Olmito Water Supply Corp.

Cameron County, Texas

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

FUNDING BY:
TxCDBG Colonia Fund Construction Program Project No. CFC21-0446

OLMITO WSC

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Texas 811
Know what's below. Call before you dig.

JUNE 2022

STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED PROFESSIONAL ENGINEER
11/15-22

PROJECT LOCATION:

OLMITO, TEXAS
SUBMITTED TO OLMITO WATER SUPPLY CORPORATION

PROJECT DESCRIPTION / NOTES:

ISSUED:

FOR TCEQ REVIEW JULY 26, 2022
ISSUED FOR BIDDING NOVEMBER 15TH, 2022

VICINITY MAP:

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No: F - 4860

FILE: 0-OLMCOVER

WATERLINE PROJECT LOCATION AREA

HWY 100

FM-803

U.S. EXPRESSWAY-83

FM-511

FM-1732 OLMITO-CAVAZOS RD

OLMITO

RANCHO VIEJO

SAN CARLOS

OLD ALICE ROAD

FRESNOS LAND & IRRIGATION CO. SUBDIVISION

SAMANO PARTITION 2

SHARE 3—WYMORE—TRACT

STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED
PROFESSIONAL ENGINEER
11-15-22

OLMITO WATER SUPPLY CORP.			WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT				
CRUZ - HOGAN ENGINEERS | PLANNERS McAllen | Harlingen | Weslaco TBPE FIRM REGISTRATION No. : F - 4860			LOCATION MAP				
DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.	
O.S.C.	R.G.	578	JUNE, '22	N.T.S.	FILE NAME	1	

GENERAL NOTES

1. CONTRACTOR TO CONTACT ALL UTILITIES COMPANIES IN THE AREA FOR FIELD VERIFICATION OF EXISTING FACILITIES. UTILITY COMPANY'S INCLUDED BUT NOT BE LIMITED TO THE FOLLOWING:

OLMITO WATER SUPPLY CORP.	(956) 350-4099
AEP	1-800-373-4858
TEXAS GAS SERVICE	(956) 444-3966
SPECTRUM	1-833-694-9259
TEXAS 811	811

*CONTRACTOR TO COORDINATE ANY UTILITY ADJUSTMENT WITH EACH UTILITY ENTITY.

2. CONTRACTOR SHALL VISIT THE SITES PRIOR TO BIDDING AND BECOME CAREFULLY FAMILIAR WITH THE SITE AND ITEMS OF WORK WHICH ARE REQUIRED.
3. ALL IMPROVEMENTS TO BE IN ACCORDANCE WITH ALL LOCAL CODES, STATE, TCEQ AND FEDERAL REGULATIONS.
4. WORK TO OCCUR DURING REGULAR WORKING HOURS (8:00am TO 5:00pm), MONDAY THROUGH FRIDAY UNLESS APPROVED BY OWNER.
5. THE CONTRACTOR WILL VERIFY ALL CONNECTIONS INTO EXISTING WATER LINES, SEWER LINES, ETC. PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO EXPOSE ANY EXISTING FACILITY THAT MAY BE IN CONFLICT PRIOR TO START OF CONSTRUCTION.
7. ALL EXISTING CITY UTILITIES (WATER/SEWER) SHOWN ARE FROM BEST INFORMATION AVAILABLE. NEITHER THE ENGINEER NOR THE CITY IS RESPONSIBLE FOR THE ACCURACY OF LOCATION.
8. CONTRACTOR SHALL KEEP ALL WATER AND SANITARY SEWER SERVICES OPERATIONAL.
9. EXISTING POWER POLES, CONCRETE STAND PIPES, ETC. WILL NEED TO BE BRACED DURING ADJACENT CONSTRUCTION.
10. CONTRACTOR SHALL USE CARE WHILE TRENCHING IN THE VICINITY OF TREES AS NECESSARY TO AVOID DAMAGING THE ROOT SYSTEMS AS MUCH AS POSSIBLE.
11. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PROTECT TREES, GRASS, SHRUBBERY, SIDEWALKS, SIGNS, DRIVEWAYS, FENCING AND ALL UTILITIES. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGE DURING CONSTRUCTION TO SUCH ITEMS AT HIS OWN EXPENSE. BOUNDARY FENCES OR OTHER IMPROVEMENTS REMOVED TO PERMIT CONSTRUCTION SHALL BE REPLACED IN THE SAME LOCATION AND IN A CONDITION AS GOOD OR BETTER THAN IN WHICH THEY WERE FOUND. NO COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR REMOVAL AND REPLACEMENT OF FENCES. ALL SIGNS MOVED DURING CONSTRUCTION ARE TO BE RE-ERECTED AT NO ADDITIONAL EXPENSE TO THE OWNER.
12. THESE PLANS PREPARED BY CRUZ-HOGAN CONSULTANTS, INC. DO NOT EXTEND TO OR INCLUDE DESIGN OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF CRUZ-HOGAN CONSULTANTS, INC. REGISTERED PROFESSIONAL ENGINEER (S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70TH LEGISLATURE REGULAR SESSION.
13. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. BEFORE FINAL COMPLETION OF THIS PROPOSED WORK, ALL ROADWAY, SLOPES, DITCHES AND BERMS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
14. CONTRACTOR SHALL AT ALL TIMES ALLOW ACCESS TO EXISTING DRIVEWAYS OR PROVIDE/MAINTAIN ALTERNATIVE ALL-WEATHER ROUTES.
15. THE CONTRACTOR SHALL PROVIDE ALL BARRICADES, FLAGGING, LIGHTING, TRAFFIC AND SAFETY SIGNS AND OTHER ITEMS NECESSARY TO MAINTAIN THE SAFETY OF THE PUBLIC, STUDENTS AND THE EMPLOYEES. CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND/OR SAFETY OF THE WORK SITE, WORKERS, SUBCONTRACTORS, MATERIALS AND/OR EQUIPMENT.
16. TRENCHES OR EXCAVATIONS MAY NOT BE LEFT OPEN OVERNIGHT UNLESS AUTHORIZED IN WRITING BY THE ENGINEERING DEPARTMENT. IN SUCH CASES, THE CONTRACTOR MUST PROVIDE ½" STEEL PLATES OVER PLATES WITH ANCHORING AS PER SPECIFICATIONS TO BE PROVIDED BY THE **OLMITO WSC.**
17. **OLMITO WSC** WILL HAVE THE OPTION TO KEEP SALVAGED MATERIALS; IF **OLMITO WSC** DECIDES NOT TO KEEP SALVAGED MATERIALS, THE CONTRACTOR WILL BE RESPONSIBLE TO DISPOSE AT HIS EXPENSE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXCAVATED MATERIAL AND DEBRIS FROM THE SITE AT NO ADDITIONAL EXPENSE TO THE OWNER. NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG NATURAL DRAINAGE WAYS, WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. CONTRACTOR SHALL NOT PLACE FILL OR WASTE MATERIAL ON ANY PRIVATE PROPERTY WITH PRIOR WRITTEN AGREEMENT WITH THE PROPERTY OWNER.
18. THE ENGINEER WILL BE THE FINAL AUTHORITY OF ALL CONFLICTS, DISCREPANCIES, AND THE INTERPRETATIONS OF THE DRAWINGS OR SPECIFICATIONS.
19. ENGINEER WILL PROVIDE REFERENCE POINTS (ONLY) FOR CONSTRUCTION STAKEOUT. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKEOUT AND HUB/FLAGGING LOCATIONS. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKEOUT AND SURVEYING. ALL FIELD SURVEY LAYOUT WORK TO BE APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION. HUBS ARE REQUIRED AT 50 FOOT SPACING AND AT ALL BENDS AND FITTING, ETC.

GENERAL NOTES CONT'D

20. ALL REFERENCE TO THE TEXAS DEPARTMENT OF TRANSPORTATION SHALL REFER TO THE LATEST EDITION.
21. BACKFILL IN RIGHT-OF-WAYS OF TEXAS DEPARTMENT OF TRANSPORTATION WILL BE AS PER THEIR SPECIFICATIONS.
22. THE CONTRACTOR SHALL HOLD HARMLESS THE **OLMITO WSC** AND THE PROJECT ENGINEER AGAINST ANY ACTION FOR PERSONAL INJURY OR PROPERTY DAMAGE SUSTAINED BY REASON OF THE EXERCISE OF THIS CONSTRUCTION.
23. THE CONTRACTOR SHALL HAVE A FULL TIME SUPERINTENDENT AT PROJECT SITE DURING THE PROJECT AND AT ALL TIMES DURING ANY CONSTRUCTION ACTIVITIES. THE SUPERINTENDENT SHALL BE A DIRECT EMPLOYEE OF THE CONTRACTOR.
24. CONTRACTOR SHALL NOT SUBCONTRACT MORE THAN 35 PERCENT OF THE TOTAL PROJECT CONSTRUCTION
25. THE CONTRACTOR SHALL LEAVE SITE IN CONDITION FOUND. ANY DISTURBED AREAS SHALL BE BROUGHT TO CONDITION FOUND. ALL DISTURBED AREAS SHALL BE-SEED BY USE OF HYDROMULCH.

SPECIAL PROVISIONS

1. OLMITO WSC EXISTING WATER AND SEWER UTILITIES

THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED BY THE ENGINEERING SURVEY PARTY, FROM EXISTING UTILITY COMPANY RECORDS AND MAPPINGS AND FROM LOCATION/SPOTTING PROVIDED BY THE **OLMITO WSC**.

THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED.

THE CONTRACTOR IS HEREBY MADE EXTREMELY AWARE THAT ALL WATER AND SEWER LINES CAN NOT BE ACCURATELY LOCATED AND IN CASES MAY BE UNABLE TO BE SPOTTED OR LOCATED BY THE OLMITO WSC DUE TO THE UNAVAILABILITY OF ACCURATE RECORDS AND MAPPING.

IN THE EVENT THAT ANY WATER AND SEWER LINE, WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS OR NOT SPOTTED ON THE GROUND BY **OLMITO WSC** PERSONNEL DUE TO UNAVAILABILITY OF RECORDS ARE ENCOUNTERED, IT SHALL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY TO LOCATE SUCH UNDERGROUND UTILITIES SUFFICIENTLY IN ADVANCE OF OPERATIONS TO PRECLUDE DAMAGE TO SAME.

IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO LOCATE SUCH UNDERGROUND WATER AND SEWER UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO PRECLUDE DAMAGE TO THE WATER AND SEWER LINES.

IN THE EVENT THAT THE CONTRACTOR DAMAGES ANY **OLMITO WSC** WATER OR SEWER LINES OR FACILITIES, THE CONTRACTOR SHALL IMMEDIATELY MAKE THE NECESSARY REPAIRS TO PLACE THE WATER AND SEWER FACILITIES BACK IN SERVICE AT NO INCREASE IN THE CONTRACTOR'S PRICE.

ALL REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF **OLMITO WSC**.

2. TRENCH SAFETY

CONTRACTOR SHALL PROVIDE ALL REQUIRED TRENCH SAFETY SYSTEMS IN ACCORDANCE WITH OSHA REGULATIONS AND REQUIREMENTS OF TEXAS LEGISLATURE H.B. No 661 AND 665. TRENCH SAFETY SYSTEMS ARE REQUIRED FOR ANY EXCAVATION, OVER FIVE FEET IN DEPTH FOR SEWER LINES, MANHOLE, LIFT STATIONS, WATERLINE, ETC.

THE CONTRACTOR IS HEREBY MADE AWARE THAT HE IS TOTALLY RESPONSIBLE FOR TRENCH SAFETY, INCLUDING IMPLEMENTATION, DESIGN, CONSTRUCTION, INSPECTION ETC., AND HE HAS INCLUDED A TRENCH SAFETY SYSTEM IN HIS CONTRACT.

SEE SPECIFICATION SECTION FOR TRENCH SAFETY REQUIREMENTS.

3. TEXAS COMMISSION ON ENVIRONMENT QUALITY (TCEQ) RULES AND REQUIREMENTS

THE CONTRACTOR SHALL STRICTLY ADHERE TO TCEQ RULES AND REGULATIONS WHICH REGULATE THE INSTALLATION AND TESTING OF DOMESTIC WATER AND WASTEWATER PROJECTS AS DETAILED IN 30 TAC, CHAPTER 290 OF TCEQ RULES. ALL MINIMUM SEPARATION DISTANCES AND CROSSING REQUIREMENTS ARE TO BE STRICTLY ADHERED TO. IT IS THE CONTRACTOR'S RESPONSIBLE FOR THE ADHERENCE TO THESE REQUIREMENTS, AND REGULATIONS.

THE CONTRACTOR SHALL MAINTAIN SEPARATION DISTANCE IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTEWATER COLLECTION FACILITIES INCLUDING MANHOLES. IF THIS DISTANCE CANNOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED MUST MEET 30 TAC §290.44(e)(1)-(4).

SPECIAL PROVISIONS CONT'D

3. TEXAS COMMISSION ON ENVIRONMENT QUALITY (TCEQ) RULES AND REQUIREMENTS CONT'D

IF A NINE-FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE POTABLE WATERLINE SHALL BE ENCASED IN A JOINT OF AT LEAST 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOTED INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHALL BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEALANT 30 TAC §290.44(e)(5).

4. TESTING AND EXCAVATION

THE CONTRACTOR SHALL DISINFECT THE NEW WATERLINES IN ACCORDANCE WITH RECENT AWWA STANDARD C651-14 AND 30 TAC §290.44(f)(3), THEN FLUSH AND SAMPLE THE LINES BEFORE BEING PLACED IN SERVICE. DECHLORINATION OF DISINFECTING WATER SHALL BE IN STRICT ACCORDANCE WITH CURRENT AWWA STANDARD C655-09.

THE CONTRACTOR SHALL USE SELECT BACKFILL AT THE SITE. GRADING BACKFILL SHALL BE FREE OF DEBRIS AND GRASS. ALL SITE BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. BACKFILL SHALL HAVE A PLASTICITY INDEX OF LESS THAN 18.

ALL BACKFILL SHALL BE COMPACTED AT DENSITIES SHOWN ON THE DRAWINGS. INITIAL TESTING WILL BE PAID FOR BY **OLMITO WSC.** THE FIRST TEST, AT ANY OWNER SELECTED AREA, WILL BE PAID BY **OLMITO WSC.** ANY RE-TESTING REQUIRED DUE TO FAILING TEST, WILL BE PAID BY THE CONTRACTOR. **OLMITO WSC** WILL SELECT TESTING LABORATORY.

ALL BACKFILL SHALL BE PERFORMED IN 6 INCH LIFTS TO A CONDITION COMPARABLE TO ADJACENT, UNDISTURBED MATERIAL. CONTRACTOR SHALL CORRECT ANY FUTURE SETTLEMENT IN AREA OF EXCAVATION.

SEE PROJECT DRAWING FOR DETAIL SHOWING BACKFILL AND PAVEMENT REPAIRS.

