

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

April 11, 2019

J. Graeme Means, P.E.
High Mesa Consulting Group
6010 B Midway Park Blvd NE
Albuquerque, NM 87109

**RE: Amaran Senior Living
9100 Holly Ave NE
Grading and Drainage Plan
Engineer's Stamp Date: 2/15/19
Hydrology File: C20D079**

Dear Mr. Means,

PO Box 1293

Based on the submittal received on 4/1/19, this project is cannot be approved for Building Permit until the following are corrected:

Albuquerque

Prior to Building Permit:

NM 87103

www.cabq.gov

1. Hydraulic Calculations are required per DPM 22.3:
 - a. HGL calculations for the pipe network, determined along the energy grade line, are missing.
 - b. Pond routing and water surface elevations for both the first flush and the 100-year volumes are missing.
 - c. Grate capacity for the pond outlet needs to be checked using 3.72SF clear space (1.86SF w/ 50% clogging). The new grate Standard Detail is attached.
 - d. Provide a section through the pond and property line, showing that the downhill property will not be adversely affected by the placement of the pond.
2. Payment in Lieu (Amount = $2180\text{CF} \times \$8/\text{CF} = \$17,440$, per Sheet C100) of management onsite for the required storm water quality volume must be made

Prior to Certificate of Occupancy (For Information):

3. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.
4. The public work order will need to be closed out and accepted by the City, unless a financial guarantee has been posted.

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If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Peterson".

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



TREASURY DIVISION DAILY DEPOSIT

Transmittals for:
PROJECTS Only

Payment In-Lieu for Storm Water Quality Volume Requirement

CASH COUNT	AMOUNT	ACCOUNT NUMBER	FUND NUMBER	BUSINESS UNIT	PROJECT ID	ACTIVITY ID	AMOUNT
TOTAL CHECKS	\$ 17440.00	461615	305	PCDMD	24_MS4	7547210	\$ 17440.00
TOTAL AMOUNT						TOTAL DEPOSIT	\$17,440.00

Hydrology#: C20D079 Name: Amaran Senior Living, 76,941sf imp.
Payment In-Lieu For Storm Water Quality
Volume Requirement

Address/Legal Description: 9100 Holly Ave NE
Tr A, Holly Avenue Senior Living

DEPARTMENT NAME: Planning Department/Development Review Services, Hydrology

PREPARED BY Dana Peterson PHONE 924-3695

BUSINESS DATE 4/11/19

DUAL VERIFICATION OF DEPOSIT 
EMPLOYEE SIGNATURE

AND BY _____
EMPLOYEE SIGNATURE

REMITTER: _____

AMOUNT: _____

BANK: _____

CHECK #: _____ DATE ON CHECK: _____

The Payment-in-Lieu can be paid at the Plaza del Sol Treasury, 600 2nd St. NW. **Bring two copies of this invoice to the Treasury** and provide a copy of the receipt to Hydrology, Suite 201, 600 2nd St. NW, or e-mail with the Hydrology submittal to PLNDRS@cabq.gov.

DRAINAGE PLAN

I. EXECUTIVE SUMMARY AND INTRODUCTION
THE PROPOSED HOLLY SENIOR DEVELOPMENT IS LOCATED WITHIN THE LA CUEVA SECTOR PLAN AREA OF NORTH ALBUQUERQUE ACRES. THE SITE DEVELOPMENT PLANS FOR THE PROJECT WERE APPROVED THROUGH DRB. A CONCEPTUAL GRADING PLAN WAS INCLUDED IN THE DRB SET AND THE SUBMITTAL IS CONSISTENT WITH THAT PLAN...

II. PROJECT DESCRIPTION:
AS SHOWN BY VICINITY MAP C-20 LOCATED HEREON, THE SITE IS LOCATED IN THE NORTH ALBUQUERQUE ACRES SECTION OF ALBUQUERQUE, ON HOLLY AVE NE BETWEEN VENTURA ST NE AND HOLBORCK STREET NE. THE EXISTING LEGAL DESCRIPTION IS TRACT A, HOLLY AVENUE SENIOR LIVING. THE SITE IS ZONED MX-L AND THE PROPOSED DEVELOPMENT IS CONSISTENT WITH THE ZONING.

III. BACKGROUND DOCUMENTS
THE FOLLOWING IS A LIST OF DOCUMENTS RELATED TO THE SITE AND SURROUNDING AREA. THIS LIST MAY NOT BE INCLUSIVE, HOWEVER REPRESENTS A SUMMARY OF RELEVANT PLANS AND DOCUMENTS WHICH ARE KNOWN TO THE ENGINEER AT THE TIME OF THE PLAN PREPARATION.

A. THE "NORTH AND SOUTH DOMINGO BACA ARROYO AND PASEO DEL NORTE CORRIDOR DRAINAGE MANAGEMENT PLAN" PREPARED FOR AMAFCA BY RESOURCE TECHNOLOGY, INC. (RTI) DATED DECEMBER, 1991. THIS PLAN HAS BEEN ADOPTED BY AMAFCA AS A GUIDELINE FOR DRAINAGE MANAGEMENT WITHIN THIS AREA WHICH INCLUDES THE NORTH DOMINGO BACA ARROYO (NDBA). AMAFCA RESOLUTION 1992-3 DATED JANUARY 03, 1992 FORMALLY ADOPTED THIS PLAN WHICH IDENTIFIES THE EXTENSION OF PERMANENT DRAINAGE IMPROVEMENTS WITHIN THE NDBA CORRIDOR, AND ESTABLISHED DEVELOPED DRAINAGE BASIN BOUNDARIES WITHIN THE PLAN AREAS. AS SHOWN BY THIS PLAN, THIS SITE IS IDEALLY SITED TO DRAIN TO PUBLIC STORM DRAIN IMPROVEMENTS CONSTRUCTED WITHIN THE HOLLY RIGHT-OF-WAY.

B. REQUEST FOR LETTER OF MAP REVISION (LOMR) FOR THE NORTH DOMINGO BACA ARROYO CARMEL AVENUE STORM DRAIN EXTENSION PREPARED BY JMA DATED 12/08/2003 AND APPROVED BY FEMA 03/23/2004 (FEMA CASE NUMBER 04-06-671P). THIS LOMR SUPPORTS THE COMPLETED NORTH DOMINGO BACA ARROYO CARMEL AVENUE STORM DRAIN EXTENSION COST SHARE PROJECT BY AMAFCA. UPON FEMA APPROVAL, AND IT REMOVED THE ASSOCIATED FLOODPLAIN DESIGNATION FROM THE NDBA WEST OF A POINT MIDBLOCK BETWEEN HOLBORCK STREET AND EUBANK.

C. DRAINAGE REPORT FOR "LOS VIGILS SUBDIVISION" BY JEFF MORTENSEN & ASSOCIATES, INC. DATED 12/31/2002, HYDROLOGY FILE C20/D41. THIS PLAN THE CONSTRUCTION OF A 45 LOT RESIDENTIAL SUBDIVISION LOCATED TO THE NORTH OF THIS PROJECT ON THE NORTH SIDE OF HOLLY. THE LOS VIGILS PROJECT EXTENDED THE HOLLY STORM DRAIN ACROSS THE FRONTAGE OF THIS SITE AND DESIGNED THE REQUIRED INLETS ON THE SOUTH SIDE WHICH MUST NOW BE CONSTRUCTED. A BASIN MAP, STREET HYDRAULICS AND STORM DRAIN HYDRAULICS ANALYSIS WERE INCLUDED IN THIS SUBMITTAL TO ADDRESS THE EXTENSION OF HOLLY TO HOLBORCK ALL DEVELOPMENT ON HOLLY, INCLUDING THIS SITE.

D. GRADING PLAN FOR "MARK 35 HOLLY DEVELOPMENT" BY HMC, HYDROLOGY FILE C20/D62. THIS PLAN WAS APPROVED FOR THE UPSTREAM SITE IMMEDIATELY TO THE EAST. THE DRAINAGE CONCEPTS PRESENTED THEREIN ARE CONSISTENT WITH THOSE NOW PROPOSED.

