

# CITY OF ALBUQUERQUE

Planning Department  
Brennon Williams, Director



Mayor Timothy M. Keller

February 9, 2021

Michael Balaskovits, PE  
Bohannon Huston, Inc.  
7500 Jefferson St NE  
Albuquerque, NM 87109

**RE: ASRC 6th Field  
1801 Arroyo Vista Blvd. NW  
Grading and Drainage Plan  
Engineer's Stamp Date: 01/25/21  
Hydrology File: J08D002A**

Dear Mr. Balaskovits:

PO Box 1293

Based upon the information provided in your submittal received 01/27/2021, the Grading & Drainage Plan is approved for Building Permit, Grading Permit and for action by the DRB on Site Plan for Building Permit.

Albuquerque

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

NM 87103

www.cabq.gov

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, [jhughes@cabq.gov](mailto:jhughes@cabq.gov), 924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

Renée C. Brissette, P.E. CFM  
Senior Engineer, Hydrology  
Planning Department



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Applicant:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**TYPE OF SUBMITTAL:** \_\_\_\_\_ PLAT (\_\_\_\_# OF LOTS) \_\_\_\_\_ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

**IS THIS A RESUBMITTAL?:** \_\_\_\_\_ Yes \_\_\_\_\_ No

**DEPARTMENT:** \_\_\_\_\_ TRAFFIC/ TRANSPORTATION \_\_\_\_\_ HYDROLOGY/ DRAINAGE

Check all that Apply:

### TYPE OF SUBMITTAL:

- \_\_\_\_\_ ENGINEER/ARCHITECT CERTIFICATION
- \_\_\_\_\_ PAD CERTIFICATION
- \_\_\_\_\_ CONCEPTUAL G & D PLAN
- \_\_\_\_\_ GRADING PLAN
- \_\_\_\_\_ DRAINAGE MASTER PLAN
- \_\_\_\_\_ DRAINAGE REPORT
- \_\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- \_\_\_\_\_ ELEVATION CERTIFICATE
- \_\_\_\_\_ CLOMR/LOMR
- \_\_\_\_\_ TRAFFIC CIRCULATION LAYOUT (TCL)
- \_\_\_\_\_ TRAFFIC IMPACT STUDY (TIS)
- \_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_
- \_\_\_\_\_ PRE-DESIGN MEETING?

### TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- \_\_\_\_\_ BUILDING PERMIT APPROVAL
- \_\_\_\_\_ CERTIFICATE OF OCCUPANCY
- \_\_\_\_\_ PRELIMINARY PLAT APPROVAL
- \_\_\_\_\_ SITE PLAN FOR SUB'D APPROVAL
- \_\_\_\_\_ SITE PLAN FOR BLDG. PERMIT APPROVAL
- \_\_\_\_\_ FINAL PLAT APPROVAL
- \_\_\_\_\_ SIA/ RELEASE OF FINANCIAL GUARANTEE
- \_\_\_\_\_ FOUNDATION PERMIT APPROVAL
- \_\_\_\_\_ GRADING PERMIT APPROVAL
- \_\_\_\_\_ SO-19 APPROVAL
- \_\_\_\_\_ PAVING PERMIT APPROVAL
- \_\_\_\_\_ GRADING/ PAD CERTIFICATION
- \_\_\_\_\_ WORK ORDER APPROVAL
- \_\_\_\_\_ CLOMR/LOMR
- \_\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT
- \_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_

**DATE SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_

January 25, 2020

Courtyard I  
7500 Jefferson St. NE  
Albuquerque, NM  
87109-4335

[www.bhinc.com](http://www.bhinc.com)

voice: 505.823.1000  
facsimile: 505.798.7988  
toll free: 800.877.5332

Renée C. Brissette, PE  
City of Albuquerque  
Planning Department  
600 2<sup>nd</sup> St. NW  
Albuquerque, NM 87103

Re: Albuquerque Regional Sports Complex 6<sup>th</sup> Field (City Old Hydro Project # J08/D002A),  
Hydrology Submittal for Grading Permit Approval, Building Permit Approval and Site Plan  
Approval

Dear Renee,

Enclosed for Hydrology Review and Approval are the following for the above-mentioned project:

- Drainage Management Plan
- West I-40 DMP Exhibit
- Grading Plan

The site is comprised of approximately 16 ac of Parcel C-3-A, to the South and West of the first phase of the ARSC, and east to 118<sup>th</sup> St. The onsite runoff will be managed by storm drain inlets and pipes and field subsurface drainage, that ultimately discharges to Pond 5S. The site has free controlled discharge to this facility per the West I-40 DMP (Basin UD.2), and thus no onsite detention requirements. Offsite existing flows from the west of 118<sup>th</sup> St impacting the site, will be conveyed in a sedimentation basin discharging into the proposed storm drainage network. The site is required to bypass ultimate developed flows from the portion of Basin UD.2 upstream to the site to Pond 5S. The storm drainage system is therefore sized to convey onsite and offsite ultimate developed flows.