ALL MATERIALS ARE SUBJECT TO APPROVAL BY THE ENGINEER PRIOR TO USE AND ANY MATERIAL FAILING APPROVAL SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

ALL TESTING AND SOIL ANALYSIS REQUIRED TO BE PAID BY THE OWNER. CONTRACTOR TO ARRANGE FOR ALL TESTING. ANY RE-TESTS, DUE TO FAILURE, SHALL BE PAID FOR BY THE CONTRACTOR. TESTING COMPANY MUST BE APPROVED BY ENGINEER AND OWNER.

5. TRAFFIC PROTECTION AND CONTROL

THE ROADWAY AND STREETS SHALL REMAIN OPEN FOR ACCESS TO TRAFFIC AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT CONTRACTOR TO PROVIDE TEMPORARY ALL-WEATHER ACCESS DURING CONSTRUCTION. CONTRACTOR IS TO INSTALL SIGNAGE TO INDICATE "CONSTRUCTION" AND BARRICADES AND LIGHTING AT PROJECT LIMITS. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR ALL TRAFFIC AFFECTED BY THE CONTRACTOR'S WORK WITH WARNING SIGNS, FLAGS, LIGHTS, AND FLAGMEN WHERE NECESSARY AND REQUIRED. A TEN FOOT (10') BUFFER ZONE SHALL BE MAINTAINED BETWEEN TRAFFIC AND WORK AREA. SHOULD ANY PORTION OF THE TRAVELWAY, INCLUDING A ZONE 5 FEET FROM THE PAVEMENT EDGE, BE RESTRICTED TO TRAFFIC DURING THE HOURS OF DARKNESS. THE JOBSITE AND PROJECT AREA SHALL BE PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TEXAS DEPARTMENT OF HIGHWAYS.

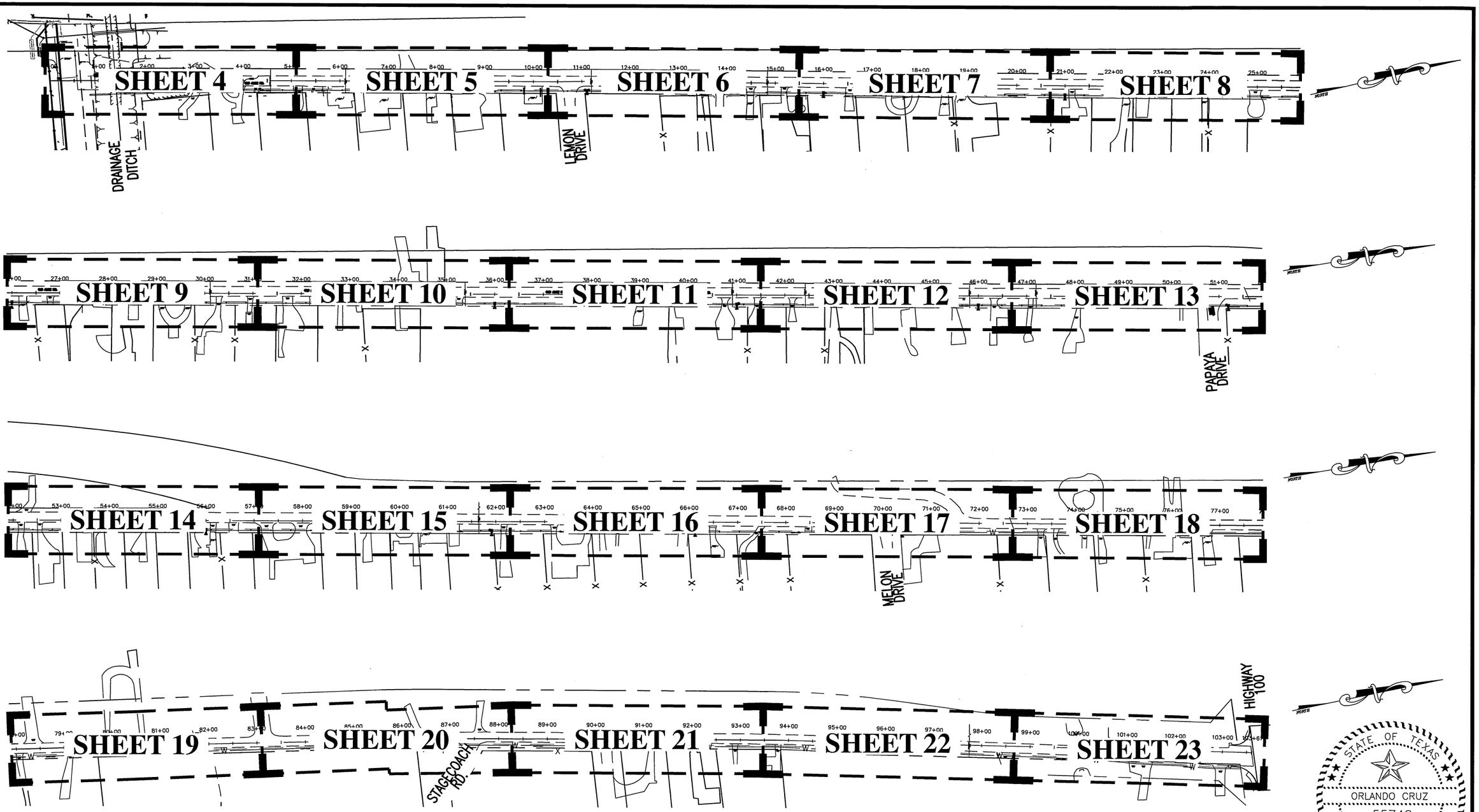
ALL TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE TOTALLY FAMILIAR WITH THE TEXAS DEPARTMENT OF HIGHWAYS SAFETY, TRAFFIC, BARRICADES AND CONSTRUCTION STANDARDS.

STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED PROFESSIONAL ENGINEER
11-15-22

OLMITO WATER SUPPLY CORP.	**WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT**
CRUZ - HOGAN ENGINEERS | PLANNERS McAllen | Harlingen | Weslaco TBPE FIRM REGISTRATION No.: F-4860	**GENERAL NOTES**

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	2



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OLMITO WATER SUPPLY CORP.	WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT
CRUZ - HOGAN ENGINEERS | PLANNERS McAllen | Harlingen | Weslaco TBPE FIRM REGISTRATION No.: F - 4860	SHEET LAYOUT

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
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Dropbox (Cruz-Hogan Consulton)\CHC Weslaco AutoCAD Files

EXISTING CHAIN LINK FENCE

EXISTING DITCH BERM

EXISTING HIGHBANK

WATER EDGE

CALICHE ROAD FOR TANK ACCESS

SEE ENLARGED DRAWING FOR DITCH CROSS SECTION SHEET 25

STA. 1+81± PROPOSED 1–12" GATE VALVE 1–VALVE MARKER POST

R.O.W.

5" ALIGNMENT

STA. 0+63 PROPOSED 1–12" TEE (CUT–IN) 1–12" GATE VALVE 2–12" COUPLINGS 1–VALVE MARKER POST

STA. 0+73 PROPOSED 1–12" 45° ELBOW

PROPOSED 90 LF 24" STEEL CASING INSTALLED BY OPEN CUT

REPAIR CALICHE PAVEMENT AT EXCAVATION

WATER LEAK DETECTION BOX

PROPOSED 12" DR–25 WATERLINE

0+00 0+50 1+00 1+50 2+00

EXISTING CHAIN LINK FENCING

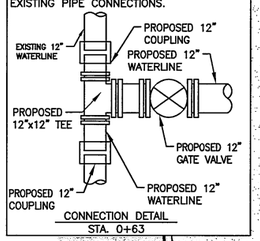
EXISTING 12" OLMITO W.S. WATERLINE

100' DRAINAGE DISTRICT No.1 EASEMENT

EXISTING 20' WIDE OLMITO WSC ACCESS ROAD

EXISTING 50' R.O.W.

NOTE: CUT ELBOW INTO EXISTING LINE. USE STEEL BOLTED FLEX COUPLINGS AT EXISTING PIPE CONNECTIONS.



CONNECTION DETAIL
STA. 0+63

EXISTING CALICHE ACCESS ROAD

115 FT.

EXISTING WATERLINE

EXISTING WATERLINE DITCH

DRAINAGE PIPE

EXISTING 6" WATERLINE TO BE ABANDONED

PL

MATCH LINE STA. 2+50

MATCH LINE STA. 5+10

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
20 15 10 5 0 10 20

EXISTING GATE STRUCTURE

5" ALIGNMENT

STA. 2+81± PROPOSED 1–90° ELBOW

STA. 2+81± PROPOSED 1–45° ELBOW

STA. 1+93± PROPOSED 1–45° ELBOW

CALICHE PAVEMENT

EXISTING 8" SAN. SEWER LINE

R.O.W.

2+50 3+00 3+50 4+00 4+50 5+00

ASPHALT PAVEMENT

OLD ALICE RD.

EXISTING 50' R.O.W.

REPAIR ASPHALT AT TRENCH EXCAVATION

ASPHALT DRIVE

EXISTING WATERLINE DITCH

EXISTING 6" WATERLINE

PROPOSED 3/4" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PROPOSED 12" DR–25 WATERLINE

EXISTING 6" WATERLINE TO BE ABANDONED

LOT 1 LOT 2 LOT 3

1. Contact Texas Gas Company for exact location, depth, and spotting of all gas main lines and gas service lines prior to any construction or excavation. Coordinate any gas line adjustments with gas company.
2. Contact AT&T Telephone Company for exact location, depth, and spotting of all telephone lines and telephone service lines prior to any construction or excavation. Coordinate any telephone line adjustments with telephone company.
3. Contact Olmito Water Supply Corporation for exact location of water and sewer mains and service lines prior to any construction and excavation. Coordinate any adjustments to such with the Olmito Water Supply Corporation.

STATE OF TEXAS
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1145-22

OLMITO WATER SUPPLY CORP.

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE STA. 0+00 TO STA. 5+10

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

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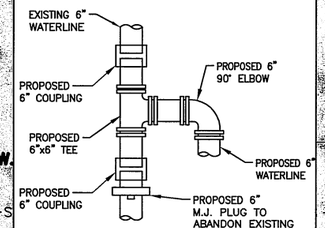
MATCH LINE STA. 5+10

MATCH LINE STA. 7+70

NOTE: CUT TEE INTO EXISTING LINE. USE STEEL BOLTED FLEX COUPLINGS AT EXISTING PIPE CONNECTIONS.



CONNECTION DETAIL
STA. 7+80±

OLD ALICE RD.

5+50 | 6+00 | 6+50 | 7+00

EXISTING 50' R.O.W.

R.O.W.

EXISTING SAN. SEWER MANHOLE

EXISTING 8" SAN. SEWER LINE

EXISTING SEWER SERVICE LINE (TYPICAL)

EXISTING 6" WATERLINE

CALICHE DRIVE

CONCRETE DRIVE

STA 5+40
1-12" GATE VALVE
1-VALVE MARKER POST

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

BORE UNDER EXISTING CONCRETE PAVEMENT

PROPOSED 12" DR-25 WATERLINE

EXISTING 6" WATERLINE TO BE ABANDONED

STA 7+80
1-6"x6" TEE (CUT-IN)
1-6" 90° ELBOW
1-6" MJ PLUG
2-6" COUPLINGS

STA 7+85
1-12"x6" TEE
1-6" GATE VALVE
1-6" VALVE POST

PL

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
20 15 10 5 0 10 20

MATCH LINE STA. 7+70

MATCH LINE STA. 10+30

8+00 | 8+50 | 9+00 | 9+50 | 10+00

OLD ALICE RD.

EXISTING 8" SAN. SEWER LINE

EXISTING 50' R.O.W.

R.O.W.

EXISTING 6" WATERLINE

CALICHE DRIVE

CONCRETE DRIVE

BORE UNDER EXISTING CONCRETE PAVEMENT

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PROPOSED 12" DR-25 WATERLINE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

EXISTING 6" WATERLINE TO BE ABANDONED

BORE UNDER EXISTING CONCRETE PAVEMENT

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PL

1. Contact Texas Gas Company for exact location, depth, and spotting of all gas main lines and gas service lines prior to any construction or excavation. Coordinate any gas line adjustments with gas company.
2. Contact AT&T Telephone Company for exact location, depth, and spotting of all telephone lines and telephone service lines prior to any construction or excavation. Coordinate any telephone line adjustments with telephone company.
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STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED PROFESSIONAL ENGINEER
11-15-22

OLMITO WATER SUPPLY CORP.

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE STA. 5+10 TO STA. 10+30

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE, '22	N.T.S.	FILE NAME	5

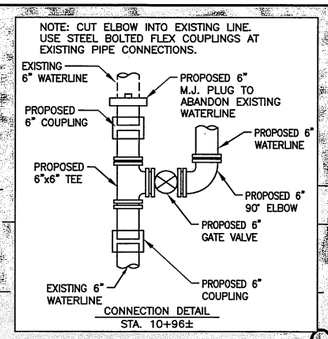
MATCH LINE STA. 10+30

MATCH LINE STA. 12+90

EXISTING 4" SAN. SEWER FORCEMAIN

EXISTING SAN. SEWER MANHOLE

NOTE: CUT ELBOW INTO EXISTING LINE. USE STEEL BOLTED FLEX COUPLINGS AT EXISTING PIPE CONNECTIONS.



CONNECTION DETAIL
STA. 10+96±

EXISTING 8" SAN. SEWER LINE

OLD ALICE RD.

10+50 11+00 11+50 12+00 12+50

R.O.W.

EXISTING 50' R.O.W.

STA 11+05
PROPOSED
1–12"x6" TEE

STA. 11+11
PROPOSED
1–12"x6" HYDRANT TEE
2–12" GATE VALVE AND BOX
1–6" GATE VALVE AND BOX
1–FIRE HYD. COMPLETE ASSEMBLY
1–VALVE MARKER POST

STA. 10+96±
PROPOSED
1–6"x6" TEE (CUT IN)
1–6" 90° ELBOW
2–6" COUPLING
1–6" GATE VALVE
1–6" M.J. PLUG

BORE UNDER EXISTING ROAD

LEMON ST.

EXISTING 8" SAN. SEWER LINE

EXISTING 6" WATERLINE

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED 12" DR–25 WATERLINE

EXISTING 6" WATERLINE

PL

MATCH LINE STA. 12+90

MATCH LINE STA. 15+50

EXISTING SAN. SEWER MANHOLE

EXISTING 8" SAN. SEWER LINE

13+00 13+50 14+00 14+50 15+00

OLD ALICE RD.

R.O.W.

EXISTING 50' R.O.W.

