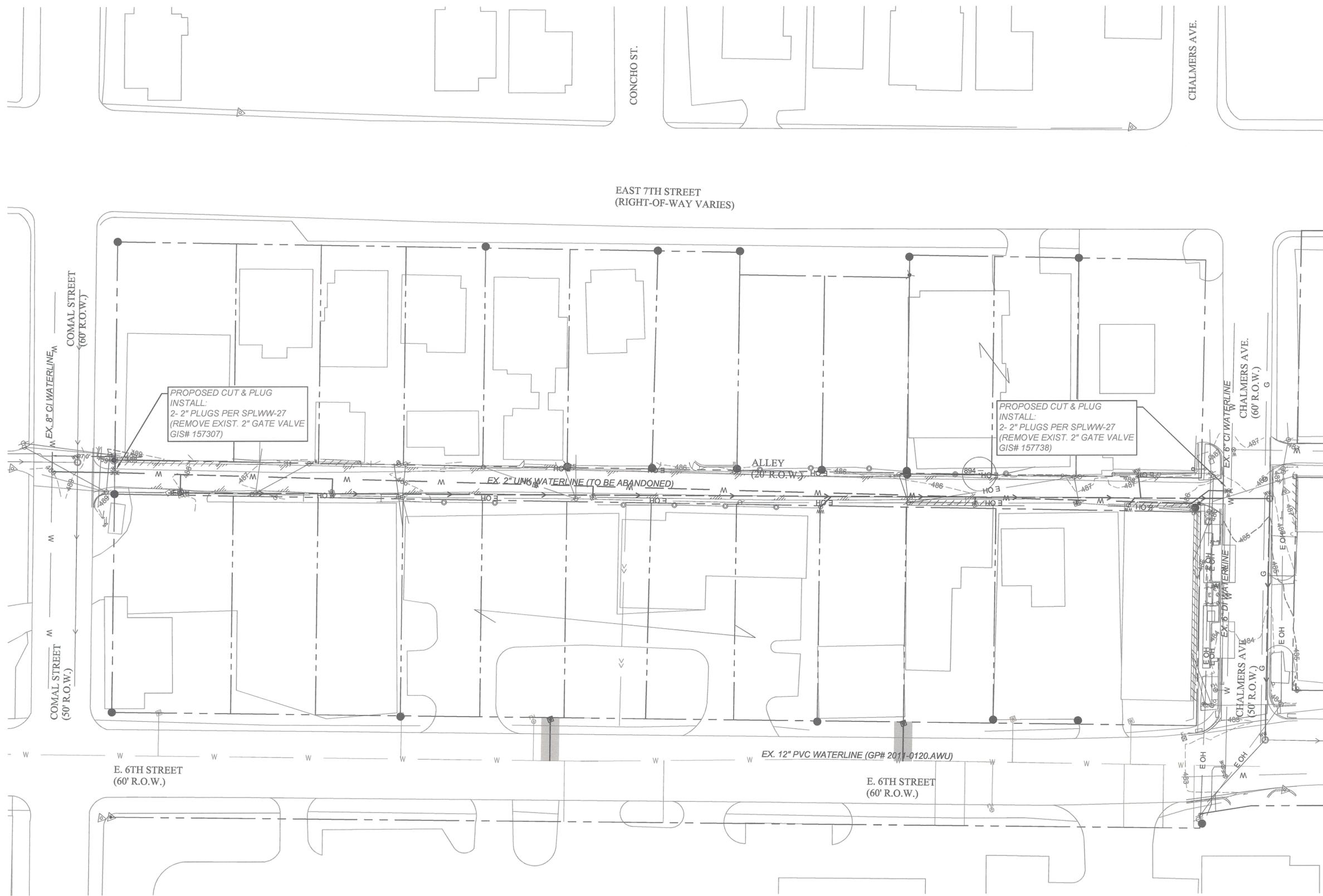
0 20 40
HORIZONTAL SCALE IN FEET

GP-2015-0264.AWU

SHEET 15 OF 29

4/19/2016 2:33 PM

REVIEWED
APR 20 2016
Austin Water Utility



PROPOSED CUT & PLUG
INSTALL:
2- 2" PLUGS PER SPLWW-27
(REMOVE EXIST. 2" GATE VALVE
GIS# 157307)

PROPOSED CUT & PLUG
INSTALL:
2- 2" PLUGS PER SPLWW-27
(REMOVE EXIST. 2" GATE VALVE
GIS# 157738)

REVIEWED
APR 20 2016
George Resendiz
Austin Water Utility

| REV. NO. | BY | DATE | REVISION DESCRIPTION |
|----------|----|------|----------------------|
| | | | |
| | | | |

STATE OF TEXAS
RUBÉN LÓPEZ, JR.
93745
Professional Engineer
April 19, 2016
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBÉN LÓPEZ, JR. LIC. # 93745
I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION
WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
CHALMERS AVE. & 6TH STREET ALLEY
PROPOSED 2-INCH WATERLINE ABANDONMENT



| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | DA | 08/15 |
| DESIGNED BY | RL | 08/15 |
| REVIEWED BY | ESD | 09/15 |



GP-2015-0264.AWU

N:\EAM\AWU\WW RELAY\982_CHALMERS AVE & ALLEY\DWG\PRODUCTION\FILES\DWG\CHAL-C-WA-6TH-PPR01.DWG; COA_PDF_22304_COA_ESD.SB

| REV. NO. | REV. BY | DATE | REVISION DESCRIPTION |
|----------|---------|------|----------------------|
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STATE OF TEXAS
 RUBEN LOPEZ, JR.
 93745
 PROFESSIONAL ENGINEER
 APR 19 2016
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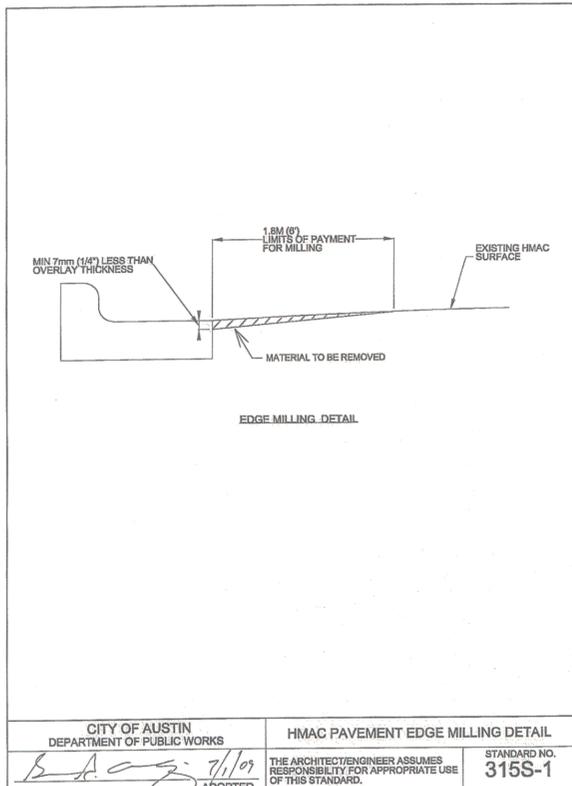
CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION
 WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY
 GENERAL CONSTRUCTION DETAILS SHEET 1



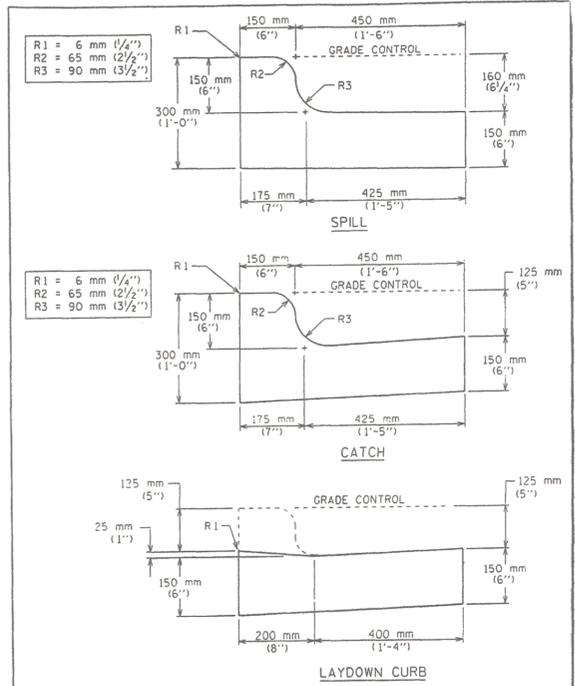
| NOTES | NAME | DATE |
|-------|------|------|
| | | |
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| | | |

N.T.S.

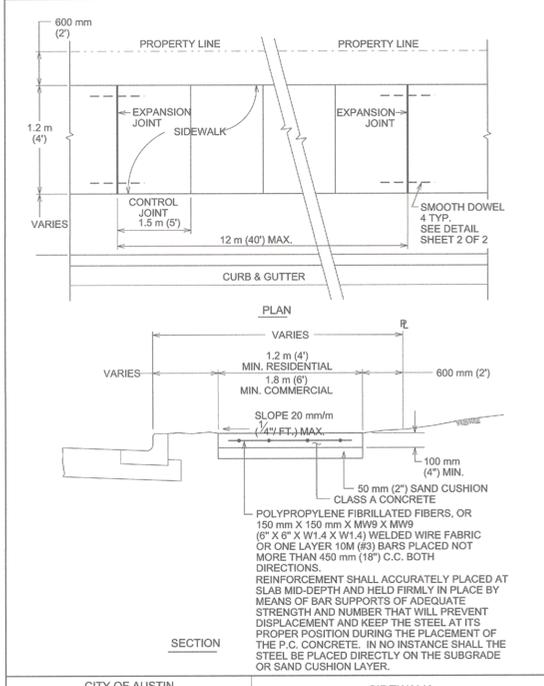
GP-2015-0264.AWU



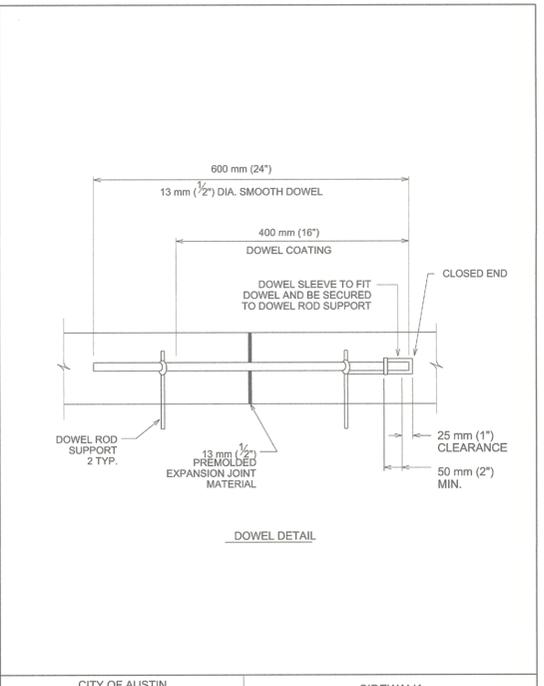
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | HMA/C PAVEMENT EDGE MILLING DETAIL | STANDARD NO. 315S-1 |
|---|---|------------------------|
| RECORD COPY SIGNED BY BILL GARDNER 03/26/08 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | 3 OF 3 |



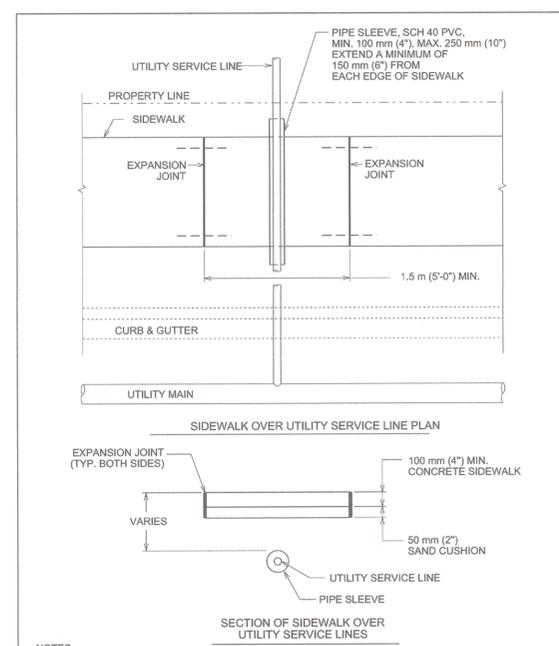
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION | CURB AND GUTTER SECTION | STANDARD NO. 430S-1 |
|---|---|------------------------|
| RECORD COPY SIGNED BY LEON LUCIA 9/29/09 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | 1 OF 1 |



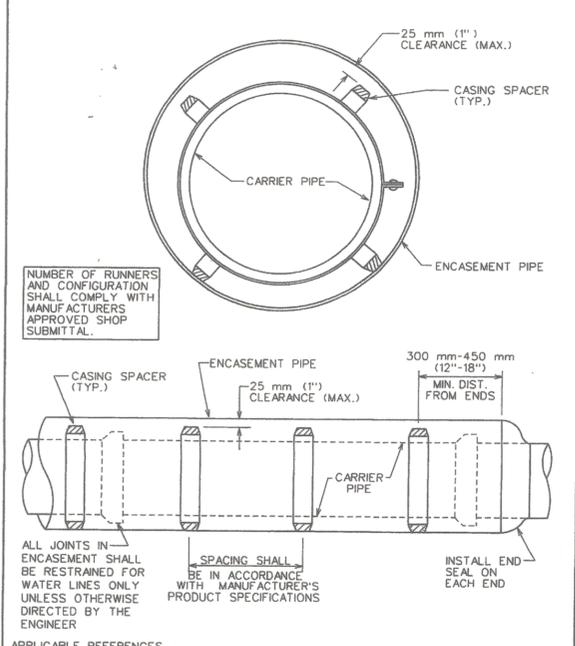
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | SIDEWALK | STANDARD NO. 432S-1 |
|---|---|------------------------|
| RECORD COPY SIGNED BY BILL GARDNER 03/26/08 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | 1 OF 3 |



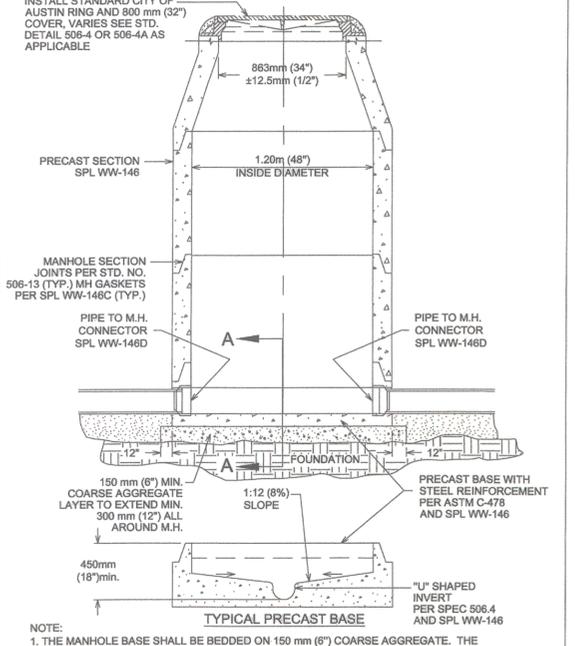
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | SIDEWALK | STANDARD NO. 432S-1 |
|---|---|------------------------|
| RECORD COPY SIGNED BY BILL GARDNER 03/26/08 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | 2 OF 3 |