With this application we are requesting Hydrology approval for Grading Permit, Building Permit if necessary and DRB Site Plan approval. Please feel free to contact me at (505) 823-1000 with questions or comments.

Sincerely,



Michael J. Balaskovits, PE, LEED AP  
Senior Vice President  
Community Development & Planning

MJB/jcm

Engineering ▲

Spatial Data ▲

Advanced Technologies ▲



DRAINAGE NARRATIVE

INTRODUCTION:

THE ARSC 6<sup>TH</sup> FIELD DRAINAGE MANAGEMENT PLAN (DMP) IS PRESENTED IN SUPPORT OF HYDROLOGY APPROVAL FOR GRADING PERMIT, BUILDING PERMIT AND SITE PLAN AT DRB APPROVAL. THE SITE IS APPROXIMATELY 16 ACRES LOCATED SOUTH AND WEST OF THE FIRST PHASE OF THE ALBUQUERQUE REGIONAL SPORTS COMPLEX (ARSC), AT THE SOUTHEAST CORNER OF 118<sup>TH</sup> ST NW AND ARROYO VISTA BLVD. AND EAST OF 118<sup>TH</sup> ST. THE SITE IS NOT LOCATED WITHIN A FEMA FLOOD ZONE .

METHODOLOGY:

THE COA DEVELOPMENT PROCESS MANUAL, PART 6-2(A) WAS USED TO ANALYZE THE SITE'S PROPOSED DRAINAGE. THE ONSITE STORM DRAINS WERE SIZED BASED ON MANNING'S EQUATION. THE ONSITE INLETS WERE SIZED WITH THE INLETS IN SUMP CONDITION (UNLESS OTHERWISE SPECIFIED) AND USING MANUFACTURER PROVIDED NOMOGRAPHS.

PROPOSED CONDITIONS:

THE SITE IS INCLUDED WITHIN BASIN UD.2 OF THE WEST I-40 DMP, 2011 UPDATE. THIS BASIN WAS ANALYZED UNDER DEVELOPED CONDITIONS WITH 50% LAND TREATMENT D AS NOTED IN THE WEST I-40 DPM AHYMO REPORT. TO ALLOW FOR THE PORTION OF BASIN UD.2 RUNOFF UPSTREAM TO THE SITE TO DISCHARGE INTO POND 5S, WHICH SERVES AS DETENTION AND WATER QUALITY FACILITY. A STORM DRAINAGE SYSTEM WILL BE CONSTRUCTED. THIS NETWORK IS DESIGNED FOR THE ULTIMATE DEVELOPED CONDITIONS FLOWS IN ACCORDANCE WITH THE WEST I-40 DMP.

OFFSITE FLOWS IMPACT THE SITE FROM THE WEST AND NORTH. SWALES AND BERMS WILL BE CONSTRUCTED ALONG THE BOUNDARY WITH 118<sup>TH</sup> ST RW TO SLOW DOWN AND DIVERT THE NATURAL RUNOFF TO A DISILTATION BASIN NEAR THE NORTHWEST CORNER OF THE SITE. THIS BASIN WILL INCLUDE A DBL TYPE D INLET TO CONVEY OFFSITE FLOWS. THIS STRUCTURE WILL SERVE AS THE FUTURE OUTFALL FOR THE TRIBUTARY AREA OF 118<sup>TH</sup> ST AND PARCEL C-3-B WITHIN BASIN UD.2A PER WEST I-40 DMP. A SECOND DISILTATION BASIN WILL BE CONSTRUCTED TO CONVEY OFFSITE FLOWS AND RUNOFF FROM THE FIELD TO THE NORTH.