THE PROPOSED CONSTRUCTION DRAINING DIRECTLY AND FREELY TO PERMANENT HOLLY AVENUE NE DRAINAGE IMPROVEMENTS AND PROPOSED AS DESCRIBED HEREIN IN ACCORDANCE WITH THE POLICIES AND REQUIREMENTS OF THE ABOVE LISTED DOCUMENTS, AND IS CONSISTENT WITH THE CONCEPTS PREVIOUSLY ESTABLISHED BY THE CITY AND AMAFCA FOR NDBA DEVELOPMENT.

IV. EXISTING CONDITIONS:

THE SITE IS CURRENTLY UNDEVELOPED. EXISTING SITE RUNOFF DRAINS TO HOLLY AVE NE TO EXISTING DOWNSTREAM PUBLIC STORM DRAIN FACILITIES THAT WERE CONSTRUCTED BY LOS VIGILS (REF. C). HOLLY AVE TO THE NORTH IS A PUBLIC STREET WITH HALF WIDTH (NORTH) PERMANENT PAVING IMPROVEMENTS. THE UPSTREAM SECTION OF HOLLY AVE IS ALSO AT A HALF WIDTH BUT WILL BE BUILT TO PERMANENT FULL WIDTH IMPROVEMENT WITH THIS SECTION. CO PASSED DEL NORTE TO THE SOUTH IS A FULLY DEVELOPED PUBLIC STREET WITH A DRAINAGE DITCH, PUBLIC STORM DRAIN AND PAVED ASPHALT TRAIL. OFFSITE FLOWS DO NOT ENTER THE SITE FROM THE PUBLIC STREETS TO THE NORTH AND SOUTH WHICH EXHIBIT PARALLEL TOPOGRAPHY. THE SITE TO THE EAST IS CURRENTLY TO BE REDEVELOPED AS A NEW MONTESSORI SCHOOL THAT WILL NOT FLOW INTO OUR SITE. THE DEVELOPED SITE TO THE WEST, ALBERTSON'S IS TOPOGRAPHICALLY LOWER AND INCAPABLE OF CONTRIBUTING OVERTS FLOWS.

V. DEVELOPED CONDITIONS

THE PROPOSED IMPROVEMENTS CONSIST OF THE CONSTRUCTION OF A NEW SENIOR LIVING CENTER WITH PAVED PARKING, UTILITY AND LANDSCAPING IMPROVEMENTS, AS DEMONSTRATED BY THE STREET HYDRAULIC, STORM DRAIN AND INLET CALCULATIONS AND ANALYSIS CONTAINED WITHIN THE DRAINAGE REPORTS FOR LOS VIGIL AND VINEYARD COURT ESTATES, THE HOLLY STORM DRAIN AND STREET IS DESIGNED TO ACCEPT THE FREE DISCHARGE OF FULLY DEVELOPED RUNOFF FROM THE PROPERTIES FRONTING ON HOLLY, INCLUDING THIS SITE. ALL PROPOSED IMPROVEMENTS ARE CONSISTENT WITH PREVIOUSLY APPROVED DEVELOPMENT PLANS FOR THIS SECTION OF HOLLY.

VI. FIRST FLUSH

THE AMOUNT OF WATER HARVESTING AREA ON SITE AND AREA TREATED WAS LIMITED DUE TO THE LARGE SIZE OF BUILDING, SITE LAYOUT AND THE REQUIRED GRADING ON SITE THAT MADE IT IMPRACTICAL TO CONVEY AND COLLECT ADDITIONAL SURFACE RUNOFF AT THE SINGLE WATER HARVESTING AREA ON SITE. THE PROPOSED LANDSCAPED WATER HARVESTING AREA AT THE NW CORNER OF THE SITE WILL CAPTURE AND TREAT FIRST FLUSH RUNOFF GENERATED BY THE PROPOSED IMPROVEMENTS WITHIN FIRST FLUSH BASIN A TO THE MAXIMUM EXTENT PRACTICABLE. FIRST FLUSH CALCULATION FOR THE DEVELOPED SITE SHOW THAT 2,440 CF OF WATER HARVESTING REQUIRED; THE DEVELOPED HARVESTING AREA CAPACITY IS 260 CF. A PAYMENT WILL BE MADE FOR THE 2180 CF DIFFERENCE.

VII. GRADING PLAN

THE GRADING PLAN SHOWS: 1) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1 FT INTERVALS FROM THE HMC TOPO SURVEY DATED 01/10/2017, 2) PROPOSED GRADES INDICATED BY FINISHED FLOOR ELEVATIONS, SPOT ELEVATIONS, AND CONTOURS AT 1 FT INTERVALS, 3) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS, 4) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS, AND 5) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

VIII. CALCULATIONS

THE CALCULATIONS REPRODUCED FROM THE APPROVED CONCEPTUAL GRADING PLAN AND WHICH APPEAR HEREON, ANALYZE BOTH THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY, 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THE LOMR AND APPROVED DRAINAGE REPORTS PREPARED BY THIS OFFICE TO SUPPORT THE RECENTLY CONSTRUCTED AMAFCA NDBA PROJECT AND FOR LOS VIGILS, VINEYARD COURT ESTATES, AND THE DESERT RIDGE OFFICE PARK PROJECT (SEE REFERENCES), THE PUBLIC STORM DRAIN IN HOLLY IS SIZED FOR FREE DISCHARGE OF FULLY DEVELOPED RUNOFF FROM THIS SITE.

VIII. CONCLUSION

1) THE PROPOSED SITE IMPROVEMENTS AND DRAINAGE CONCEPT ARE CONSISTENT WITH THE DEVELOPMENT CRITERIA ESTABLISHED BY PREVIOUSLY APPROVED PLANS FOR NDBA DEVELOPMENT AND THIS SPECIFIC PROJECT. 2) DEVELOPED RUNOFF FROM THIS SITE WILL DRAIN FREELY TO PERMANENT PUBLIC HOLLY PAVING AND STORM DRAINAGE IMPROVEMENTS, WHICH WERE CONSTRUCTED FOR LOS VIGILS AND VINEYARD COURT ESTATES. 3) THERE ARE NO DPM DESIGN VARIANCES, DRAINAGE EASEMENTS OR DRAINAGE COVENANTS ANTICIPATED AT THIS TIME.

CALCULATIONS

Table with columns: SITE CHARACTERISTICS, PRECIPITATION ZONE, TOTAL PROJECT AREA, EXISTING LAND TREATMENT, DEVELOPED LAND TREATMENT. Includes sub-sections for Hydrology and Comparison 100 Year Storm.

Table for Hydrology, Existing Condition 100 Year Storm, Basin A. Columns: Volume, Peak Discharge, Time of Concentration.

Table for Hydrology, Existing Condition 100 Year Storm, Basin B. Columns: Volume, Peak Discharge, Time of Concentration.

Table for Hydrology, Existing Condition 100 Year Storm, Basin C. Columns: Volume, Peak Discharge, Time of Concentration.

Table for Hydrology, Existing Condition 100 Year Storm, Basin A. Columns: Volume, Peak Discharge, Time of Concentration.

Table for Hydrology, Existing Condition 100 Year Storm, Basin B. Columns: Volume, Peak Discharge, Time of Concentration.

Table for Hydrology, Existing Condition 100 Year Storm, Basin C. Columns: Volume, Peak Discharge, Time of Concentration.

Table for Comparison 100 Year Storm, Basin A. Columns: Volume, Peak Discharge, Time of Concentration.

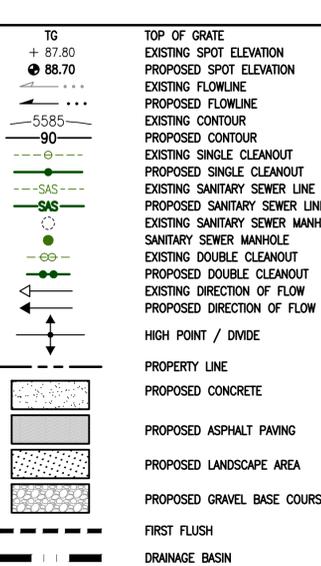
Table for Comparison 100 Year Storm, Basin B. Columns: Volume, Peak Discharge, Time of Concentration.

