

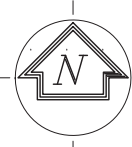
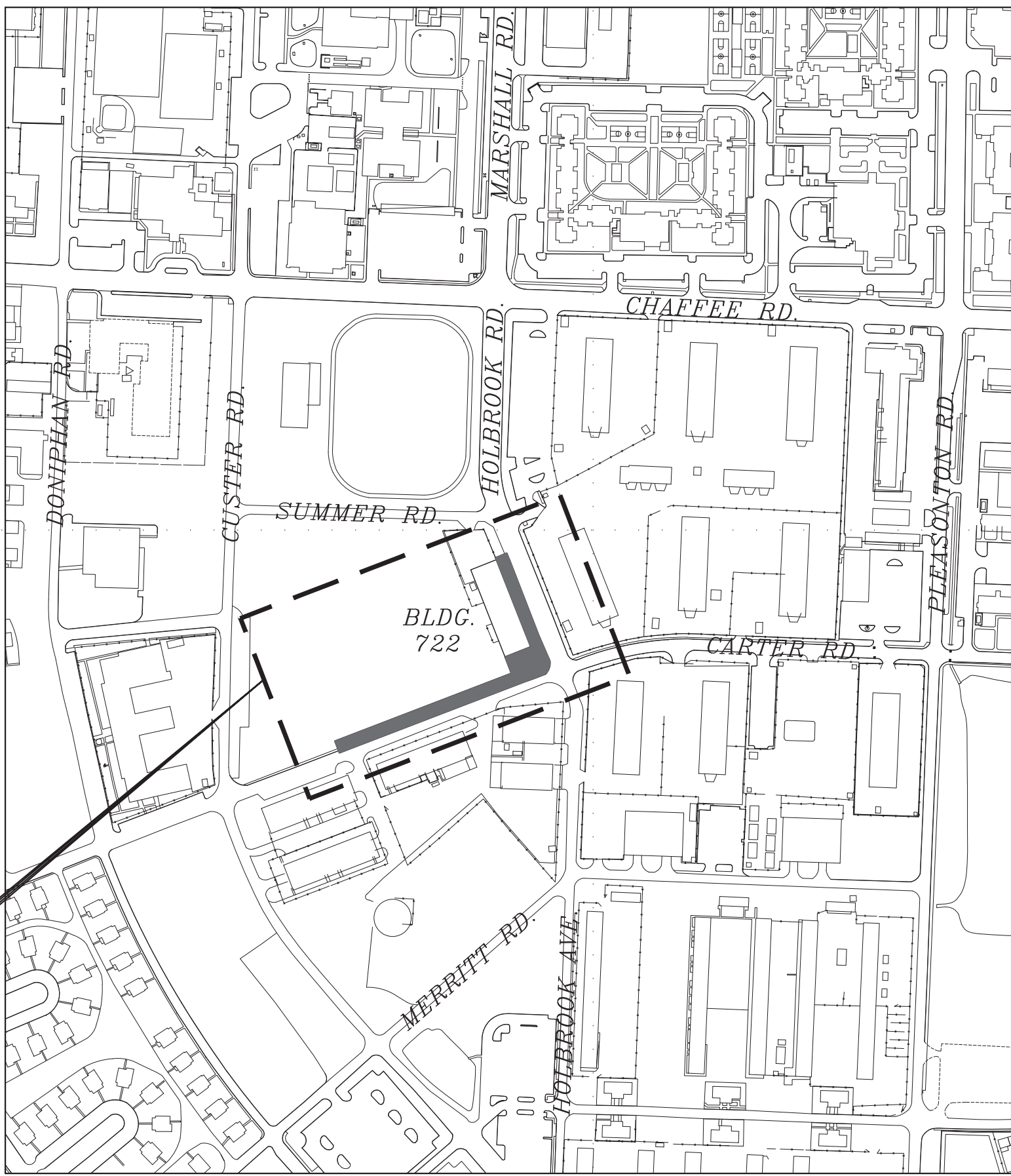
# FORT BLISS, TEXAS

## HOLBROOK RD. AT CARTER RD.

### WATER MITIGATION PROJECT

#### INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	= COVER SHEET
2	= EXISTING UTILITIES AND SITE PLAN
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6	= NEW WORK PLAN (CONTINUED)
7	= DETAILS
8	= DETAILS (CONTINUED)
9	= DETAILS (CONTINUED)
10	= DETAILS (CONTINUED)



PROJECT LOCATION MAP  
NOT TO SCALE

#### CONCURRENCES

USING AGENCY	DATE
FIRE DEPARTMENT	DATE
SAFETY OFFICER	DATE
PHYSICAL SECURITY OFFICER	DATE
INDUSTRIAL HYGIENE	DATE
NEC	DATE
ENVIRONMENTAL DIVISION	DATE
ANTI-TERRORISM/FORCE PROTECTION	DATE
MASTER PLANNING DIVISION	DATE
OPERATIONS & MAINTENANCE DIVISION	DATE

NOTES:  
SIGNATURES INDICATE THAT THOSE SIGNING HAVE REVIEWED PROJECT PLANS AND SPECIFICATIONS AND ARE IN CONCURRENCE WITH THEM.

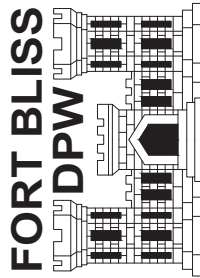
APPROVED BY: CHIEF, DESIGN BRANCH, ESD, DPW

APPROVED BY: CHIEF, ENGINEERING SERVICES DIVISION, DPW

MARK	DESCRIPTION	DATE

DESIGNED BY: I.A.T.	DATE: 04/30/2020
DRAWN BY: M.A.A.	W.O. # FE-10101-6J
REVIEWED BY: I.A.T.	SPEC. #
SCALE: AS SHOWN	

DIRECTORATE OF  
PUBLIC WORKS  
FORT BLISS, TEXAS

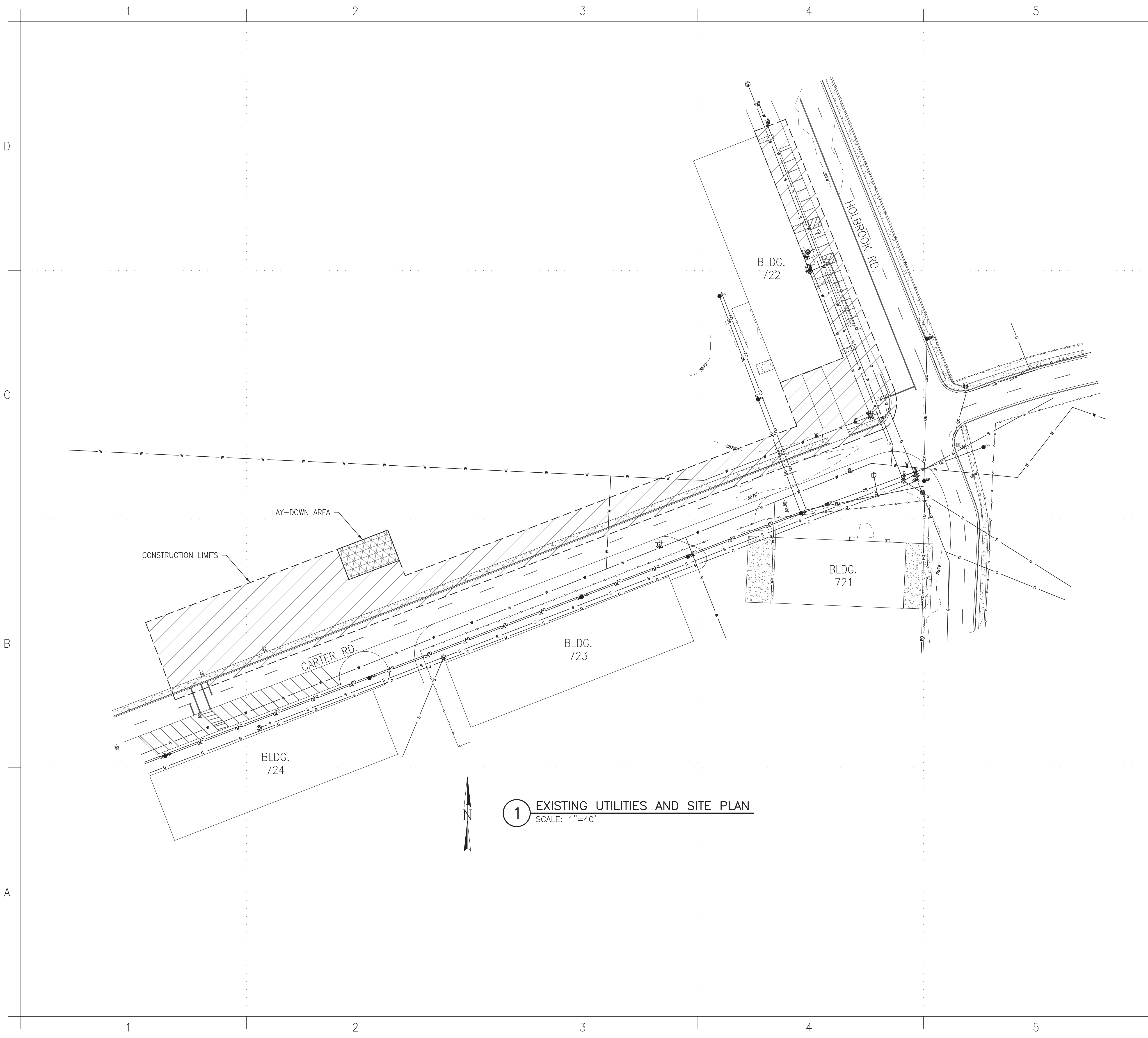


HOLBROOK RD. AT CARTER RD.  
WATER MITIGATION PROJECT

COVER SHEET

SHEET NUMBER:
CVRSHT
1 OF 10





1 EXISTING UTILITIES AND SITE PLAN  
SCALE: 1"=40'

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH CX-LOG FROM DPW ENVIRONMENTAL.
2. PRIOR TO ANY CHANGE OR MODIFICATION TO THESE DRAWINGS DUE TO ACTUAL CONDITIONS, DPW REPRESENTATIVE SHALL BE NOTIFIED FOR REVIEW AND APPROVAL.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER INDICATED ON THE DRAWING OR NOT TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES AND SUBSTRUCTURES AND PROTECT THEM FROM ANY DAMAGE.
4. CONSTRUCTION PROJECTS WHICH REQUIRE ANY TYPE OF DISTURBANCE OF THE SOIL MUST OBTAIN AN EXCAVATION REQUEST.
5. THE CONTRACTOR SHALL RESTORE ANY ACCESS ROADS AD LAY-DOWN AREAS USED BACK TO THEIR ORIGINAL STABILIZED CONDITION OR BETTER.
6. THE CONTRACTOR SHALL NOTIFY GOVERNMENT REPRESENTATIVE IF ANY SOIL DISCOLORATION, ODORS, RUBBISH AND/OR ANY ENVIRONMENTAL CONCERNS BE UNCOVERED, THE CONTRACTOR SHALL SUSPEND WORK ON THE SITE OF THE DISCOVERY AND CONTINUE OPERATIONS IN ALL OTHER AREAS.
7. CONTRACTOR SHALL PROPERLY SECURE THE CONSTRUCTION LIMITS TO PREVENT FACILITY USERS FROM ACCESSING THE SITE.