PROPOSED 12" DR–25 WATERLINE

CALICHE DRIVE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

EXISTING 6" WATERLINE

EXISTING 6" WATERLINE TO BE ABANDONED

CONCRETE DRIVE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PL

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
20 15 10 5 0 10 20

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WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE STA. 10+30 TO STA. 15+50

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE, '22	N.T.S.	FILE NAME	6

MATCH LINE STA. 15+50

MATCH LINE STA. 18+10

MATCH LINE STA. 18+10

MATCH LINE STA. 20+70

R.O.W.

EXISTING 50' R.O.W.

15+50 16+00 OLD ALICE RD. 16+50 17+00 17+50 18+00

EXISTING SAN. SEWER MANHOLE

EXISTING 8" SAN. SEWER LINE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

CALICHE DRIVE

EXISTING 6" WATERLINE

C.O.

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

STA. 16+00
PROPOSED
1-12"x6" HYDRANT TEE
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED 12" DR-25 WATERLINE

PL

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
20 15 10 5 0 10 20

EXISTING 8" SAN. SEWER LINE

EXISTING SAN. SEWER MANHOLE

18+50 19+00 19+50 OLD ALICE RD. 20+00 20+50

BORE UNDER EXISTING CONCRETE PAVEMENT

CONCRETE DRIVE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED 12" DR-25 WATERLINE

1. Contact Texas Gas Company for exact location, depth, and spotting of all gas main lines and gas service lines prior to any construction or excavation. Coordinate any gas line adjustments with gas company.
2. Contact AT&T Telephone Company for exact location, depth, and spotting of all telephone lines and telephone service lines prior to any construction or excavation. Coordinate any telephone line adjustments with telephone company.
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WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 15+50 TO STA. 20+70

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE,'22	N.T.S.	FILE NAME	7

MATCH LINE STA. 20+70

MATCH LINE STA. 23+30

MATCH LINE STA. 23+30

MATCH LINE STA. 25+90

OLD ALICE RD.

R.O.W.

EXISTING 50' R.O.W.

EXISTING 8" SAN. SEWER LINE

EXISTING SAN. SEWER MANHOLE

CALICHE DRIVE

ASPHALT DRIVE

CONCRETE DRIVE

EXISTING 6" WATERLINE

PROPOSED 12" DR-25 WATERLINE

BORE UNDER EXISTING CONCRETE PAVEMENT

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

STA. 21+00
PROPOSED
1-12"x6" HYDRANT TEE
1-12" GATE VALVE AND BOX
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

EXISTING 6" WATERLINE TO BE ABANDONED

REPAIR ASPHALT AT TRENCH EXCAVATION

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
20 15 10 5 0 10 20

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WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 20+70 TO STA. 25+90

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE,'22	N.T.S.	FILE NAME	8

MATCH LINE STA. 25+90

MATCH LINE STA. 28+50

MATCH LINE STA. 28+50

MATCH LINE STA. 31+10

OLD ALICE RD.

OLD ALICE RD.

EXISTING SAN. SEWER MANHOLE

EXISTING 8" SAN. SEWER LINE

EXISTING SAN. SEWER MANHOLE

EXISTING 8" SAN. SEWER LINE

R.O.W.

EXISTING 50' R.O.W.

26+00 26+50 27+00 27+50 28+00

29+00 29+50 30+00 30+50 31+00

CALICHE DRIVE

CONCRETE DRIVE

ASPHALT DRIVE

EXISTING 6" WATERLINE

C.O.

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

REPAIR DRIVE AT TRENCH EXCAVATION

BORE UNDER EXISTING CONCRETE PAVEMENT

STA. 17+30
PROPOSED
1-12"x6" HYDRANT TEE
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED 12" DR-25 WATERLINE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PL

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
20 15 10 5 0 10 20

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WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 25+90 TO STA. 31+10

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE, '22	N.T.S.	FILE NAME	9

MATCH LINE STA. 31+10

MATCH LINE STA. 33+70

EXISTING 8" SAN. SEWER LINE

EXISTING SAN. SEWER MANHOLE

R.O.W.

OLD ALICE RD.

31+50 | 32+00 | 32+50 | 33+00 | 33+50

EXISTING 50' R.O.W.

CALICHE DRIVE

ASPHALT DRIVE

CONCRETE DRIVE

CALICHE DRIVE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

REPAIR ASPHALT AT TRENCH EXCAVATION

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

EXISTING 6" WATERLINE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PROPOSED 12" DR-25 WATERLINE

EXISTING 6" WATERLINE TO BE ABANDONED

BORE UNDER EXISTING CONCRETE PAVEMENT

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PL

C.O.

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE

20 15 10 5 0 10 20

MATCH LINE STA. 33+70

MATCH LINE STA. 36+30

34+00 | 34+50 | 35+00 | 35+50 | 36+00

CALICHE DRIVE

CALICHE DRIVE

CALICHE DRIVE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

EXISTING 8" SAN. SEWER LINE

EXISTING 6" WATERLINE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED 12" DR-25 WATERLINE

STA. 36+00
PROPOSED
1-12"x6" HYDRANT TEE
1-12" GATE VALVE BOX
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

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OLMITO WATER SUPPLY CORP.

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 31+10 TO STA. 36+30

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	10

Dropbox (Cruz-Hogan Consultan)\CHC Weslaco AutoCAD Files

MATCH LINE STA. 36+30

MATCH LINE STA. 38+90

OLD ALICE RD.

R.O.W.

EXISTING 50' R.O.W.

36+50 37+00 37+50 38+00 38+50

EXISTING 8" SAN. SEWER LINE

EXISTING SAN. SEWER MANHOLE

EXISTING 6" WATERLINE

PROPOSED 12" DR-25 WATERLINE

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE

20 15 10 5 0 10 20

MATCH LINE STA. 38+90

MATCH LINE STA. 41+50

OLD ALICE RD.

39+00 39+50 40+00 40+50 41+00 41

EXISTING 8" SAN. SEWER LINE

EXISTING SAN. SEWER MANHOLE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

REPAIR ASPHALT AT TRENCH EXCAVATION

BORE UNDER EXISTING CONCRETE PAVEMENT

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED 12" DR-25 WATERLINE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

STA. 41+00
PROPOSED
1-12"x6" HYDRANT TEE
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

CONCRETE DRIVE

CALICHE DRIVE

ASPHALT DRIVE

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11-15-22

OLMITO WATER SUPPLY CORP.

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 36+30 TO STA. 41+50

CRUZ - HOGAN
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DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	11

Dropbox (Cruz-Hogan Consultant)\CHC Weslaco AutoCAD Files

MATCH LINE STA. 41+50

MATCH LINE STA. 44+10

MATCH LINE STA. 44+10

MATCH LINE STA. 46+70

OLD ALICE RD.

R.O.W.

EXISTING 50' R.O.W.

EXISTING 8" SAN. SEWER LINE

EXISTING SAN. SEWER MANHOLE

EXISTING 6" WATERLINE

CALICHE DRIVE

ASPHALT DRIVE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

REPAIR ASPHALT AT TRENCH EXCAVATION

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PROPOSED 12" DR-25 WATERLINE

EXISTING 6" WATERLINE TO BE ABANDONED

STA. 46+00
PROPOSED
1-12"x6" HYDRANT TEE
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
20 15 10 5 0 10 20

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WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 41+50 TO STA. 46+70

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	12

Dropbox (Cruz-Hogan Consultan)\CHC Weslaco AutoCAD Files

MATCH LINE STA. 46+70

MATCH LINE STA. 49+30

MATCH LINE STA. 49+30

MATCH LINE STA. 51+90

OLD ALICE RD.

EXISTING SAN. SEWER MANHOLE

EXISTING 8" SAN. SEWER LINE

R.O.W.

EXISTING 50' R.O.W.

47+00 47+50 48+00 48+50 49+00

REPAIR ASPHALT AT TRENCH EXCAVATION

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

ASPHALT DRIVE

CALICHE DRIVE

EXISTING 6" WATERLINE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PROPOSED 12" DR-25 WATERLINE

EXISTING 6" WATERLINE TO BE ABANDONED

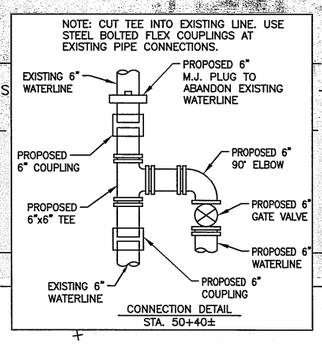
LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE

20 15 10 5 0 10 20

NOTE: CUT TEE INTO EXISTING LINE. USE STEEL BOLTED FLEX COUPLINGS AT EXISTING PIPE CONNECTIONS.



CONNECTION DETAIL
STA. 50+40±

EXISTING SAN. SEWER MANHOLE

EXISTING 4" SAN. SEWER FORCEMAIN

EXISTING 8" SAN. SEWER LINE

EXISTING SAN. SEWER MANHOLE

OLD ALICE RD.

50+00 51+00

STA 50+40± PROPOSED
1-6"x6" CUT-IN TEE
1-6" M.J. PLUG
1-6" GATE VALVE
1-6" 90° ELBOW
1-VALVE MARKER POST

REPAIR ASPHALT AT TRENCH EXCAVATION

ASPHALT DRIVE

BORE UNDER ASPHALT ROADWAY

STA 51+20± PROPOSED
1-12"x6" TEE
1-12" GATE VALVE

STA 51+60± PROPOSED
2-45° ELBOWS

EXISTING 6" WATERLINE

PROPOSED 12" DR-25 WATERLINE

EXISTING 6" WATERLINE TO BE ABANDONED

STA 50+35± PROPOSED
1-12"x6" TEE

PAPAYA DRIVE

EXISTING 8" SAN. SEWER LINE

STA. 51+11± PROPOSED
1-6"x6" TEE (CUT-IN)
1-6" 90° ELBOW
2-6" COUPLING
1-6" GATE VALVE
1-6" M.J. PLUG

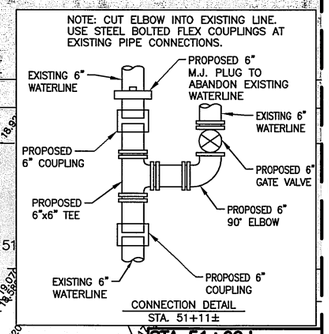
EXISTING 6" WATERLINE

STA. 51+21 PROPOSED
1-12"x6" HYDRANT TEE
1-12" GATE VALVE AND BOX
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

3' ALIGNMENT

R.O.W.

NOTE: CUT ELBOW INTO EXISTING LINE. USE STEEL BOLTED FLEX COUPLINGS AT EXISTING PIPE CONNECTIONS.



CONNECTION DETAIL
STA. 51+11±

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STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED PROFESSIONAL ENGINEER
11-15-22

OLMITO WATER SUPPLY CORP.

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 46+70 TO STA. 51+90

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
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MATCH LINE STA. 51+90

MATCH LINE STA. 54+50

EXISTING 8" SAN. SEWER LINE

CALICHE DRIVE

R.O.W.

OLD ALICE RD.

EXISTING 50' R.O.W.

52+00 52+50 53+00 53+50 54+00 54

ASPHALT DRIVE

CALICHE DRIVE

ASPHALT DRIVE

ASPHALT DRIVE

REPAIR ASPHALT AT TRENCH EXCAVATION

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

REPAIR ASPHALT AT TRENCH EXCAVATION

REPAIR ASPHALT AT TRENCH EXCAVATION

EXISTING 6" WATERLINE

C.O.

R.O.W.

PROPOSED 12" DR-25 WATERLINE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PL

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE

20 15 10 5 0 10 20

MATCH LINE STA. 54+50

MATCH LINE STA. 57+10

EXISTING 8" SAN. SEWER LINE

R.O.W.

OLD ALICE RD.

EXISTING 50' R.O.W.

54+50 55+00 55+50 56+00 56+50 57+00

CALICHE DRIVE

CALICHE DRIVE

CALICHE DRIVE

ASPHALT DRIVE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

REPAIR ASPHALT AT TRENCH EXCAVATION

EXISTING 6" WATERLINE

R.O.W.

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED 12" DR-25 WATERLINE

STA. 56+00
PROPOSED
1-12"x6" HYDRANT TEE
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

CONCRETE DRIVE

PL

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OLMITO WATER SUPPLY CORP.

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 51+90 TO STA. 57+10

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
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MATCH LINE STA. 57+10

MATCH LINE STA. 59+70

EXISTING 8" SAN. SEWER LINE

OLD ALICE RD.

57+50 58+00 58+50 59+00 59+50

EXISTING R.O.W. VARIES

CALICHE DRIVE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

EXISTING 6" WATERLINE TO BE ABANDONED

EXISTING 6" WATERLINE

R.O.W.

PROPOSED 12" DR-25 WATERLINE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PL

C.O.

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE

20 15 10 5 0 10 20

MATCH LINE STA. 59+70

MATCH LINE STA. 62+30

EXISTING 8" SAN. SEWER LINE

OLD ALICE RD.

60+00 60+50 61+00 61+50 62+00

EXISTING R.O.W. VARIES

CONCRETE DRIVE

ASPHALT DRIVE

CALICHE DRIVE

BORE UNDER EXISTING CONCRETE PAVEMENT

REPAIR ASPHALT AT TRENCH EXCAVATION

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

EXISTING 6" WATERLINE TO BE ABANDONED

EXISTING 6" WATERLINE

R.O.W.

PROPOSED 12" DR-25 WATERLINE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

STA. 61+91
PROPOSED
1-12"x6" HYDRANT TEE
1-12" GATE VALVE AND BOX
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

PL

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STATE OF TEXAS
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11-15-22

OLMITO WATER SUPPLY CORP.

CRUZ - HOGAN
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McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 57+10 TO STA. 62+30

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
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MATCH LINE STA. 62+30

MATCH LINE STA. 64+90

OLD ALICE RD.

62+50 63+00 63+50 64+00 64+50

EXISTING 8" SAN. SEWER LINE

EXISTING R.O.W. VARIES

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED 12" DR-25 WATERLINE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

CALICHE DRIVE

EXISTING 6" WATERLINE

R.O.W.

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PL

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE

20 15 10 5 0 10 20

MATCH LINE STA. 64+90

MATCH LINE STA. 67+50

OLD ALICE RD

65+00 65+50 66+00 66+50 67+00

EXISTING 8" SAN. SEWER LINE

EXISTING R.O.W. VARIES

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

EXISTING 6" WATERLINE TO BE ABANDONED

BORE UNDER EXISTING CONCRETE PAVEMENT

EXISTING 6" WATERLINE

C.O.

R.O.W.

CALICHE DRIVE

CONCRETE DRIVE

PROPOSED 12" DR-25 WATERLINE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

STA. 67+00
PROPOSED
1-12"x6" HYDRANT TEE
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY

PL

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WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 62+30 TO STA. 67+50

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
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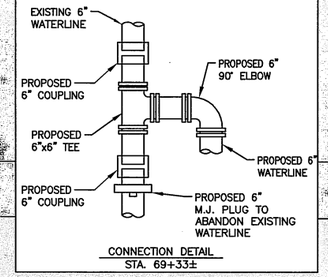
MATCH LINE STA. 67+50

MATCH LINE STA. 70+10

EXISTING 8" SAN. SEWER LINE

NOTE: CUT TEE INTO EXISTING LINE. USE STEEL BOLTED FLEX COUPLINGS AT EXISTING PIPE CONNECTIONS.