Table for Comparison 100 Year Storm, Basin C. Columns: Volume, Peak Discharge, Time of Concentration.

Table for First Flush Analysis, Total Site Volume, Proposed Retained Volume, Proposed Released Volume.

LEGEND

- AL ASPHALT CURB
AL LIGHT BRICK BUILDING COLUMN
BCC BURIED CONCRETE SIDEWALK BOTTOM
BTM BOTTOM
C&G CURB AND GUTTER
CF CONCRETE CRUSHER FINES
CM CONCRETE MASONRY UNIT WALL
CMU CONCRETE
CND CONCRETE
CRW CONCRETE RETAINING WALL
CSW CONCRETE SIDEWALK
DYS PAINTED DOUBLE YELLOW TRAFFIC STRIPE
E/PM ELECTRIC LINE BY PAINT MARK
EA EDGE OF ASPHALT
EM ELECTRIC METER
EO ELECTRIC OUTLET
FH FIRE HYDRANT
FL FLOWLINE
G/PM GAS LINE BY PAINT MARK
GATE LANDSCAPING GRAVEL
GATE STOP POST
GW GUY WIRE ANCHOR
GWAP GUY WIRE ANCHOR POLE
INV PIPE INVERT
IVB IRRIGATION VALVE BOX
KSW KEYSTONE WALL
LSD LANDSCAPING IMPROVEMENTS
LSD LANDSCAPING DIVIDER
LSD MEDIAN
ML MANHOLE
MLP METAL LIGHT POLE
OH(C) OVERHEAD COMMUNICATION (# OF LINES)
OH(E) OVERHEAD ELECTRIC (3 OF LINES)
OH(G) OVERHEAD GUY WIRE (# OF LINES)
PC PAVED
PVC POLYVINYL CHLORIDE PIPE
RCP REINFORCED CONCRETE PIPE
ROF ROOF OVERHANG
RRS LANDSCAPING RIVER ROCK
RTS LANDSCAPING RAILROAD TIES
SAS SANITARY SEWER
SAS/PM SANITARY SEWER BY PAINT MARK
SB STOP BAR
SD/PM STORM DRAIN INLET
SDM STORM DRAIN MANHOLE
SDP SERVICE DROP POLE
SILT SILT FENCE (IN POOR CONDITION)
SM SIGN
SLGT SLIDING GATE
SLP SYNTHETIC LIGHT POLE
STP STEEL POLE
STC SEPTIC TANK COVER
STS STONE SIGN ON STUCCO WALL
STU STUCCO WALL
SWS PAINTED SOLID WHITE TRAFFIC STRIPE
SYD PAINTED SOLID YELLOW TRAFFIC STRIPE
TA TOP OF ASPHALT
TC TOP OF CURB
TCO TOP OF CONCRETE
TOG TOP OF GRADE
TS TRAFFIC SIGN
TYP TOP OF WALL
TY TYPICAL
UPT POSSIBLE UNDERGROUND PROPANE TANK
UCV CONCRETE VALLEY GUTTER
W/PM WATER LINE BY PAINT MARK
WCR CONCRETE WHEELCHAIR RAMP
WF WOOD FLOOR WATER FAUCET
WLP WOOD LIGHT POLE
WMB WATER METER BOX
WPP WOOD POWER POLE
WVB WATER VALVE BOX
WXC WOOD EXTENDED CONCRETE CURB
TRU TRUNK DRAIN CURB



LEGAL DESCRIPTION
TRACT A, HOLLY AVENUE SENIOR LIVING FILED 11/29/2018 (2018-0148)

TEMPORARY BENCHMARK #1 (T.B.M.)
A #5 REBAR W/CAP STAMPED "HMC CONCRETE NMP5 11184" SET IN DIRT, NEAR THE NORTHWEST CORNER OF LOT 7 IN THE NORTHWEST PORTION OF THE SITE, AS SHOWN ON CG-101 AND CU-101. ELEVATION = 5578.05 FEET (NAVD 88)

TEMPORARY BENCHMARK #2 (T.B.M.)
A MAG NAIL W/WASHER SET IN THE TOP OF A CONCRETE CURB, IN THE NORTHEASTERN PORTION OF THE SITE, NOT SHOWN. ELEVATION = 5592.04 FEET (NAVD 88)

TEMPORARY BENCHMARK #3 (T.B.M.)
A MAG NAIL W/WASHER SET IN AN ASPHALT PATH, IN THE SOUTHERN PORTION OF THE SITE, AS SHOWN ON CG-101 AND CU-101. ELEVATION = 5586.17 FEET (NAVD 88)

WATER LINE CONSTRUCTION NOTES:

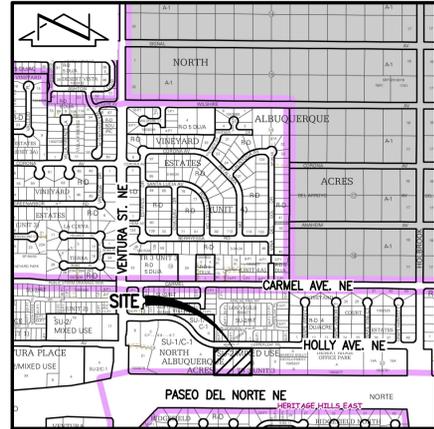
- 1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS...
2. PROPOSED WATER LINE MATERIALS SHALL BE PVC PIPE, MEETING AWWA C-900: DRB REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE MEETING AWWA C-150 REQUIREMENTS (6"-48"). 2" WATER SERVICE PIPE MATERIAL SHALL BE COPPER OR MUNICIPEX.
3. WATER LINE SHALL HAVE A MINIMUM COVER OF 3'-0" (FINISHED GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
4. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
5. JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE LINES.
6. FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE RESTRAINED EACH SIDE OF THE FITTING.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
9. NEW WATER LINE INSTALLATIONS SHALL INCLUDE INSULATED 12 GAUGE COPPER TRACER WIRE INSTALLED CONTINUOUSLY ALONG THE PIPE WITH WATER-PROOF SPLICED BOXES AT JUNCTIONS AND TEES. TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVES AND SERVICES. TRACER WIRE INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

SANITARY SEWER CONSTRUCTION NOTES:

- 1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS...
2. ALL SEWER PIPE SHALL BE PVC (SDR-35).
3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
6. WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.
7. ALL SANITARY SEWER MANHOLES SHALL BE 4' DIAMETER TYPE "C" MANHOLES PER CITY OF ALBUQUERQUE STD. DWG. 2101 UNLESS OTHERWISE NOTED.

GENERAL NOTES:

- 1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1987, PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION. (REVISED 12/06)
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT THE NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTS) OF EXISTING UTILITIES.
3. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE, REVIEW OF AVAILABLE AERIAL AND CITY OF ALBUQUERQUE RECORD DRAWINGS AND DISTRIBUTION MAPS AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP (2016.059.1 AND 2016.059.2). IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET NOS. 16DE200007 AND 17AP210205). UTILITY LINES THAT APPEAR ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY HEREON. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
4. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
7. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
8. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY. THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
9. CONTRACTOR SHALL NOTIFY THE SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING ANY WORK. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE SURVEYOR AND SHALL NOTIFY THE SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED. REPLACEMENT SHALL BE DONE ONLY BY THE SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED.
10. IF THE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK, AND/OR PAVING IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. WHEN ABUTTING NEW PAVEMENT TO EXISTING, THE CONTRACTOR SHALL CUT BACK THE EXISTING PAVING TO A STRAIGHT LINE IN ORDER TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. CURB AND GUTTER AND/OR PAVEMENT SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT AND WHICH USER IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
11. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL (CONTAMINATED OR OTHERWISE), ASPHALTIC PAVING, CONCRETE PAVING, ETC. SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
12. A BORROW SITE FOR IMPORT MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A BORROW SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTON. THE CONTRACTOR SHALL SELECT AND USE METHODS WHICH SHALL NOT BE INJURIOUS OR DAMAGING TO EXISTING FACILITIES AND STRUCTURES WHICH SURROUND THE WORK AREAS.
14. THE CONTRACTOR SHALL CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS IN ORDER TO PRESERVE THE EXISTING IMPROVEMENTS AND SO AS NOT TO INTERFERE WITH THE OPERATIONS OF THE EXISTING FACILITIES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND/OR INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES OR IMPROVEMENTS. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
17. ALL DIMENSIONS AND RADIUS OF CURB, CURB RETURNS, AND WALLS ARE SHOWN TO THE FACE OF CURB AND/OR WALL.
18. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERFERENCES IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
19. WHEN APPLICABLE, CONTRACTOR SHALL SECURE, ON BEHALF OF THE OWNER AND OPERATORS, "TPOISOL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
20. ALL FILL SHALL BE CLEAN, FREE FROM VEGETATION, DEBRIS, AND OTHER DELETERIOUS MATERIALS, AND SHALL NOT BE CONTAMINATED WITH HYDROCARBONS OR OTHER CHEMICAL CONTAMINANTS.
21. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% ASTM D-1557 UNLESS A GREATER COMPACTON REQUIREMENT IS OTHERWISE SPECIFIED.
22. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P-EXCAVATIONS.
23. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT AND/OR STRUCTURAL FOR EARTHWORK REQUIREMENTS, AS APPLICABLE.
24. CONTRACTOR SHALL TEST SUBGRADE R-V VALUE PRIOR TO CONSTRUCTION. IN THE EVENT THE R-V VALUE IS LESS THAN 50, CONTRACTOR SHALL REMOVE 2 FT. OF SUBGRADE MATERIAL AND IMPORT SUITABLE MATERIAL WITH R-V VALUE 50 OR GREATER.



VICINITY MAP C-20 SCALE: 1" = 500'



F.I.R.M. 141 OF 825 SCALE: 1" = 500'

INDEX OF DRAWINGS

Table with columns: SHEET, DESCRIPTION, REVISIONS. Lists drawings C100 through CU501 including Drainage Plan, Calculations, Vicinity Map, Legend, and Index of Drawings.

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7601 JEFFERSON NE, SUITE 100 ALBUQUERQUE, NM 87109

505.761.9700 / DPSDESIGN.ORG

ARCHITECT

ENGINEER

PROFESSIONAL ENGINEER

13676

02/15/2019

PROJECT

AMARAN SENIOR LIVING

9100 HOLLY AVENUE NE ALBUQUERQUE, NM 87122

PERMIT SET

REVISIONS

DRAWN BY J.Y.R.

REVIEWED BY G.M.

DATE 02.15.2019

PROJECT NO. 18-0038

DRAWING NAME

DRAINAGE PLAN, CALCULATIONS, VICINITY MAP, LEGEND AND INDEX OF DRAWINGS

SHEET NO.

C100

OF



AMARAN SENIOR LIVING
9100 HOLLY AVENUE NE
ALBUQUERQUE, NM 87122

**PERMIT
SET**

REVISIONS

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- △
- △
- △

DRAWN BY J.Y.R.

REVIEWED BY G.M.

DATE 02.15.2019

PROJECT NO. 18-0038

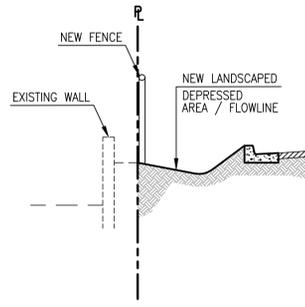
DRAWING NAME

**GRADING AND
DRAINAGE PLAN**

SHEET NO.

CG101

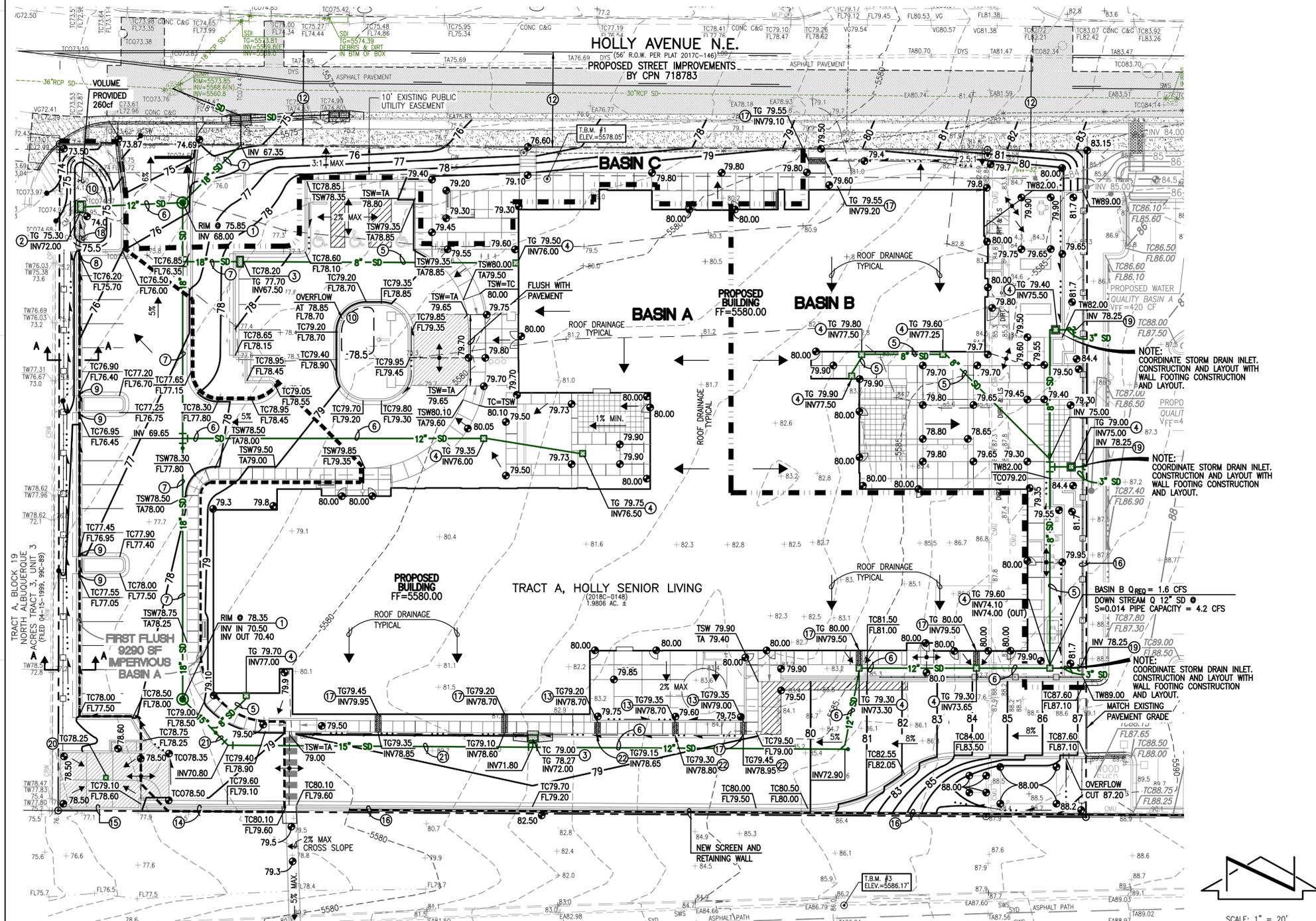
OF



SECTION A-A

SCALE: 1" = 5'

FIRST FLUSH POND GRATE CAPACITY:
HEC-22, EQUATION 4-27; $Q = CA(2d)^{0.5}$
 $C = 0.67, G=32.2, D=DEPTH (FT), A = CLEAR OPENING AREA$
CITY GRATE AREA = 4.56 SF (CLEAR)
ASSUME 50% CLOGGED; NET AREA = 2.28 SF;
USE 2.28
 $D = 0.2 FT$
 $Q_{CAP} = 5.48 CFS$
 $Q_{REQ} = 1.1 CFS$



CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ON-SITE SURFACE EVIDENCE, REVIEW OF AVAILABLE ABOVE-GROUND AND CITY OF ALBUQUERQUE RECORD DRAWINGS AND DISTRIBUTION MAPS AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP (2016.059.1 AND 2016.059.2). IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET NOS. 16DE200007 AND 17AP210205). UTILITY LINES THAT APPEAR ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF AN SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE. THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.
7. THE GRADES INDICATED ON THIS PLAN ARE FINISHED GRADES UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING SUBGRADE AT ELEVATIONS THAT SHALL ACCOMMODATE PROPOSED IMPROVEMENTS AS INDICATED ON THE PLANS INCLUDING, BUT NOT LIMITED TO, SURFACE DRAINAGE STRUCTURES, PAVING AND LANDSCAPING SURFACING.
8. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR EARTHWORK REQUIREMENTS, AS APPLICABLE.