LAY-DOWN AREA NOTES

1. LAY-DOWN AREA SHALL BE DESIGNATED PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH DPW MASTER PLANNING.
2. THE CONTRACTOR SHALL RESTORE ANY ACCESS ROADS AND LAY-DOWN AREAS USED BACK TO THEIR ORIGINAL STABILIZED CONDITION OR BETTER.
3. TO INCREASE OR CHANGE THE FOOTPRINT OF THE LAY-DOWN AREA THE CONTRACTOR SHALL FIRST COORDINATE WITH DPW MASTER PLANNING AND RECEIVE APPROVAL.

UTILITIES NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER INDICATED ON THE DRAWING OR NOT, TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES AND SUBSTRUCTURES AND PROTECT THEM FROM ANY DAMAGE.
2. THE CONTRACTOR SHALL CONTACT ALL THE UTILITY COMPANIES AND CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO GOVERNMENT.
3. NOTIFY THE DPW REPRESENTATIVE IN WRITING AT LEAST 14 DAYS BEFORE ANY UTILITY OUTAGE OR ROAD CLOSURE.

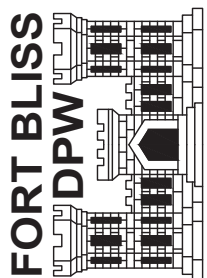
LEGEND

- PP POWER POLE
- GUY WIRE
- ELECTRICAL BOX
- TELEPHONE MANHOLE
- SANITARY SEWER MANHOLE
- CLEAN OUT
- STORM SEWER MANHOLE
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- GAS VALVE
- GAS METER
- SIGN
- GUARD POST
- HANDICAP PARKING
- OVER HEAD ELECTRIC LINE
- FIBER OPTIC LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- WATER LINE
- GAS LINE
- CHAIN LINK FENCE
- EXISTING CONCRETE
- CONSTRUCTION LIMITS
- LAY-DOWN AREA

DATE	
DESCRIPTION	
MARK	

DESIGNED BY:	I.A.T.	DATE:	04/30/2020
DRAWN BY:	M.A.A.	W.O. #	FE-10101-6J
REVIEWED BY:	I.A.T.	SPEC. #	
SCALE:	AS SHOWN		

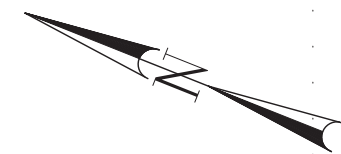
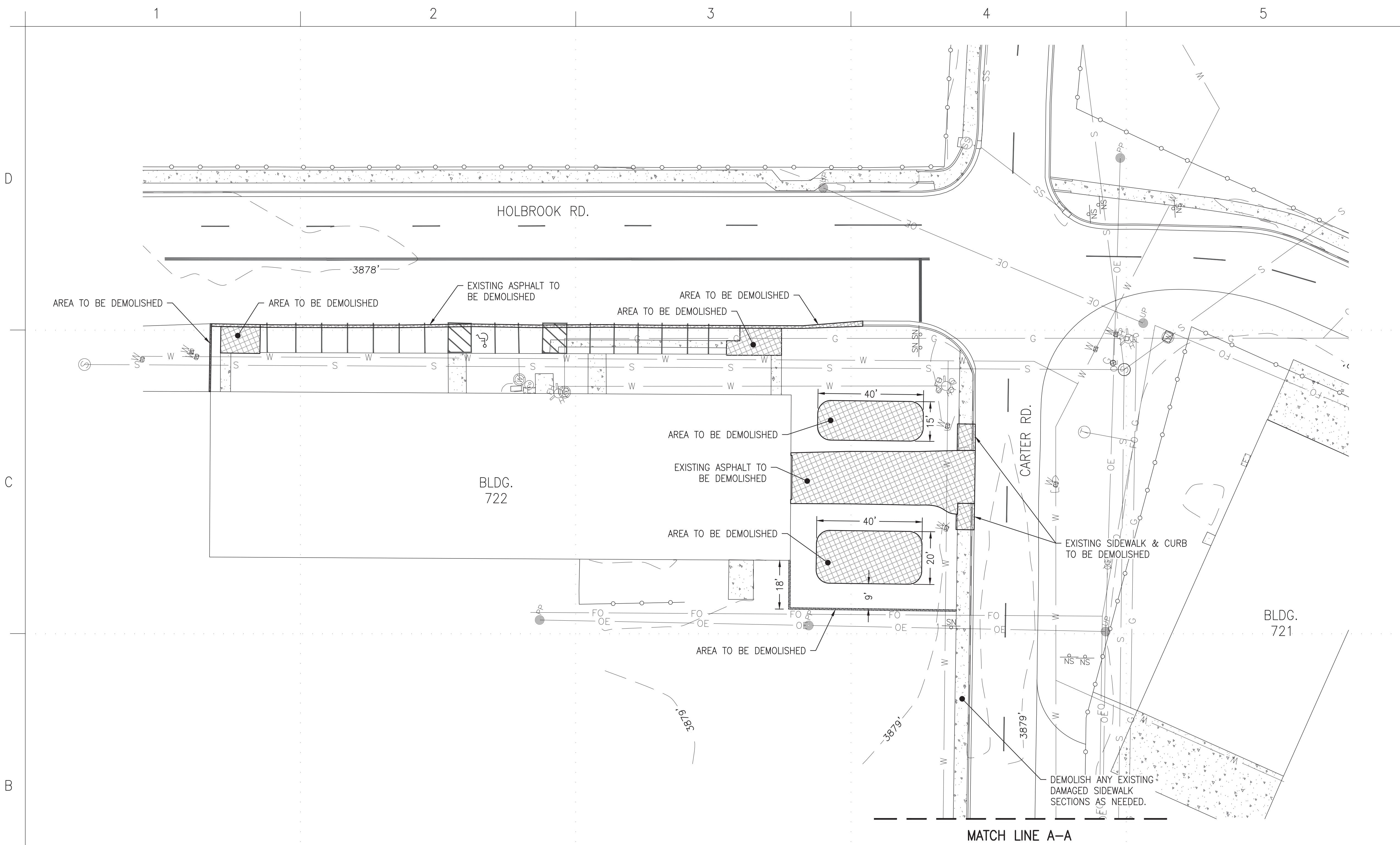
DIRECTORATE OF  
PUBLIC WORKS  
FORT BLISS, TEXAS



HOLBROOK RD. AT CARTER RD.  
WATER MITIGATION PROJECT  
EXISTING UTILITIES AND SITE PLAN

SHEET  
NUMBER:  
*C-100*  
2 OF 10





**1 DEMOLITION PLAN**  
SCALE: 1"=20'

**LEGEND**

- PP POWER POLE
- GUY WIRE
- ELECTRICAL BOX
- ① TELEPHONE MANHOLE
- ⑤ SANITARY SEWER MANHOLE
- CLEAN OUT
- ⊙ STORM SEWER MANHOLE
- ⊙ FIRE HYDRANT
- ⊙ WATER VALVE
- ⊙ WATER METER
- ⊙ GAS VALVE
- ⊙ GAS METER
- ⊙ SIGN
- GUARD POST
- ⊙ HANDICAP PARKING
- OE OVER HEAD ELECTRIC LINE
- FO FIBER OPTIC LINE
- S SANITARY SEWER LINE
- SS STORM SEWER LINE
- W WATER LINE
- G GAS LINE
- ○ CHAIN LINK FENCE
- ▨ EXISTING CONCRETE
- ▩ DEMOLITION AREA