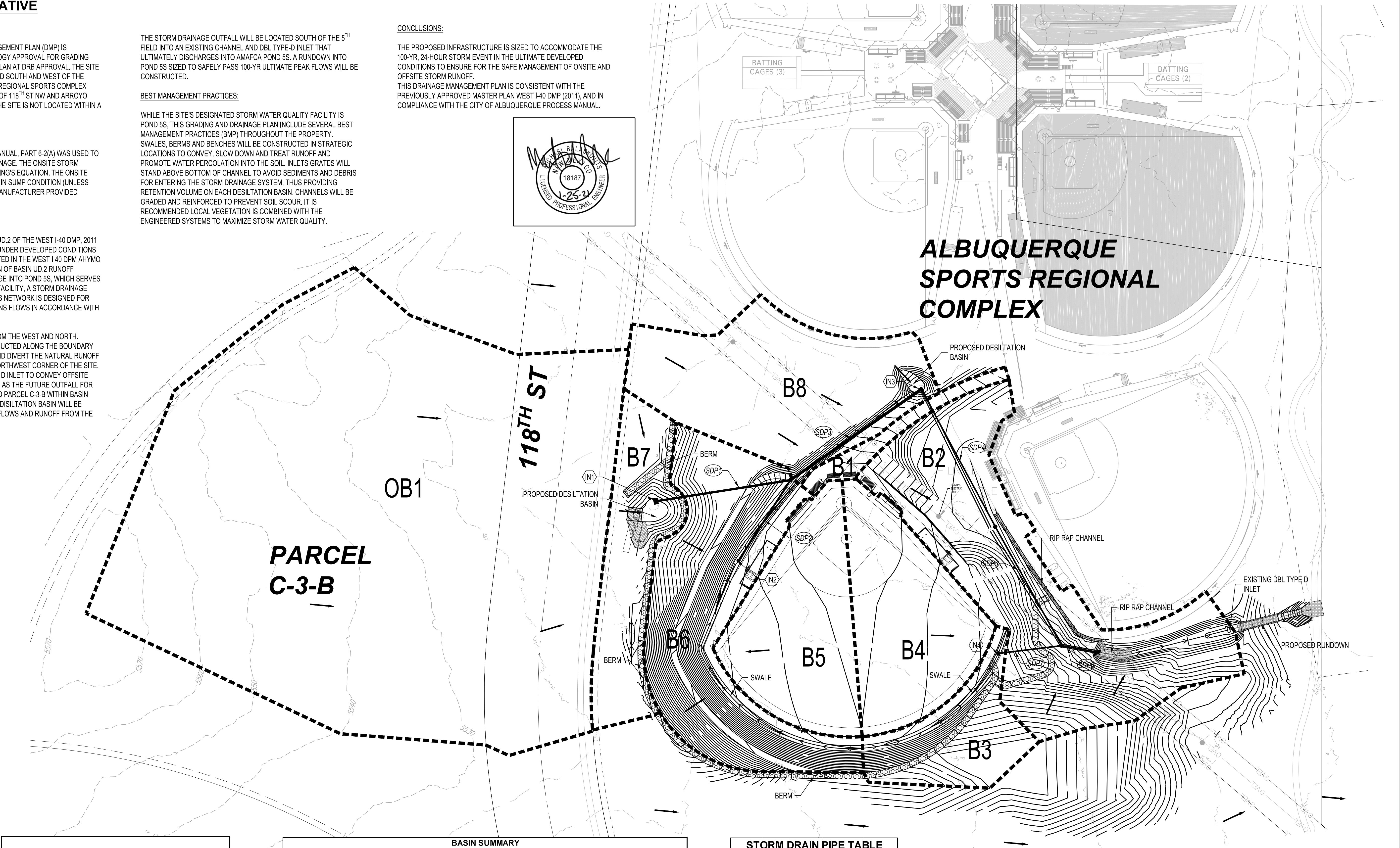
THE STORM DRAINAGE OUTFALL WILL BE LOCATED SOUTH OF THE 5<sup>TH</sup> FIELD INTO AN EXISTING CHANNEL AND DBL TYPE-D INLET THAT ULTIMATELY DISCHARGES INTO AMAFCA POND 5S. A RUNDOWN INTO POND 5S SIZED TO SAFELY PASS 100-YR ULTIMATE PEAK FLOWS WILL BE CONSTRUCTED.