KEYED NOTES:

- 1 CONSTRUCT 4" DIA. STORM DRAIN MANHOLE
- 2 CONSTRUCT SINGLE 'D' STORM DRAIN INLET
- 3 CONSTRUCT SINGLE TYPE 'C' STORM DRAIN INLET
- 4 CONSTRUCT 24"x24" STORM DRAIN INLET
- 5 INSTALL 8" HDPE STORM DRAIN
- 6 INSTALL 12" HDPE STORM DRAIN
- 7 INSTALL 18" HDPE STORM DRAIN
- 8 NEW 2'-0" CURB CUT PER STANDARD SECTION, CP501
- 9 CONSTRUCT 16" WIDE CONCRETE RUNDOWN
- 10 DEPRESSED LANDSCAPING FOR WATER QUALITY
- 11 NEW REFUSE DRAIN. SEE CONCEPTUAL UTILITY PLAN
- 12 HOLLY IMPROVEMENTS TO BE CONSTRUCTED BY WORK ORDER
- 13 NEW 4" WALL OPENING. ALIGN OPENING WITH SIDEWALK CULVERT
- 14 NEW SCREEN WALL
- 15 NEW REFUSE WALL
- 16 NEW RETAINING WALL
- 17 INSTALL SIDEWALK CULVERT. INVERT TO MATCH ROOF DRAIN DOWN SPOUT OR WALL OPENING.
- 18 NEW COBBLES FOR SLOPE PROTECTION
- 19 EXTEND 3" STORM DRAIN LINE FROM HYDRODUCT COIL SYSTEM TO INLET
- 20 INSTALL 12" HEAVY DUTY DRAIN, SEE SHEET CU101 FOR CONTINUATION
- 21 INSTALL 15" HDPE STORM DRAIN
- 22 INSTALL NEW SIDEWALK CULVERT WITH DECORATIVE GRATED LID. ALIGN WITH WALL OPENING.

NOTE:

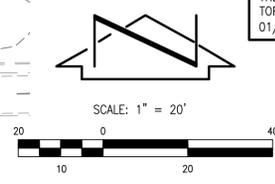
THIS IS NOT A BOUNDARY SURVEY OR RIGHT-OF-WAY SURVEY. APPARENT PROPERTY CORNERS, RIGHT-OF-WAY LINES OR PROPERTY LINES AS SHOWN ARE DERIVED FROM THE PLAT OF RECORD (2018C-0148, #2018103144, RECORDED 11-29-2018) PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 11/06/2018 (2016.059.5) AND IS NOT GUARANTEED OR TO BE RELIED ON FOR THE ESTABLISHMENT OF PROPERTY LINES.

THE TOPOGRAPHIC AND UTILITY INFORMATION DEPICTED HEREON IS BASED UPON THE EXISTING TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY THIS FIRM, NMPS NO. 11184, DATED 01/10/2017 (2016.059.1).

2018.027.1

**HIGH
MESA Consulting Group**

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com



**DEKKER
PERICH
SABATINI**

7601 JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109

505.761.9700 / DPSDESIGN.ORG

ARCHITECT

ENGINEER



02/15/2019

PROJECT

AMARAN SENIOR LIVING
9100 HOLLY AVENUE NE
ALBUQUERQUE, NM 87122

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REVIEWED BY G.M.