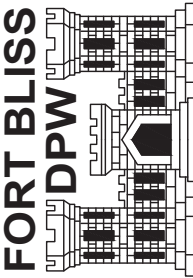
**DEMOLITION NOTES**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK.
- CONTRACTOR SHALL BE AWARE OF ONGOING CONSTRUCTION ON ADJACENT SITES AND COORDINATE WHEN NEEDED WITH OTHER CONTRACTORS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER INDICATED ON THE DRAWING OR NOT TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES AND SUBSTRUCTURES AND PROTECT THEM FROM ANY DAMAGE.
- PROMPTLY NOTIFY THE DPW REPRESENTATIVE OF ANY DISCREPANCIES AND/OR CONDITIONS WHICH PREVENT FULFILLING THE TERMS OF THE CONTRACT.
- ITEMS AND MATERIALS TO BE REMOVED SHALL BE DONE IN SUCH A MANNER AS TO PREVENT DAMAGES TO ITEMS AND MATERIALS THAT REMAIN. SUCH DAMAGES SHALL BE REPAIRED TO THE SATISFACTION OF THE DPW REPRESENTATIVE AND AT NO ADDITIONAL COST TO THE GOVERNMENT.
- CONSTRUCTION AND DEMOLITION DIVERSION: FORT BLISS REQUIRES A MINIMUM OF 60% OF CONSTRUCTION AND DEMOLITION MATERIALS AND DEBRIS FROM LANDFILLS. IF THE CONTRACTOR HAS A VALID REASON FOR NOT BEING ABLE TO MEET THIS DIVERSION GOAL, THE CONTRACTOR NEEDS TO PRESENT THEIR REASONING IN WRITING TO DPW-ENVIRONMENTAL.
- THE GOVERNMENT RESERVES THE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION ITEMS. THOSE DEMOLITION ITEMS THE GOVERNMENT DOES NOT WISH TO KEEP SHALL BECOME PROPERTY OF THE CONTRACTOR FOR PROPER DISPOSAL.
- THE CONTRACTOR SHALL OBTAIN A PROPER EXCAVATION REQUEST, PRIOR TO COMMENCING DIGGING WORK AND THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL DIGGING OPERATIONS.
- CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER'S FIELD REPRESENTATIVE IMMEDIATELY OF ANY CONFLICTS DISCOVERED IN THE FIELD TO ALLOW SUFFICIENT TIME FOR REVIEW AND FINAL DETERMINATION.
- ARCHAEOLOGY REQUIREMENTS: CONTRACTOR SHALL REPORT ANY INADVERTENT DISCOVERIES TO DPW-ENVIRONMENTAL IMMEDIATELY; IF BONE IS ENCOUNTERED, STOP DIGGING IMMEDIATELY AND CONTACT FABIOLA SILVA AT (915) 568-2707.
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING EQUIPMENT, MATERIALS AND FINISHES THAT ARE TO REMAIN AND WITHOUT UNNECESSARY DAMAGE. ANY DAMAGE TO SAME SHALL BE REPLACED OR RESTORED WITHOUT ADDITIONAL COST TO THE GOVERNMENT.
- EXISTING PAVEMENTS AND ALL OTHER AREAS ADJACENT TO THE SITE SHALL BE KEPT CLEAN AT ALL TIMES. DO NOT ALLOW BUILDUP OF SOIL, MUD, DUST OR OTHER DEBRIS.
- ALL SAW-CUT WORK SHALL BE PERFORMED IN A NEAT, WORKMAN LIKE MANNER, AS APPROVED BY DPW REPRESENTATIVE. WHERE CONCRETE DEMOLITION IS REQUIRED, CONTRACTOR SHALL USE A SAW CUT AT THE LIMITS OF DEMOLITION OR NEAREST JOINT TO OBTAIN A CLEAN VERTICAL EDGE.
- CONSTRUCTION AND DEMOLITION DIVERSION: FORT BLISS REQUIRES A MINIMUM OF 60% OF CONSTRUCTION AND DEMOLITION MATERIALS AND DEBRIS DIVERSION FROM LANDFILLS. IF THE CONTRACTOR HAS A VALID REASON FOR NOT BEING ABLE TO MEET THIS DIVERSION GOAL, THE CONTRACTOR NEEDS TO PRESENT THEIR REASONING IN WRITING TO DPW-ENVIRONMENTAL.
- WASTE MATERIAL OR EXCESS TOPSOIL GENERATED AS A RESULT OF CLEARING AND GRADING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR APPROPRIATE DISPOSAL OF ALL SPOIL MATERIAL SHALL BE AT THE CONTRACTOR'S EXPENSE. BURNING ON THE OWNER'S PROPERTY IS NOT PERMITTED.
- EARTHWORK, GRADING OR ASPHALT ROUGHING, IF ANY, WILL REQUIRE DUST CONTROL WITH EITHER WATER OR DUST SUPPRESSANT DURING CONSTRUCTION OF PAVED AREA.
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AND COORDINATE WITH DEPARTMENT OF EMERGENCIES SERVICES (DES), DIRECTORATE OF PLANS TRAINING MOBILIZATION AND SECURITY (DPTMS), BALFOUR BEATTY COMMUNITIES (BBC), AND IMPACTED FACILITIES. SUBMIT PLANS FOR FUTURE PHASES OF CONSTRUCTION A MINIMUM OF 30 DAYS BEFORE START OF THAT CONSTRUCTION PHASE TO ALLOW REVIEW AND RESUBMITTAL, IF NECESSARY, AND PUBLIC NOTIFICATION. DO NOT BEGIN CONSTRUCTION ON ANY GIVEN PHASE BEFORE RECEIVING WRITTEN ACCEPTANCE. FAILURE TO SUBMIT THE TRAFFIC CONTROL PLANS WITHIN THE SPECIFIED TIME FRAMES WILL NOT BE JUSTIFICATION FOR ADDITIONAL WORKING DAYS. FAILURE TO ADEQUATELY ADDRESS COMMENTS IN ANY REQUIRED RESUBMITTAL ALSO WILL NOT JUSTIFY ADDITIONAL WORKING DAYS. ALL TRAFFIC SIGNS AND TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD). CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL DEVICES DURING THE PROSECUTION OF ALL WORK SHOWN IN THE DRAWINGS.
- THE CONTRACTOR SHALL RESTORE ANY ACCESS ROADS AND LAY-DOWN AREAS USED BACK TO THEIR ORIGINAL STABILIZED CONDITION OR BETTER.
- SURPLUS EARTH, GRAVEL, ASPHALT OR CONCRETE RUBBLE HAULED ON AND OFF THE INSTALLATION IN AN OPEN-BED TRUCK MUST BE COVERED OR WETTED TO MINIMIZE DUST.
- ANY CRUSHING OF MATERIALS SHOULD BE DONE OFF-POST BY AN AUTHORIZED AND PERMITTED FACILITY.

DATE									
MARK									
DESCRIPTION									

DESIGNED BY:	I.A.T.	DATE:	04/30/2020
DRAWN BY:	M.A.A.	W.O. #	FE-10101-6J
REVIEWED BY:	I.A.T.	SPEC. #	
SCALE:	AS SHOWN		

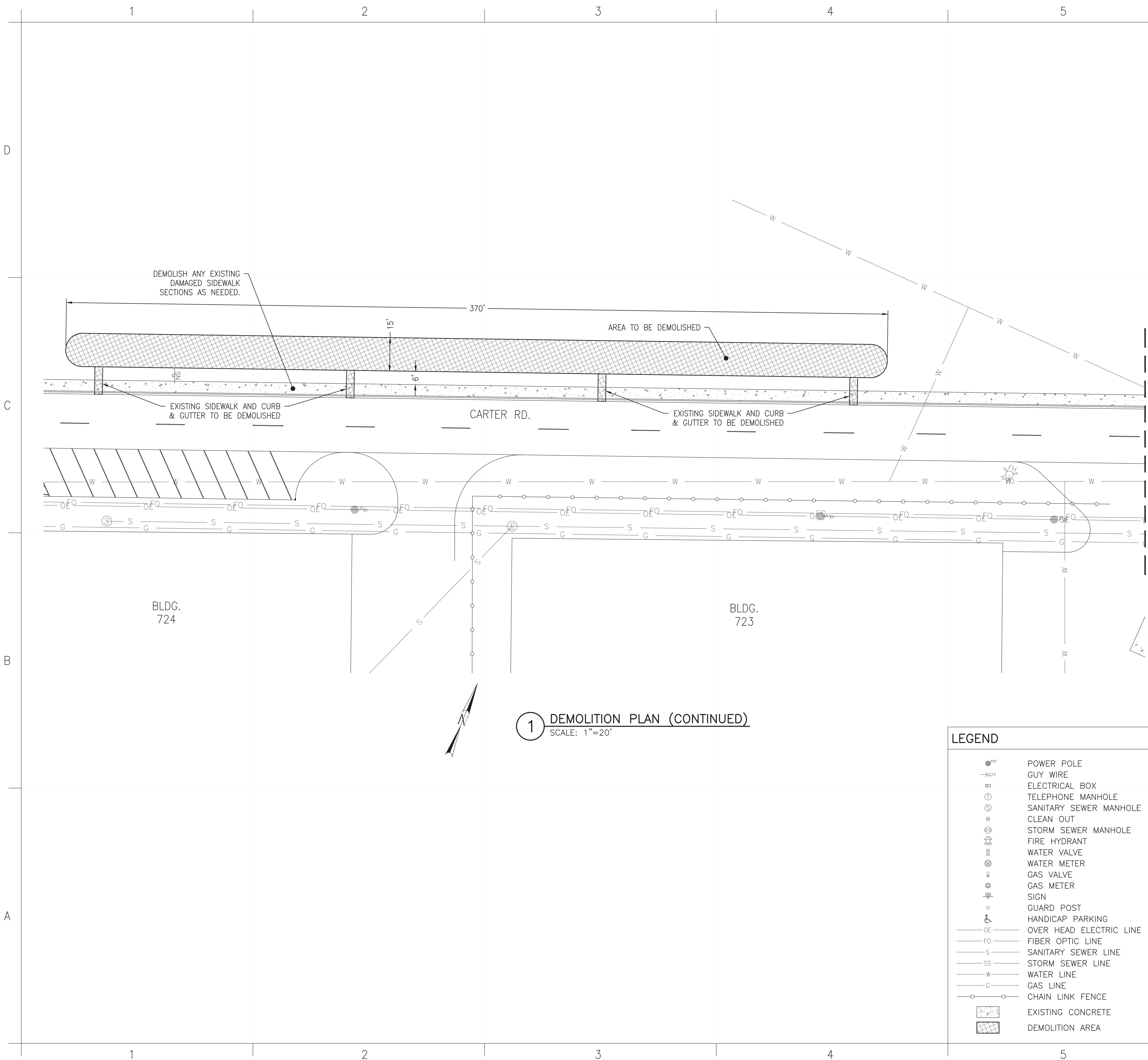
DIRECTORATE OF  
PUBLIC WORKS  
FORT BLISS, TEXAS