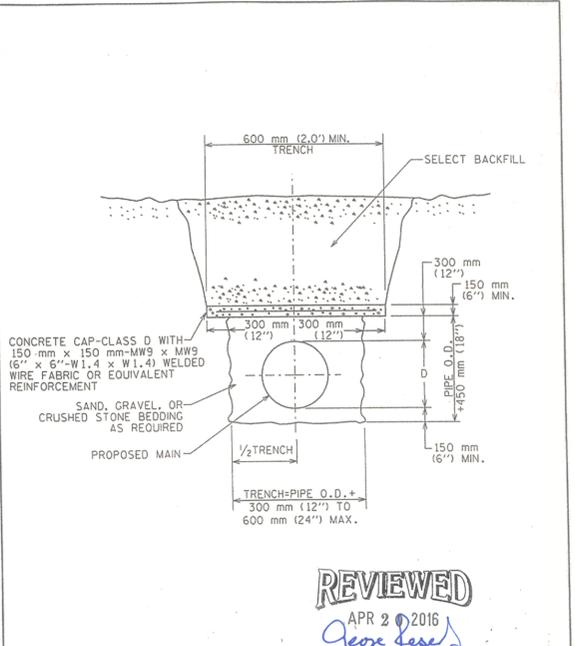
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | SIDEWALK | STANDARD NO. 432S-1 |
|---|---|------------------------|
| RECORD COPY SIGNED BY BILL GARDNER 03/26/08 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | 3 OF 3 |



| CITY OF AUSTIN AUSTIN WATER UTILITY | ENCASEMENT DETAIL W/ CASING SPACERS | STANDARD NO. 501S-1 |
|--|---|------------------------|
| RECORD COPY SIGNED BY KATHI R. BROWN 2/20/10 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | 1 OF 1 |

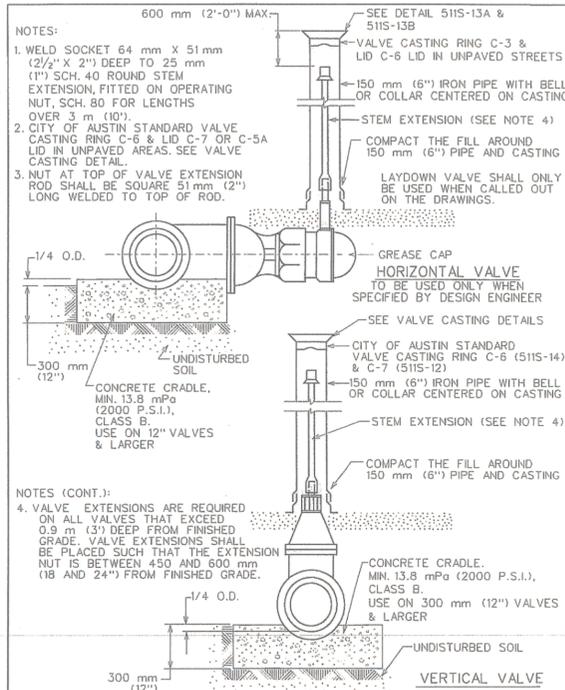


| CITY OF AUSTIN AUSTIN WATER UTILITY | WASTEWATER MANHOLE ON PRECAST BASE | STANDARD NO. 506S-10 |
|--|---|-------------------------|
| RECORD COPY SIGNED BY KATHI R. BROWN 2/20/10 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | 1 OF 1 |

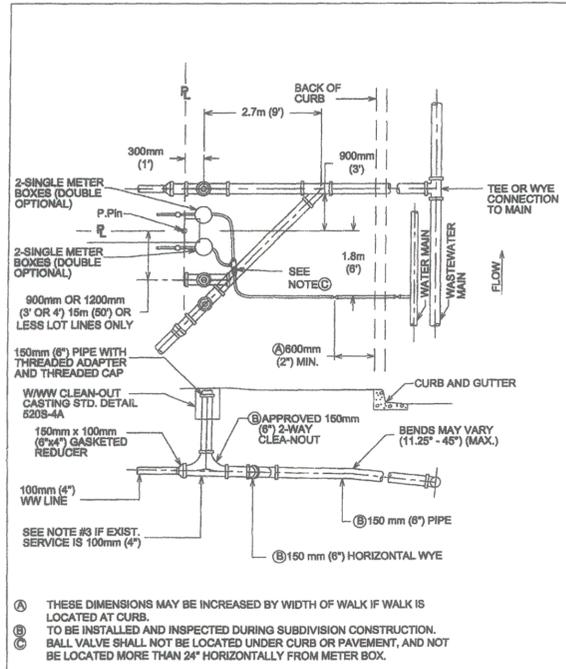


| CITY OF AUSTIN WATER AND WASTEWATER UTILITY | CONCRETE TRENCH CAP | STANDARD NO. 510S-1 |
|--|---|------------------------|
| RECORD COPY SIGNED BY KATHI R. BROWN 2/20/10 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | 1 OF 1 |

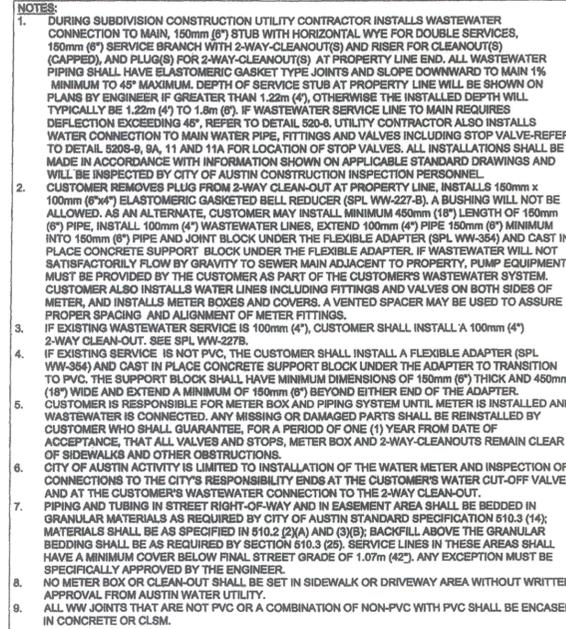
REVIEWED
 APR 2 2016
 George Bass
 Austin Water Utility



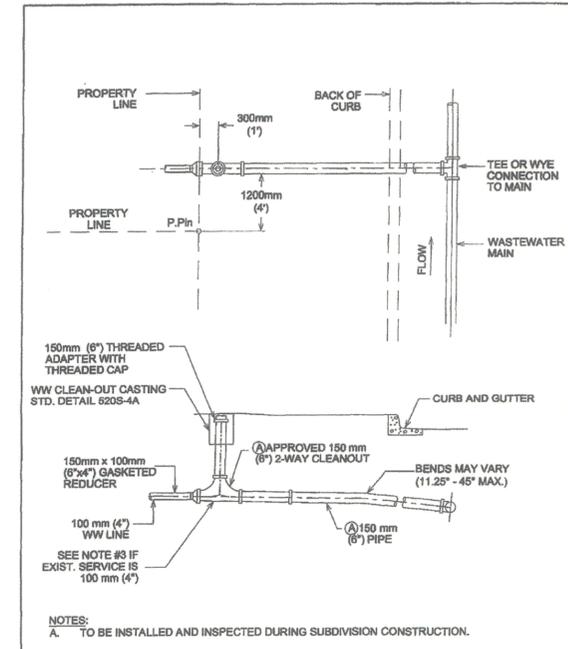
| | | |
|--|--|---|
| CITY OF AUSTIN AUSTIN WATER UTILITY | TYPICAL GATE VALVE 100 mm-600 mm (4"-24") | STANDARD NO. 511S-7 |
| <i>Kathi L. Flowers</i> | 3/9/10 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |



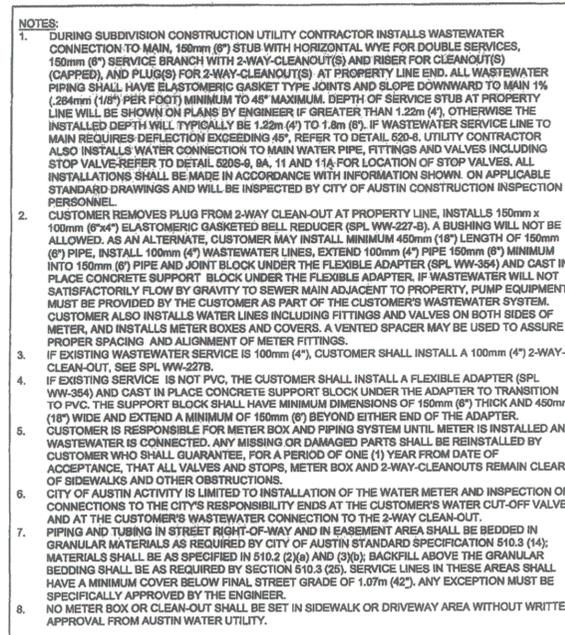
| | | |
|--|---|---|
| CITY OF AUSTIN AUSTIN WATER UTILITY | DOUBLE WATER/WASTEWATER SERVICE CONNECTION DETAIL | STANDARD NO. 520S-3 |
| <i>Kathi L. Flowers</i> | 8/21/11 | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |



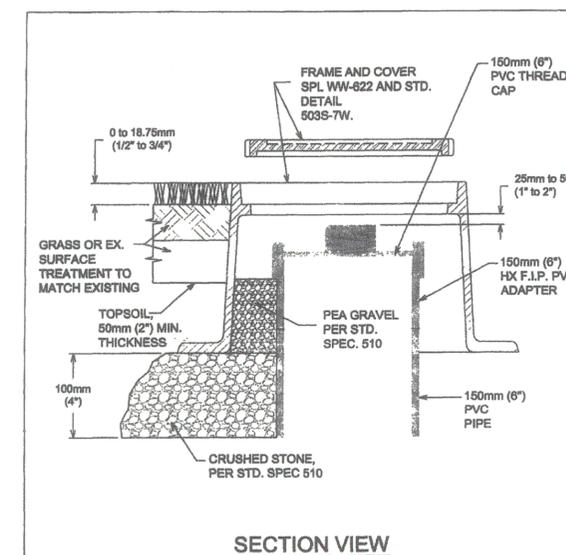
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| CITY OF AUSTIN AUSTIN WATER UTILITY | DOUBLE WATER/WASTEWATER SERVICE CONNECTION DETAIL | STANDARD NO. 520S-3 |
| <i>Kathi L. Flowers</i> | 8/21/11 | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |



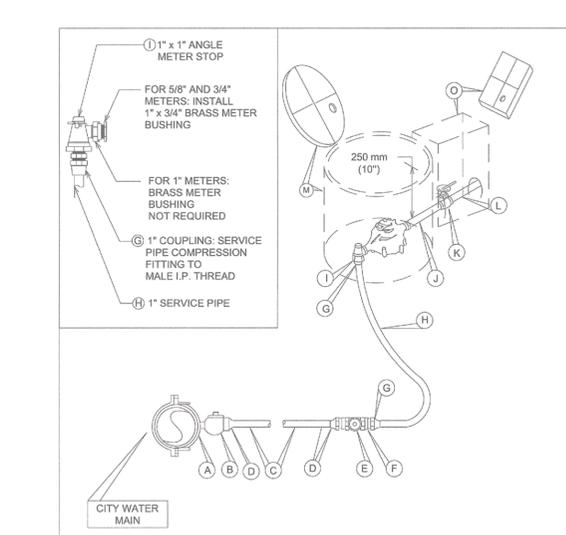
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| CITY OF AUSTIN AUSTIN WATER UTILITY | SINGLE WASTEWATER SERVICE CONNECTION DETAIL | STANDARD NO. 520S-3A |
| <i>Kathi L. Flowers</i> | 9/23/10 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |



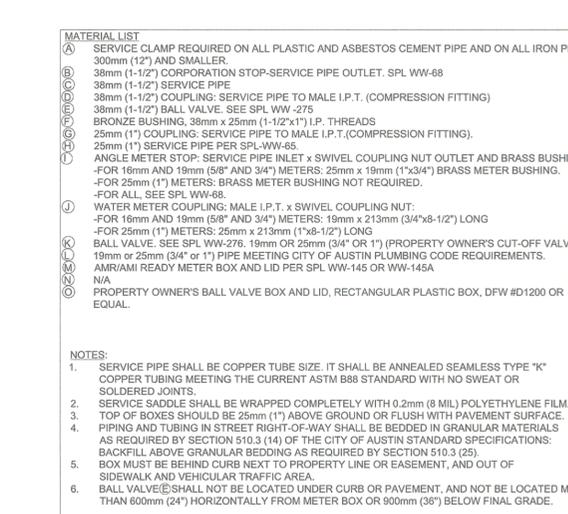
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| CITY OF AUSTIN AUSTIN WATER UTILITY | SINGLE WASTEWATER SERVICE CONNECTION DETAIL | STANDARD NO. 520S-3A |
| <i>Kathi L. Flowers</i> | 9/23/10 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |



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| CITY OF AUSTIN AUSTIN WATER UTILITY | WASTEWATER CLEANOUT CASTING (UNPAVED LOCATION) | STANDARD NO. 520S-4A |
| <i>Kathi L. Flowers</i> | 8/21/11 | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |



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| CITY OF AUSTIN AUSTIN WATER UTILITY | INSTALLATION FOR A 16mm, 19mm OR 25mm (5/8", 3/4" OR 1") POTABLE METER | STANDARD NO. 520S-11 |
| <i>Kathi L. Flowers</i> | 08/31/2011 | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |



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| CITY OF AUSTIN AUSTIN WATER UTILITY | INSTALLATION FOR A 16mm, 19mm OR 25mm (5/8", 3/4" OR 1") POTABLE METER | STANDARD NO. 520S-11 |
| <i>Kathi L. Flowers</i> | 08/31/2011 | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. |

REVISION DESCRIPTION

| NO. | DATE | DESCRIPTION |
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APPROVED

RUBÉN LÓPEZ, JR.
Professional Engineer
No. 93745
Exp. 08/15/2016

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBÉN LÓPEZ, JR., LIC. # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
CHALMERS AVE. & 6TH STREET ALLEY

GENERAL CONSTRUCTION DETAILS SHEET 2

CITY OF AUSTIN
FOUNDED 1839

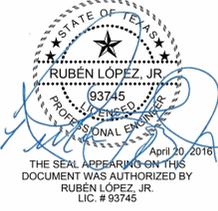
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| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

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| REVISION DESCRIPTION | DATE | REV. BY | NO. |
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I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