DATE 02.15.2019

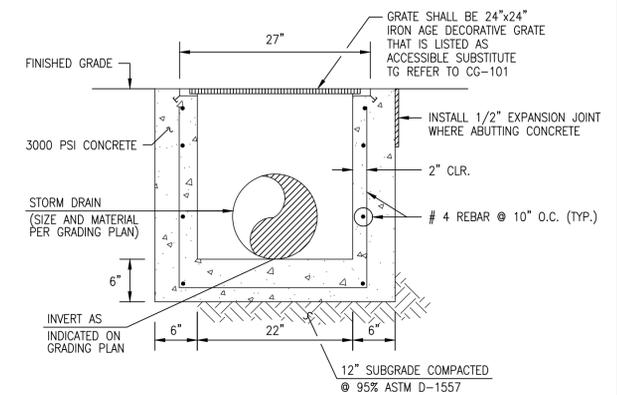
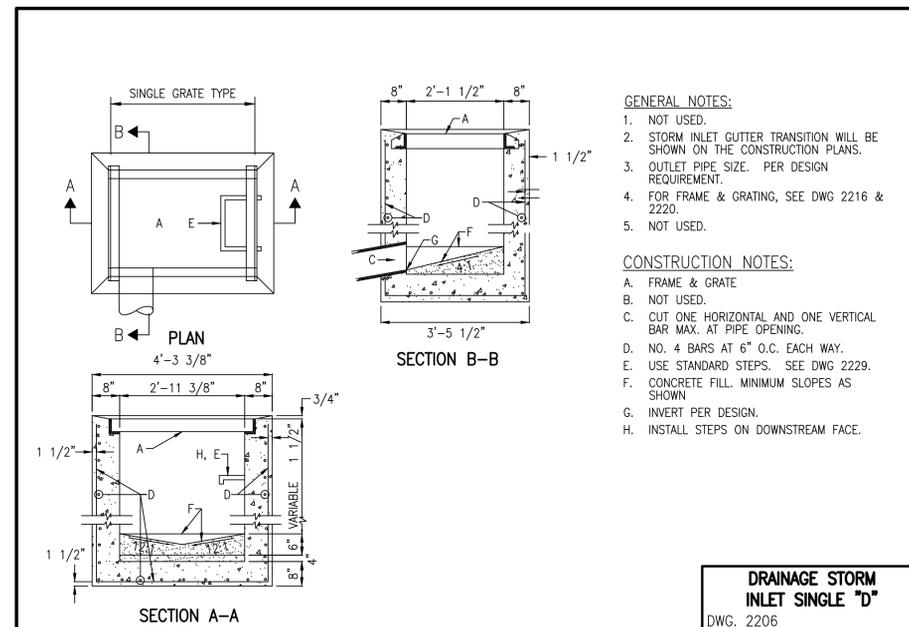
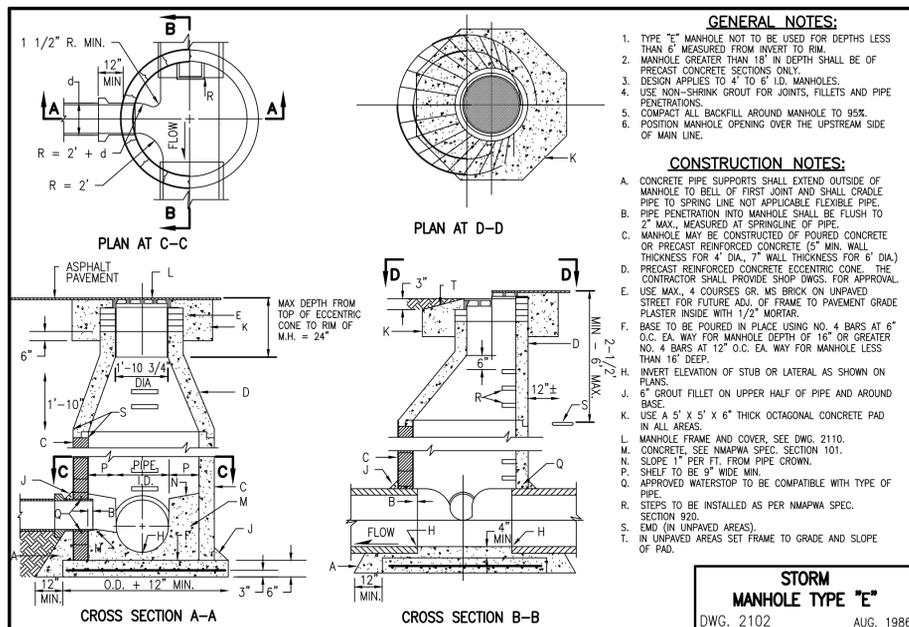
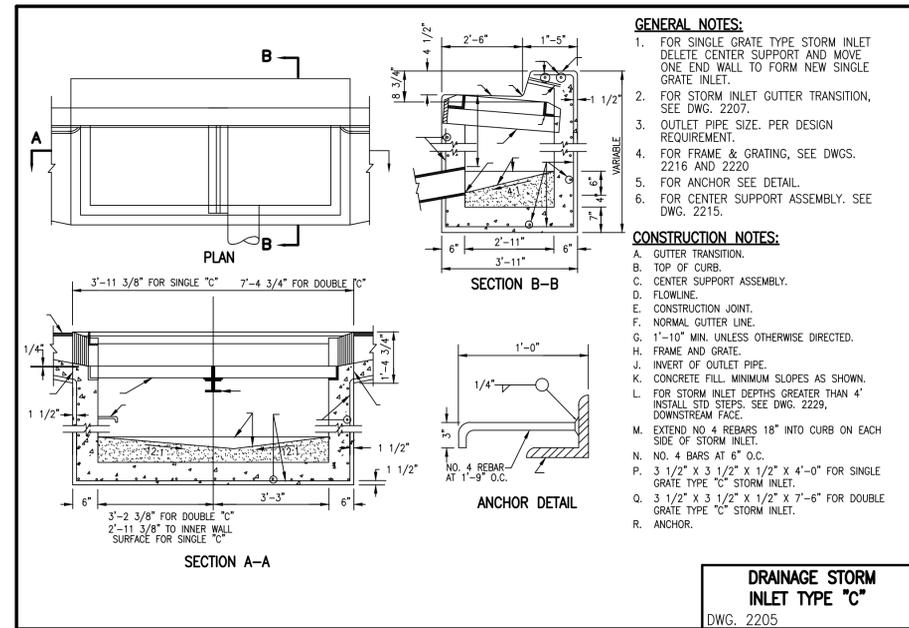
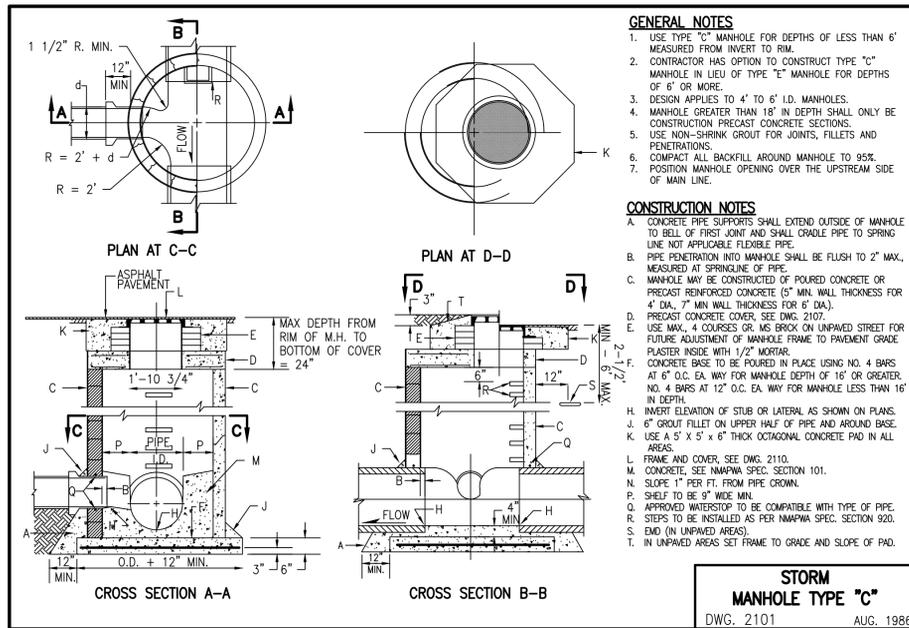
PROJECT NO. 18-0038

DRAWING NAME

**GRADING
AND DRAINAGE
SECTIONS AND
DETAILS**

SHEET NO.

CG501
OF



2018.027.1

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SABATINI**

7601 JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109

505.761.9700 / DPSDESIGN.ORG

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PROJECT

AMARAN SENIOR LIVING
9100 HOLLY AVENUE NE
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SET**

REVISIONS



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REVIEWED BY G.M.

DATE 02.15.2019

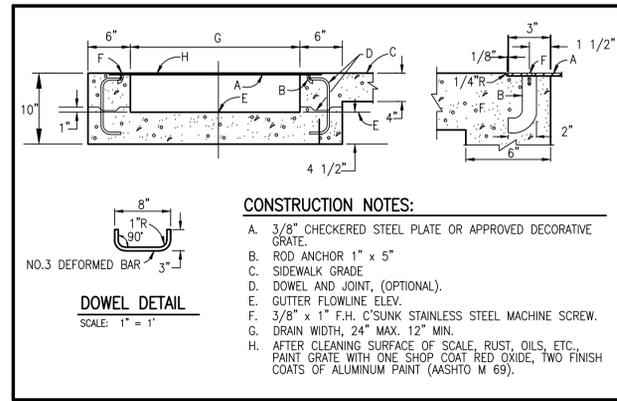
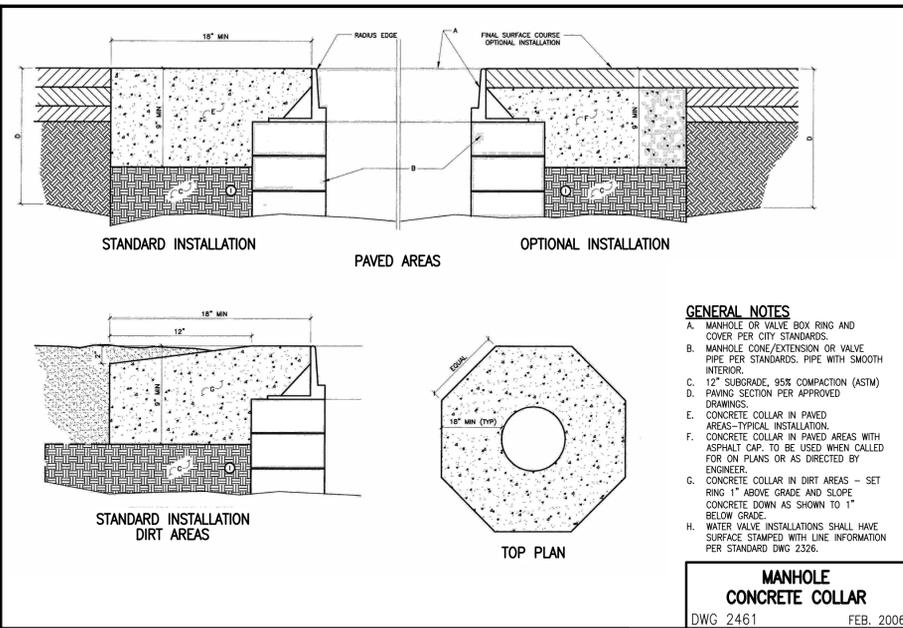
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DRAWING NAME