HOLBROOK RD. AT CARTER RD.  
WATER MITIGATION PROJECT  
DEMOLITION PLAN

SHEET NUMBER:
C-101
3 OF 10





DEMOLITION NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK.
2. CONTRACTOR SHALL BE AWARE OF ONGOING CONSTRUCTION ON ADJACENT SITES AND COORDINATE WHEN NEEDED WITH OTHER CONTRACTORS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER INDICATED ON THE DRAWING OR NOT TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES AND SUBSTRUCTURES AND PROTECT THEM FROM ANY DAMAGE.
4. PROMPTLY NOTIFY THE DPW REPRESENTATIVE OF ANY DISCREPANCIES AND/OR CONDITIONS WHICH PREVENT FULFILLING THE TERMS OF THE CONTRACT.
5. ITEMS AND MATERIALS TO BE REMOVED SHALL BE DONE IN SUCH A MANNER AS TO PREVENT DAMAGES TO ITEMS AND MATERIALS THAT REMAIN. SUCH DAMAGES SHALL BE REPAIRED TO THE SATISFACTION OF THE DPW REPRESENTATIVE AND AT NO ADDITIONAL COST TO THE GOVERNMENT.
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7. THE GOVERNMENT RESERVES THE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION ITEMS. THOSE DEMOLITION ITEMS THE GOVERNMENT DOES NOT WISH TO KEEP SHALL BECOME PROPERTY OF THE CONTRACTOR FOR PROPER DISPOSAL.
8. THE CONTRACTOR SHALL OBTAIN A PROPER EXCAVATION REQUEST, PRIOR TO COMMENCING DIGGING WORK AND THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL DIGGING OPERATIONS.
9. CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER'S FIELD REPRESENTATIVE IMMEDIATELY OF ANY CONFLICTS DISCOVERED IN THE FIELD TO ALLOW SUFFICIENT TIME FOR REVIEW AND FINAL DETERMINATION.
- 10.ARCHEOLOGY REQUIREMENTS: CONTRACTOR SHALL REPORT ANY INADVERTENT DISCOVERIES TO DPW-ENVIRONMENTAL IMMEDIATELY; IF BONE IS ENCOUNTERED, STOP DIGGING IMMEDIATELY AND CONTACT FABIOLA SILVA AT (915) 568-2707.
- 11.THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING EQUIPMENT, MATERIALS AND FINISHES THAT ARE TO REMAIN AND WITHOUT UNNECESSARY DAMAGE. ANY DAMAGE TO SAME SHALL BE REPLACED OR RESTORED WITHOUT ADDITIONAL COST TO THE GOVERNMENT.
- 12.EXISTING PAVEMENTS AND ALL OTHER AREAS ADJACENT TO THE SITE SHALL BE KEPT CLEAN AT ALL TIMES. DO NOT ALLOW BUILDUP OF SOIL, MUD, DUST OR OTHER DEBRIS.
- 13.ALL SAW-CUT WORK SHALL BE PERFORMED IN A NEAT, WORKMAN LIKE MANNER, AS APPROVED BY DPW REPRESENTATIVE. WHERE CONCRETE DEMOLITION IS REQUIRED, CONTRACTOR SHALL USE A SAW CUT AT THE LIMITS OF DEMOLITION OR NEAREST JOINT TO OBTAIN A CLEAN VERTICAL EDGE.
- 14.CONSTRUCTION AND DEMOLITION DIVERSION: FORT BLISS REQUIRES A MINIMUM OF 60% OF CONSTRUCTION AND DEMOLITION MATERIALS AND DEBRIS DIVERSION FROM LANDFILLS. IF THE CONTRACTOR HAS A VALID REASON FOR NOT BEING ABLE TO MEET THIS DIVERSION GOAL, THE CONTRACTOR NEEDS TO PRESENT THEIR REASONING IN WRITING TO DPW-ENVIRONMENTAL.
- 15.WASTE MATERIAL OR EXCESS TOPSOIL GENERATED AS A RESULT OF CLEARING AND GRADING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR APPROPRIATE DISPOSAL OF ALL SPOIL MATERIAL SHALL BE AT THE CONTRACTOR'S EXPENSE. BURNING ON THE OWNER'S PROPERTY IS NOT PERMITTED.
- 16.EARTHWORK, GRADING OR ASPHALT ROUGHING, IF ANY, WILL REQUIRE DUST CONTROL WITH EITHER WATER OR DUST SUPPRESSANT DURING CONSTRUCTION OF PAVED AREA.
17. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AND COORDINATE WITH DEPARTMENT OF EMERGENCIES SERVICES (DES), DIRECTORATE OF PLANS TRAINING MOBILIZATION AND SECURITY (DPTMS), BALFOUR BEATTY COMMUNITIES (BBC), AND IMPACTED FACILITIES. SUBMIT PLANS FOR FUTURE PHASES OF CONSTRUCTION A MINIMUM OF 30 DAYS BEFORE START OF THAT CONSTRUCTION PHASE TO ALLOW REVIEW AND RESUBMITTAL, IF NECESSARY, AND PUBLIC NOTIFICATION. DO NOT BEGIN CONSTRUCTION ON ANY GIVEN PHASE BEFORE RECEIVING WRITTEN ACCEPTANCE. FAILURE TO SUBMIT THE TRAFFIC CONTROL PLANS WITHIN THE SPECIFIED TIME FRAMES WILL NOT BE JUSTIFICATION FOR ADDITIONAL WORKING DAYS. FAILURE TO ADEQUATELY ADDRESS COMMENTS IN ANY REQUIRED RESUBMITTAL ALSO WILL NOT JUSTIFY ADDITIONAL WORKING DAYS. ALL TRAFFIC SIGNS AND TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD). CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL DEVICES DURING THE PROSECUTION OF ALL WORK SHOWN IN THE DRAWINGS.
- 18.THE CONTRACTOR SHALL RESTORE ANY ACCESS ROADS AND LAY-DOWN AREAS USED BACK TO THEIR ORIGINAL STABILIZED CONDITION OR BETTER.
- 19.SURPLUS EARTH, GRAVEL, ASPHALT OR CONCRETE RUBBLE HAULED ON AND OFF THE INSTALLATION IN AN OPEN-BED TRUCK MUST BE COVERED OR WETTED TO MINIMIZE DUST.
- 20.ANY CRUSHING OF MATERIALS SHOULD BE DONE OFF-POST BY AN AUTHORIZED AND PERMITTED FACILITY.

DATE									
DESCRIPTION									
MARK									

DESIGNED BY:	I.A.T.	DATE:	04/30/2020
DRAWN BY:	M.A.A.	W.O. #	FE-10101-6J
REVIEWED BY:	I.A.T.	SPEC. #	
SCALE:	AS SHOWN		

DIRECTORATE OF  
PUBLIC WORKS  
FORT BLISS, TEXAS

FORT BLISS  
DPW

HOLBROOK RD. AT CARTER RD.  
WATER MITIGATION PROJECT

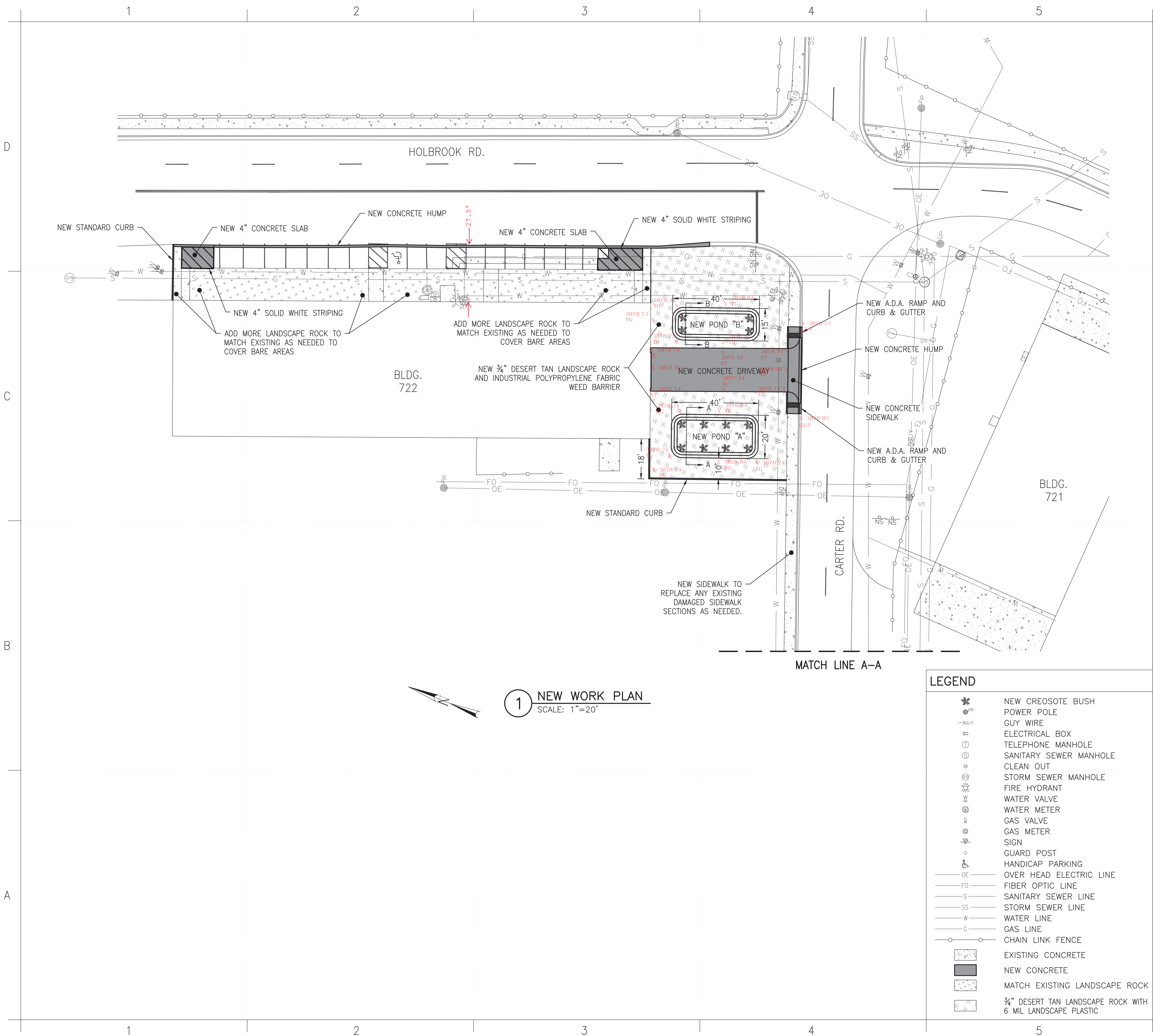
DEMOLITION PLAN (CONTINUED)

SHEET  
NUMBER:

C-102

4 OF 10





GENERAL NOTES

- PRIOR TO ANY CHANGE OR MODIFICATION TO THESE DRAWINGS DUE TO ACTUAL CONDITIONS, DPW REPRESENTATIVE SHALL BE NOTIFIED FOR REVIEW AND APPROVAL.
- COMPLY WITH THE REQUIREMENTS OF NFPA 241 FOR FIRE PREVENTION DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH CX-LOG FROM DPW ENVIRONMENTAL.
- CONSTRUCTION PROJECTS WHICH REQUIRE ANY TYPE OF DISTURBANCE OF THE SOIL MUST OBTAIN AN EXCAVATION REQUEST.
- CONSTRUCTION AND DEMOLITION DIVERSION: FORT BLISS REQUIRES A MINIMUM OF 60% OF CONSTRUCTION AND DEMOLITION MATERIAL AND DEBRIS DIVERSION FROM LANDFILL. IF CONTRACTOR HAS A VALID REASON FOR NOT BEING ABLE TO MEET THIS DIVERSION GOAL, THE CONTRACTOR NEEDS TO PRESENT THEIR REASONING IN WRITING TO DPW-ENVIRONMENTAL.
- THE CONTRACTOR SHALL RESTORE ANY ACCESS ROADS AD LAY-DOWN AREAS USED BACK TO THEIR ORIGINAL STABILIZED CONDITION OR BETTER.
- THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS FOR INADVERTENT DISCOVERIES OF CULTURAL MATERIALS. SHOULD INADVERTENT DISCOVERY OF CULTURAL MATERIALS, INCLUDING BONES, BE ENCOUNTERED DURING CONSTRUCTION, WORK WOULD BE REQUIRE TO STOP IN THAT AREA, AND FORT BLISS ARCHAEOLOGISTS SHOULD BE NOTIFIED IMMEDIATELY. CONTACT FORT BLISS ARCHAEOLOGIST, 915-568-2707, FABIOLA.E.SILVA@MAIL.MIL, FOR FURTHER DETAILS.
- THE CONTRACTOR SHALL NOTIFY GOVERNMENT REPRESENTATIVE IF ANY SOIL DISCOLORATION, ODORS, RUBBISH AND/OR ANY ENVIRONMENTAL CONCERNS BE UNCOVERED, THE CONTRACTOR SHALL SUSPEND WORK ON THE SITE OF THE DISCOVERY AND CONTINUE OPERATIONS IN ALL OTHER AREAS.
- EARTHWORK, GRADING OR ASPHALT ROUGHING, IF ANY, WILL REQUIRE DUST CONTROL WITH EITHER WATER OR DUST SUPPRESSANT DURING CONSTRUCTION OF PAVED AREA.
- SURPLUS EARTH, GRAVEL, ASPHALT OR CONCRETE RUBBLE HAULED ON AND OFF THE INSTALLATION IN AN OPEN-BED TRUCK MUST BE COVERED OR WETTED TO MINIMIZE DUST.
- ANY CRUSHING OF MATERIALS SHOULD BE DONE OFF-POST BY AN AUTHORIZED AND PERMITTED FACILITY.
- LANDSCAPE PLASTIC SHALL NOT BE PLACED AT THE BOTTOM OF THE POND TO ALLOW STORM WATER INFILTRATION.
- THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS FOR INADVERTENT DISCOVERIES OF CULTURAL MATERIALS. SHOULD INADVERTENT DISCOVERY OF CULTURAL MATERIALS, INCLUDING BONES, BE ENCOUNTERED DURING CONSTRUCTION, WORK WOULD BE REQUIRE TO STOP IN THAT AREA, AND FORT BLISS ARCHAEOLOGISTS SHOULD BE NOTIFIED IMMEDIATELY. CONTACT FORT BLISS ARCHAEOLOGIST, 915-568-2707, FABIOLA.E.SILVA@MAIL.MIL, FOR FURTHER DETAILS.
- CONTRACTOR SHALL PROPERLY SECURE THE CONSTRUCTION LIMITS TO PREVENT FACILITY USERS FROM ACCESSING THE SITE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER INDICATED ON THE DRAWING OR NOT TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES AND SUBSTRUCTURES AND PROTECT THEM FROM ANY DAMAGE.
- A CHANGE IN LEVEL OF 1/2 INCH IS PERMITTED TO BE 1/4 INCH VERTICAL PLUS 1/4 INCH BEVELED. HOWEVER, IN NO CASE MAY THE COMBINED CHANGE IN LEVEL EXCEED 1/2 INCH. CHANGES IN LEVEL EXCEEDING 1/2 INCH MUST COMPLY WITH 405 (RAMPS) OR 406 (CURB RAMPS) OF THE AMERICAN WITH DISABILITIES ACT (ADA).
- NEW STRUCTURES SUCH AS CONCRETE SLABS, ASPHALT PAVEMENT, SIDEWALKS, ETC. SHALL SLOPE AWAY FROM BUILDINGS AT A MINIMUM OF 2% BUT NOT MORE THAN 5%.