BEST MANAGEMENT PRACTICES:

WHILE THE SITE'S DESIGNATED STORM WATER QUALITY FACILITY IS POND 5S, THIS GRADING AND DRAINAGE PLAN INCLUDE SEVERAL BEST MANAGEMENT PRACTICES (BMP) THROUGHOUT THE PROPERTY. SWALES, BERMS AND BENCHES WILL BE CONSTRUCTED IN STRATEGIC LOCATIONS TO CONVEY, SLOW DOWN AND TREAT RUNOFF AND PROMOTE WATER PERCOLATION INTO THE SOIL. INLETS GRATES WILL STAND ABOVE BOTTOM OF CHANNEL TO AVOID SEDIMENTS AND DEBRIS FOR ENTERING THE STORM DRAINAGE SYSTEM, THUS PROVIDING RETENTION VOLUME ON EACH DESILTATION BASIN. CHANNELS WILL BE GRADED AND REINFORCED TO PREVENT SOIL SCOUR. IT IS RECOMMENDED LOCAL VEGETATION IS COMBINED WITH THE ENGINEERED SYSTEMS TO MAXIMIZE STORM WATER QUALITY.

CONCLUSIONS:

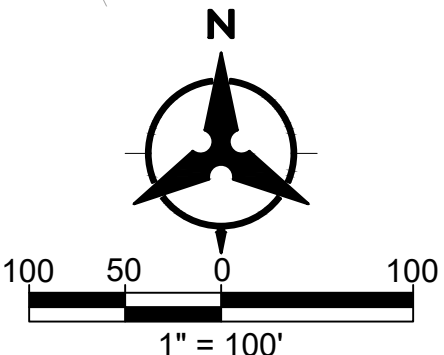
THE PROPOSED INFRASTRUCTURE IS SIZED TO ACCOMMODATE THE 100-YR, 24-HOUR STORM EVENT IN THE ULTIMATE DEVELOPED CONDITIONS TO ENSURE FOR THE SAFE MANAGEMENT OF ONSITE AND OFFSITE STORM RUNOFF. THIS DRAINAGE MANAGEMENT PLAN IS CONSISTENT WITH THE PREVIOUSLY APPROVED MASTER PLAN WEST I-40 DMP (2011), AND IN COMPLIANCE WITH THE CITY OF ALBUQUERQUE PROCESS MANUAL.



| INLET TABLE |                          |             |               |
|-------------|--------------------------|-------------|---------------|
| Inlet #     | Inlet Type               | Actual Flow | Avail Head ft |
| IN1         | 1-DBL COA TYPE D (SUMP)  | 22.66       | 3.00          |
| IN2         | 1 - 24" NYLOPLAST (SUMP) | 10.09       | 1.50          |
| IN3         | 1 - 24" NYLOPLAST (SUMP) | 5.42        | 3.00          |
| IN4         | 1 - 24" NYLOPLAST (SUMP) | 6.64        | 1.00          |