CONNECTION DETAIL
STA. 69+33±

68+50 OLD ALICE RD. 69+00

EXISTING R.O.W. VARIES

EXISTING 4" SAN. SEWER FORCEMAIN

EXISTING SAN. SEWER MANHOLE

EXISTING 6" WATERLINE

68+00 69+50 70+00

STA. 69+33
PROPOSED
1-6"x6" TEE
1-6" 90° ELBOW
2-6" COUPLING
1-6" MJ PLUG

BORE UNDER ASPHALT ROADWAY

EXISTING 8" SAN. SEWER LINE

REPAIR ASPHALT AT TRENCH EXCAVATION

ASPHALT DRIVE

EXISTING 6" WATERLINE

R.O.W.

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

EXISTING 6" WATERLINE TO BE ABANDONED

STA. 69+35
PROPOSED
1-12"x6" TEE
1-6" GATE VALVE
1-VALVE MARKER POST

MELON DR.

LEGEND

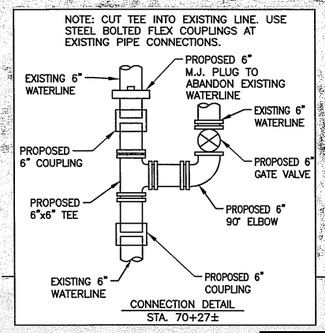
- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
20 15 10 5 0 10 20

MATCH LINE STA. 70+10

MATCH LINE STA. 72+70

NOTE: CUT TEE INTO EXISTING LINE. USE STEEL BOLTED FLEX COUPLINGS AT EXISTING PIPE CONNECTIONS.



CONNECTION DETAIL
STA. 70+27±

70+50 OLD ALICE RD. 71+00 71+50 72+00 72+50

EXISTING R.O.W. VARIES

STA. 70+40
PROPOSED
1-12"x6" HYDRANT TEE
1-12" GATE VALVE AND BOX
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

STA 70+27± PROPOSED
1-12"x6" TEE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

EXISTING 6" WATERLINE TO BE ABANDONED

EXISTING 6" WATERLINE

R.O.W.

DRIVE

PROPOSED 12" DR-25 WATERLINE

STA. 70+27±
PROPOSED
1-6"x6" TEE
1-6" 90° ELBOW
2-6" COUPLING
1-6" GATE VALVE
1-6" M.J. PLUG

EXISTING 6" WATERLINE

MELON DR.

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STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED PROFESSIONAL ENGINEER
11-15-22

OLMITO WATER SUPPLY CORP.

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 67+50 TO STA. 72+70

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
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MATCH LINE STA. 72+70

MATCH LINE STA. 75+30

OLD ALICE RD.

73+00 | 73+50 | 74+00 | 74+50 | 75+00

EXISTING R.O.W. VARIES

CALICHE DRIVE

EXISTING 6" WATERLINE TO BE ABANDONED

EXISTING 6" WATERLINE

R.O.W.

PROPOSED 12" DR-25 WATERLINE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

PL

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE

20 15 10 5 0 10 20

MATCH LINE STA. 75+30

MATCH LINE STA. 77+90

OLD ALICE RD.

75+50 | 76+00 | 76+50 | 77+00 | 77+50

EXISTING R.O.W. VARIES

CALICHE DRIVE

CONCRETE DRIVE

EXISTING 6" WATERLINE TO BE ABANDONED

EXISTING 6" WATERLINE

R.O.W.

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

BORE UNDER EXISTING CONCRETE DRIVE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PROPOSED 12" DR-25 WATERLINE

STA. 67+00
PROPOSED
1–12"x6" HYDRANT TEE
1–6" GATE VALVE AND BOX
1–FIRE HYD. COMPLETE ASSEMBLY

PL

1. Contact Texas Gas Company for exact location, depth, and spotting of all gas main lines and gas service lines prior to any construction or excavation. Coordinate any gas line adjustments with gas company.

2. Contact AT&T Telephone Company for exact location, depth, and spotting of all telephone lines and telephone service lines prior to any construction or excavation. Coordinate any telephone line adjustments with telephone company.

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OLMITO WATER SUPPLY CORP.

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WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 72+70 TO STA. 77+90

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
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MATCH LINE STA. 77+90

MATCH LINE STA. 80+50

78+00 78+50 79+00 79+50 80+00 80

OLD ALICE RD.

EXISTING R.O.W. VARIES

CALICHE DRIVE

CALICHE DRIVE

FUTURE 30" STORM LINE

EXISTING 6" WATERLINE TO BE ABANDONED

EXISTING 6" WATERLINE

R.O.W.

ASPHALT DRIVE

ASPHALT DRIVE

REPAIR ASPHALT AT TRENCH EXCAVATION

3 FT. ALIGNMENT

REPAIR ASPHALT AT TRENCH EXCAVATION

PROPOSED 2-45° BENDS

PROPOSED 2-45° BENDS

NOTES: DEFLECT NEW WATERLINE TO A DEPTH OF 8 FEET TO AVOID FUTURE 30" DRAIN LINE FLOW LINE OF FUTURE LINE IS 16.60

PROPOSED 12" DR-25 WATERLINE

EXISTING DITCH

PL

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE

20 15 10 5 0 10 20

MATCH LINE STA. 80+50

MATCH LINE STA. 83+10

GAYNOR RD.

81+00 81+50 82+00 82+50 83+00

OLD ALICE RD.

EXISTING R.O.W. VARIES

CALICHE DRIVE

CALICHE DRIVE

EXISTING 6" WATERLINE

R.O.W.

PROPOSED 12" DR-25 WATERLINE

EXISTING 6" WATERLINE TO BE ABANDONED

3 FT. ALIGNMENT

EXISTING DITCH

STA. 81+00
PROPOSED
1-12"x6" HYDRANT TEE
1-12" GATE VALVE AND BOX
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

1. Contact Texas Gas Company for exact location, depth, and spotting of all gas main lines and gas service lines prior to any construction or excavation. Coordinate any gas line adjustments with gas company.
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11-15-22

OLMITO WATER SUPPLY CORP.

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 77+90 TO STA. 83+10

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
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MATCH LINE STA. 83+10

MATCH LINE STA. 85+70

GAYNOR RD.

OLD ALICE RD.

EXISTING R.O.W. VARIES

83+50 | 84+00 | 84+50 | 85+00 | 85+50

EXISTING 6" WATERLINE TO BE ABANDONED

EXISTING 6" WATERLINE

R.O.W.

DITCH

EXISTING DITCH

PROPOSED 12" DR-25 WATERLINE

3 FT. ALIGNMENT

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

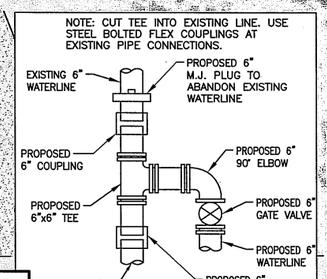
GRAPHIC SCALE

20 15 10 5 0 10 20

MATCH LINE STA. 85+70

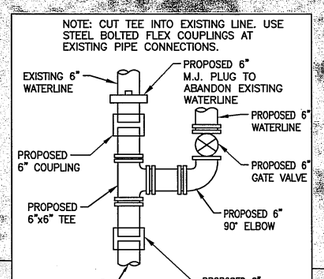
MATCH LINE STA. 88+27

NOTE: CUT TEE INTO EXISTING LINE. USE STEEL BOLTED FLEX COUPLINGS AT EXISTING PIPE CONNECTIONS.



CONNECTION DETAIL
STA. 86+00±

NOTE: CUT TEE INTO EXISTING LINE. USE STEEL BOLTED FLEX COUPLINGS AT EXISTING PIPE CONNECTIONS.



CONNECTION DETAIL
STA. 87+56±

FUTURE 36" STORMLINE

FUTURE 36" STORMLINE

EXISTING 8" SAN. SEWER LINE TO LIFT STATION

ALICHE DRIVE

NOTES: DEFLECT NEW WATERLINE TO A DEPTH OF 8 FEET TO AVOID FUTURE DRAIN LINE FLOW LINE OF FUTURE LINE IS 16.75

OLD ALICE RD.

86+50 | 87+50 | 88+00

STA. 86+00± PROPOSED
1-6"x6" TEE (CUT-IN)
2-6" COUPLING
1-6" GATE VALVE
1-6" 90° ELBOW
1-6" M.J. PLUG

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED 12" DR-25 WATERLINE

EXISTING STORM MANHOLE

STA. 87+69± PROPOSED
1-12x6" TEE

EXISTING SAN. SEWER MANHOLE

10 FT. MINIMUM SEPARATION

EXISTING 6" WATERLINE

R.O.W.

BORE UNDER ASPHALT ROADWAY

STA. 87+69± PROPOSED
1-6" 45° ELBOW

EXISTING 8" SAN. SEWER LINE

3 FT. ALIGNMENT

STA. 86+90 PROPOSED
1-12"X6" TEE

DITCH

EXISTING DITCH

PROPOSED 4-45° BENDS

EXISTING STORM LINE

STA. 87+56± PROPOSED
1-6"x6" TEE (CUT-IN)
2-6" COUPLING
1-6" GATE VALVE
1-6" 90° ELBOW
1-6" M.J. PLUG

STA. 87+64± PROPOSED
1-6" 45° ELBOW

STA. 87+00 PROPOSED
1-12"x6" HYDRANT TEE
1-12" GATE VALVE & BOX
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

STAGECOACH RD.

EXISTING 6" WATERLINE

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REVISED 11/8/22

STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED
PROFESSIONAL
ENGINEER
11-15-22

OLMITO WATER SUPPLY CORP.

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 83+10 TO STA. 88+27

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	20

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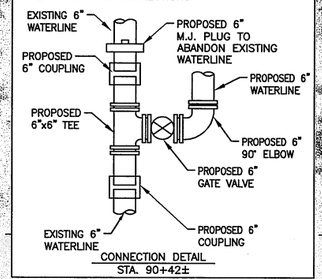
MATCH LINE STA. 88+27

MATCH LINE STA. 90+87

MATCH LINE STA. 90+87

MATCH LINE STA. 93+47

NOTE: CUT TEE INTO EXISTING LINE. USE STEEL BOLTED FLEX COUPLINGS AT EXISTING PIPE CONNECTIONS.



CONNECTION DETAIL
STA. 90+42±

OLD ALICE RD.

88+50 89+00 89+50 90+00 90+50

91+00 91+50 92+00 92+50 93+00

EXISTING R.O.W. VARIES

EXISTING 6" WATERLINE TO BE ABANDONED

EXISTING 6" WATERLINE

10 FT. MINIMUM SEPARATION

PROPOSED 12" DR-25 WATERLINE

3' ALIGNMENT

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

R.O.W.

BORE UNDER ASPHALT ROADWAY

EXISTING 8" SAN. SEWER LINE

STA. 90+42±
PROPOSED
1-6"x6" TEE (CUT-IN)
1-6" 90° ELBOW
2-6" COUPLING
1-6" GATE VALVE
1-6" M.J. PLUG
1-VALVE MARKER POST

STA. 90+58
PROPOSED
1-12"x6" HYDRANT TEE
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

STA. 90+50
PROPOSED
1-12"x6" TEE
1-12" GATE VALVE

EXISTING 8" SAN. SEWER LINE

EXISTING 6" WATERLINE

JOYA STREET

PL

EXISTING 6" WATERLINE

10 FT. MINIMUM SEPARATION

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

EXISTING 6" WATERLINE TO BE ABANDONED

CALICHE DRIVE

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

PL

CALICHE DRIVE

REPAIR CALICHE DRIVE AT TRENCH EXCAVATION

EXISTING 8" SAN. SEWER LINE

PROPOSED 12" DR-25 WATERLINE

R.O.W.

ASPHALT DRIVE

REPAIR ASPHALT AT TRENCH EXCAVATION

3' ALIGNMENT

EXISTING R.O.W. VARIES

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
20 15 10 5 0 10 20

1. Contact Texas Gas Company for exact location, depth, and spotting of all gas main lines and gas service lines prior to any construction or excavation. Coordinate any gas line adjustments with gas company.
2. Contact AT&T Telephone Company for exact location, depth, and spotting of all telephone lines and telephone service lines prior to any construction or excavation. Coordinate any telephone line adjustments with telephone company.
3. Contact Olmito Water Supply Corporation for exact location of water and sewer mains and service lines prior to any construction and excavation. Coordinate any adjustments to such with the Olmito Water Supply Corporation.

STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED PROFESSIONAL ENGINEER
11-15-22

OLMITO WATER SUPPLY CORP.

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 88+27 TO STA. 93+47

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE,'22	N.T.S.	FILE NAME	21

MATCH LINE STA. 93+47

MATCH LINE STA. 96+07

NOTES: CONTRACTOR SHALL CLEAR RIGHT-OF-WAY BETWEEN STA 94+00 TO STATION 96+50 FOR WATERLINE INSTALLATION (NOW PAY ITEM) INCIDENTAL TO BID

93+50 | 94+00 | 94+50 | 95+00 | 95+50 | 96+00

OLD ALICE RD.

EXISTING R.O.W. VARIES

EXISTING 6" WATERLINE

ASPHALT DRIVE

REPAIR ASPHALT AT TRENCH EXCAVATION

3 FT. ALIGNMENT

PROPOSED 12" DR-25 WATERLINE

EXISTING 6" WATERLINE TO BE ABANDONED

STA. 95+50
PROPOSED
1-12"x6" HYDRANT TEE
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY

EXISTING FIBER OPTIC LINE

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
20 15 10 5 0 10 20

MATCH LINE STA. 96+07

MATCH LINE STA. 98+67

96+50 | 97+00 | 97+50 | 98+00 | 98+50

OLD ALICE RD.

EXISTING R.O.W. VARIES

EXISTING 6" WATERLINE

3 FT. ALIGNMENT

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED 12" DR-25 WATERLINE

R.O.W.

CALICHE DRIVE

EXISTING FIBER OPTIC LINE

1. Contact Texas Gas Company for exact location, depth, and spotting of all gas main lines and gas service lines prior to any construction or excavation. Coordinate any gas line adjustments with gas company.
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OLMITO WATER SUPPLY CORP.

CRUZ - HOGAN
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WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE
STA. 93+47 TO STA. 98+67

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	22

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MATCH LINE STA. 98+67

MATCH LINE STA. 100+80

MATCH LINE STA. 100+80

MATCH LINE STA. 102+50

OLD ALICE RD.

EXISTING R.C.P. DRAINAGE CULVERT

120' IRRIGATION DISTRICT R.O.W.