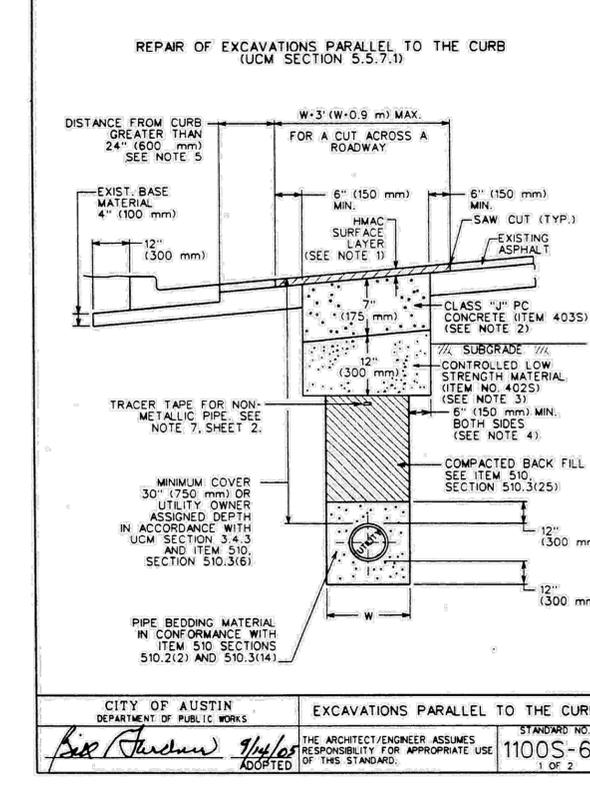
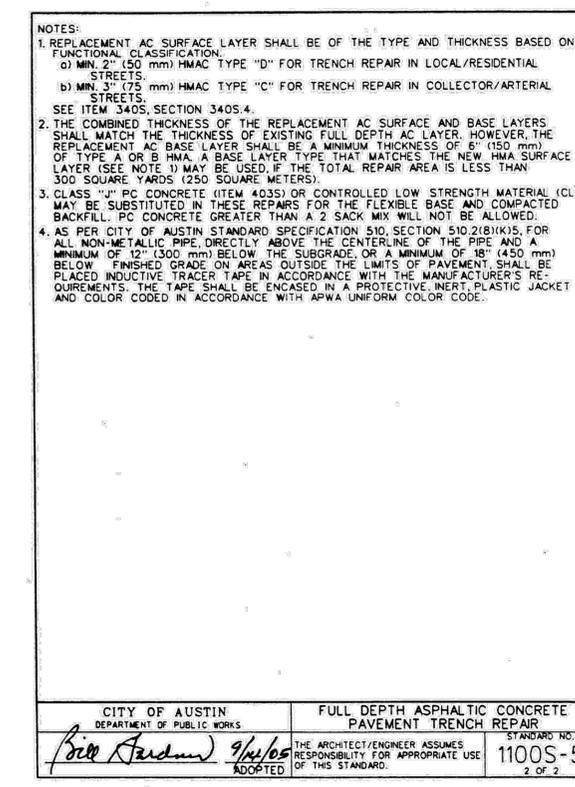
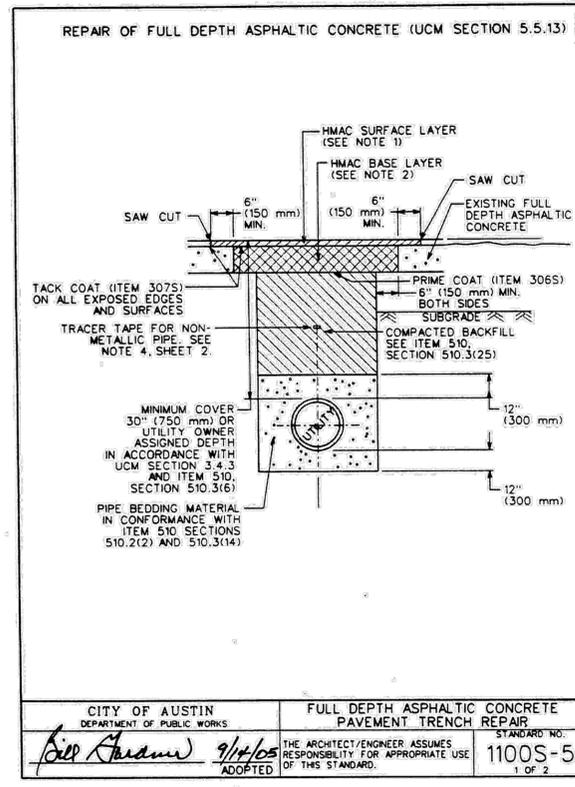
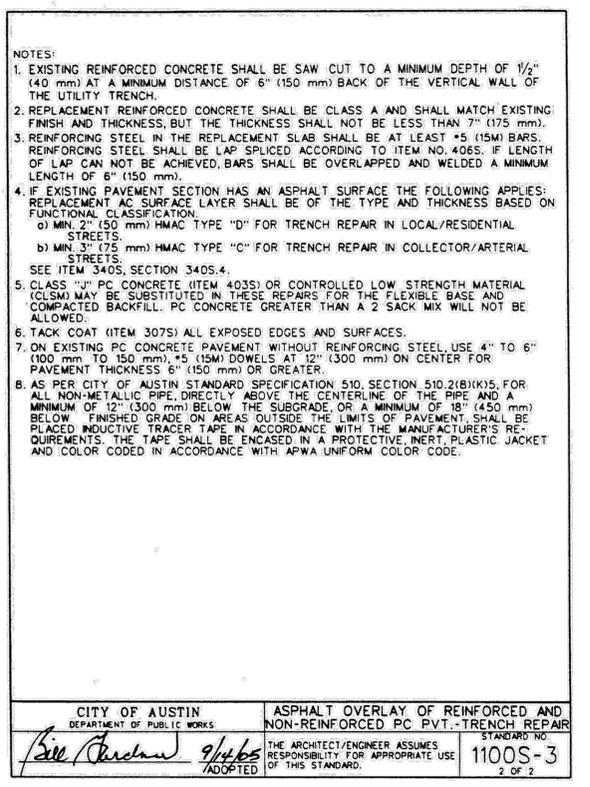
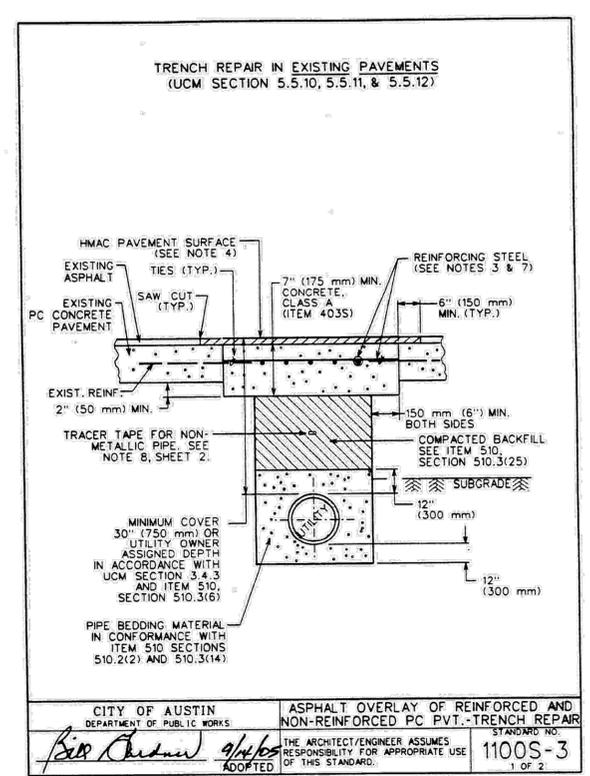
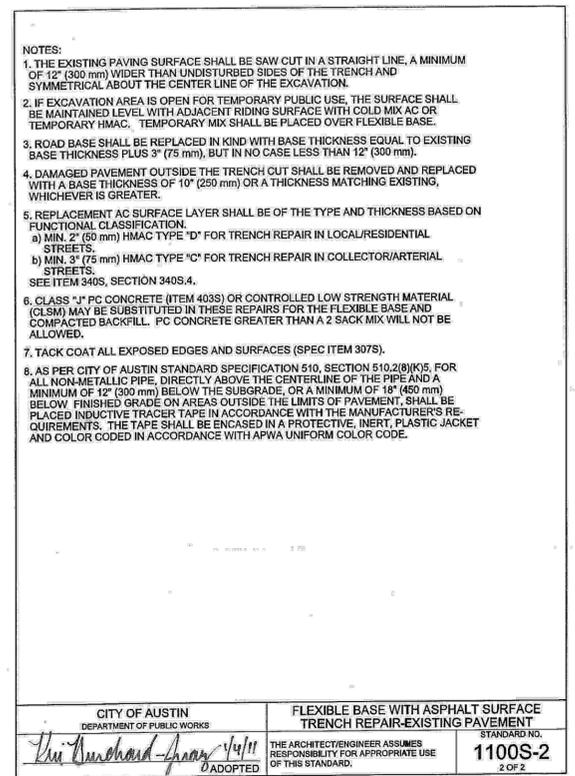
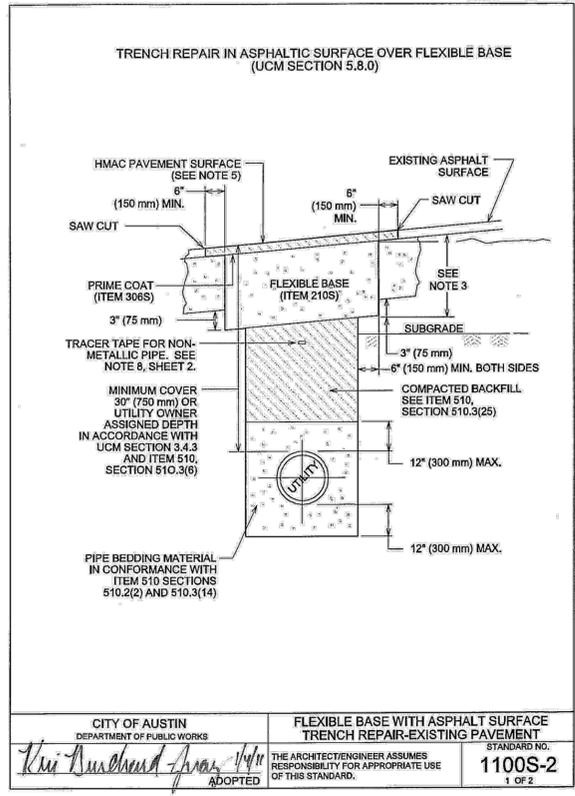
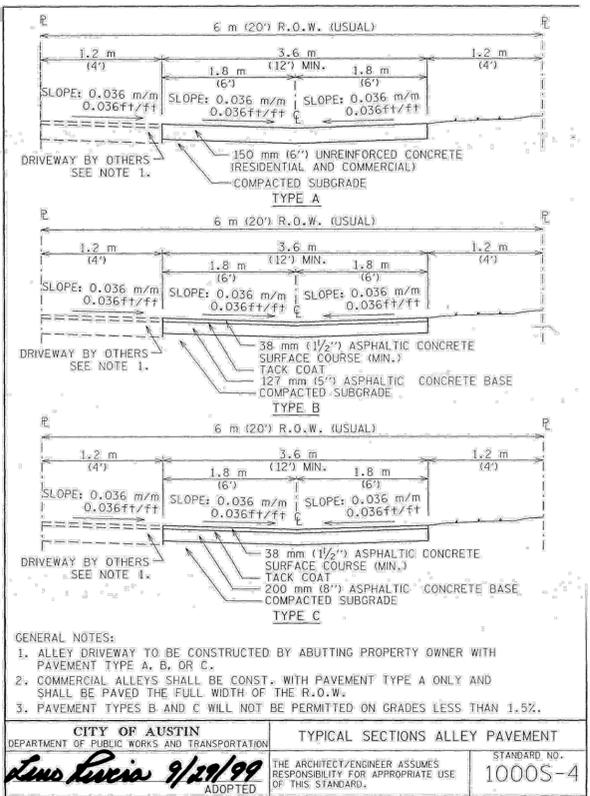
CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION
**WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY**
 GENERAL CONSTRUCTION DETAILS SHEET 3



| NOTES | NAME | DATE |
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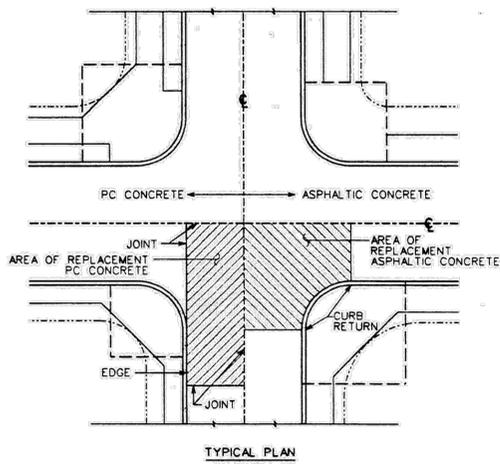


- NOTES:
- REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
 - MIN. 2" (50 mm) HMAC TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
 - MIN. 3" (75 mm) HMAC TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
 SEE ITEM 3405, SECTION 3405.4.
 - PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
 - CLASS "H" CONCRETE, ITEM 4035 OR CONTROLLED LOW STRENGTH MATERIAL (CLSM), MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL.
 - FOR TRENCH WIDTHS 6" (150 mm) OR LESS, WIDENING OF THE BASE BEYOND THE TRENCH FACE MAY BE ELIMINATED IF THE EXISTING PAVEMENT STRUCTURE (INCLUDING THE BASE) REMAINS INTACT AND STABLE AFTER COMPLETION OF EXCAVATION.
 - IF ANY DIMENSION IN THIS AREA IS LESS THAN 24" (600 mm), THE ENTIRE AREA WILL BE REMOVED AND PAVED WITH NEW PAVEMENT.
 - TACK COAT, ITEM 3075, ALL EXPOSED EDGES AND SURFACES.
 - AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(B)(1)(5), FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE, OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT, SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENGAGED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.

| | | |
|--|---|------------------------------------|
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | EXCAVATIONS PARALLEL TO THE CURB | STANDARD NO. 1100S-6B 2 OF 2 |
| <i>Bill Gardner</i> 9/4/05 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | |

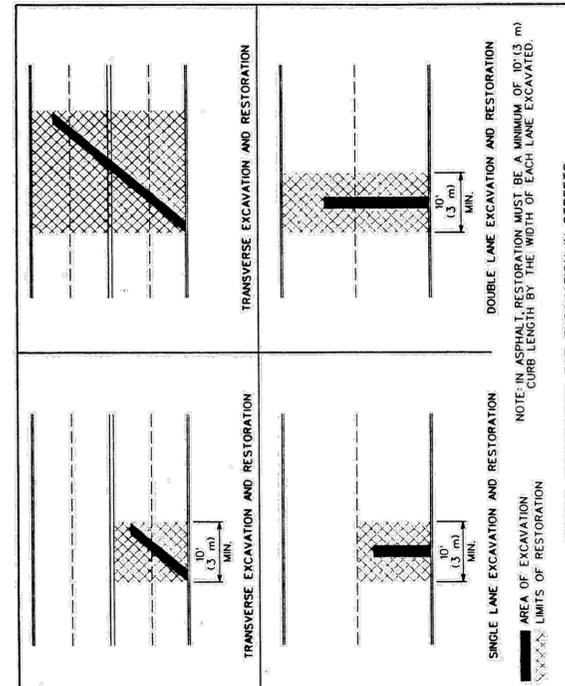
REPAIR OF NEW STREETS and ARTERIAL STREETS in GOOD CONDITION (UCM SECTION 5.3.3 and 5.3.4)