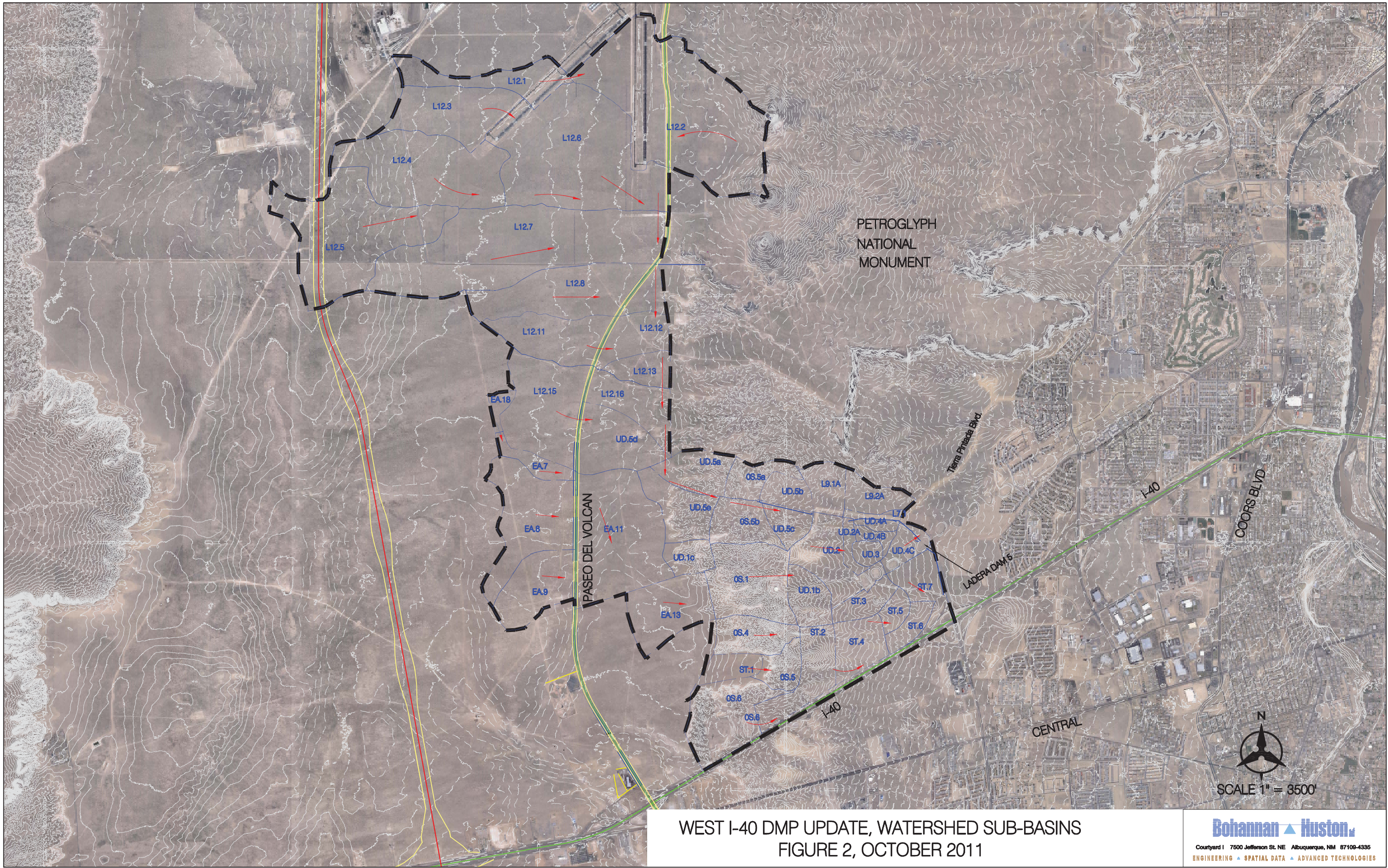
| BASIN SUMMARY |           |                  |        |        |        |                       |                        |                       |
|---------------|-----------|------------------|--------|--------|--------|-----------------------|------------------------|-----------------------|
| BASIN I.D.    | AREA (AC) | % LAND TREATMENT |        |        |        | DISCHARGE (CFS) 10 yr | DISCHARGE (CFS) 100 yr | VOLUME (AC-FT) 100 yr |
| B1            | 0.24      | 0.00%            | 0.00%  | 20.00% | 80.00% | 0.6                   | 0.9                    | 0.04                  |
| B2            | 3.00      | 0.00%            | 0.00%  | 95.00% | 5.00%  | 4.5                   | 8.8                    | 0.25                  |
| B3            | 0.85      | 0.00%            | 30.00% | 70.00% | 0.00%  | 1.1                   | 2.3                    | 0.06                  |
| B4            | 1.51      | 0.00%            | 0.00%  | 98.00% | 2.00%  | 2.2                   | 4.4                    | 0.12                  |
| B5            | 1.51      | 0.00%            | 0.00%  | 98.00% | 2.00%  | 2.2                   | 4.4                    | 0.12                  |
| B6            | 2.26      | 0.00%            | 50.00% | 50.00% | 0.00%  | 2.5                   | 5.7                    | 0.16                  |
| B7            | 1.17      | 0.00%            | 50.00% | 50.00% | 0.00%  | 1.3                   | 2.9                    | 0.08                  |
| B8            | 2.15      | 0.00%            | 50.00% | 50.00% | 0.00%  | 2.4                   | 5.4                    | 0.15                  |
| OB1           | 11.76     | 80.00%           | 20.00% | 0.00%  | 0.00%  | 4.8                   | 19.7                   | 0.57                  |
| TOTAL         | 24.44     |                  |        |        |        | 21.7                  | 54.6                   | 1.6                   |