EXISTING R.O.W. VARIES

99+00

99+50

100+00

100+50

ASPHALT PAVEMENT

EXISTING 6" WATERLINE

EXISTING FIBER OPTIC LINE

EXISTING BOX (IRRIGATION)

SEE ENLARGED DRAWING FOR IRRIGATION, CANAL AND DITCH CROSS SECTION SHEET 26

EXISTING 6" WATERLINE TO BE ABANDONED

PROPOSED 12" DR-25 WATERLINE

DITCH

IRRIGATION CANAL

R.O.W.

3 FT. ALIGNMENT

WATER LEAK DETECTION BOX

STA. 99+24± PROPOSED 1-12" GATE VALVE AND BOX 2-12" 90° ELBOW 1-VALVE MARKER POST

PROPOSED 110 LF 24" STEEL CASING (INSTALLED BY BORING)

STA. 100+40± PROPOSED 1-12" 45° ELBOW 1-12" GATE VALVE AND BOX 1-VALVE MARKER POST

10 FT.

3 FT. ALIGNMENT

STA. 100+40± PROPOSED 1-12" 90° ELBOW

101+00

101+50

102+00

102

CONCRETE PAVEMENT

EXISTING 120' R.O.W.

PROPOSED ¾" WATER SERVICE CONNECTION AT EXISTING METER (TYP.)(SEE DETAIL)

CONCRETE DRIVE

BORE UNDER EXISTING CONCRETE DRIVEWAY

EXISTING 6" WATERLINE

EXISTING GAS LINE

EXISTING 6" WATERLINE TO BE ABANDONED

EXISTING FIBER OPTIC LINE

STA. 101+00 PROPOSED 1-12"x6" HYDRANT TEE 1-6" GATE VALVE AND BOX 1-FIRE HYD. COMPLETE ASSEMBLY 1-VALVE MARKER POST

3 FT. ALIGNMENT

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE

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11-15-22

OLMITO WATER SUPPLY CORP.

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE STA. 98+67 TO 102+50

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	23

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MATCH LINE STA. 102+50

OLD ALICE RD.

HIGHWAY 100

CONCRETE PAVEMENT

ASPHALT DRIVE

EXISTING 4" WATERLINE

REPAIR ASPHALT DRIVE AT TRENCH EXCAVATION

EXISTING GAS LINE

EXISTING FIBER OPTIC LINE

EXISTING 6" WATERLINE TO BE ABANDONED

R.O.W.

3 FT

ALIGNMENT

STA. 102+94± PROP 1-12" 45° ELBOW

EXISTING 4" WATERLINE

5 FT. ALIGNMENT

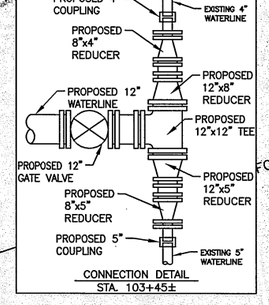
STA. 103+36 PROPOSED
1-12"x6" HYDRANT TEE
1-6" GATE VALVE AND BOX
1-FIRE HYD. COMPLETE ASSEMBLY
1-VALVE MARKER POST

STA. 103+40± PROP 1-12" 45° ELBOW

STA. 103+45± PROP
1-12" TEE (CUT-IN)
1-12" GATE VALVE
2-12"x8" REDUCER
2-8"x5" REDUCER
2-5" COUPLINGS
1-VALVE MARKER POST

EXISTING 5" WATERLINE

NOTE: CUT TEE INTO EXISTING LINE. USE STEEL BOLTED FLEX COUPLINGS AT EXISTING PIPE CONNECTIONS.



CONNECTION DETAIL
STA. 103+45±

CONNECTION DETAIL
STA. 0+33±

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
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11-15-22

OLMITO WATER SUPPLY CORP.

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE STA. 102+50 TO END

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE, '22	N.T.S.	FILE NAME	24

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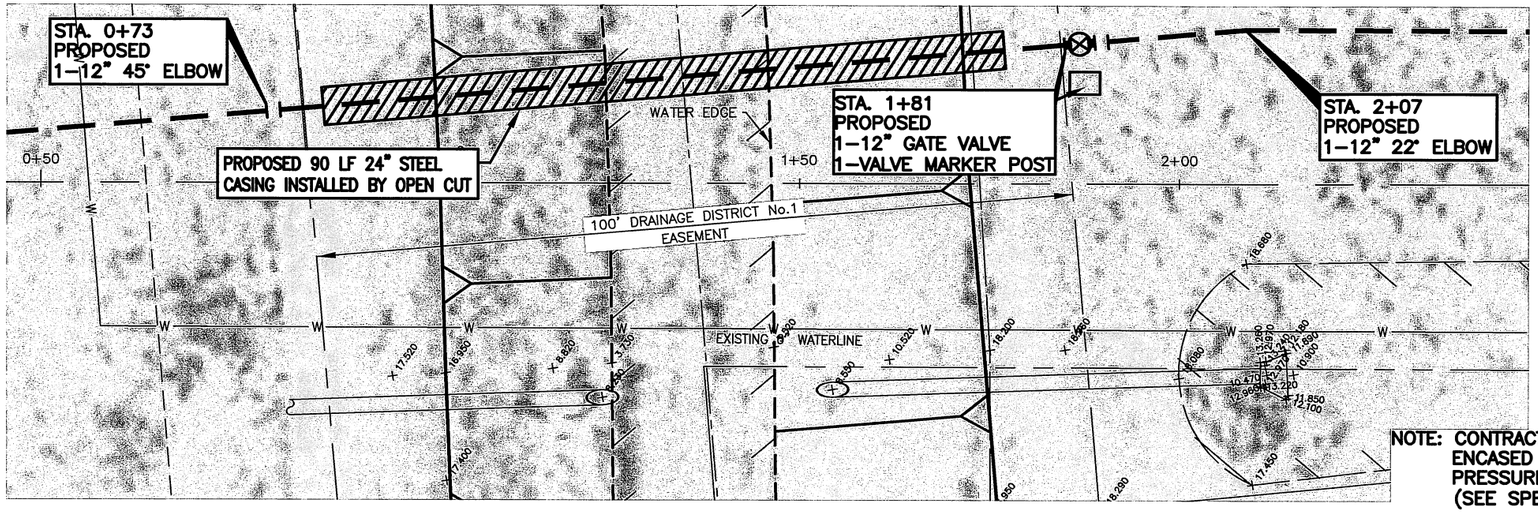
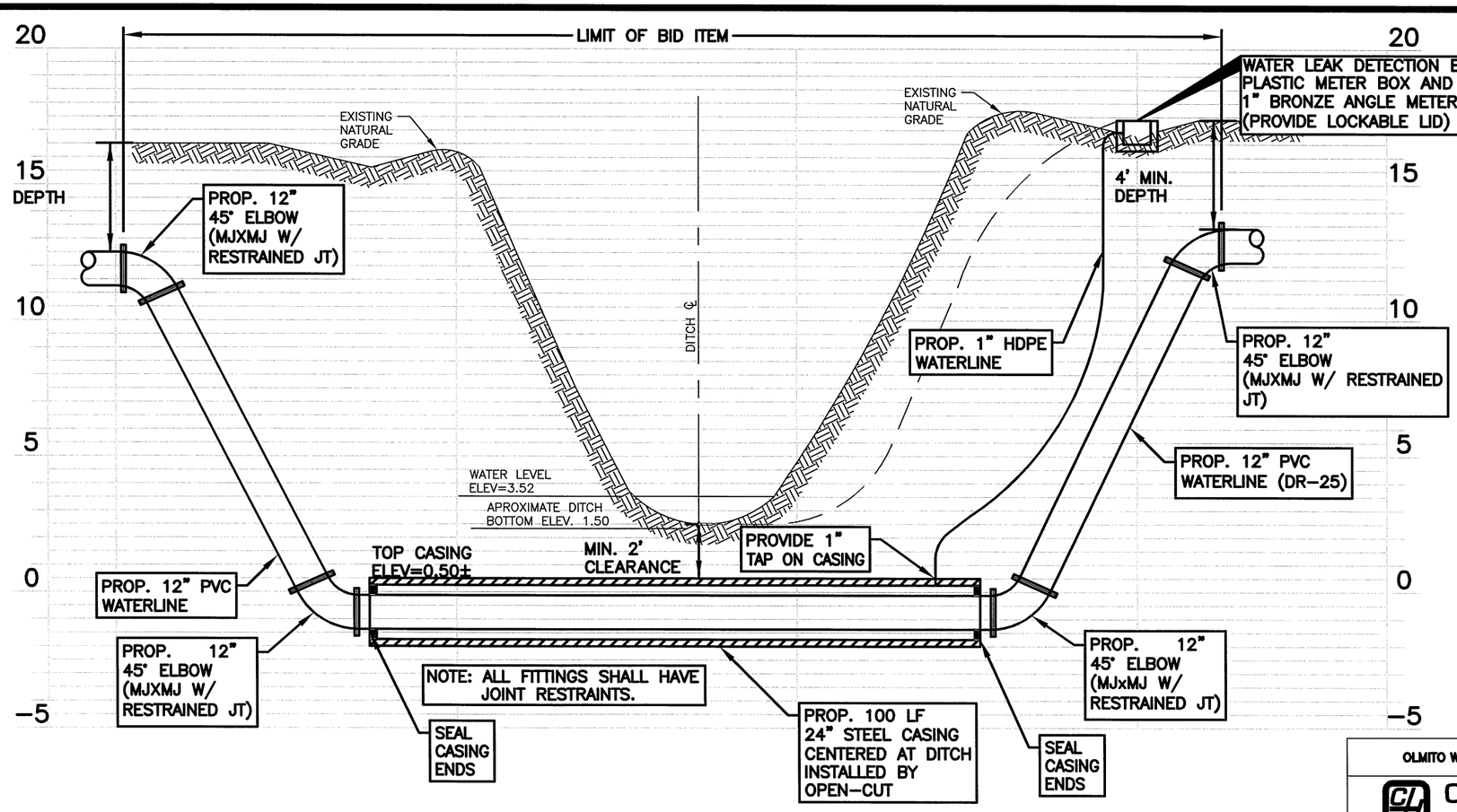


NOTE: CONTRACTOR SHALL ISOLATE ENCASED PIPE AT DITCH AND PRESSURE TEST FOR LEAKAGE. (SEE SPECIFICATION)

GRAPHIC SCALE
20 15 10 5 0 10 20

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

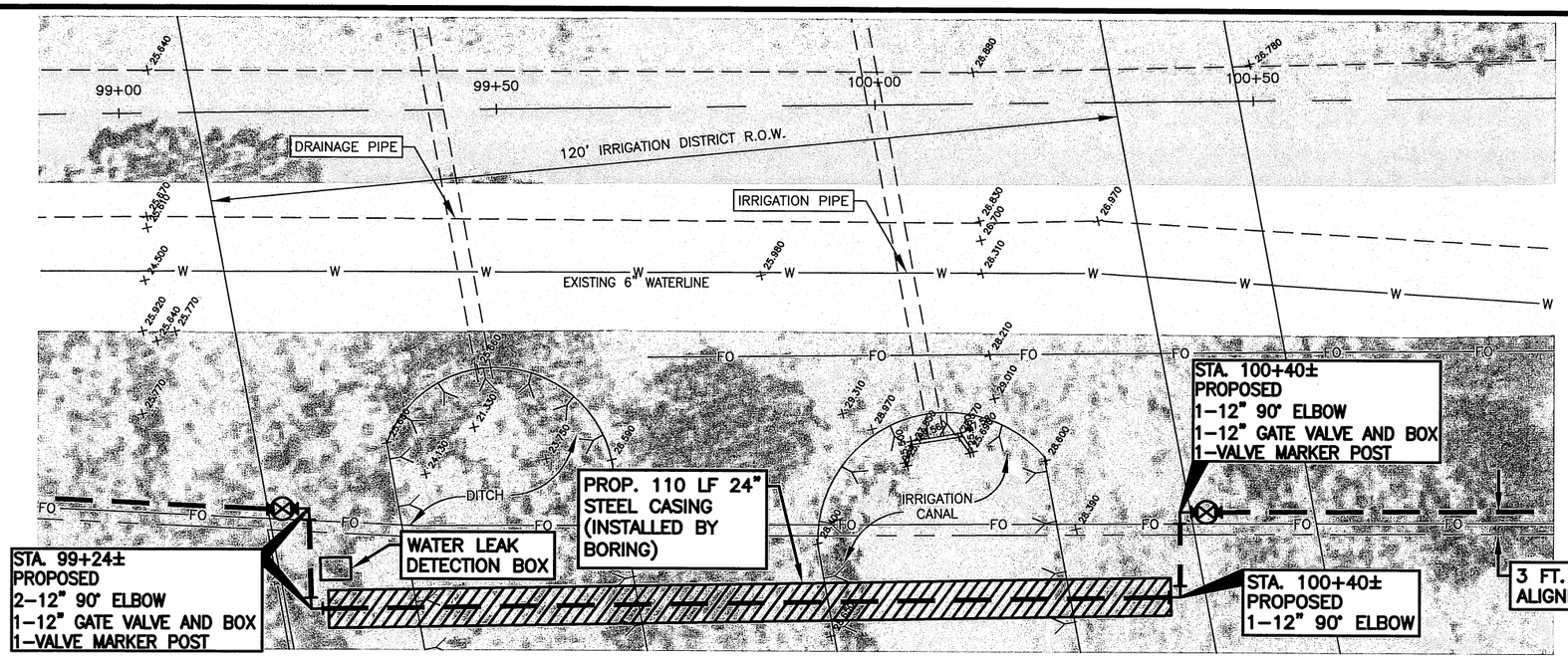


SCALE:
VERTICAL : 1" = 5'
HORIZONTAL : 1" = 20'

STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED PROFESSIONAL ENGINEER
11-15-22

OLMITO WATER SUPPLY CORP.	WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT
CRUZ - HOGAN ENGINEERS | PLANNERS McAllen | Harlingen | Weslaco TBPE FIRM REGISTRATION No.: F-4860	PROPOSED WATER LINE PROFILE