TYPICAL RESTORATION FOR EXCAVATION IN INTERSECTIONS

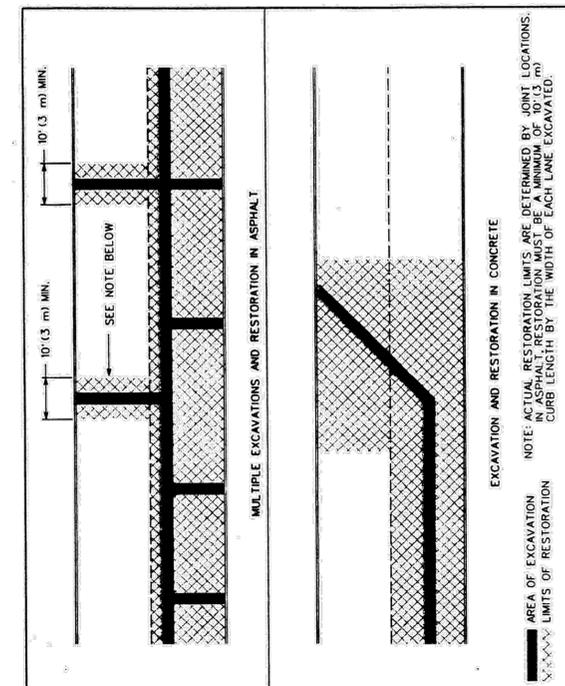


- TRENCH REPAIRS WITHIN PORTLAND CEMENT CONCRETE PAVEMENTS NOTE:
IF ANY PART OF THE TRENCH REPAIR FALLS WITHIN AN INTERSECTION, THEN THE ENTIRE CONCRETE SLAB FROM JOINT TO JOINT AND JOINT TO EDGE SHALL BE REPLACED, UNLESS OTHERWISE DIRECTED IN WRITING BY THE DIRECTOR.
- TRENCH REPAIRS WITHIN ASPHALTIC CONCRETE PAVEMENTS NOTES:
1. IF ANY PART OF THE TRENCH REPAIR FALLS WITHIN AN INTERSECTION, DEFINED FROM CURB RETURN TO CURB RETURN, THE ENTIRE QUADRANT OF THE EXISTING SURFACE SHALL BE REPLACED, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
2. A QUADRANT IS DEFINED AS THE CROSS-HATCHED AREA IN THE ABOVE DETAIL.

| | | |
|--|---|-----------------------------------|
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | STREET REPAIR REQUIREMENTS | STANDARD NO. 1100S-7 1 OF 3 |
| <i>Bill Gardner</i> 9/4/05 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | |



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| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | STREET REPAIR REQUIREMENTS | STANDARD NO. 1100S-7 2 OF 3 |
| <i>Bill Gardner</i> 9/4/05 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | |



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|--|---|-----------------------------------|
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | STREET REPAIR REQUIREMENTS | STANDARD NO. 1100S-7 3 OF 3 |
| <i>Bill Gardner</i> 9/4/05 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | |

| REV. NO. | BY | DATE | REVISION DESCRIPTION |
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I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION
WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
CHALMERS AVE. & 6TH STREET ALLEY
GENERAL CONSTRUCTION DETAILS SHEET 4

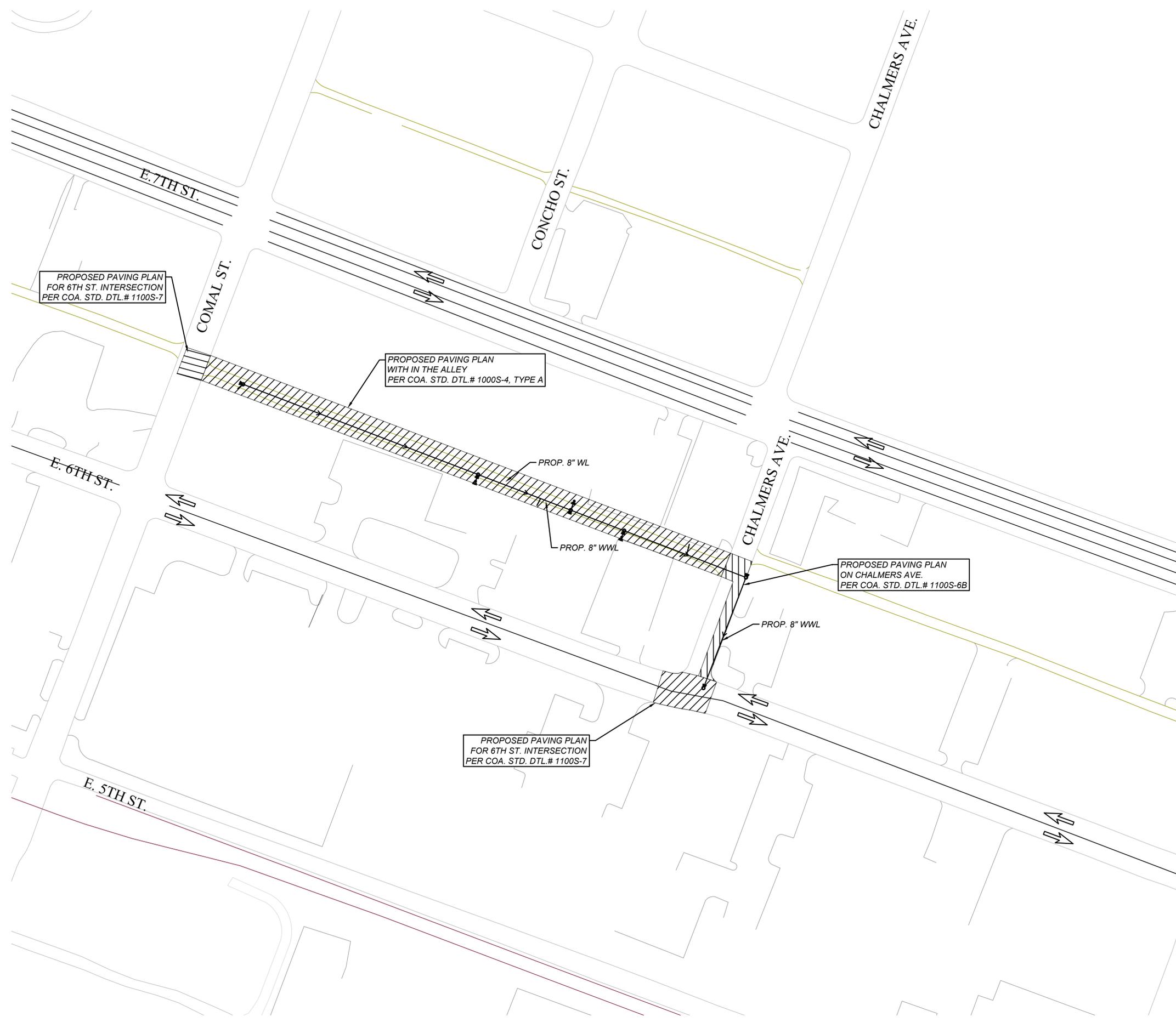


| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

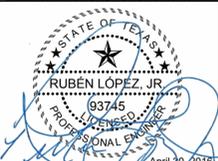
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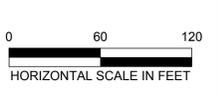
I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

LOPEZ, RUBEN

CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION
**WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY**
PROPOSED PAVING PLAN



| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |



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BARRICADING SUMMARY TABLE

STREETS

| STREET | CLASSIFICATION | PROTECTION | STREET FROM | STREET TO | PLANNED IMPROVEMENTS | TRAFFIC CONTROL PLAN SHEET/ DETAIL | ALLOWED BARRICADING TIMES | DURATION | COMMENTS |
|-----------------|----------------|------------|---------------|--------------|---|------------------------------------|---------------------------------|----------|----------|
| CHALMERS AVE | COLLECTOR | NO | E 6TH ST. | E 7TH STREET | PROPOSED 8" WWL & PAVEMENT REPAIRS | SEE SHEET# 23 | M-F 9AM -4PM, SAT & SUN 7AM-7PM | 1 WEEK | |
| E 6TH ST. ALLEY | ALLEY | NO | CHALMERS AVE. | COMAL ST. | PROPOSED 8" WWL | SEE SHEET# 24 | M-F 9AM -4PM, SAT & SUN 7AM-7PM | 4 WEEKS | |
| E 6TH ST. ALLEY | ALLEY | NO | CHALMERS AVE. | COMAL ST. | PAVEMENT REPAIRS | SEE SHEET# 25 | M-F 9AM -4PM, SAT & SUN 7AM-7PM | 2 WEEKS | |
| E 6TH ST. | COLLECTOR | YES | CHALMERS AVE. | COMAL ST. | PROPOSED WL SERVICES & PAVEMENT REPAIRS | SEE SHEET# 26 | M-F 9AM -4PM, SAT & SUN 7AM-7PM | 2 WEEKS | |

STREETS

| STREET | PLANNED IMPROVEMENTS | TRAFFIC CONTROL PLAN SHEET/ DETAIL | ALLOWED BARRICADING TIMES | DURATION | COMMENTS |
|-------------------------|----------------------------------|------------------------------------|---------------------------------|----------|----------|
| 6TH ST. & CHALMERS AVE. | PROPOSED 8" WWL & PAVING REPAIRS | SEE SHEET# 22 | M-F 9AM -4PM, SAT & SUN 7AM-7PM | 1 WEEK | |

RIGHT OF WAY MANAGEMENT STANDARD NOTES

- FOR RIGHT OF WAY VIOLATIONS INCLUDING BUT NOT LIMITED TO WORKING WITHOUT A PERMIT OR AN EXPIRED PERMIT WITHIN THE CITY OF AUSTIN ROW AN INVESTIGATION FEE WILL BE ASSESSED FOR EACH OFFENSE UNTIL THE VIOLATION IS CORRECTED. FOLLOWING IS THE INVESTIGATION FEE SCHEDULE FOR VIOLATIONS OF PUBLIC SAFETY:
 - a NO OR EXPIRED PERMIT = EQUAL TO THE COST OF THE PERMIT
 - b VIOLATION OF PERMIT CONDITIONS, RESTRICTION LIMITS, TIMES AND LOCATIONS ON ROW PERMIT = \$250
 - c IMPROPER ADVANCE WARNING SIGN = \$250
 - d IMPROPER USE OF DEVICE = \$250
 - e FAILURE TO CORRECT DEFICIENCY = \$500
 - f RESTRICTING TRAFFIC DURING PEAK HOURS = EQUAL TO THE COST OF THE PERMIT
 - g MULTIPLE VIOLATIONS = UP TO A 4 DAY SUSPENSION OF WORK
- CONTRACTORS AND THEIR SUBCONTRACTORS MUST BE LICENSED BY THE CITY OF AUSTIN FOR CONDUCTING WORK WITHIN THE RIGHT OF WAY.
- CONTRACTOR MUST OBTAIN RIGHT OF WAY EXCAVATION PERMITS FROM RIGHT OF WAY MANAGEMENT DIVISION, FOR EACH STREET PRIOR TO COMMENCEMENT OF WORK. PLEASE CALL (512) 974-1150 FOR ADDITIONAL INFORMATION REGARDING PERMITTING PROCESS AND THE MOST CURRENT RIGHT OF WAY PERMITTING FEE SCHEDULE.
- FOR WORK AT SIGNALIZED INTERSECTIONS CONTRACTOR MUST DIAL 311 OR (512) 974-2000 TO INITIATE A CITIZENS SERVICE REQUEST (CSR) FOR THE TRAFFIC SIGNALS GROUP, TO COORDINATE AND GAIN APPROVAL A MINIMUM OF 1 WEEK PRIOR TO CHANGE OF PROJECT LOCATION OR PHASE.
- CONTRACTOR SHALL HAVE AN APPROVED RIGHT OF WAY PERMIT ON SITE AT ALL TIMES WHEN WORKING IN THE ROW.
- CONTRACTOR MUST DIAL 311 OR (512) 974-2000 TO INITIATE A CITIZENS SERVICE REQUEST (CSR) FOR RIGHT OF WAY MANAGEMENT A MINIMUM OF 1 WEEK PRIOR TO START OF WORK.
- CONTRACTOR MUST PROVIDE TRAINING CERTIFICATION OF COMPETENT PERSON THAT WILL BE RESPONSIBLE FOR THE TRAFFIC CONTROL PLACEMENT, TO RIGHT OF WAY INSPECTOR, PRIOR TO START OF WORK.
- STORAGE OF EQUIPMENT AND/OR MATERIAL WITHIN THE ROW
 - a STORAGE OF EQUIPMENT IN THE ROW IS PERMISSIBLE ONLY WITHIN THE CURRENT LIMITS OF LONG-TERM OR INTERMEDIATE-TERM CLOSURES AND SHALL BE LIMITED TO THE EQUIPMENT REQUIRED FOR THE CURRENT WORK ACTIVITY. THIS EQUIPMENT SHALL BE PROTECTED BEHIND BARRICADES
 - b STORAGE OF MATERIAL IN THE ROW IS PERMISSIBLE ONLY WITHIN THE CURRENT LIMITS OF LONG-TERM OR INTERMEDIATE-TERM CLOSURES AND SHALL BE LIMITED TO NO MORE THAN THE MATERIAL REQUIRED FOR THREE DAYS OF PRODUCTION. THIS MATERIAL SHALL BE PROTECTED BEHIND WATER-FILLED BARRIER.