| STORM DRAIN PIPE TABLE                  |          |        |                           |                 |
|---|----------|--------|---------------------------|-----------------|
| PIPE #                                  | Size in. | Slope  | Capacity <sup>1</sup> cfs | ACTUAL FLOW cfs |
| ONSITE                                  |          |        |                           |                 |
| SDP1                                    | 24       | 8.90%  | 67.49                     | 22.66           |
| SDP2                                    | 18       | 1.38%  | 12.34                     | 10.09           |
| SDP3                                    | 36       | 1.60%  | 84.37                     | 32.74           |
| SDP4                                    | 42       | 1.00%  | 100.61                    | 38.16           |
| SDP5                                    | 48       | 0.50%  | 101.57                    | 38.16           |
| SDP6                                    | 48       | 0.80%  | 128.48                    | 44.81           |
| SDP7                                    | 12       | 12.00% | 12.34                     | 6.64            |
| 1- Capacity Based on Manning's Eq w/ N= |          |        |                           |                 |



| DRAINAGE MANAGEMENT PLAN<br>ULTIMATE BASIN MAP<br>ASRC 6TH FIELD |     |                 |            |
|--|-----|-----------------|------------|
| DRAWN BY:  | AO  | DATE:           | 01/21/2021 |
| CHECKED BY:  | MJB | BHI PROJECT NO. | 20200438   |
|  |     | SHEET NO.       | 1          |





WEST I-40 DMP UPDATE, WATERSHED SUB-BASINS  
FIGURE 2, OCTOBER 2011



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PRINT HYD          ID=15 CODE=1

*S*      ROUTE ST.3 ALONG STREET TO 98TH STREET STORM DRAIN
*S*      ROUTE FLOW IN 48" SD PIPE
COMPUTE RATING CURVE  CID=1 VS NO=1 CODE=-1 SLOPE=0.018
                     DIA=48 IN N=.013
ROUTE MCUNGE        ID=19 HYD=RTST.3 INFLOW ID=15 DT=0HR L= 2002.26
                     NS=0 SLOPE=0.018 MATCODE=0 REGCODE=0 CCODE=0
PRINT HYD          ID=19 CODE=0

```

```

*S***** 98TH STREET *****
*S*****
*S*      COMPUTE FLOW THROUGH LADERA DAMS 1-4
*S*****
* 2YR
*RAINFALL          TYPE=2 RAIN QUARTER=0.0 RAIN ONE=0.683
*                  RAIN SIX=0.930 RAIN DAY=1.129 DT=.05
* 10YR
*RAINFALL          TYPE=2 RAIN QUARTER=0.0 RAIN ONE=1.160
*                  RAIN SIX=1.429 RAIN DAY=1.736 DT=.05
* 100YR
RAINFALL          TYPE=2 RAIN QUARTER=0.0 RAIN ONE=1.77
                  RAIN SIX=2.26 RAIN DAY=2.63 DT=.05
*S* ROUTE FLOW FROM DAM 0 THROUGH AN EARTHEN CHANNEL
*S* ROUTE THROUGH UD.1B
COMPUTE RATING CURVE ID=1 VS NO=1 NO SEGS=1
                     MIN ELEV=0 MAX ELEV=5
                     CH SLP=.04 FP SLP=.04
                     N=.030 DIST=50
                     DIST      ELEV      DIST      ELEV      DIST      ELEV
                     0         5         15         0         35         0
                     50         5
ROUTE MCUNGE        ID=12 HYD=L0.1_1 INFLOW ID=87 DT=0HR L=1533.98
                     NS=0 SLOPE=0.04 MATCODE=0 REGCODE=0 CCODE=0
PRINT HYD          ID=12 CODE=10

```

```

*S**** COMPUTE BASIN UD.1B ****
*S*
COMPUTE NM HYD      ID=15 HYD NO=UD.1B DA=0.1266
                     PER A=1.01 PER B=28.03 PER C=28.03 PER D=42.93
                     TP=0.133 RAIN=-1
PRINT HYD          ID=15 CODE=1

```

```

*S DIVERT 25% FOR SURGE POND CONDITION
*DIVIDE HYD          ID=15 PER=-75 ID I=15 HYD=UD.1B
*                  ID II=88 HYD=SURGE
*PRINT HYD          ID=15 CODE=1
*PRINT HYD          ID=88 CODE=1
*S

```

```

*S**** ADD DAM 0 TO UD.1B ****
ADD HYD             ID=22 HYD=DAM1IN
                     ID=15 ID=12
PRINT HYD           ID=22 CODE=1

```