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	25



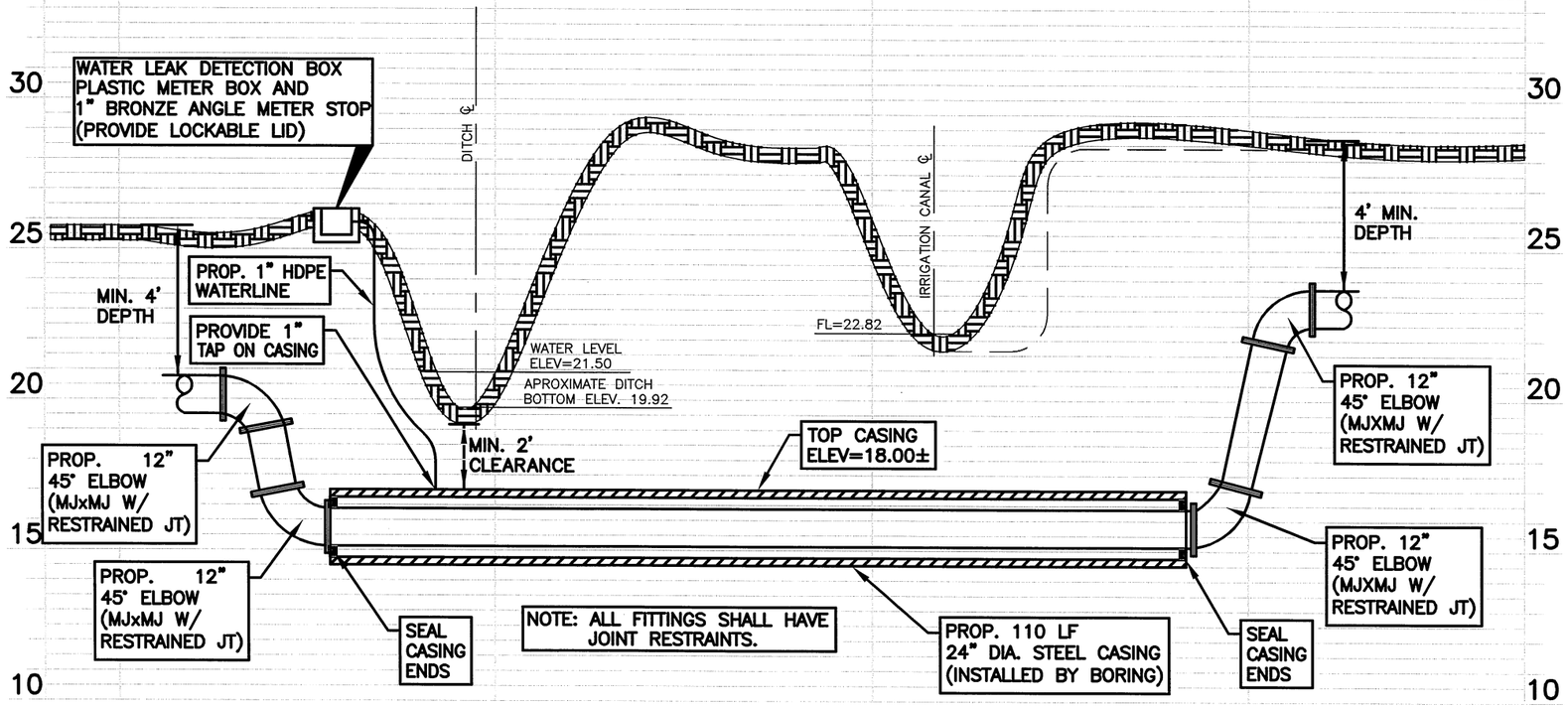
NOTE: CONTRACTOR SHALL ISOLATE ENCASED PIPE AT DITCH AND PRESSURE TEST FOR LEAKAGE. (SEE SPECIFICATION)

LEGEND

- TREE
- POWERPOLE
- FIRE HYDRANT
- SIGN
- MANHOLE
- CHAIN LINK FENCE
- PALM TREE
- WATER VALVE
- GAS METER
- WATER METER
- MAIL BOX
- TELEPHONE PEDESTAL
- FIBER OPTIC CABLE
- EXIST 8" SAN. SEWER

GRAPHIC SCALE
20 15 10 5 0 10 20

VERTICAL : 1" = 5'
HORIZONTAL : 1" = 20'



STATE OF TEXAS
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11-15-22

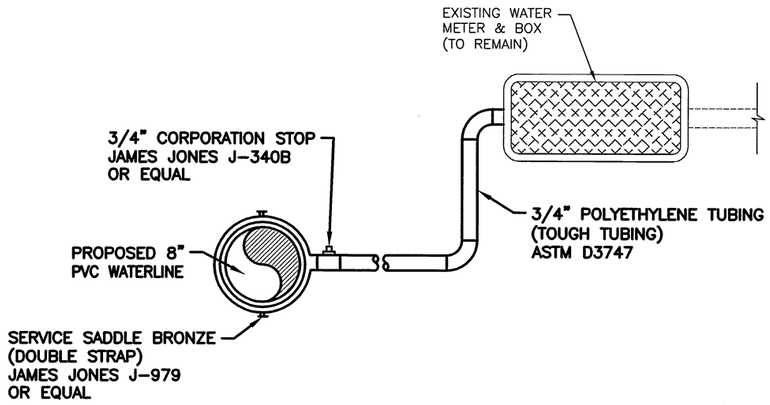
OLMITO WATER SUPPLY CORP.

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

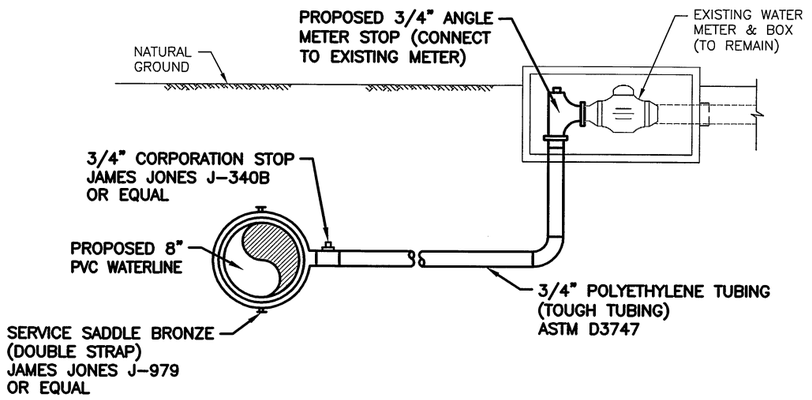
WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

PROPOSED WATER LINE PROFILE

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	26

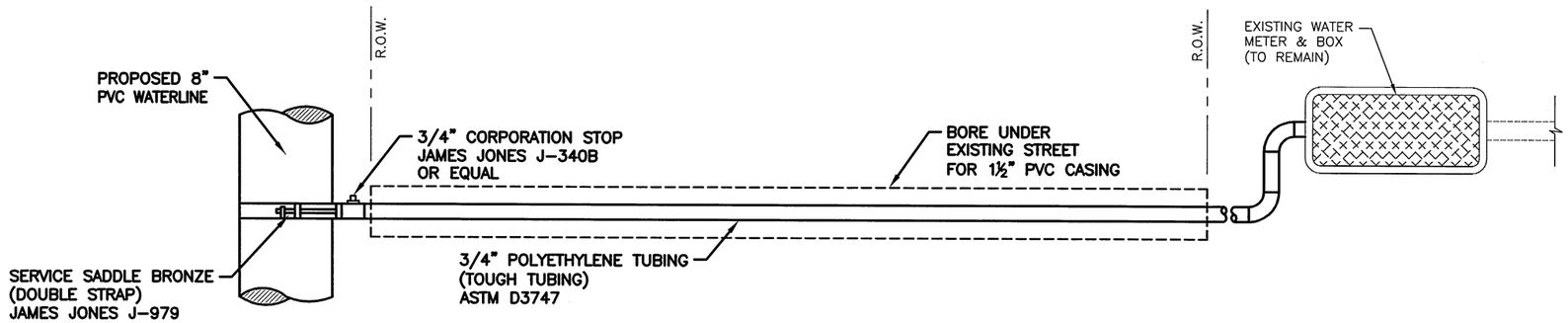


PLAN VIEW
WATER SERVICE LINE DETAIL (STREET SIDE)

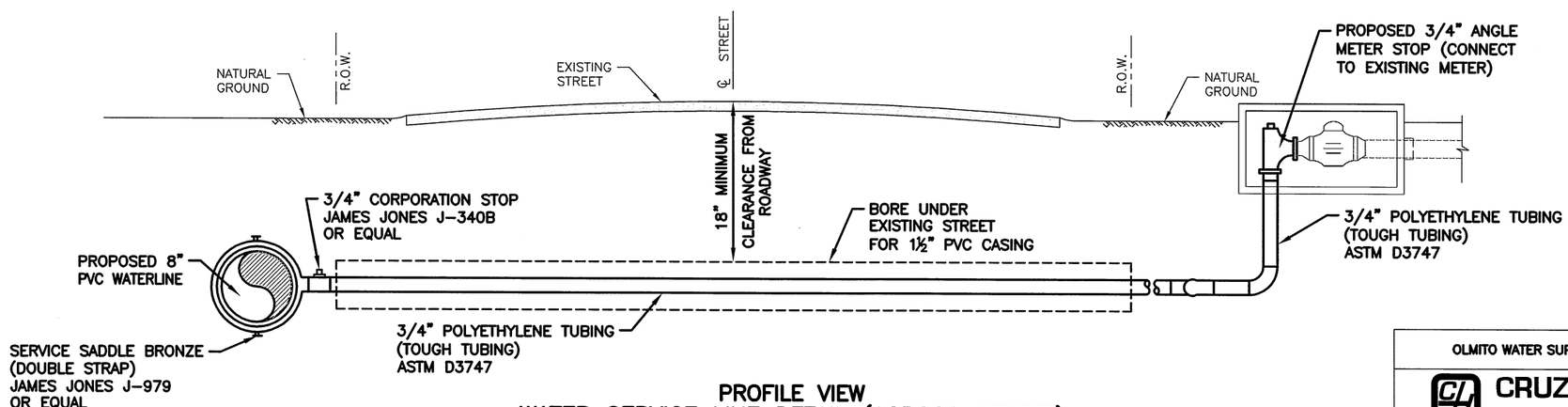


PROFILE VIEW
WATER SERVICE LINE DETAIL (STREET SIDE)

METER CONNECTION
CONTRACTOR TO CONNECT NEW SERVICE LINE AND NEW METER STOP TO EXISTING METER. REMOVE EXISTING METER STOP AND TURN OVER TO OLMITO WSC. COORDINATE CONNECTION WITH OLMITO WSC AND THE RESIDENTIAL HOME OWNER.



PLAN VIEW
WATER SERVICE LINE DETAIL (ACROSS STREET)

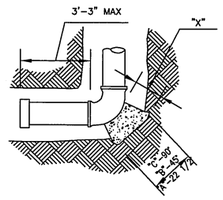


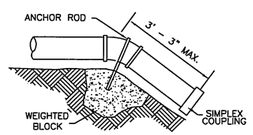
PROFILE VIEW
WATER SERVICE LINE DETAIL (ACROSS STREET)

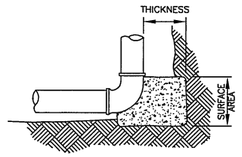
STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED PROFESSIONAL ENGINEER
11-15-22

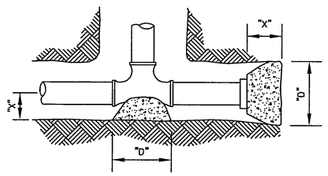
OLMITO WATER SUPPLY CORP.	WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT
CRUZ - HOGAN ENGINEERS | PLANNERS McAllen | Harlingen | Weslaco TBPE FIRM REGISTRATION No.: F-4860	WATER SERVICE CONNECTION DETAIL ACROSS STREET

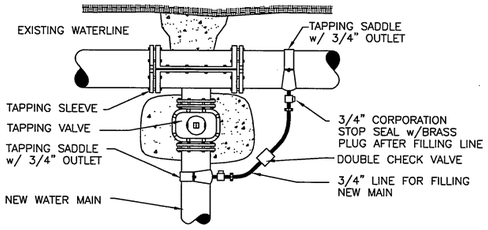
DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	27









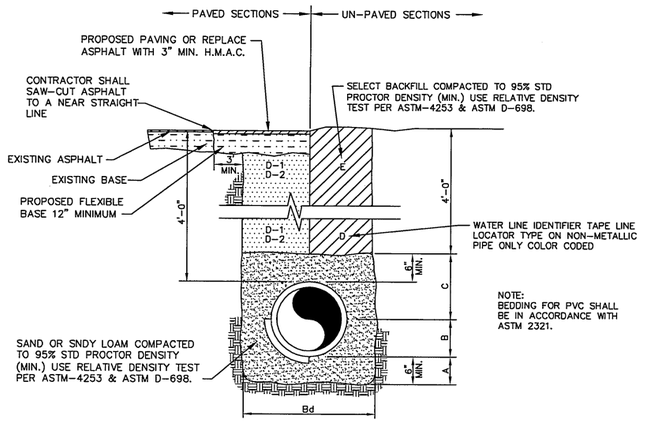


METHOD FOR FILLING NEW WATERLINES PRIOR TO CHLORINATION AND TESTING

N.T.S.

NOTE:

1. THIS METHOD SHALL BE USED AT A NEW CONNECTION TO AN EXISTING DEAD-END LINE.
2. AFTER THE NEW LINE HAS BEEN DISINFECTED, THE VALVE AT THE CONNECTION TO THE EXISTING LINE SHALL BE OPENED TO FLUSH OUT THE SUPERCHLORINE.



GENERAL NOTES:

A. SAND OR SANDY LOAM BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS=6")

B. SAND OR SANDY LOAM BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, HAND TAMPED) Bd TRENCHED WIDTH SHALL BE PIPE O.D. + 12" OR IN ACCORDANCE WITH ASTM 2331 FOR PVC PIPE.

C. SAND OR SANDY LOAM BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, HAND TAMPED)

D-1. (CITY STREETS, PARKING AREA, SAND BACKFILL MATERIAL COMPACTED TO 95% S.P.D. (8" LIFTS, MECHANICAL COMPACTION)

D-2. (STATE MAINTAINED ROADWAY) COMPACTED SAND/CEMENT STABILIZED BACKFILL WITH 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM-698.

E. SELECTED EARTH BACKFILL COMPACTED TO 95% STANDARD PROCTOR DENSITY (12" LIFT, MECHANICAL COMPACTION). FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED SUBSTITUTE.

WATER LINE BEDDING DETAIL

N.T.S.