GRADING NOTES

- PRIOR CONTRACTOR AND SUBCONTRACTORS SHALL CONTRACT WITH A SURVEYOR AS REQUIRED TO VERIFY PROJECT ELEVATIONS AND BENCHMARK ELEVATION(S) PRIOR TO CONSTRUCTION. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY BOTH VERTICAL AND HORIZONTAL ALIGNMENT. ALL FINISHED EARTHEN GRADES SHALL NOT EXCEED 3:1 (H:V) SLOPE.
- COMPLY CONTRACTOR SHALL FIELD VERIFY CUT AND FILL AREAS REQUIRED TO ESTABLISH FINAL ELEVATIONS AND PROPER DRAINAGE RUNOFF CROSS SLOPES FOR AREAS IDENTIFIED IN THE PLANS. FINAL ELEVATIONS SHALL BE SHOWN ON AS-BUILTS.

DATE	
DESCRIPTION	
MARK	

DESIGNED BY:	I.A.T.	DATE:	04/30/2020
DRAWN BY:	M.A.A.	W.O. #	FE-10101-6J
REVIEWED BY:	I.A.T.	SPEC. #	
SCALE:	AS SHOWN		

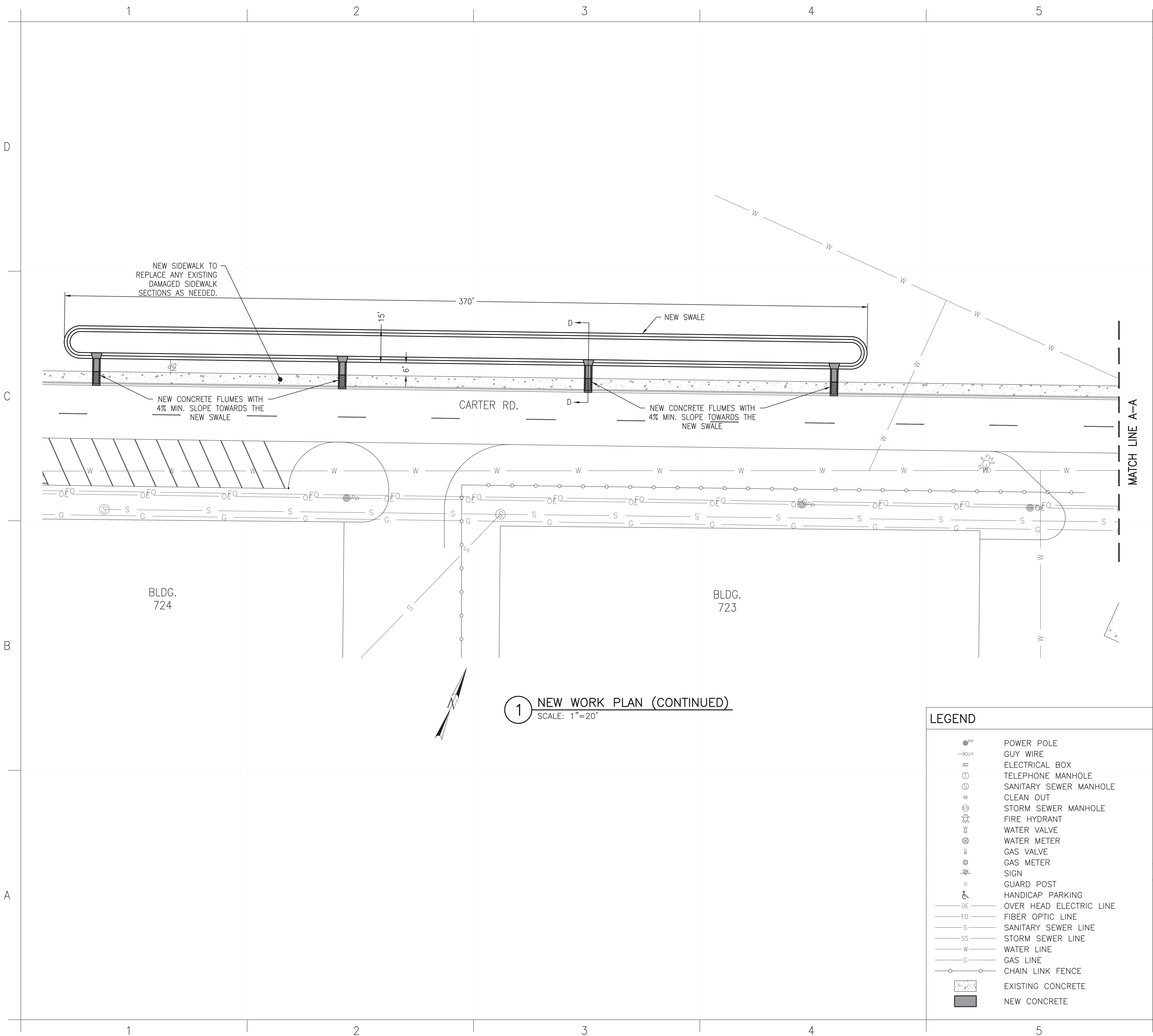
DIRECTORATE OF  
PUBLIC WORKS  
FORT BLISS, TEXAS

HOLBROOK RD. AT CARTER RD.  
WATER MITIGATION PROJECT

NEW WORK PLAN

SHEET  
NUMBER:  
**C-103**  
5 OF 10





## GENERAL NOTES

- PRIOR TO ANY CHANGE OR MODIFICATION TO THESE DRAWINGS DUE TO ACTUAL CONDITIONS, DPW REPRESENTATIVE SHALL BE NOTIFIED FOR REVIEW AND APPROVAL.
- COMPLY WITH THE REQUIREMENTS OF NFPA 241 FOR FIRE PREVENTION DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH CX-LOG FROM DPW ENVIRONMENTAL.
- CONSTRUCTION PROJECTS WHICH REQUIRE ANY TYPE OF DISTURBANCE OF THE SOIL MUST OBTAIN AN EXCAVATION REQUEST.
- CONSTRUCTION AND DEMOLITION DIVERSION: FORT BLISS REQUIRES A MINIMUM OF 60% OF CONSTRUCTION AND DEMOLITION MATERIAL AND DEBRIS DIVERSION FROM LANDFILL. IF CONTRACTOR HAS A VALID REASON FOR NOT BEING ABLE TO MEET THIS DIVERSION GOAL, THE CONTRACTOR NEEDS TO PRESENT THEIR REASONING IN WRITING TO DPW-ENVIRONMENTAL.
- THE CONTRACTOR SHALL RESTORE ANY ACCESS ROADS AD LAY-DOWN AREAS USED BACK TO THEIR ORIGINAL STABILIZED CONDITION OR BETTER.
- THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS FOR INADVERTENT DISCOVERIES OF CULTURAL MATERIALS. SHOULD INADVERTENT DISCOVERY OF CULTURAL MATERIALS, INCLUDING BONES, BE ENCOUNTERED DURING CONSTRUCTION, WORK WOULD BE REQUIRE TO STOP IN THAT AREA, AND FORT BLISS ARCHAEOLOGISTS SHOULD BE NOTIFIED IMMEDIATELY. CONTACT FORT BLISS ARCHAEOLOGIST, 915-568-2707, FABIOLA.E.SILVA@MAIL.MIL, FOR FURTHER DETAILS.
- THE CONTRACTOR SHALL NOTIFY GOVERNMENT REPRESENTATIVE IF ANY SOIL DISCOLORATION, ODORS, RUBBISH AND/OR ANY ENVIRONMENTAL CONCERNS BE UNCOVERED, THE CONTRACTOR SHALL SUSPEND WORK ON THE SITE OF THE DISCOVERY AND CONTINUE OPERATIONS IN ALL OTHER AREAS.
- EARTHWORK, GRADING OR ASPHALT ROUGHING, IF ANY, WILL REQUIRE DUST CONTROL WITH EITHER WATER OR DUST SUPPRESSANT DURING CONSTRUCTION OF PAVED AREA.
- SURPLUS EARTH, GRAVEL, ASPHALT OR CONCRETE RUBBLE HAULED ON AND OFF THE INSTALLATION IN AN OPEN-BED TRUCK MUST BE COVERED OR WETTED TO MINIMIZE DUST.
- ANY CRUSHING OF MATERIALS SHOULD BE DONE OFF-POST BY AN AUTHORIZED AND PERMITTED FACILITY.
- LANDSCAPE PLASTIC SHALL NOT BE PLACED AT THE BOTTOM OF THE POND TO ALLOW STORM WATER INFILTRATION.
- THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS FOR INADVERTENT DISCOVERIES OF CULTURAL MATERIALS. SHOULD INADVERTENT DISCOVERY OF CULTURAL MATERIALS, INCLUDING BONES, BE ENCOUNTERED DURING CONSTRUCTION, WORK WOULD BE REQUIRE TO STOP IN THAT AREA, AND FORT BLISS ARCHAEOLOGISTS SHOULD BE NOTIFIED IMMEDIATELY. CONTACT FORT BLISS ARCHAEOLOGIST, 915-568-2707, FABIOLA.E.SILVA@MAIL.MIL, FOR FURTHER DETAILS.
- CONTRACTOR SHALL PROPERLY SECURE THE CONSTRUCTION LIMITS TO PREVENT FACILITY USERS FROM ACCESSING THE SITE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER INDICATED ON THE DRAWING OR NOT TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES AND SUBSTRUCTURES AND PROTECT THEM FROM ANY DAMAGE.
- A CHANGE IN LEVEL OF 1/2 INCH IS PERMITTED TO BE 1/4 INCH VERTICAL PLUS 1/4 INCH BEVELED. HOWEVER, IN NO CASE MAY THE COMBINED CHANGE IN LEVEL EXCEED 1/2 INCH. CHANGES IN LEVEL EXCEEDING 1/2 INCH MUST COMPLY WITH 405 (RAMPS) OR 406 (CURB RAMPS) OF THE AMERICAN WITH DISABILITIES ACT (ADA).
- NEW STRUCTURES SUCH AS CONCRETE SLABS, ASPHALT PAVEMENT, SIDEWALKS, ETC. SHALL SLOPE AWAY FROM BUILDINGS AT A MINIMUM OF 2% BUT NOT MORE THAN 5%.