```

*S ROUTE FLOW TO DAM 1
*S* ROUTE WITH 54" PIPE

```

```

COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.053
                     DIA=54 IN N=0.013
ROUTE MCUNGE        ID=16 HYD=RTUD.1b INFLOW ID=22 DT=0 HR L=1133
                     NS=0 SLOPE=0.053 MATCODE=0 REGCODE=0 CCODE=0
PRINT HYD          ID=16 CODE=1

```

```

*S**** COMPUTE BASIN UD.2 ****
*S*
COMPUTE NM HYD      ID=5 HYD NO=UD.2 DA=.2308
                     PER A=0 PER B=25 PER C=25 PER D=50
                     TP=.263 RAIN=-1

```

```

PRINT HYD          ID=5 CODE=1
*S
*S DIVERT 25% FOR SURGE POND CONDITION
*DIVIDE HYD          ID=5 PER=-75 ID I=5 HYD=UD.2
*                  ID II=88 HYD=SURGE
*PRINT HYD          ID=5 CODE=1
*PRINT HYD          ID=88 CODE=1
*S
*S* DIVIDE BASIN INTO PONDS 1, AND 2-3
DIVIDE HYD          ID=5 RATIO=-0.33 ID I=20 HYD = PD1
                     ID II=21 HYD= PD2&3
PRINT HYD          ID=20 CODE=1