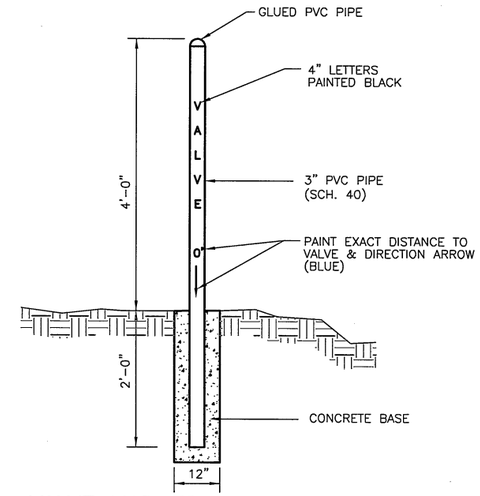
HORIZONTAL BLOCKING TABLE

PIPE SIZE	"X"-+ DIM. FT.	22 1/2 DEGREES		45 DEGREES		90 DEGREES		TEE & PLUG	
		"A"	MIN. AREA	"B"	MIN. AREA	"C"	MIN. AREA	"D"	MIN. AREA
4"	1.50	1.00	1.00	1.00	1.00	1.00	1.06	1.00	1.06
6"	1.50	1.00	1.00	1.14	1.30	1.55	2.40	1.30	1.70
8"	1.50	1.08	1.18	1.52	2.31	2.07	4.27	1.74	3.02
10"	1.50	1.35	1.84	1.90	3.61	2.58	6.66	2.17	4.71
12"	1.50	1.63	2.65	1.86	5.19	3.10	9.60	2.61	6.79

NOTE:
1. THE LOCATION OF THRUST BLOCKS DEPENDS UPON THE DIRECTION OF THRUST AND TYPE OF FITTINGS.
2. THRUST BLOCK CALCULATIONS ARE BASED ON A WATER LINE PRESURE OF 150 P.S.I. AND AN ALLOWABLE SOIL BEARING VALUE OF 2,500 POUNDS PER SQUARE FOOT.
3. "C" DIMENSIONS SHALL BE LARGE ENOUGH TO MAKE ANGLE ø EAQUAL TO LARGER THAN 45".
4. ANGLE SHALL BE EQUAL TO OR LARGER THAN 45°

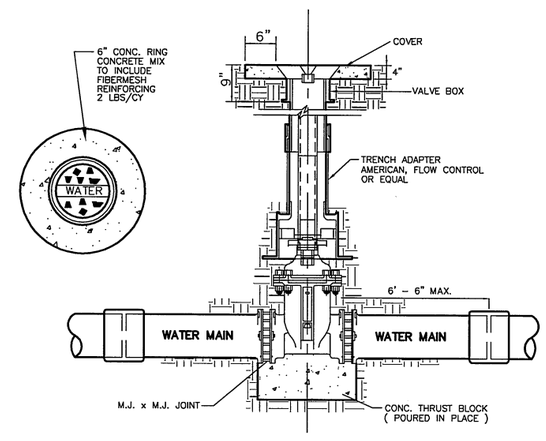
THRUST BLOCK DETAILS

N.T.S.



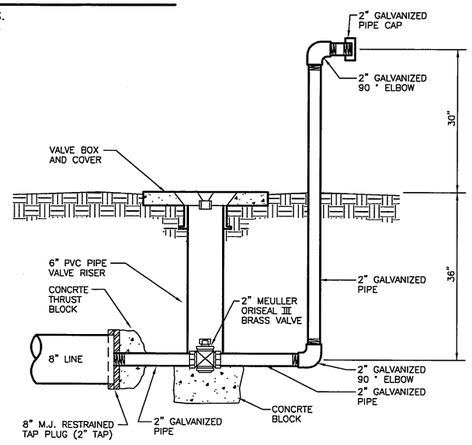
VALVE MARKER POST DETAIL

N.T.S.



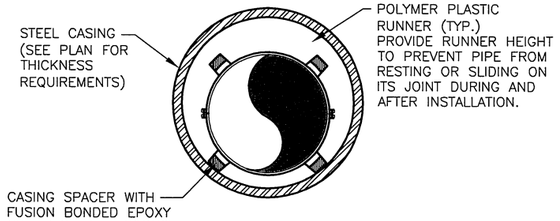
GATE VALVE DETAIL

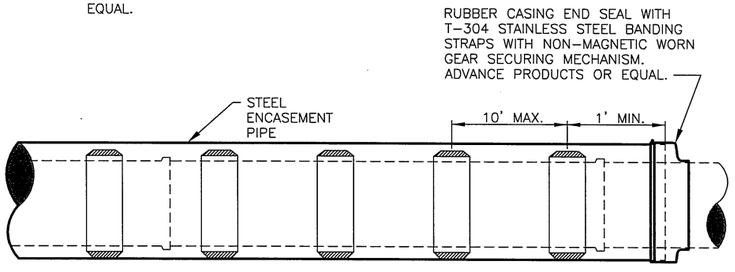
N.T.S.



FLUSH VALVE DETAIL

N.T.S.



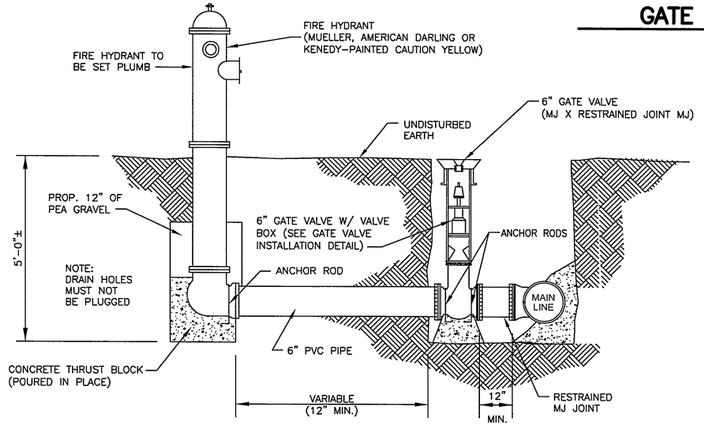


NOTE:
SPACERS SHALL BE LOCATED A MINIMUM OF ONE FOOT FROM EACH SIDE OF PIPE JOINT, END OF CASING, AND ON MAX. TEN FOOT CENTERS

CASING SPACE & CASING END DETAIL

CASING DETAILS

N.T.S.



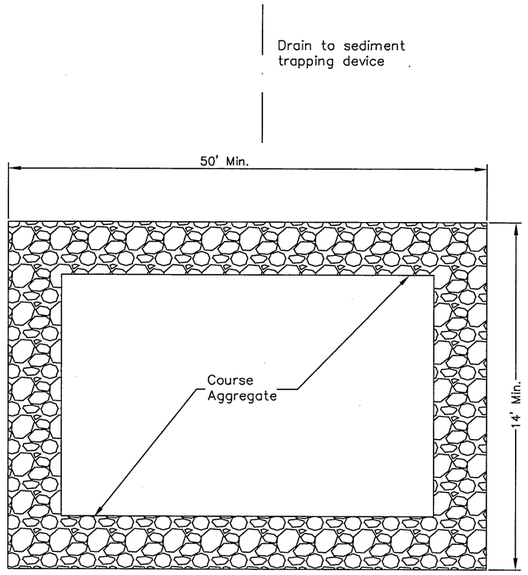
TYPICAL FIRE HYDRANT ASSEMBLY DETAIL

N.T.S.

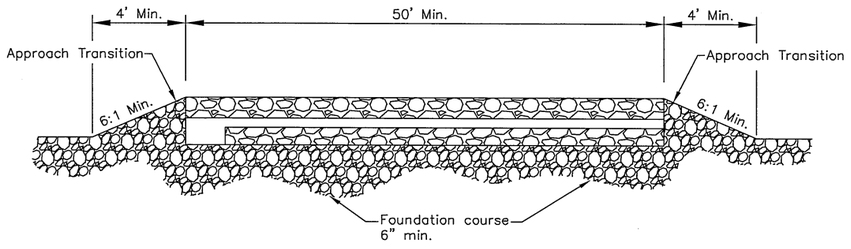
STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED PROFESSIONAL ENGINEER
11-15-22

OLMITO WATER SUPPLY CORP.	WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT
CRUZ - HOGAN ENGINEERS | PLANNERS McAllen | Harlingen | Weslaco TBPE FIRM REGISTRATION No.: F-4860	WATERLINE DETAILS

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	28



PLAN

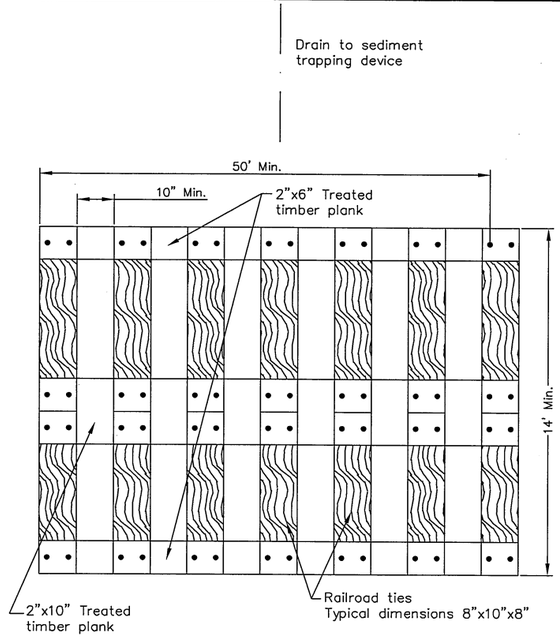


PROFILE

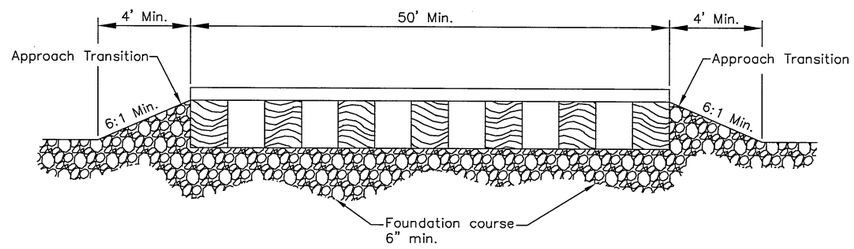
CONSTRUCTION EXIT (TYPE 1)

GENERAL NOTES

1. The length of the Type 1 construction exit shall be as indicated on the plans, but not less than 50'.
2. The coarse aggregate should be open graded with a size of 4" to 8".
3. The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
4. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
5. The construction exit shall be graded to allow drainage to a sediment trapping device.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



PLAN

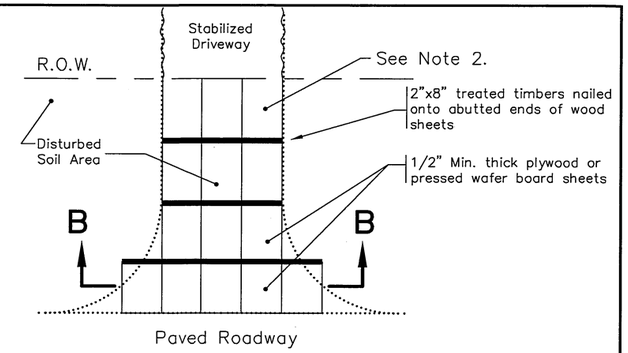


PROFILE

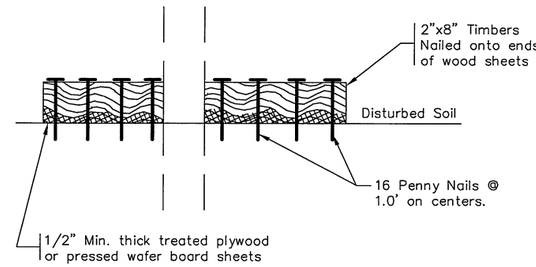
CONSTRUCTION EXIT (TYPE 2)

GENERAL NOTES

1. The length of the Type 2 construction exit shall be as indicated on the plans, but not less than 50'.
2. The treated timber planks shall be attached to the railroad tiles with 1/2"x6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
6. The construction exit should be graded to allow drainage to a sediment trapping device.
7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



PLAN



SECTION A–A

CONSTRUCTION EXIT (TYPE 3)

GENERAL NOTES

1. The length of the Type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
2. The Type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a minimum of 4" thick to the limits shown on the plans.
3. The treated timber planks shall be #2 grade minimum, and should be free from large and loose knots.
4. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED PROFESSIONAL ENGINEER
11-15-22

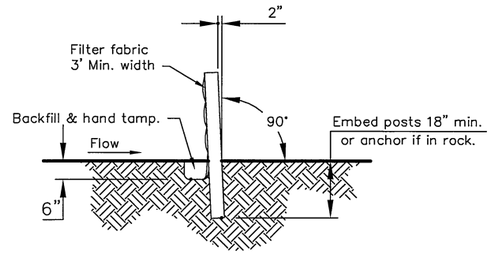
OLMITO WATER SUPPLY CORP.

CRUZ - HOGAN
ENGINEERS | PLANNERS
McAllen | Harlingen | Weslaco
TBPE FIRM REGISTRATION No.: F-4860

WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

STORM WATER POLLUTION PREVENTION PLAN (SW3P) (GENERAL)

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE,'22	N.T.S.	FILE NAME	29



SECTION A–A

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2–year storm frequency may be used to calculate the flow rate to be filtered.

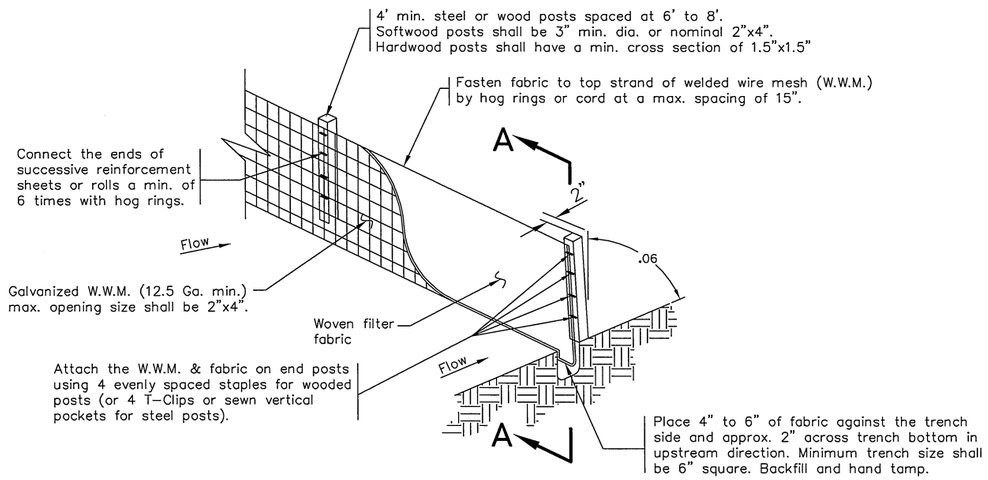
Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT^2. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

PLAN SHEET LEGEND

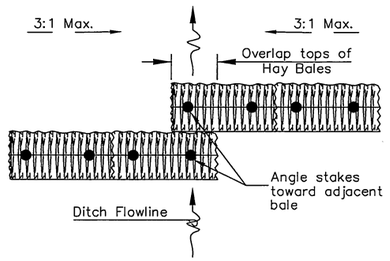
Sediment Control Fence —— SCF ——

GENERAL NOTES

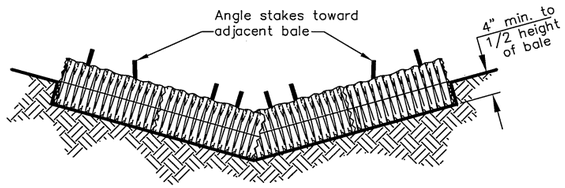
1. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



TEMPORARY SEDIMENT CONTROL FENCE



PLAN VIEW



PROFILE VIEW

PLANS SHEET LEGEND

Baled Hay —— BH ——

BAILED HAY USAGE GUIDELINES

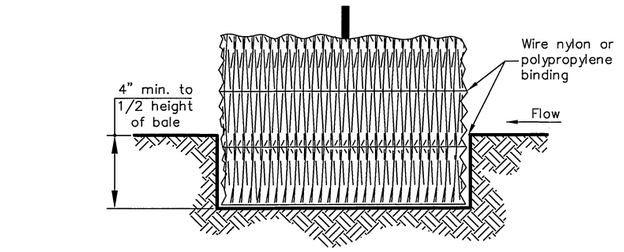
A Baled Hay installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from over land runoff. A two–year storm frequency may be used to calculate the flow rate of be filtered. The installation should be sized to filter a maximum flow thru rate of 5 GPM/FT^2 of cross sectional area. Baled hay may be used at the following locations:

1. Where the runoff approaching the baled hay flows over disturbed soil for less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.
2. Where the installation will be required for less than 3 months.
3. Where the contributing drainage area is less than 1/2 acre.