**GRADING
AND DRAINAGE
SECTIONS AND
DETAILS**

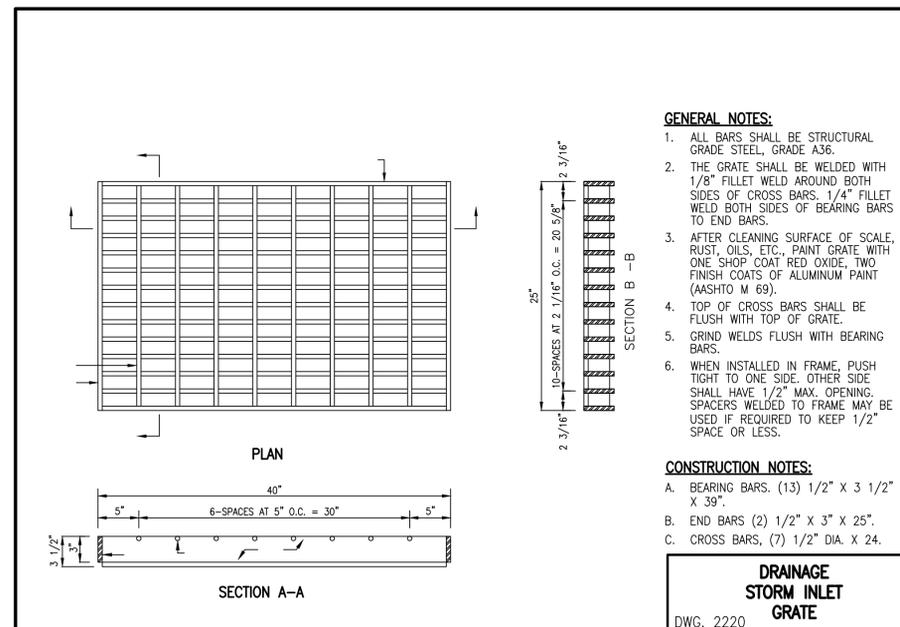
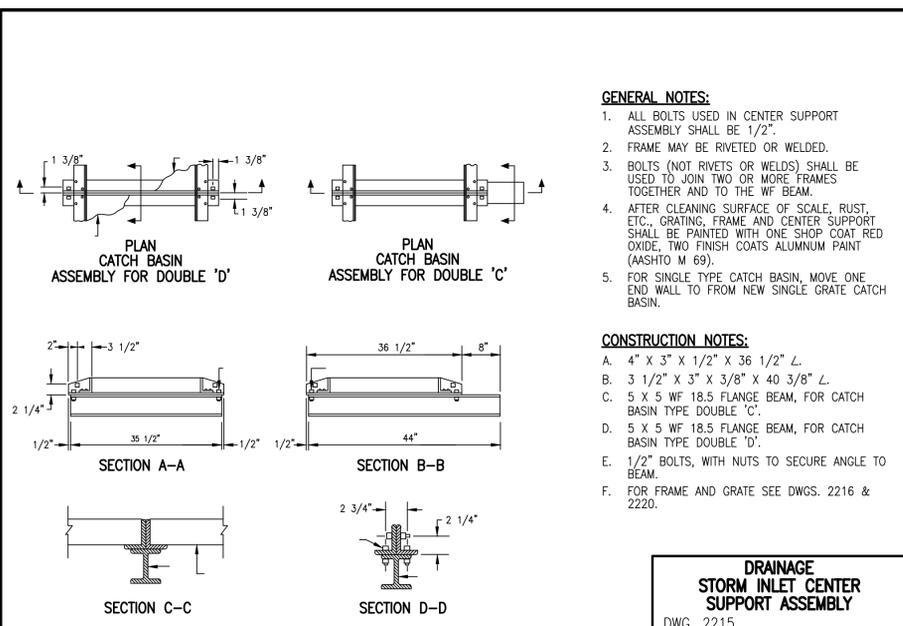
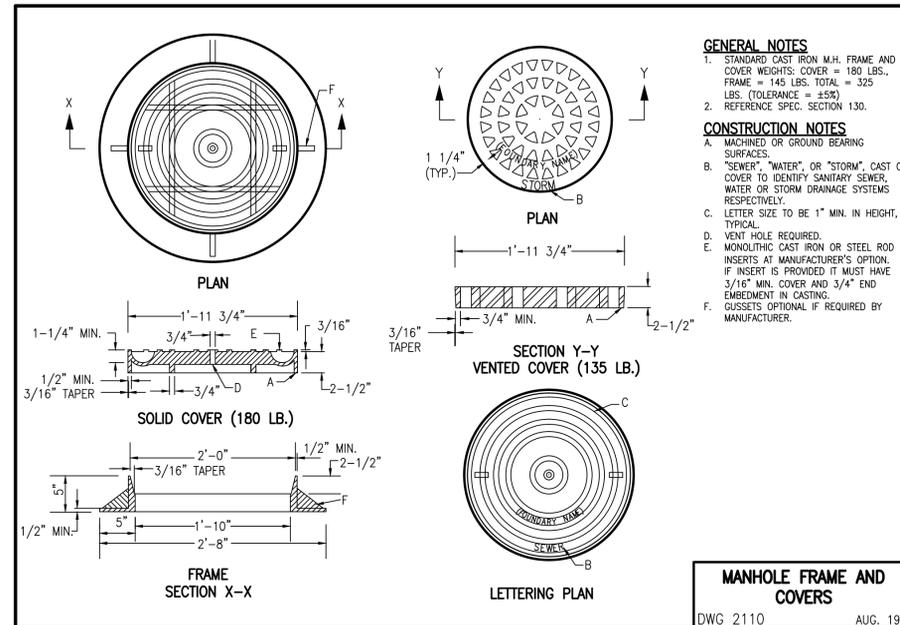
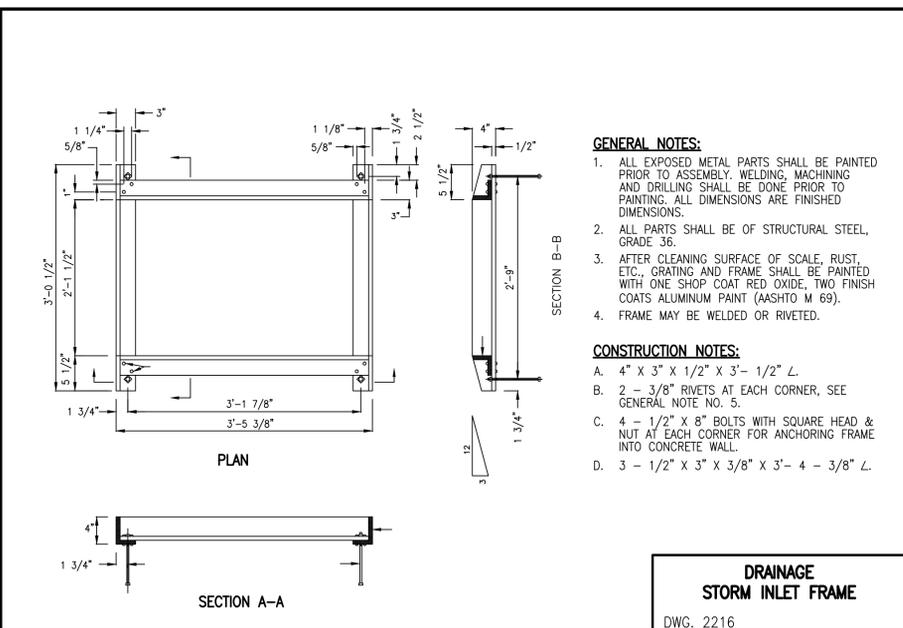
SHEET NO.