- EQUIPMENT OR MATERIAL STORED IN THE ROW SHALL NOT CREATE A VISUAL BARRIER TO TRAFFIC.
- NO MORE THAN ONE WORK ZONE LOCATION MAY BE SET AT ONE TIME.
- PEAK HOURS FOR ARTERIAL AND COLLECTOR STREETS ARE 8AM TO 9AM AND 4PM TO 8 PM, MONDAY THROUGH FRIDAY. NO DISRUPTION OR REDUCTION OF ACTIVE ROADWAY OR PEDESTRIAN ROUTE CAPACITY SHALL OCCUR DURING THESE TIMES, UNLESS ALLOWED BY TRAFFIC CONTROL PLAN.
- EXCAVATIONS SHALL BE BACKFILLED OR PLATED WHEN REQUIRED TO OPEN IMPACTED TRAFFIC LANES. FOR EXCAVATIONS EXCEEDING A TRANSVERSE WIDTH OF 6 FEET, THE CONTRACTOR SHALL PROVIDE AN ENGINEERED PLATING PLAN TO THE OWNER'S REPRESENTATIVE FOR REVIEW BY RIGHT OF WAY MANAGEMENT DIVISION PER 804S-4, 5 OF 9
- EXISTING SIDEWALKS AND BEATEN PATHS SHALL BE MAINTAINED AS ADA COMPLIANT THROUGHOUT THE PROJECT DURATION WITH THE EXCEPTION OF FINAL FLATWORK AND UTILITY TIE-INS. ANY WORK OVERHEAD WITHIN 25 FEET OF EXISTING PEDESTRIAN PATHWAYS WILL REQUIRE PEDESTRIAN COVERED WALKWAYS. SIDEWALK CLOSURES FOR MAJOR SIDEWALK IMPROVEMENTS HAVE A 14-DAY MAXIMUM PERIOD AND SHALL BE COMPLETED IN PHASES AS TO NOT CLOSE MORE THAN ONE BLOCK AT A TIME.
- 'ROAD WORK AHEAD' AND 'CONSTRUCTION ENTRANCE AHEAD' SIGNS MUST BE PLACED AT ALL APPROACHES TO STABILIZED CONSTRUCTION ENTRANCE. SEE THE CITY OF AUSTIN STANDARD DETAILS FOR SIGN SPACING
- DRIVEWAYS SHALL NOT BE CLOSED FOR MORE THAN 3 CONSECUTIVE CALENDAR DAYS
- ADA COMPLIANCE SHALL BE MAINTAINED THROUGH STABILIZED CONSTRUCTION ENTRANCE
- BARRIER SHALL BE PLACED WITHIN GUIDELINES SET FORTH BY THE TMUTCD CRASH TESTING REQUIREMENTS (NCHRP REPORT 350) FOR THAT PARTICULAR BARRIER USED ANY MODIFICATIONS TO THAT TESTING APPLICATION SHALL BE APPROVED BY THE ENGINEER OF RECORD
- FOR OVERNIGHT PROTECTION OF WORK ZONES WITHIN THE ROW, REFER TO CITY OF AUSTIN STANDARD 804S-4 SERIES DETAILS.
- ALL TEMPORARY PAVING SHALL CONFORM TO CITY OF AUSTIN STANDARD DETAIL 1100S-4
- INITIAL AND PHASE CHANGE TRAFFIC CONTROL CHANGES SHALL BE INSTALLED ON THE WEEKENDS
- THE NAME AND TELEPHONE NUMBER OF THE CONTRACTOR OR SUPPLIER SHALL BE SHOWN ON THE NON-REFLECTIVE SURFACE OF ALL CHANNELIZING DEVICES IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD 800 SERIES DETAILS.

STREET PROTECTION & CLASSIFICATION

- STREET PROTECTION AND CLASSIFICATION ARE BASED ON PUBLIC WORKS PROTECTED STREETS LIST DATED 10.01.2015

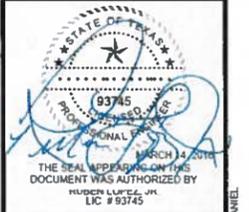
NOTE TO CONTRACTOR:

- STORAGE OF MATERIALS IS NOT ALLOWED WITHIN THE R.O.W.
- NO PARKING SIGNS SHALL BE PLACED IN THE AREA OF ROAD CLOSURE AND TRANSITIONS 48 HOURS PRIOR TO CONSTRUCTION
- CONTRACTOR SHALL COORDINATE WITH BUSINESS OWNERS ON ACCESS TO EXISTING DRIVEWAYS.
- CONTRACTOR MAY NOT DETOUR PEDESTRIAN TRAFFIC MORE THAN A QUARTER MILE FROM ANY SINGLE POINT OF SIDEWALK CLOSURE AND PROVIDE AN ACCESS ROUTE OPEN AT ALL TIMES.

EXCEPTIONS TABLE

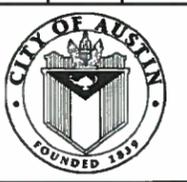
| NOTE # | EXPLANATION OF EXCEPTION |
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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION
**WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
CHALMERS AVE. & 6TH STREET ALLEY**
TRAFFIC CONTROL NOTES



| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |



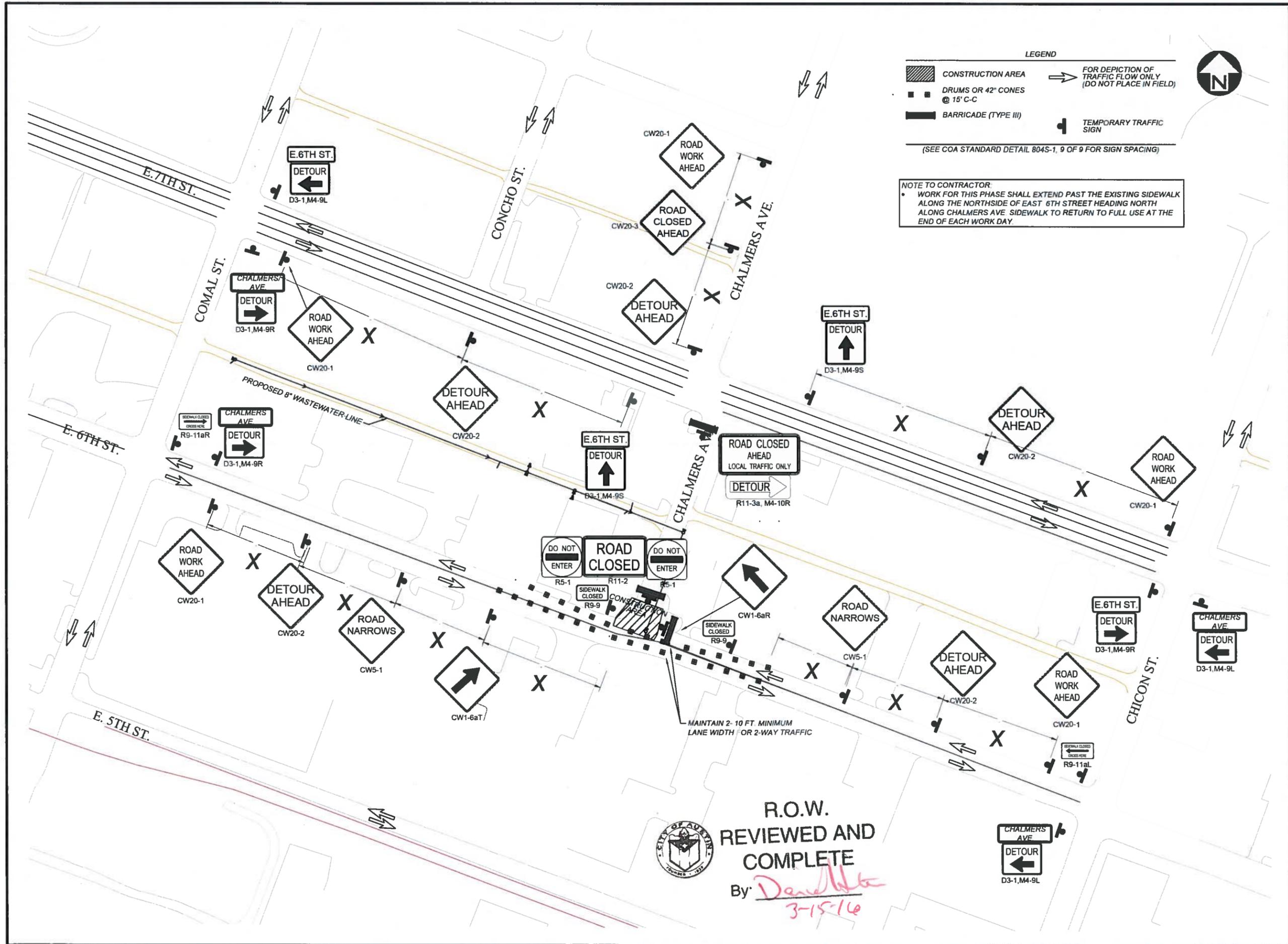
**R.O.W.
REVIEWED AND
COMPLETE**

By: *David Lopez*
3-15-16

ESD
ENGINEERING SERVICES
DIVISION

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LEGEND

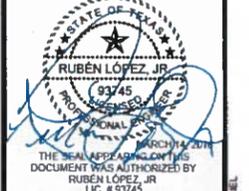
- CONSTRUCTION AREA
- DRUMS OR 42" CONES @ 15' C-C
- BARRICADE (TYPE III)
- FOR DEPICTION OF TRAFFIC FLOW ONLY (DO NOT PLACE IN FIELD)
- TEMPORARY TRAFFIC SIGN

(SEE COA STANDARD DETAIL 804S-1, 9 OF 9 FOR SIGN SPACING)

NOTE TO CONTRACTOR
 WORK FOR THIS PHASE SHALL EXTEND PAST THE EXISTING SIDEWALK ALONG THE NORTHSIDE OF EAST 6TH STREET HEADING NORTH ALONG CHALMERS AVE. SIDEWALK TO RETURN TO FULL USE AT THE END OF EACH WORK DAY.



| REV. NO. | DATE | REVISION DESCRIPTION |
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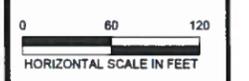


CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION
 WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY
 PROPOSED TRAFFIC CONTROL PLAN
 FOR WASTEWATER LINE PHASE 1

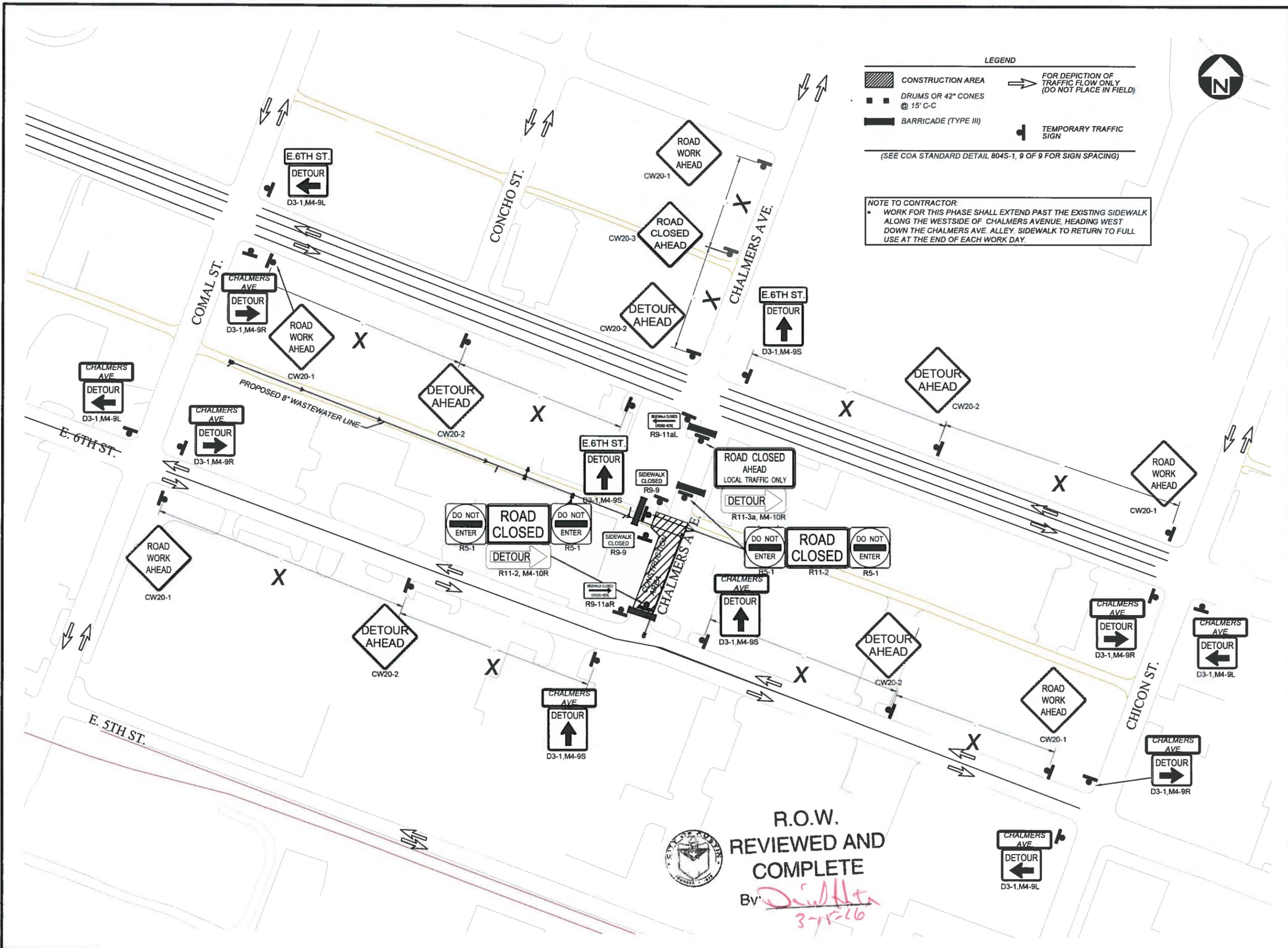


| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |



R.O.W.
 REVIEWED AND
 COMPLETE
 By: *Daniel [Signature]*
 3-15-16

GP-2015-0264.AWU



LEGEND

- CONSTRUCTION AREA
- DRUMS OR 42" CONES @ 15' C-C
- BARRICADE (TYPE III)
- FOR DEPICTION OF TRAFFIC FLOW ONLY (DO NOT PLACE IN FIELD)
- TEMPORARY TRAFFIC SIGN

(SEE COA STANDARD DETAIL 804S-1, 9 OF 9 FOR SIGN SPACING)

NOTE TO CONTRACTOR:
 WORK FOR THIS PHASE SHALL EXTEND PAST THE EXISTING SIDEWALK ALONG THE WESTSIDE OF CHALMERS AVENUE, HEADING WEST DOWN THE CHALMERS AVE. ALLEY, SIDEWALK TO RETURN TO FULL USE AT THE END OF EACH WORK DAY.