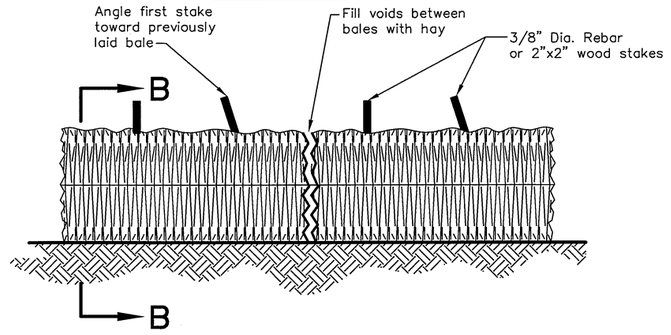
For Baled Hay installations in small ditches, the additional following considerations apply:

1. The ditch sideslopes should be graded as flat as possible to maximize the drainage flowrate thru the hay.
2. The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity is accelerated.



SECTION B–B



BALED HAY FOR EROSION CONTROL

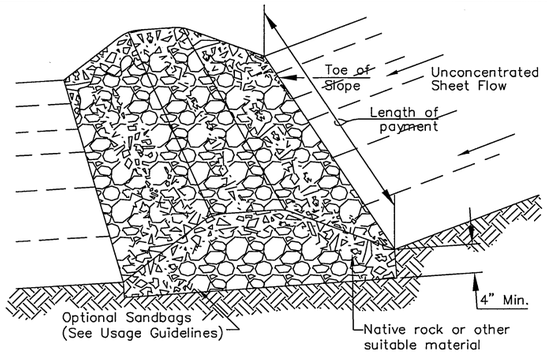
GENERAL NOTES

1. Hay bales shall be a minimum of 30" in length and weigh.
2. Hay bales shall be found by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetable matter.
3. Hay bales shall be embedded in the soil a minimum of 4" and where possible 1/2 the height of the bale.
4. Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
5. Hay bales shall be securely anchored in place with 3/8" Dia. rebar or 2"x2" wood stakes, driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

STATE OF TEXAS
ORLANDO CRUZ
55740
REGISTERED
PROFESSIONAL ENGINEER

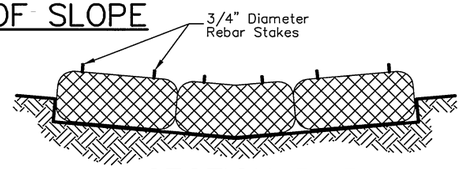
OLMITO WATER SUPPLY CORP.	WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT
CRUZ - HOGAN ENGINEERS | PLANNERS McAllen | Harlingen | Weslaco TBPE FIRM REGISTRATION No.: F-4860	STORM WATER POLLUTION PREVENTION PLAN (SW3P) (GENERAL)

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	30

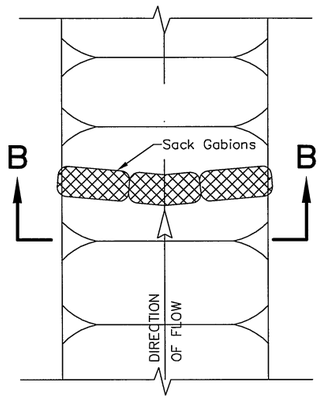


FILTER DAM @ TOE OF SLOPE

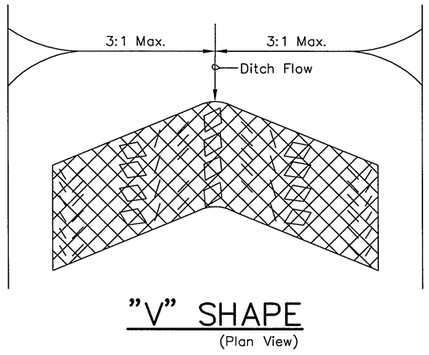
RFD1
TYPE 1



SECTION B–B



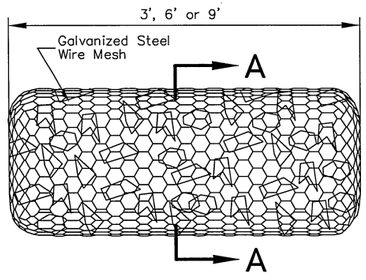
PLAN VIEW



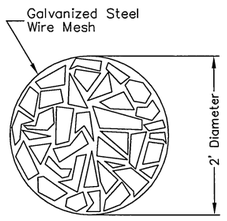
"V" SHAPE
(Plan View)

PLANS SHEET LEGEND

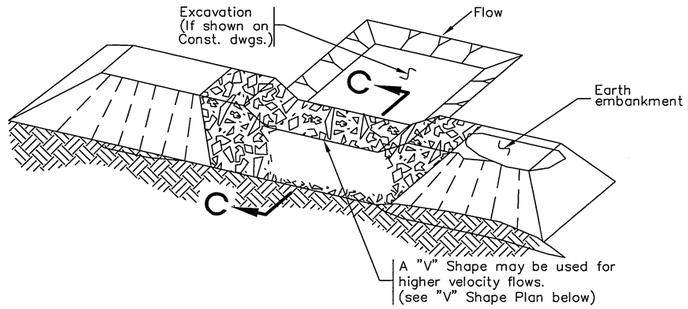
Type 1 Rock Filter Dam — RFD1
Type 2 Rock Filter Dam — RFD2
Type 3 Rock Filter Dam — RFD3



TYPE 4 (SACK GABIONS)

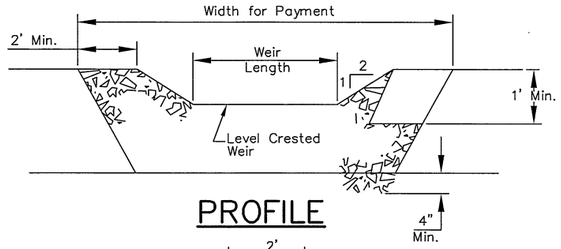


SECTION A–A

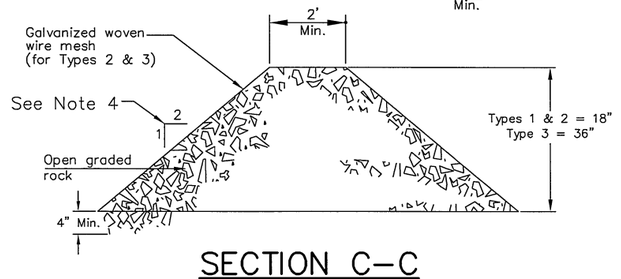


FILTER DAM AT SEDIMENT TRAP

RFD1 — OR — RFD2
TYPE 1 OR TYPE 2



PROFILE



SECTION C–C

BAILED HAY USAGE GUIDELINES

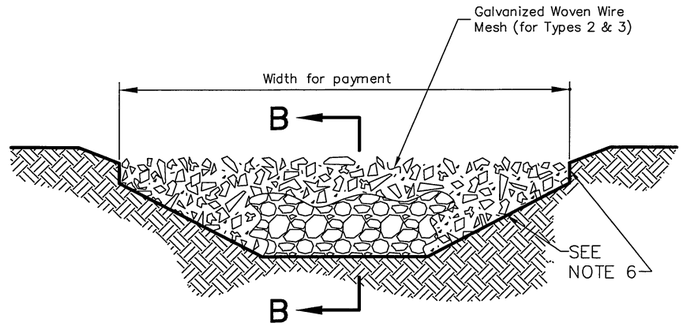
Rock Filter Dams should be constructed downstream from disturbed areas to intercept and sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT² of cross sectional area. A 2–year storm frequency may be used to calculate the flow rate.

Type 1 (18" high with no wire mesh): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approx. 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh): Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh): Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (Sack gabions): Type 4 may be used in ditches and smaller channels to form a erosion control dam.



FILTER DAM AT CHANNEL SECTIONS

RFD1 — OR — RFD2 — OR — RFD3
TYPE 1 OR TYPE 2

GENERAL NOTES

1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream at drainage structures, and in roadway ditches and channels to collect sediment.
2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
5. Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
6. Filter dams should be embedded a minimum of 4" into existing ground.
7. The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. In stream use, the mesh should be secured or staked to the stream bed prior to aggregate placement.
9. Sack Gabions should be staked down with 3/4" diameter rebar stakes.
10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
11. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

STATE OF TEXAS
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11-15-22

OLMITO WATER SUPPLY CORP.	WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT
CRUZ - HOGAN ENGINEERS | PLANNERS McAllen | Harlingen | Weslaco TBPE FIRM REGISTRATION No.: F-4860	STORM WATER POLLUTION PREVENTION PLAN (SW3P) (GENERAL)

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	31

SITE DESCRIPTION

PROJECT LIMITS:
EXISTING STORM DRAINAGE DITCH, ADJACENT TO OWSC WASTEWATER TREATMENT PLANT TO HIGHWAY 100.

LATITUDE: LONGITUDE:

PROJECT DESCRIPTION: INSTALLATION OF A 12 INCH WATERLINE ALONG OLD ALICE ROAD.

MAJOR SOIL DISTRIBUTING ACTIVITIES:

TOTAL PROJECT AREA: APPROX. 60,000 S.F.

TOTAL AREA TO BE DISTURBED: APPROX. 52,500 S.F.

WEIGHTED RUNOFF COEFFICIENT
N/A

EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER:
ALL EXISTING AREA IS VEGETATED WITH GRASS.

NAME OF RECEIVING WATERS:
DITCH AT PROJECT BEGINNING.

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

- ____ TEMPORARY SEEDING
- X PERMANENT PLANTING, SODDING, OR SEEDING
- ____ MULCHING
- ____ SOIL RETENTION BLANKET
- ____ BUFFER ZONES
- ____ PRESERVATION OF NATURAL RESOURCES

OTHER: Disturbed areas on which construction activity has ceased (temporarily or permanently) shall be stabilized within 14 days unless activities are scheduled to resume within 21 days.

STRUCTURAL PRACTICES:

- X SILT FENCES
- ____ HAY BALES
- ____ ROCK BERMS (TYPE 3)
- ____ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- ____ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- ____ DIVERSION DIKE AND SWALE CONBINATIONS
- ____ PIPE SLOPE DRAINS
- ____ PAVED FLUMES
- ____ ROCK BEDDING AT CONSTRUCTION EXIT
- ____ TIMBER MATTING AT CONSTRUCTION EXIT
- ____ CHANNEL LINERS
- ____ SEDIMENT TRAPS
- ____ SEDIMENT BASINS
- ____ STORM INLET SEDIMENT TRAP
- ____ STONE OUTLET STRUCTURES
- ____ CURBS AND GUTTERS
- ____ STORM SEWERS
- ____ VELOCITY CONTROL DEVICES

OTHER:

NARRATIVE – SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

The order of activities will be as follows:

1. Install Project perimeter controls and clear only where construction and staging area will take place.
2. Install SW3P implementation shown on plan layouts.
3. Construct improvements as shown on the plans.
4. Once all construction activity is complete, cleaning and soil dressing of the project area shall be done according to plans or as instructed by the Engineer.

STORM WATER MANAGEMENT:

Storm water drainage will be provided by site drain ditches which flow into an existing county ditch. The ditches flow north to the Raymondville drain and eventually into the Laguna Madre and ultimately into the Gulf of Mexico.

OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE: All erosion and sediment controls will be maintained in good working order. If a repair is necessary, it will be done at the earliest date possible, but no later than 7 calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from heavy equipment.

INSPECTION: An inspection will be performed by a construction inspector every week as well as after every half inch or more of rain (as recorded on a non-freezing rain gauge to be located at the Project Site). An inspection and Maintenance Report will be made per each inspection. Based on the inspection results, the controls shall be revised per the inspection report.

WASTE MATERIALS: All waste materials shall be collected, hauled from project site and/or stored in a securely lidded dumpster. All trash and construction debris from the site shall be hauled off the project site at the contractor's responsibility. No construction waste material shall be buried on site.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING): At a minimum, any products in the following categories to be hazardous: Paints, Acids for cleaning masonry surfaces, Cleaning Solvents, Asphalt products, Chemical additives for soil stabilization, or Concrete curing compounds and additivies. In the event of a spill which may be hazardous, the spill Coordinator should be contacted immediately. Emptying of excess concrete should not be allowed on site. Likewise, washout of concrete trucks should not be performed on site. These discharges are considered non-allowable non-storm water discharges. Concrete trucks should never be allowed to dump into storm drains or sanitary sewers.

SANITARY WASTE: All sanitary waste will be collected from the pothole units as necessary or as required by local regulation by a licensed sanitary waste management contractor.

OFFSITE VEHICLE TRACKING:

- X HAUL ROADS DAMPENED FOR DUST CONTROL
- X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- X EXCESS DIRT ON ROAD REMOVED DAILY
- X STABILIZED CONSTRUCTION ENTRANCE

OTHER:

REMARKS: Disposal areas, stockpiles, and haul roads shall be constructed in a manner that will minimize and control the amound of sediment that may enter receiving waters. Disposal areas shall not be located in any wetland, waterbody or streambed. Construction staging areas and vehicle maintenance areas shall be constructed by the Contractor in a manner to minimize the runoff of pollutants. All waterways shall be cleared as soon as practicable of temporary embankment, temporary bridges, matting, falsework, piling, debris or other obstructions placed during construction operations that are not a part of the finished work.

STATE OF TEXAS
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WATERLINE SYSTEM IMPROVEMENTS ON OLD ALICE ROAD PROJECT

STORM WATER POLLUTION PREVENTION PLAN (SW3P) (GENERAL)

CRUZ - HOGAN
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TBPE FIRM REGISTRATION No.: F-4860

DESIGN	DRAWN	PROJ. #	DATE	SCALE	FILE	SHEET NO.
O.S.C.	R.G.	578	JUNE.,'22	N.T.S.	FILE NAME	32