CG502
OF



SIDEWALK CULVERT SECTION

SCALE: 1" = 2"



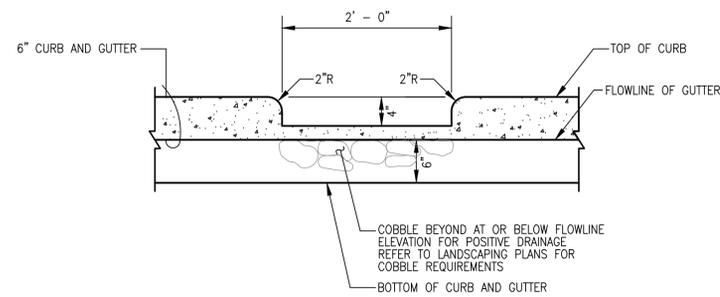
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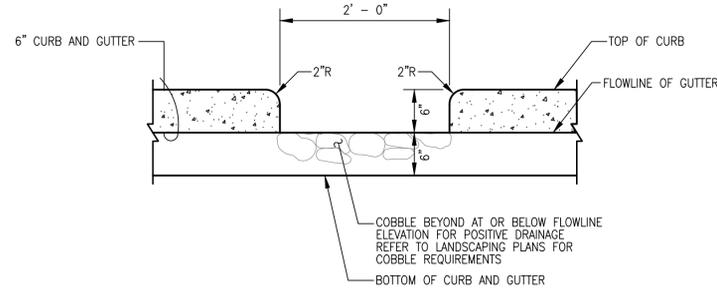


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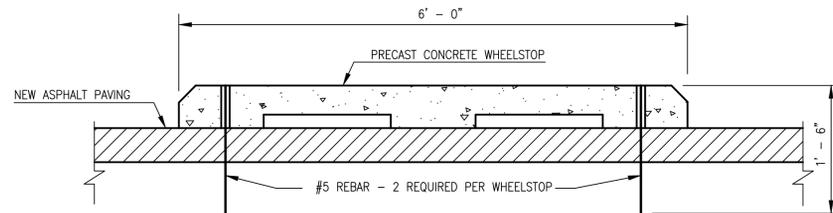
CURB OVERFLOW SECTION

SCALE: 1" = 1'-0"



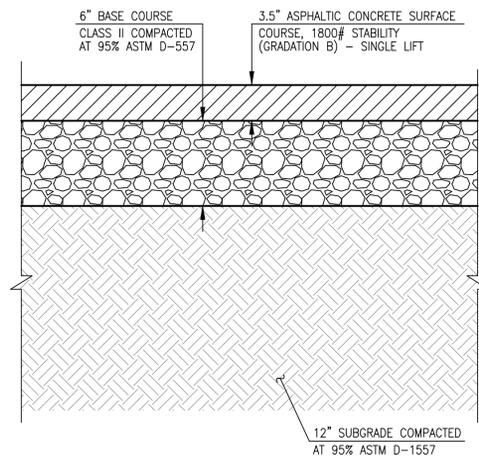
CURB CUT SECTION

SCALE: 1" = 1'-0"



WHEELSTOP SECTION

SCALE: 1" = 1'-0"



**TYPICAL 3.5" ASPHALT HEAVY DUTY
PAVING SECTION**

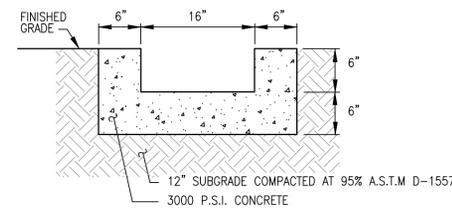
SCALE: 1" = 5' (VEHICULAR TRAFFIC AREAS)

SECTION NOTES:

- CONTRACTOR SHALL TEST SUBGRADE R-VALUE PRIOR TO CONSTRUCTION. IN THE EVENT THE R-VALUE IS LESS THAN 50, CONTRACTOR SHALL REMOVE 2 FT. OF SUBGRADE MATERIAL AND IMPORT SUITABLE MATERIAL WITH R-VALUE 50 OR GREATER.

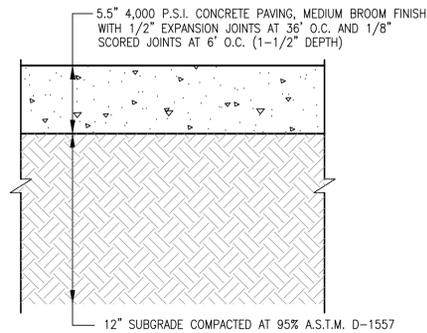
NOTE:

SECTION FROM GEOTECHNICAL REPORT DATED OCTOBER 14, 2018 BY TERRACON NMPE 12132



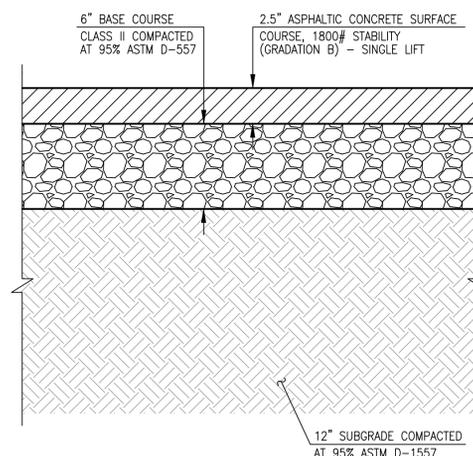
TYPICAL RUNDOWN SECTION

SCALE: 1" = 1'-0"



TYPICAL RE-INFORCED CONCRETE PAVEMENT SECTION

SCALE: 1" = 6"



**TYPICAL 2.5" ASPHALT LIGHT DUTY
PAVING SECTION**

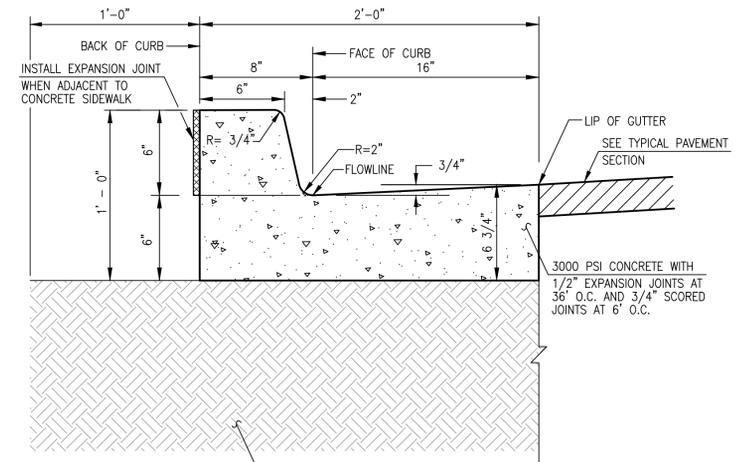
SCALE: 1" = 5' (VEHICULAR TRAFFIC AREAS)

SECTION NOTES:

- CONTRACTOR SHALL TEST SUBGRADE R-VALUE PRIOR TO CONSTRUCTION. IN THE EVENT THE R-VALUE IS LESS THAN 50, CONTRACTOR SHALL REMOVE 2 FT. OF SUBGRADE MATERIAL AND IMPORT SUITABLE MATERIAL WITH R-VALUE 50 OR GREATER.

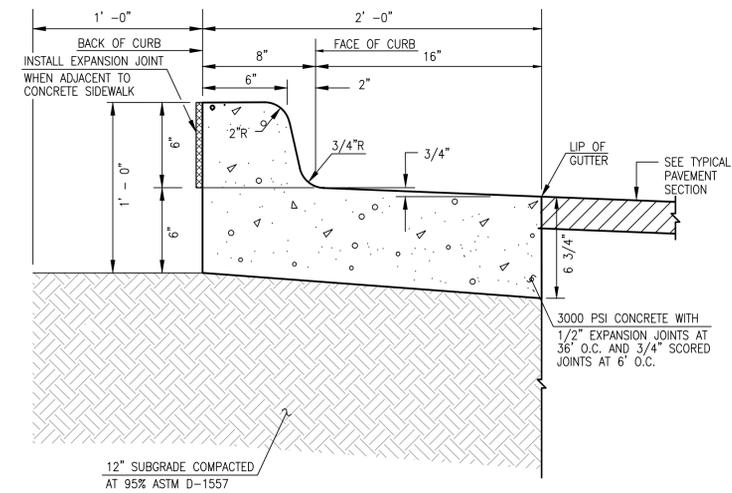
NOTE:

SECTION FROM GEOTECHNICAL REPORT DATED OCTOBER 14, 2018 BY TERRACON NMPE 12132



TYPICAL SIX-INCH CURB & GUTTER

SCALE: 1" = 0'-6"



TYPICAL SIX-INCH DEPRESSED CURB AND GUTTER

SCALE: 1" = 0'-6"

NOTE: USE THIS SECTION FOR CASES WHERE PAVING SLOPES AWAY FROM FACE OF CURB

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6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com