R.O.W.
 REVIEWED AND
 COMPLETE
 By *Daniel*
 3-11-16

| | | |
|--|------|-------|
| REVISION DESCRIPTION | | |
| REV. NO. | DATE | BY |
| | | |
| I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL. | | |
| CITY OF AUSTIN, TEXAS DEPARTMENT OF PUBLIC WORKS ENGINEERING SERVICES DIVISION WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ) CHALMERS AVE. & 6TH STREET ALLEY PROPOSED TRAFFIC CONTROL PLAN FOR WASTEWATER LINE PHASE 2 | | |
| | | |
| NOTES | NAME | DATE |
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |
| 0 60 120 HORIZONTAL SCALE IN FEET | | |
| GP-2015-0264.AWU | | |
| SHEET 23 OF 29 | | |

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- LEGEND**
-  CONSTRUCTION AREA
 -  FOR DEPICTION OF TRAFFIC FLOW ONLY (DO NOT PLACE IN FIELD)
 -  DRUMS OR 42" CONES @ 15' C-C
 -  BARRICADE (TYPE III)
 -  TEMPORARY TRAFFIC SIGN
- (SEE COA STANDARD DETAIL 804S-1, 9 OF 9 FOR SIGN SPACING)

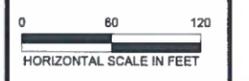
| REV. NO. | DATE | REVISION DESCRIPTION |
|----------|------|----------------------|
| | | |
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STATE OF TEXAS
 PROFESSIONAL SEAL
 RUBEN LOPEZ, JR.
 83745
 PROFESSIONAL ENGINEER
 CIVIL
 I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.
 ARREDONDO, DANIEL

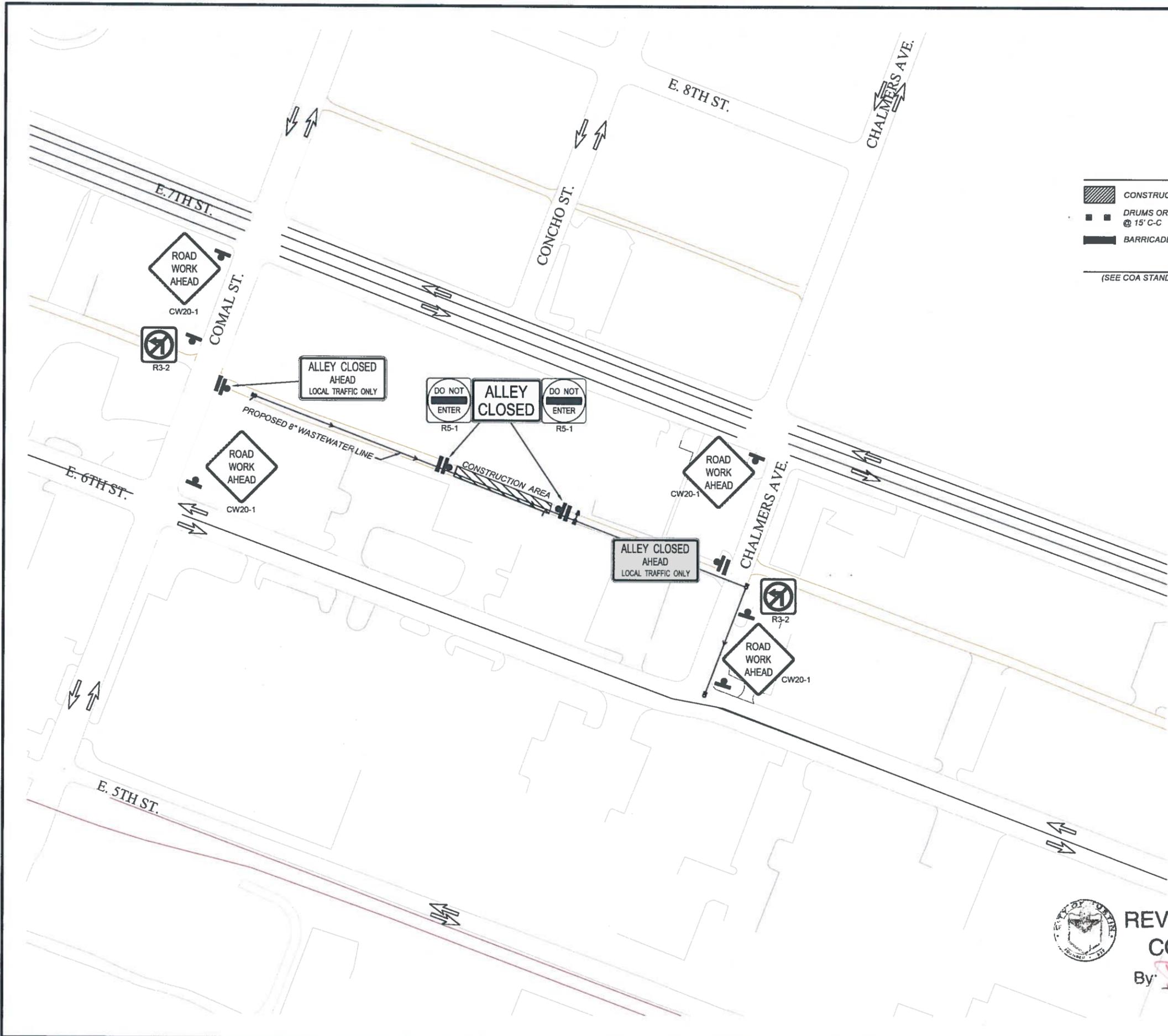
CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION
 WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY
 PROPOSED TRAFFIC CONTROL PLAN
 FOR WASTEWATER LINE PHASE 3



| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

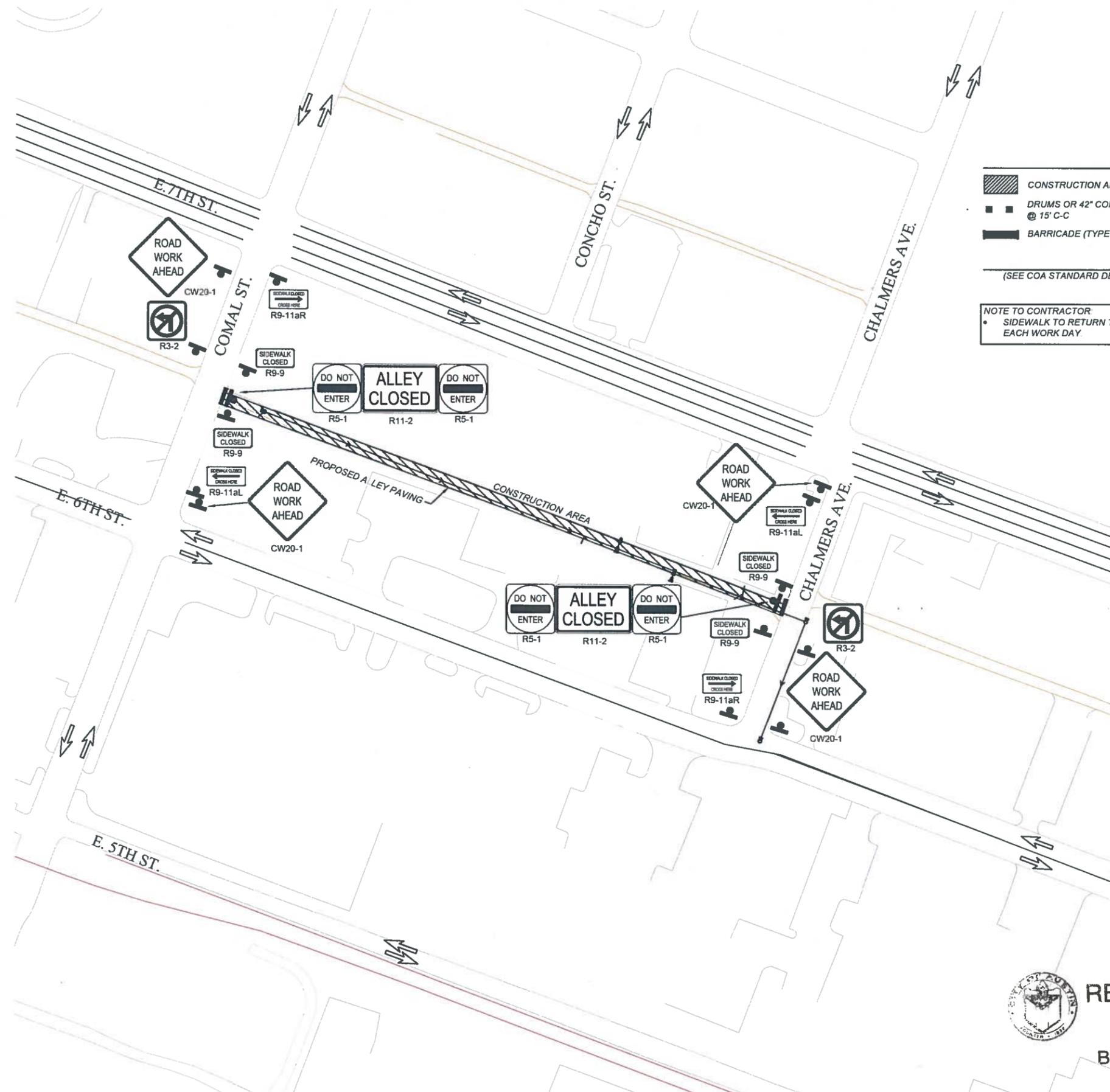


GP-2015-0264.AWU



R.O.W.
 REVIEWED AND
 COMPLETE
 By: *David H. G.*
 3-15-16

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LEGEND

- CONSTRUCTION AREA
- DRUMS OR 42" CONES @ 15' C-C
- BARRICADE (TYPE III)
- FOR DEPICTION OF TRAFFIC FLOW ONLY (DO NOT PLACE IN FIELD)
- TEMPORARY TRAFFIC SIGN

(SEE COA STANDARD DETAIL 804S-1, 9 OF 9 FOR SIGN SPACING)

NOTE TO CONTRACTOR

- SIDEWALK TO RETURN TO FULL USE AT THE END OF EACH WORK DAY.

| REV. NO. | DATE | REVISION DESCRIPTION |
|----------|------|----------------------|
| | | |
| | | |
| | | |

STATE OF TEXAS
 RUBÉN LÓPEZ, JR.
 03745
 PROFESSIONAL ARCHITECT
 THE SEAL APPLICANT'S THIS DOCUMENT WAS AUTHORIZED BY RUBÉN LÓPEZ, JR. LIC. # 03745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION

WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY

PROPOSED TRAFFIC CONTROL PLAN
 FOR WASTEWATER LINE PHASE 4



| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |



R.O.W. REVIEWED AND COMPLETE

By *David H. ...*
 3-15-16



GP-2015-0264.AWU

N:\E\A\W\U\W\RELAY\W2_CHALMERS AVE. & ALLEY\W2\PRODUCTION FILES\DWG\CALC\CP\PLAN\DWG_COA_IDIQ_22334_COA_E8D_S1B



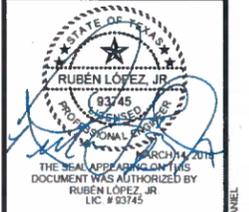
LEGEND

- CONSTRUCTION AREA
- DRUMS OR 42" CONES @ 15' C-C
- BARRICADE (TYPE III)
- FLAGGER
- FOR DEPICTION OF TRAFFIC FLOW ONLY (DO NOT PLACE IN FIELD)
- TEMPORARY TRAFFIC SIGN

NOTE TO CONTRACTOR:

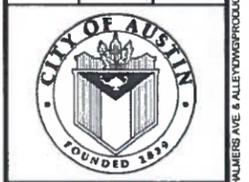
- ALL FLAGGERS MUST HAVE 2-WAY RADIOS WHEN FLAGGING.
- NO PARKING SIGNS SHALL BE PLACED IN THE AREA OF ROAD CLOSURE AND TRANSITIONS 48 HOURS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH BUSINESS OWNERS ON ACCESS TO EXISTING DRIVEWAYS.
- CONTRACTOR MAY NOT DETOUR PEDESTRIAN TRAFFIC MORE THAN A QUARTER MILE FROM ANY SINGLE POINT OF SIDEWALK CLOSURE AND PROVIDE AN ACCESS ROUTE OPEN AT ALL TIMES.
- ONLY 1 CONSTRUCTION AREA PHASE MAY BE BLOCKED OFF AND WORKED ON AT A TIME, MOVE OR POSITION 3-WAY FLAGGERS ACCORDINGLY.
- IF AT THE START OF CONSTRUCTION, THERE IS AN ACTIVE TEMPORARY TRAFFIC CONTROL IN THE AREA THAT OVERLAPS WITH THIS PROPOSED PLAN, THE CITY OF AUSTIN INSPECTOR WILL WORK WITH R.O.W. INSPECTOR AND DESIGN ENGINEER TO ADJUST THIS TRAFFIC CONTROL PLAN ACCORDINGLY.
- SIDEWALK SHALL RETURN TO FULL USE AT THE END OF EACH WORK DAY.

| REV. NO. | DATE | REVISION DESCRIPTION |
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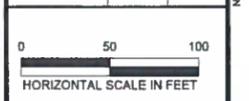


I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

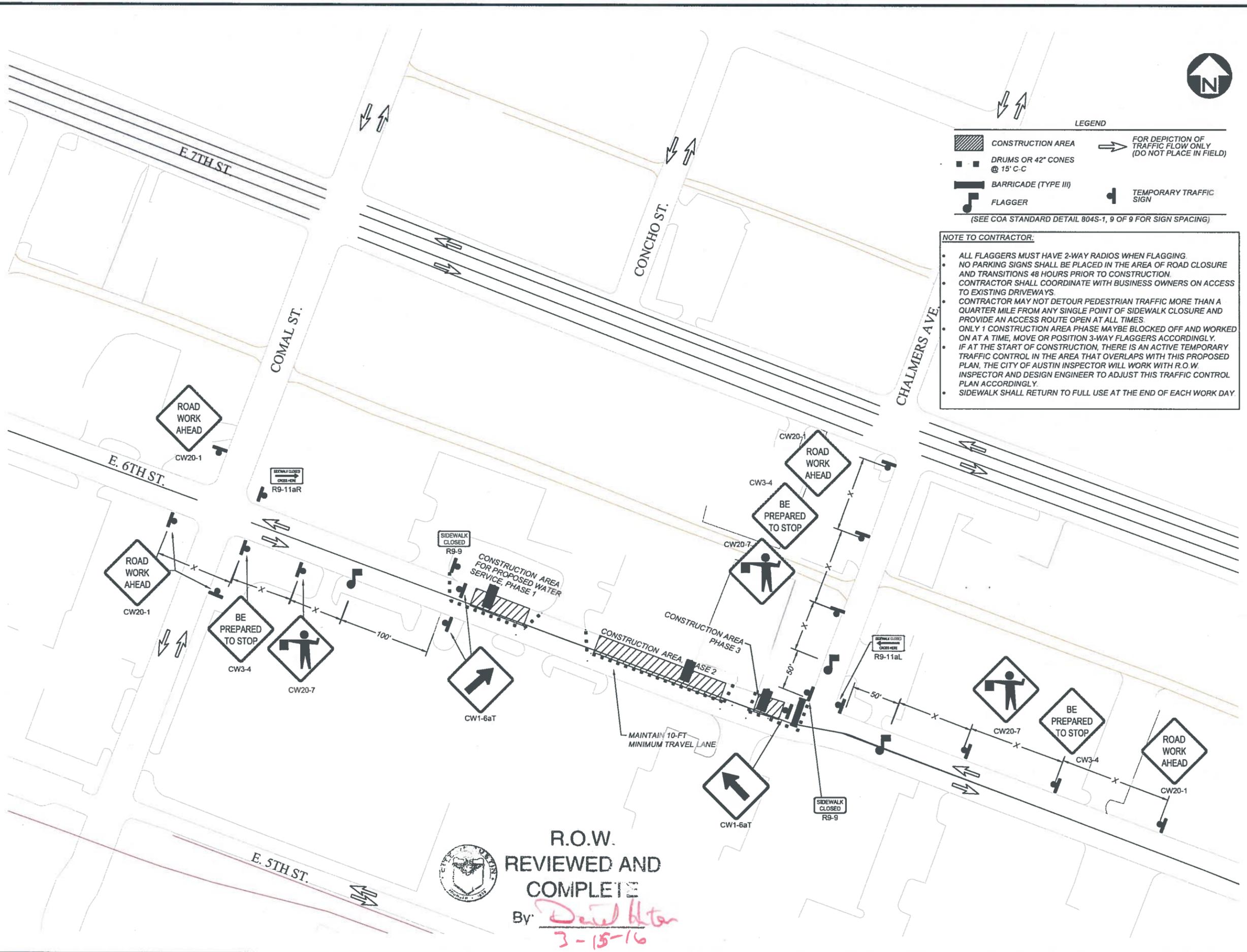
CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION
**WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
 CHALMERS AVE. & 6TH STREET ALLEY**
**PROPOSED TRAFFIC CONTROL PLAN
 FOR WATER CONNECTION**



| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |



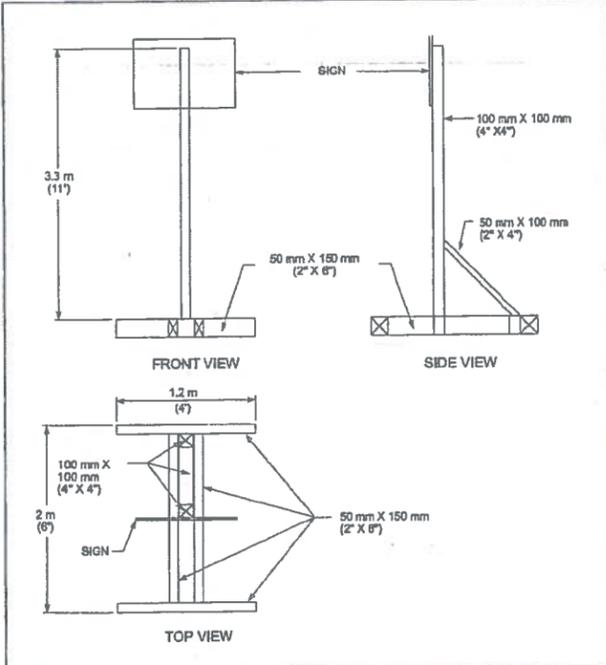
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R.O.W.
 REVIEWED AND
 COMPLETE

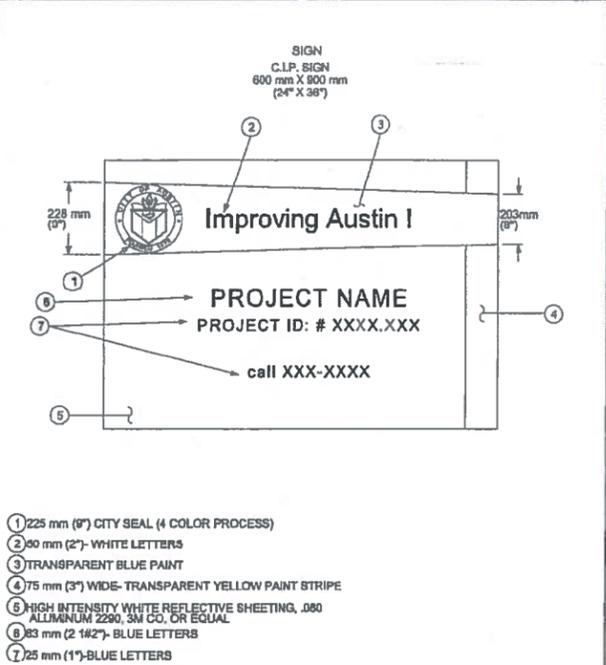
By: *Daniel Hinton*
 3-15-16

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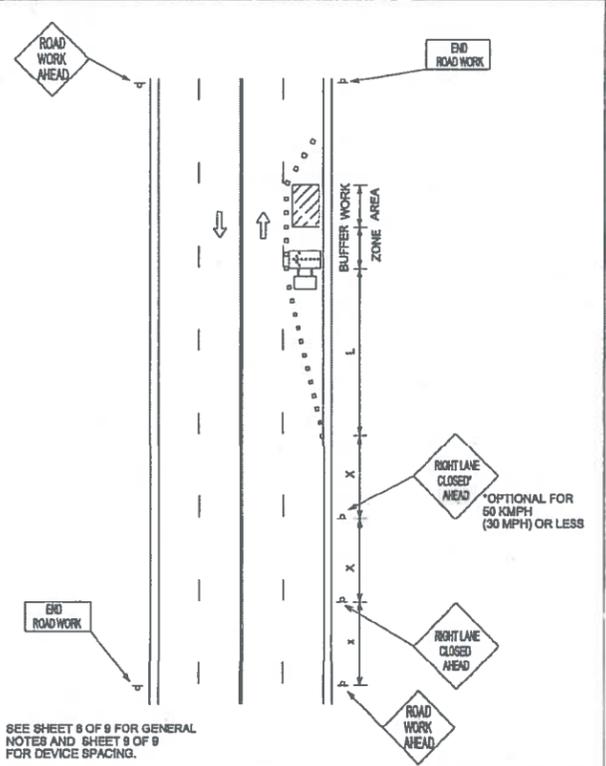
NOTES:
 1. ALL MATERIALS SHALL BE FURNISHED BY THE CONTRACTOR.
 2. LUMBER DIMENSIONS ARE NOMINAL.
 3. SIGN MUST BE IN COLOR.

| | | |
|--|---|----------------------------------|
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | 800mmx900mm (24"x36") C. I. P. MOVABLE SIGN TYPE II | STANDARD NO. 802S-2 1 OF 2 |
| <i>Rui Burchard-Jones</i> 4/4/11 DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | ADOPTED |

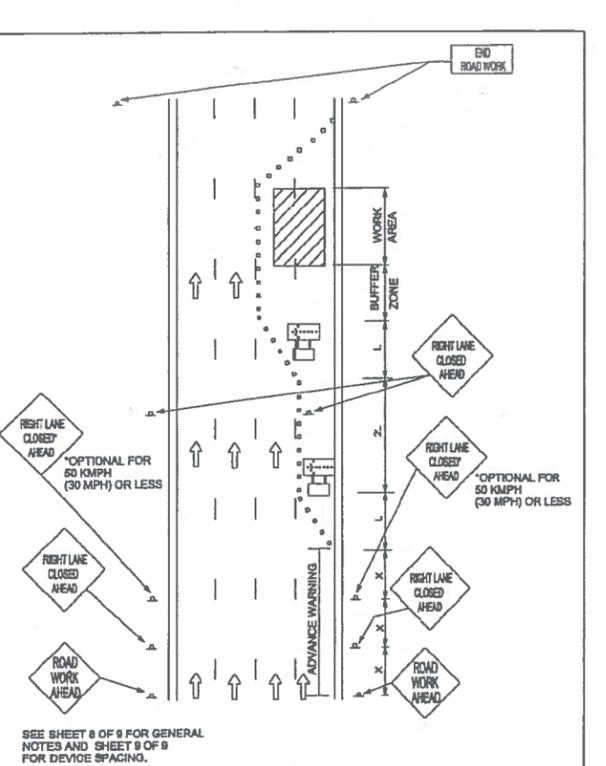


1. 228 mm (9") CITY SEAL (4 COLOR PROCESS)
 2. 90 mm (2") WHITE LETTERS
 3. TRANSPARENT BLUE PAINT
 4. 75 mm (3") WIDE TRANSPARENT YELLOW PAINT STRIPE
 5. HIGH INTENSITY WHITE REFLECTIVE SHEETING, .080 ALUMINUM 2290, 3M CO. OR EQUAL
 6. 83 mm (2 1/4") BLUE LETTERS
 7. 75 mm (1") BLUE LETTERS

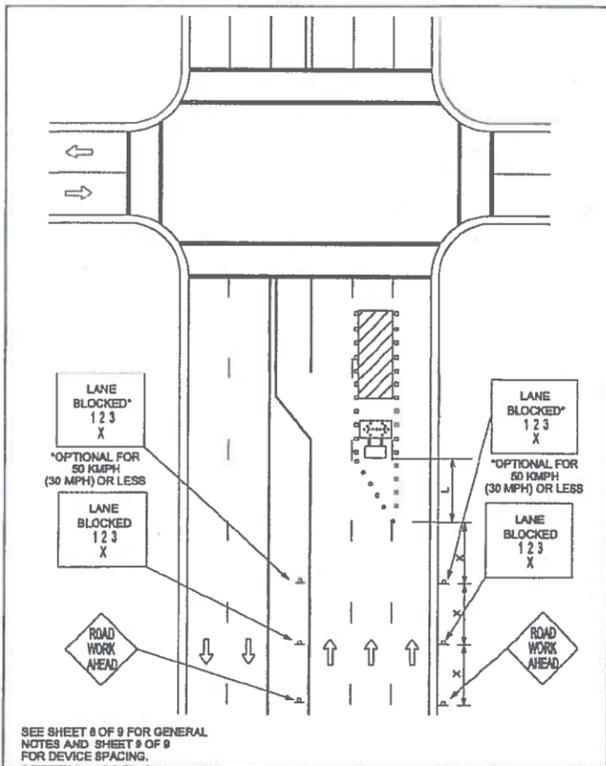
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|--|---|----------------------------------|
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | 800mmx900mm (24"x36") C. I. P. MOVABLE SIGN TYPE II | STANDARD NO. 802S-2 2 OF 2 |
| <i>Rui Burchard-Jones</i> 4/4/11 DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | ADOPTED |



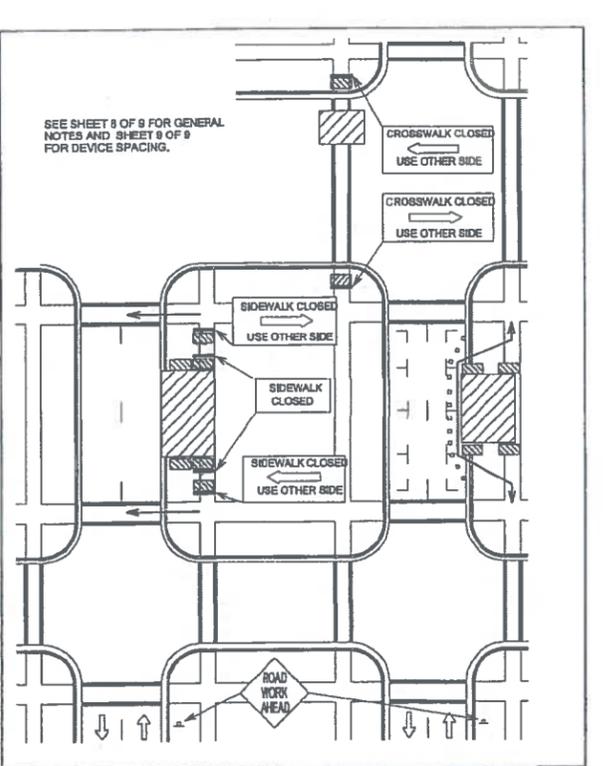
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| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | ARTERIAL ONE LANE CLOSURE | STANDARD NO. 804S-1 1 OF 9 |
| <i>Rui Burchard-Jones</i> 4/4/11 DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | ADOPTED |



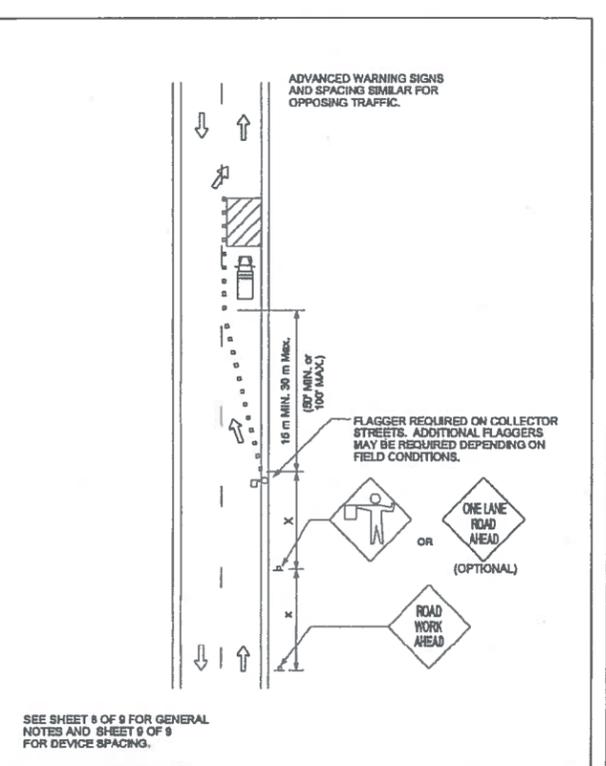
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| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | ONE WAY ARTERIAL TWO-LANE CLOSURE | STANDARD NO. 804S-1 2 OF 9 |
| <i>Rui Burchard-Jones</i> 4/4/11 DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | ADOPTED |



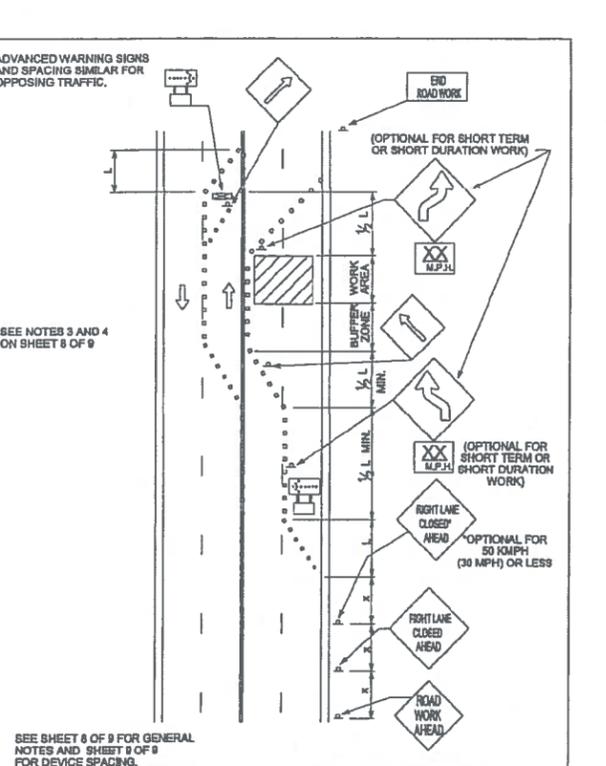
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|--|---|----------------------------------|
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | TWO WAY, DIVIDED ARTERIAL ONE LANE CLOSURE | STANDARD NO. 804S-1 3 OF 9 |
| <i>Rui Burchard-Jones</i> 4/4/11 DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | ADOPTED |



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|--|---|----------------------------------|
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | BYPASS WALKWAY, SIDEWALK AND CROSSWALK CLOSURES | STANDARD NO. 804S-1 4 OF 9 |
| <i>Rui Burchard-Jones</i> 4/4/11 DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | ADOPTED |