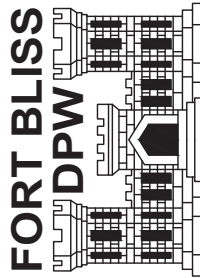
## GRADING NOTES

- PRIOR CONTRACTOR AND SUBCONTRACTORS SHALL CONTRACT WITH A SURVEYOR AS REQUIRED TO VERIFY PROJECT ELEVATIONS AND BENCHMARK ELEVATION(S) PRIOR TO CONSTRUCTION. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY BOTH VERTICAL AND HORIZONTAL ALIGNMENT. ALL FINISHED EARTHEN GRADES SHALL NOT EXCEED 3:1 (H:V) SLOPE.
- COMPLY CONTRACTOR SHALL FIELD VERIFY CUT AND FILL AREAS REQUIRED TO ESTABLISH FINAL ELEVATIONS AND PROPER DRAINAGE RUNOFF CROSS SLOPES FOR AREAS IDENTIFIED IN THE PLANS. FINAL ELEVATIONS SHALL BE SHOWN ON AS-BUILTS.

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DESCRIPTION									
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DESIGNED BY:	I.A.T.	DATE:	04/30/2020
DRAWN BY:	M.A.A.	W.O. #	FE-10101-6J
REVIEWED BY:	I.A.T.	SPEC. #	
SCALE:	AS SHOWN		

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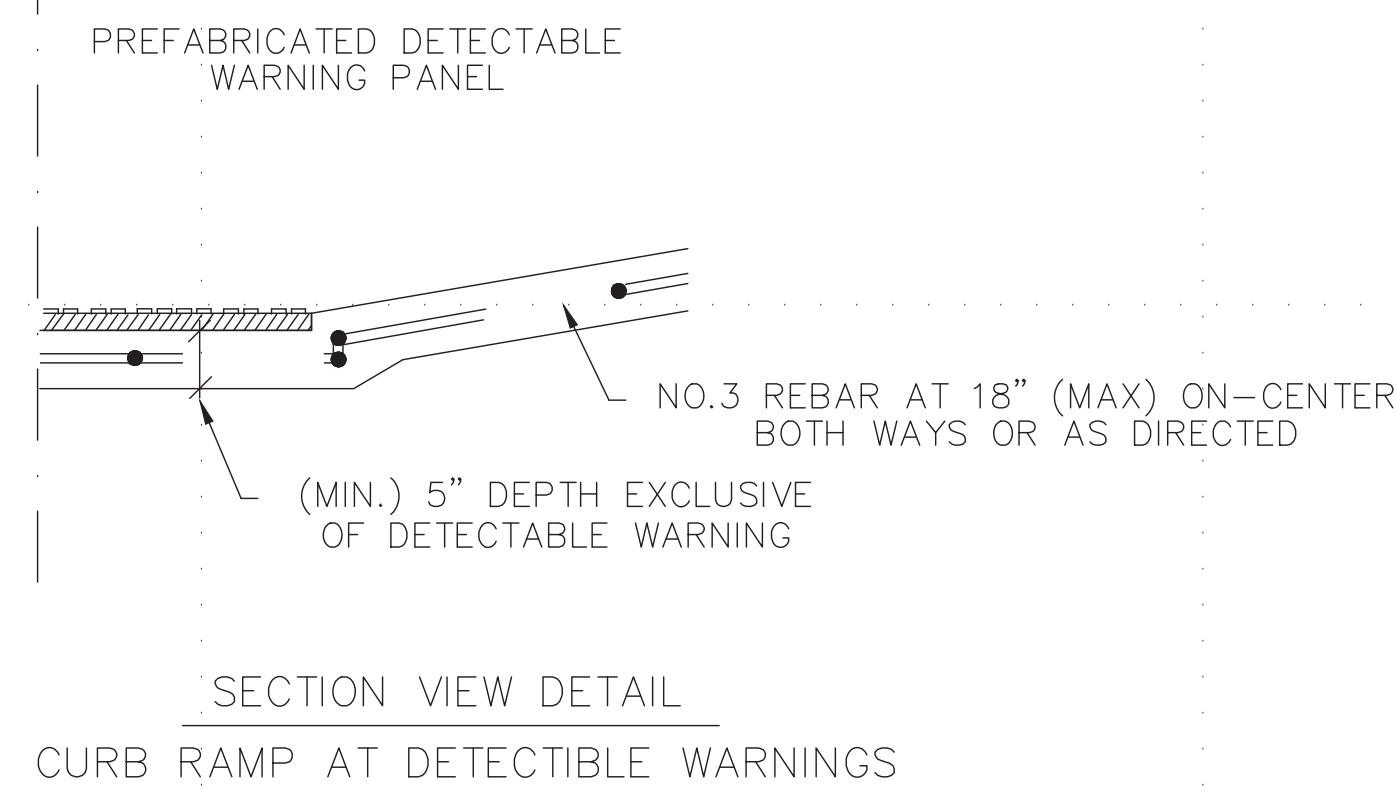
HOLBROOK RD. AT CARTER RD.  
WATER MITIGATION PROJECT  
NEW WORK PLAN (CONTINUED)

SHEET  
NUMBER:

C-104

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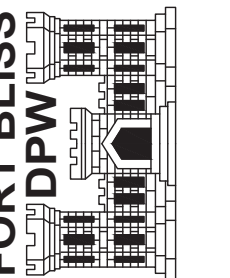


1. ALL SLOPES SHOWN ARE MAXIMUM ALLOWABLE. CROSS SLOPES OF 1.5% AND LESSER RUNNING SLOPES MUST BE USED. ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
2. MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2%.
3. TURNING SPACES SHALL BE 5'x 5' MINIMUM. CROSS SLOPE SHALL BE MAXIMUM 2%.
4. CLEAR SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4'x 4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
5. FURNISH AND INSTALL NO. 3 REINFORCING STEEL BARS AT 18" O.C. BOTH WAYS, UNLESS OTHERWISE DIRECTED.
6. PROVIDE A SMOOTH TRANSITION WHERE THE CURB RAMPS CONNECT TO THE STREET.
7. CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOWNS COMPLYING WITH PROWAG. THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES. FURNISH AND INSTALL AN APPROVED CAST-IN-PLACE RED DETECTABLE WARNING SURFACE MATERIAL ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
8. DETECTABLE WARNING MATERIALS MUST MEET TxDOT DEPARTMENTAL MATERIALS SPECIFICATION DMS 4350 AND BE LISTED ON THE MATERIAL PRODUCER LIST. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
9. DETECTABLE WARNING SURFACES MUST BE FIRM, STABLE AND SLIP RESISTANT.
10. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24 INCHES IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
11. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS AT THE BACK OF CURB AND NEITHER END OF THAT EDGE IS GREATER THAN 5 FEET FROM THE BACK OF CURB. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.

[illegible]

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HOLBROOK RD. AT CARTER RD.  
WATER MITIGATION PROJECT

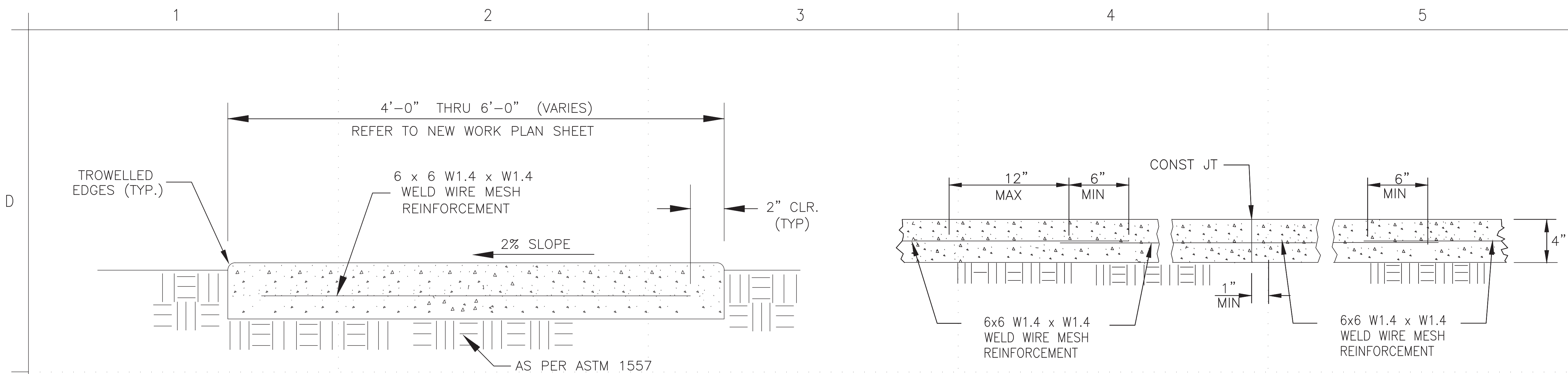
## DETAILS

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NUMBER:

C-105

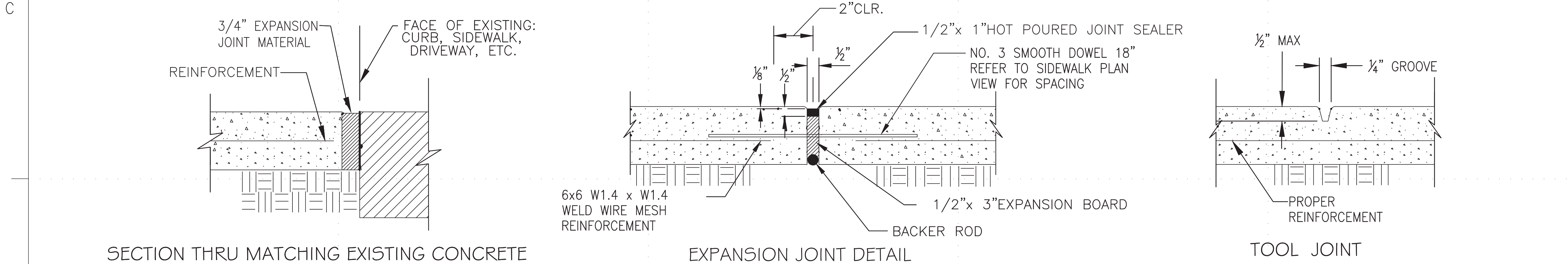
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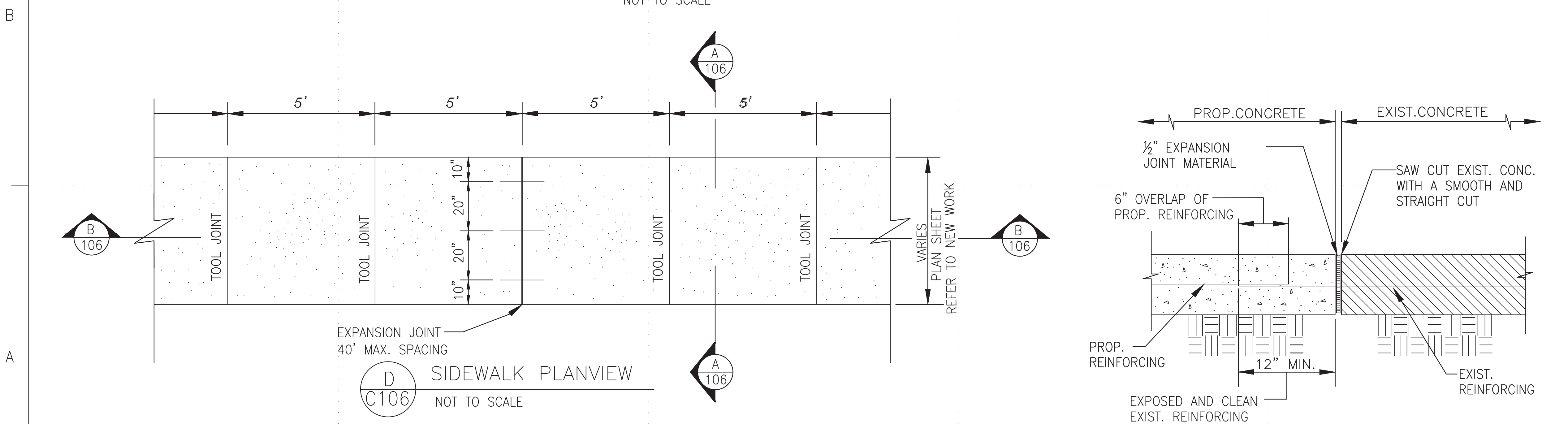


**TYPICAL SIDEWALK SECTION A - A**  
NOT TO SCALE

**SIDEWALK SECTION B - B**  
NOT TO SCALE



**EXPANSION & CONTRACTION JOINTS DETAILS**



**SIDEWALK PLANVIEW**  
NOT TO SCALE

**SAWCUT DETAIL**

NOT TO SCALE

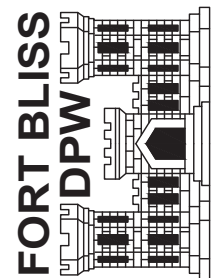
## SIDEWALK NOTES

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'C=4000 PSI IN 28 DAYS, UNLESS NOTED OTHERWISE.
- FLOAT AND FINISH EXPOSED SURFACES WITH A SMOOTH WOOD FLOAT UNTIL TRUE TO GRADE AND SECTION AND UNIFORM IN TEXTURE. BRUSH FLOATED SURFACES WITH A FINE-HAIR BRUSH USING LONGITUDINAL STROKES. ROUND THE EDGES OF THE GUTTER AND TOP OF THE CURB WITH AN EDGING TOOL TO A RADIUS OF 1/2 INCH. IMMEDIATELY AFTER REMOVING THE FRONT CURB FORM, RUB THE FACE OF THE CURB WITH A WOOD OR CONCRETE RUBBING BLOCK AND WATER UNTIL BLEMISHES, FORM MARKS, AND TOOL MARKS HAVE BEEN REMOVED. BRUSH THE FRONT CURB SURFACE, WHILE STILL WET, IN THE SAME MANNER AS THE GUTTER AND CURB TOP. FINISH THE TOP SURFACE OF GUTTER TO GRADE WITH A WOOD FLOAT.
- A WHITE PIGMENTED MEMBRANE CURING SHALL BE USED FOR THE CONCRETE CURB & GUTTER, AS APPROVED BY THE GOVERNMENT REPRESENTATIVE. COAT FORMED SURFACES IMMEDIATELY AFTER THE FORMS ARE REMOVED AND IN NO CASE LONGER THAN 1 HOUR AFTER THE REMOVAL OF FORMS.
- FOR CURBS, GUTTERS, AND SIDEWALKS AIR CONTENT SHALL BE 5 TO 7 PERCENT BY VOLUME, BASED ON MEASUREMENTS MADE IMMEDIATELY AFTER DISCHARGE FROM THE MIXER.
- FOR SIDEWALKS, PROVIDE 4 INCHES THICK MINIMUM. PROVIDE CONTRACTION JOINTS SPACED EVERY 5 LINEAR FEET UNLESS OTHERWISE INDICATED. CUT CONTRACTION JOINTS 1 INCH DEEP, OR ONE FOURTH THE SLAB THICKNESS WHICHEVER IS DEEPER, WITH A JOINTING TOOL AFTER THE SURFACE HAS BEEN FINISHED. PROVIDE 0.5 INCH THICK TRANSVERSE EXPANSION JOINTS AT CHANGES IN DIRECTION WHERE SIDEWALK ABUTS CURB, STEPS, RIGID PAVEMENT, OR OTHER SIMILAR STRUCTURES; SPACE EXPANSION JOINTS EVERY 50 FEET MAXIMUM. GIVE WALKS A BROOMED FINISH. UNLESS INDICATED OTHERWISE, PROVIDE A TRANSVERSE SLOPE OF 1/48. LIMIT VARIATION IN CROSS SECTION TO 1/4 INCH IN 5 FEET.
- SLUMP FOR CURBS, GUTTERS, AND SIDEWALKS SHALL BE 3 INCHES PLUS OR MINUS 1 INCH FOR HAND PLACED CONCRETE OR 1 INCH PLUS OR MINUS 1/2 INCH FOR SLIPFORMED CONCRETE AS DETERMINED IN ACCORDANCE WITH ASTM C143/C143M.
- FOR SIDEWALKS USE WIRE MESH REINFORCEMENT CONFORMING TO ASTM A1064/A1064M.
- SIDEWALKS. SET FORMS FOR SIDEWALKS WITH THE UPPER EDGE TRUE TO LINE AND GRADE WITH AN ALLOWABLE TOLERANCE OF 1/8 INCH IN ANY 10 FOOT LONG SECTION. AFTER FORMS ARE SET, GRADE AND ALIGNMENT MUST BE CHECKED WITH A 10 FOOT STRAIGHTEDGE. SIDEWALKS MUST HAVE A TRANSVERSE SLOPE AS INDICATED. DO NOT REMOVE SIDE FORMS LESS THAN 12 HOURS AFTER FINISHING HAS BEEN COMPLETED.
- USE COLD-APPLIED JOINT SEALANT CONFORMING TO ASTM C920 OR ASTM D5893/D5893M FOR SIDEWALKS AND CURBS.
- CURB AND SIDEWALK SURFACE AND THICKNESS TOLERANCES. FINISHED SURFACES MUST NOT VARY MORE THAN 1/4 INCH FROM THE TESTING EDGE OF A 10-FOOT STRAIGHTEDGE. PERMISSIBLE DEFICIENCY IN SECTION THICKNESS WILL BE UP TO 1/4 INCH.
- SIDEWALK JOINTS. CONSTRUCT SIDEWALK JOINTS USING FILLER STRIPS TO DIVIDE THE SURFACE INTO RECTANGULAR AREAS. SPACE TRANSVERSE CONTRACTION JOINTS AT A DISTANCE EQUAL TO THE SIDEWALK WIDTH OR 5 FEET ON CENTERS, WHICHEVER IS LESS, AND CONTINUOUS ACROSS THE SLAB. CONSTRUCT LONGITUDINAL CONTRACTION JOINTS ALONG THE CENTERLINE OF ALL SIDEWALKS 10 FEET OR MORE IN WIDTH. CONSTRUCT TRANSVERSE EXPANSION JOINTS AT SIDEWALK RETURNS AND OPPOSITE EXPANSION JOINTS IN ADJOINING CURBS. WHERE THE SIDEWALK IS NOT IN CONTACT WITH THE CURB, INSTALL TRANSVERSE EXPANSION JOINTS AS INDICATED. FORM EXPANSION JOINTS AROUND STRUCTURES AND FEATURES WHICH PROJECT THROUGH OR INTO THE SIDEWALK PAVEMENT, USING JOINT FILLER OF THE TYPE, THICKNESS, AND WIDTH INDICATED. EXPANSION JOINTS ARE NOT REQUIRED BETWEEN SIDEWALKS AND CURB THAT ABUT THE SIDEWALK LONGITUDINALLY. FORM EXPANSION JOINTS USING 1/2 INCH JOINT FILLER STRIPS. JOINT FILLER IN EXPANSION JOINTS SURROUNDING STRUCTURES AND FEATURES WITHIN THE SIDEWALK MAY CONSIST OF PREFORMED FILLER MATERIAL CONFORMING TO ASTM D1752 OR BUILDING PAPER. HOLD JOINT FILLER IN PLACE WITH STEEL PINS OR OTHER DEVICES TO PREVENT WARPING OF THE FILLER DURING FLOATING AND FINISHING. IMMEDIATELY AFTER FINISHING OPERATIONS ARE COMPLETED, ROUND JOINT EDGES USING AN EDGING TOOL HAVING A RADIUS OF 1/8 INCH. REMOVE ANY CONCRETE OVER THE JOINT FILLER. AT THE END OF THE CURING PERIOD, CLEAN THE TOP OF EXPANSION JOINTS AND FILL WITH COLD-APPLIED JOINT SEALANT. USE JOINT SEALANT THAT IS GRAY OR STONE IN COLOR. THOROUGHLY CLEAN THE JOINT OPENING BEFORE THE SEALING MATERIAL IS PLACED. DO NOT SPILL SEALING MATERIAL ON EXPOSED SURFACES OF THE CONCRETE. APPLY JOINT SEALING MATERIAL ONLY WHEN THE CONCRETE AT THE JOINT IS SURFACE DRY AND ATMOSPHERIC AND CONCRETE TEMPERATURES ARE ABOVE 50 DEGREES F. IMMEDIATELY REMOVE ANY EXCESS MATERIAL ON EXPOSED SURFACES OF THE CONCRETE AND CLEAN THE CONCRETE SURFACES.