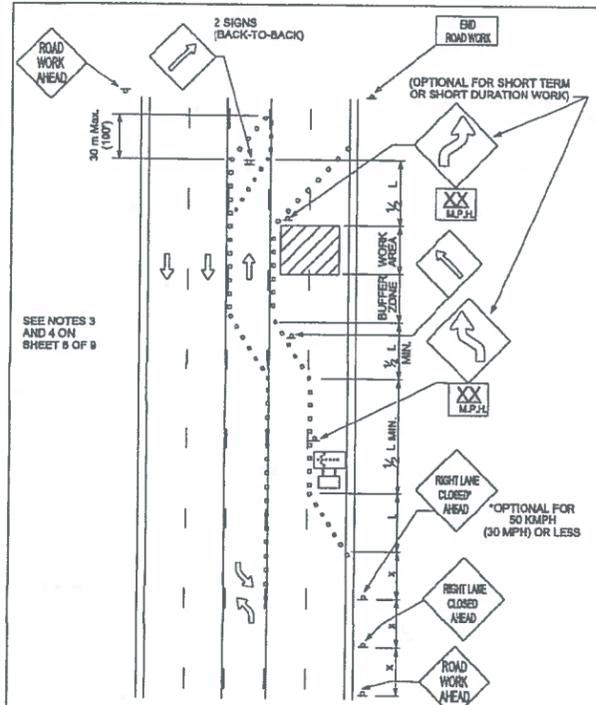


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| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | COLLECTOR/RESIDENTIAL LANE CLOSURES | STANDARD NO. 804S-1 5 OF 9 |
| <i>Rui Burchard-Jones</i> 4/4/11 DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | ADOPTED |



| | | |
|--|---|----------------------------------|
| CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS | TYPICAL TRAFFIC CONTROL PLAN FOR SHIFTING TRAFFIC | STANDARD NO. 804S-1 6 OF 9 |
| <i>Rui Burchard-Jones</i> 4/4/11 DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | ADOPTED |

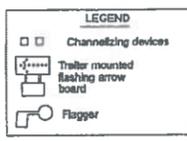
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| REVISION DESCRIPTION | DATE | REV BY |
| | | |
| | | |
| I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL. | | |
| CITY OF AUSTIN, TEXAS DEPARTMENT OF PUBLIC WORKS ENGINEERING SERVICES DIVISION WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ) CHALMERS AVE. & 6TH STREET ALLEY TRAFFIC CONTROL DETAILS SHEET 1 | | |
| NOTES | NAME | DATE |
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |
| | | |
| ENGINEERING SERVICES DIVISION | | |
| GP-2015-0264-AWU | | |
| SHEET 27 OF 29 | | |



1. ALL SETUPS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL.
2. TO DETERMINE APPROPRIATE DEVICES AND SIGN SIZES TO BE USED, REFER TO STANDARD 804S-5, SHEETS 5, 6 AND 7 OF 11.
3. FOR INTERMEDIATE-TERM SITUATIONS, WHEN IT IS NOT FEASIBLE TO REMOVE AND RESTORE PAVEMENT MARKINGS, THE CHANNELIZATION MUST BE MADE DOMINANT BY USING A VERY CLOSE DEVICE SPACING. THIS IS ESPECIALLY IMPORTANT IN LOCATIONS OF CONFLICTING INFORMATION, SUCH AS WHERE TRAFFIC IS DIRECTED OVER A DOUBLE YELLOW CENTERLINE. IN SUCH LOCATIONS, A MAXIMUM CHANNELIZING DEVICE SPACING OF 3 m (10') IS REQUIRED.
4. FOR LONG TERM STATIONARY WORK, ALL CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED AND CENTERLINE STRIPING PROVIDED WHERE TWO WAY TRAFFIC IS IN ADJACENT LANES.
5. FOR TEMPORARY PAVEMENT MARKING REQUIREMENTS SEE STANDARD 804S-3.
6. FOR ONE-WAY AND MULTI-LANE ROADWAYS THE "LANE BLOCKED" SIGN MAY BE USED IN LIEU OF THE "LANE CLOSED AHEAD" SIGN. THE NUMBER OF DIGITS ON THE SIGN SHALL NOT BE GREATER THAN THE NUMBER OF LANES PRESENT ON THE ROADWAY. THE "X" SHALL BE PLACED UNDER THE NUMBER OF LANE(S) BLOCKED.
7. FOR FLAGGING OPERATION REQUIREMENTS SEE STANDARD 804S-2.
8. CONTRACTOR SHALL PROVIDE SIDEWALK CLOSURES, CROSSWALK CLOSURES OR WALKWAY BYPASS WHEREVER PEDESTRIAN MOVEMENTS ARE AFFECTED BY CONSTRUCTION ACTIVITIES. ALL SIDEWALKS AND CROSSWALKS SHALL BE ACCESSIBLE WHEN CONTRACTOR IS NOT WORKING UNLESS APPROVED BY THE TRANSPORTATION DIVISION.
9. FOR EXCAVATION PROTECTION AND SAFETY FENCE REQUIREMENTS SEE STANDARD 804S-4.
10. THE USE OF ARROW DISPLAYS ARE REQUIRED ON ALL LANE CLOSURES. THE CONTRACTOR SHALL PROVIDE ONE (1) STAND-BY UNIT IN GOOD WORKING CONDITION AT THE JOB SITE, READY FOR USE IF THE OPERATION REQUIRES 24-HOUR A DAY LANE CLOSURE SET-UPS.

Typical Transition Lengths and Suggested Maximum Spacing of Devices

| Speed KM/PH | Posted Speed MPH | Formula | Minimum Desirable Taper Lengths (L) Meters (Feet) | | | Suggested Max. Device Spacing | | Suggested Sign Spacing Meters (Feet) |
|----------------|------------------------|-------------------------|---|---------------------------------------|---------------------------------------|-----------------------------------|-------------------------------------|--|
| | | | 3.0(10) Offset Meters (feet) | 3.5(11) Offset Meters (feet) | 3.8(12) Offset Meters (feet) | On a taper Meters (feet) | On a tangent Meters (feet) | |
| 50 | 30 | L=WS ² 60 | 45 (150) | 50 (165) | 55 (180) | 8 (30) | 15-30 (50-75) | 40 (120) |
| 55 | 35 | | 65 (205) | 70 (225) | 75 (245) | 10 (35) | 25-35 (70-80) | 50 (150) |
| 65 | 40 | | 80 (260) | 90 (295) | 100 (325) | 12 (40) | 25-40 (80-100) | 75 (240) |
| 70 | 45 | L=WS | 135 (450) | 150 (495) | 165 (540) | 13 (45) | 25-30 (80-110) | 100 (320) |
| 80 | 50 | | 150 (500) | 165 (550) | 180 (600) | 15 (50) | 30-35 (100-125) | 120 (400) |
| 90 | 55 | | 185 (605) | 195 (640) | 200 (660) | 16 (55) | 35-40 (110-140) | 150 (500) |
| 95 | 60 | L=WS | 180 (600) | 200 (660) | 220 (720) | 18 (60) | 40-45 (120-150) | 180 (600) |
| 105 | 65 | | 190 (620) | 215 (715) | 235 (770) | 19 (65) | 40-60 (130-185) | 210 (700) |
| 115 | 70 | | 215 (700) | 235 (770) | 255 (840) | 21 (70) | 45-55 (140-175) | 240 (800) |



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
TYPICAL TRAFFIC CONTROL PLAN
FOR SHIFTING TRAFFIC
THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE USE
OF THIS STANDARD.
804S-1
7 OF 8

CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
GENERAL NOTES
THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE USE
OF THIS STANDARD.
804S-1
8 OF 8

CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
DEVICE SPACING
THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE USE
OF THIS STANDARD.
804S-1
8 OF 8

REVISION DESCRIPTION

| REV. NO. | DATE | DESCRIPTION |
|----------|------|-------------|
| | | |

STATE OF TEXAS
RUBEN LOPEZ, JR.
Professional Engineer
No. 93745
The Seal Appearing on This Document Was Authorized by Ruben Lopez, Jr. Lic. # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION
WASTEWATER RENEWAL PROGRAM PIPELINES (IDIQ)
CHALMERS AVE. & 6TH STREET ALLEY
TRAFFIC CONTROL DETAILS SHEET 2

CITY OF AUSTIN
FOUNDED 1859

| NOTES | NAME | DATE |
|-------------|------|-------|
| SURVEY BY | QMD | 07/15 |
| DRAWN BY | DA | 08/15 |
| CHECKED BY | RL | 08/15 |
| DESIGNED BY | DA | 08/15 |
| REVIEWED BY | ESD | 09/15 |

ESD
ENGINEERING SERVICES
DIVISION
GP-2015-0264.AWU
SHEET 28 OF 29

N:\TEAM\AWU\WV\RELAY\82_CHALMERS AVE. & ALLEY\PRODUCTION\FILES\DWG\CAL-CT120612.DWG, COA_F0F_2204_C0A_ESD 518

City of Austin
General Permit Program
Small Project Exemption Notification

General Permit Program

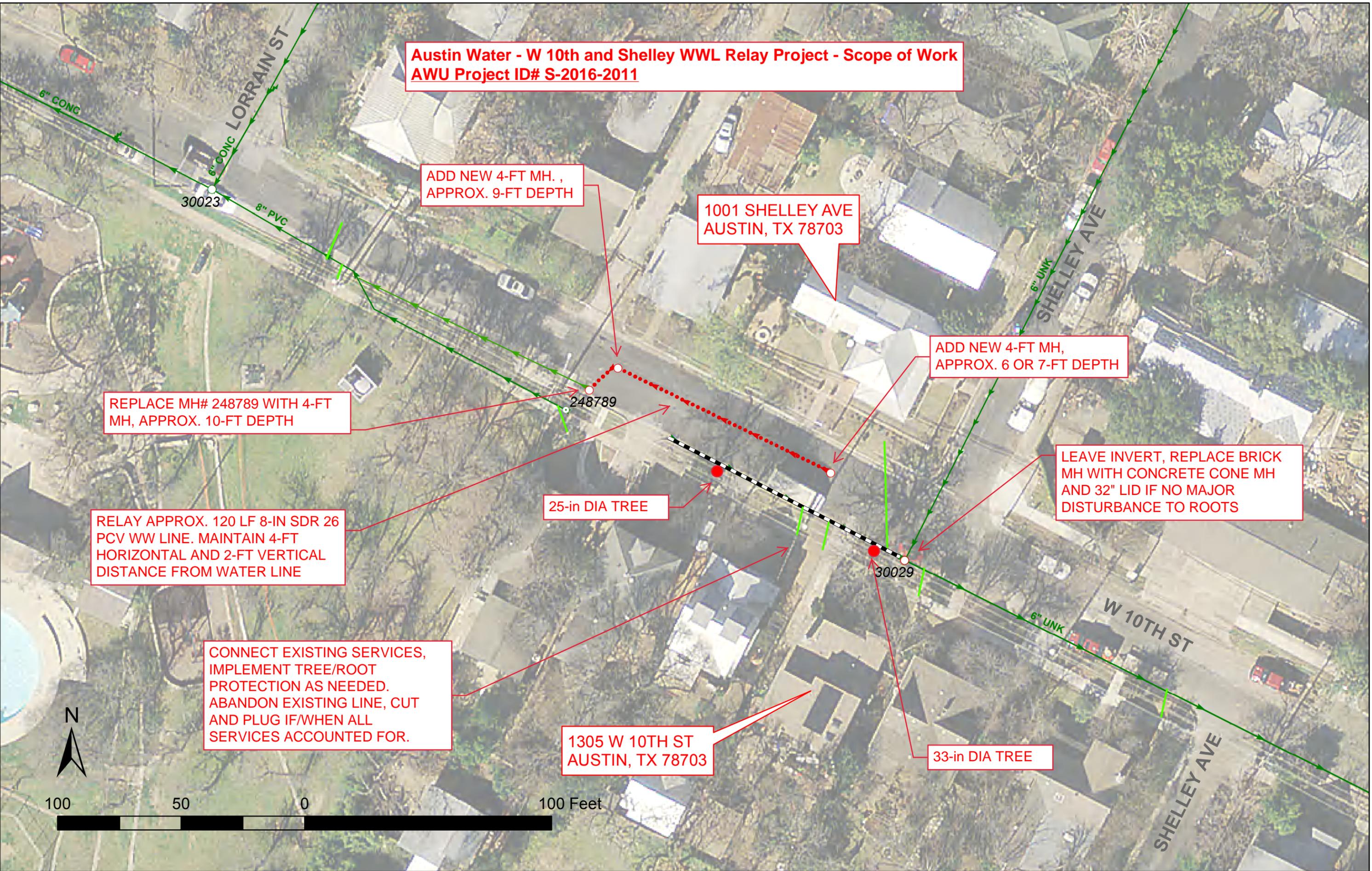
Small Project Exemption Notification

To: O. B. McKown – General Permit Program Coordinator
From:
Subject: **General Permit Small Project Notification Submittal**
Date:

The following information is submitted to serve as notification of project(s) less than 300 linear feet and less than 3000 square feet of total impacted area, including traffic control, to the COA General Permit Program Office (Please attach any relevant drawings/photos). This document serves as equivalent to a standard site plan exemption for applicable General Permit Projects which do not require formal submittal for plan review. May not be utilized for multiple contiguous areas.

| |
|---|
| Brief Summary of the Project Scope: |
| Owner/Project Manager/Contact Name and Phone Number: |
| Project Contractor Name and Phone Number: |
| Location:address /address range, zoning classification if on property outside right-of-way |
| Watershed Name: |
| Watershed Classification: |
| Annual General Permit Number and Expiration Date: |
| Time Frame of Project, Including Projected Status and Completion Dates: |
| Environmental Issues or Impact (If applicable), including Methods of E & S Controls and Tree Protection to be Utilized, staging area information: |
| Obtained Right-of-Way Excavation Permit/Date (if applicable) |

Austin Water - W 10th and Shelley WWL Relay Project - Scope of Work
AWU Project ID# S-2016-2011



ADD NEW 4-FT MH. ,
APPROX. 9-FT DEPTH

1001 SHELLEY AVE
AUSTIN, TX 78703

ADD NEW 4-FT MH,
APPROX. 6 OR 7-FT DEPTH

REPLACE MH# 248789 WITH 4-FT
MH, APPROX. 10-FT DEPTH

RELAY APPROX. 120 LF 8-IN SDR 26
PCV WW LINE. MAINTAIN 4-FT
HORIZONTAL AND 2-FT VERTICAL
DISTANCE FROM WATER LINE

25-in DIA TREE

LEAVE INVERT, REPLACE BRICK
MH WITH CONCRETE CONE MH
AND 32" LID IF NO MAJOR
DISTURBANCE TO ROOTS

CONNECT EXISTING SERVICES,
IMPLEMENT TREE/ROOT
PROTECTION AS NEEDED.
ABANDON EXISTING LINE, CUT
AND PLUG IF/WHEN ALL
SERVICES ACCOUNTED FOR.

1305 W 10TH ST
AUSTIN, TX 78703

33-in DIA TREE