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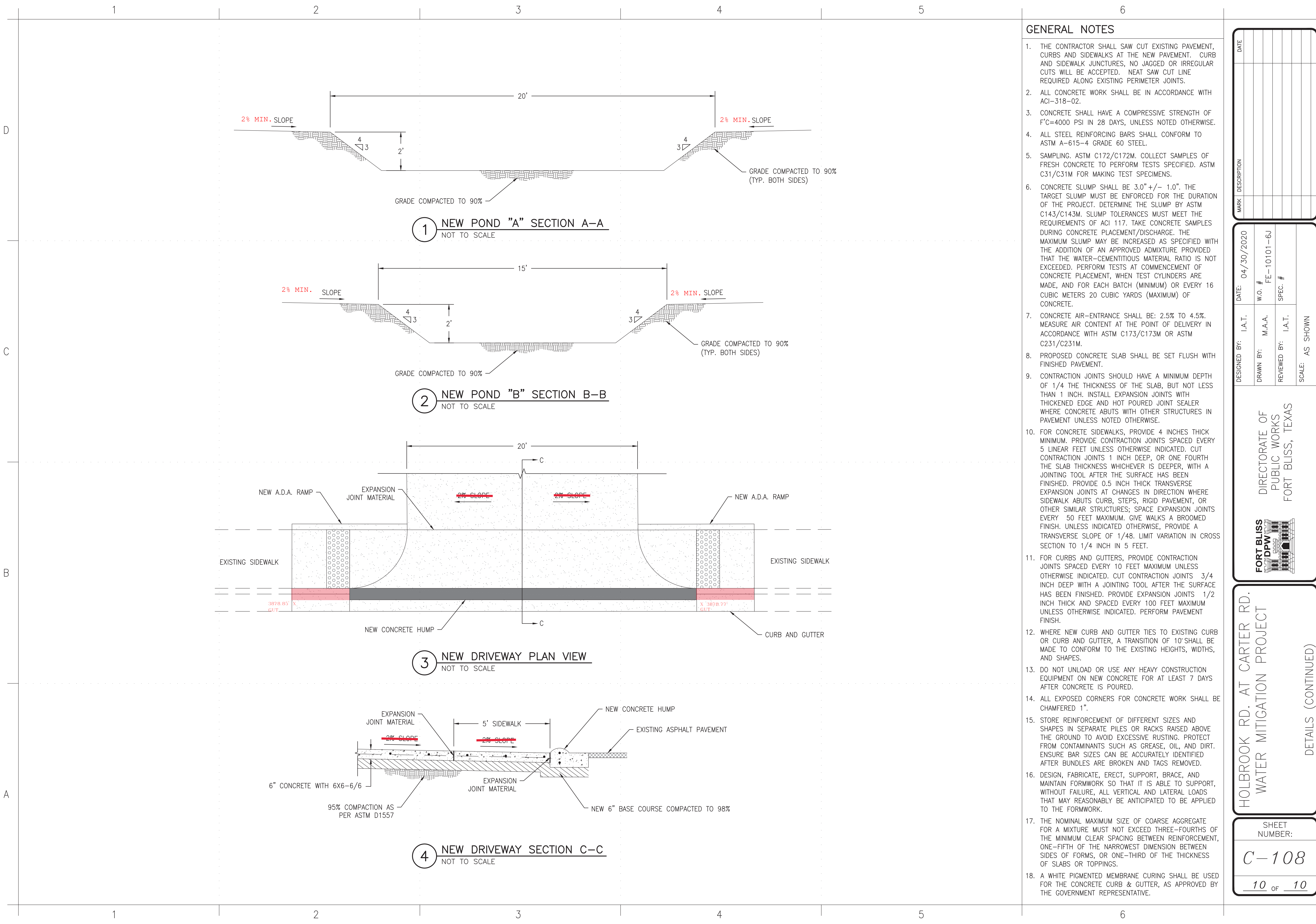
HOLBROOK RD. AT CARTER RD.  
WATER MITIGATION PROJECT  
DETAILS (CONTINUED)

SHEET NUMBER:
C-106
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GENERAL NOTES

1. THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT, CURBS AND SIDEWALKS AT THE NEW PAVEMENT. CURB AND SIDEWALK JUNCTURES, NO JAGGED OR IRREGULAR CUTS WILL BE ACCEPTED. NEAT SAW CUT LINE REQUIRED ALONG EXISTING PERIMETER JOINTS.
2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI-318-02.
3. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF F'C=4000 PSI IN 28 DAYS, UNLESS NOTED OTHERWISE.
4. ALL STEEL REINFORCING BARS SHALL CONFORM TO ASTM A-615-4 GRADE 60 STEEL.
5. SAMPLING. ASTM C172/C172M. COLLECT SAMPLES OF FRESH CONCRETE TO PERFORM TESTS SPECIFIED. ASTM C31/C31M FOR MAKING TEST SPECIMENS.
6. CONCRETE SLUMP SHALL BE 3.0" +/- 1.0". THE TARGET SLUMP MUST BE ENFORCED FOR THE DURATION OF THE PROJECT. DETERMINE THE SLUMP BY ASTM C143/C143M. SLUMP TOLERANCES MUST MEET THE REQUIREMENTS OF ACI 117. TAKE CONCRETE SAMPLES DURING CONCRETE PLACEMENT/DISCHARGE. THE MAXIMUM SLUMP MAY BE INCREASED AS SPECIFIED WITH THE ADDITION OF AN APPROVED ADMIXTURE PROVIDED THAT THE WATER-CEMENTITIOUS MATERIAL RATIO IS NOT EXCEEDED. PERFORM TESTS AT COMMENCEMENT OF CONCRETE PLACEMENT, WHEN TEST CYLINDERS ARE MADE, AND FOR EACH BATCH (MINIMUM) OR EVERY 16 CUBIC METERS 20 CUBIC YARDS (MAXIMUM) OF CONCRETE.
7. CONCRETE AIR-ENTRANCE SHALL BE: 2.5% TO 4.5%. MEASURE AIR CONTENT AT THE POINT OF DELIVERY IN ACCORDANCE WITH ASTM C173/C173M OR ASTM C231/C231M.
8. PROPOSED CONCRETE SLAB SHALL BE SET FLUSH WITH FINISHED PAVEMENT.
9. CONTRACTION JOINTS SHOULD HAVE A MINIMUM DEPTH OF 1/4 THE THICKNESS OF THE SLAB, BUT NOT LESS THAN 1 INCH. INSTALL EXPANSION JOINTS WITH THICKENED EDGE AND HOT POURED JOINT SEALER WHERE CONCRETE ABUTS WITH OTHER STRUCTURES IN PAVEMENT UNLESS NOTED OTHERWISE.
10. FOR CONCRETE SIDEWALKS, PROVIDE 4 INCHES THICK MINIMUM. PROVIDE CONTRACTION JOINTS SPACED EVERY 5 LINEAR FEET UNLESS OTHERWISE INDICATED. CUT CONTRACTION JOINTS 1 INCH DEEP, OR ONE FOURTH THE SLAB THICKNESS WHICHEVER IS DEEPER, WITH A JOINTING TOOL AFTER THE SURFACE HAS BEEN FINISHED. PROVIDE 0.5 INCH THICK TRANSVERSE EXPANSION JOINTS AT CHANGES IN DIRECTION WHERE SIDEWALK ABUTS CURB, STEPS, RIGID PAVEMENT, OR OTHER SIMILAR STRUCTURES; SPACE EXPANSION JOINTS EVERY 50 FEET MAXIMUM. GIVE WALKS A BROOMED FINISH. UNLESS INDICATED OTHERWISE, PROVIDE A TRANSVERSE SLOPE OF 1/48. LIMIT VARIATION IN CROSS SECTION TO 1/4 INCH IN 5 FEET.
11. FOR CURBS AND GUTTERS, PROVIDE CONTRACTION JOINTS SPACED EVERY 10 FEET MAXIMUM UNLESS OTHERWISE INDICATED. CUT CONTRACTION JOINTS 3/4 INCH DEEP WITH A JOINTING TOOL AFTER THE SURFACE HAS BEEN FINISHED. PROVIDE EXPANSION JOINTS 1/2 INCH THICK AND SPACED EVERY 100 FEET MAXIMUM UNLESS OTHERWISE INDICATED. PERFORM PAVEMENT FINISH.
12. WHERE NEW CURB AND GUTTER TIES TO EXISTING CURB OR CURB AND GUTTER, A TRANSITION OF 10' SHALL BE MADE TO CONFORM TO THE EXISTING HEIGHTS, WIDTHS, AND SHAPES.
13. DO NOT UNLOAD OR USE ANY HEAVY CONSTRUCTION EQUIPMENT ON NEW CONCRETE FOR AT LEAST 7 DAYS AFTER CONCRETE IS POURED.
14. ALL EXPOSED CORNERS FOR CONCRETE WORK SHALL BE CHAMFERED 1".
15. STORE REINFORCEMENT OF DIFFERENT SIZES AND SHAPES IN SEPARATE PILES OR RACKS RAISED ABOVE THE GROUND TO AVOID EXCESSIVE RUSTING. PROTECT FROM CONTAMINANTS SUCH AS GREASE, OIL, AND DIRT. ENSURE BAR SIZES CAN BE ACCURATELY IDENTIFIED AFTER BUNDLES ARE BROKEN AND TAGS REMOVED.
16. DESIGN, FABRICATE, ERECT, SUPPORT, BRACE, AND MAINTAIN FORMWORK SO THAT IT IS ABLE TO SUPPORT, WITHOUT FAILURE, ALL VERTICAL AND LATERAL LOADS THAT MAY REASONABLY BE ANTICIPATED TO BE APPLIED TO THE FORMWORK.
17. THE NOMINAL MAXIMUM SIZE OF COARSE AGGREGATE FOR A MIXTURE MUST NOT EXCEED THREE-FOURTHS OF THE MINIMUM CLEAR SPACING BETWEEN REINFORCEMENT, ONE-FIFTH OF THE NARROWEST DIMENSION BETWEEN SIDES OF FORMS, OR ONE-THIRD OF THE THICKNESS OF SLABS OR TOPPINGS.
18. A WHITE PIGMENTED MEMBRANE CURING SHALL BE USED FOR THE CONCRETE CURB & GUTTER, AS APPROVED BY THE GOVERNMENT REPRESENTATIVE.

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HOLBROOK RD. AT CARTER RD.  
WATER MITIGATION PROJECT

DETAILS (CONTINUED)

SHEET NUMBER:
C-108
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