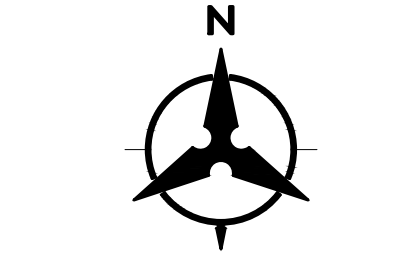
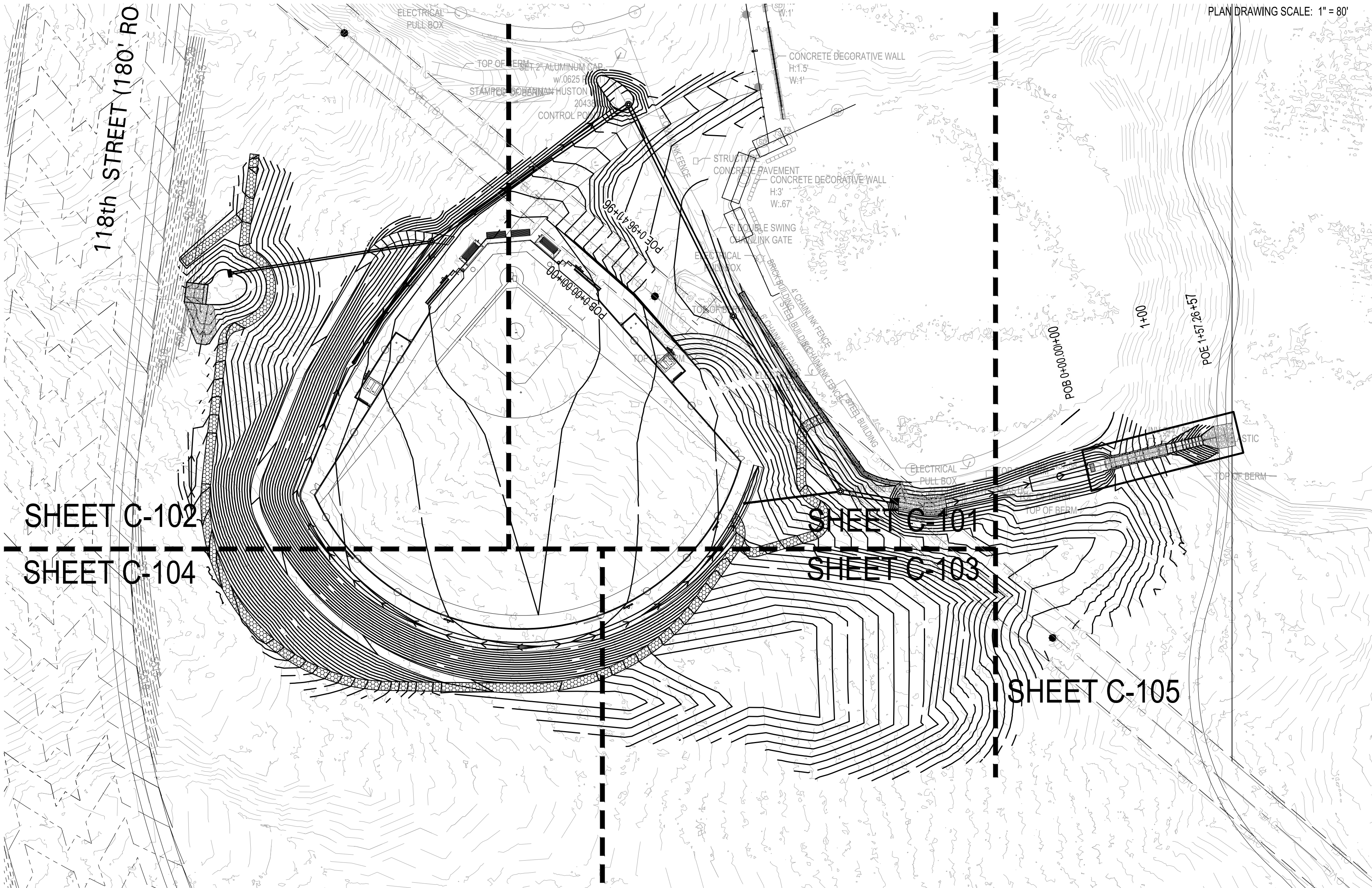
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*S**** ADD 33% OF UD.2 TO DAM 1 INLET FLOW ****
*S**** TOTAL DAM 1 INFLOW ****
ADD HYD             ID=22 HYD=DAM1IN
                     ID=20 ID=16
PRINT HYD           ID=22 CODE=1

```





PLAN DRAWING SCALE: 1" = 80'



GRADING SHEET NOTES

- EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE COA STANDARD SPECIFICATIONS FOR PUBLIC WORKS.
- EARTH SLOPES SHALL NOT EXCEED 5 HORIZONTAL TO 1 VERTICAL PER THE GEOTECHNICAL REPORT UNLESS SHOWN OTHERWISE.
- IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK/DISTURBANCE OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.
- A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.
- ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.
- VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.
- SIDEWALK CROSS-SLOPES SHALL BE AT A MINIMUM OF 1.0% AND A MAXIMUM OF 2.0%.
- HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

SURVEY CONTROL

~~CONTROL POINT BH 11-364-23  
SET ALUMINUM CAP STAMPED  
"BH 11-364-23"  
NORTHING = 1491059.208  
EASTING = 1497061.021  
ELEVATION = 5475.28~~

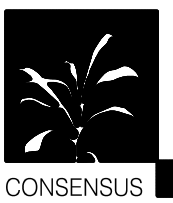
LEGEND

- PROPERTY LINE
- PROJECT LIMITS OF GRADING
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING GROUND SPOT ELEVATION
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED GRADE SPOT ELEVATION
- FL=FLOW LINE
- TC=TOP OF CURB
- TS=TOP OF SIDEWALK
- DIRECTION OF FLOW
- WATER BLOCK/GRADE BREAK
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLETS

BH JOB NO. #####

GENERAL SHEET NOTES

- ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, COA PUBLIC WORKS STANDARDS SHALL APPLY.
- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, DRIVEWAY PERMITS, ETC.).
- ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE TRAFFIC ENGINEERING DEPARTMENT PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- THE PROJECT MUST CONFORM WITH THE EROSION AND SEDIMENT REQUIREMENTS OF THE 2003 EPA CONSTRUCTION GENERAL PERMIT OR LOCAL STANDARDS & CODES WHICHEVER IS MORE STRINGENT.



**CONSENSUS PLANNING, INC.**  
Planning / Landscape Architecture  
302 Eighth Street NW  
Albuquerque, NM 87102  
(505) 764-9801 Fax 842-5495

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

PROJECT TITLE:  
ALBUQUERQUE REGIONAL SPORTS COMPLEX - PHASE 2

TITLE:  
OVERALL GRADING AND DRAINAGE PLAN

|                         |                        |                    |                 |                 |    |
|-------------------------|------------------------|--------------------|-----------------|-----------------|----|
| Design Review Committee | City Engineer Approval | Last Design Update | Mo. / Day / Yr. | Mo. / Day / Yr. |    |
|                         |                        |                    |                 |                 |    |
|                         |                        |                    |                 |                 |    |
|                         |                        |                    |                 |                 |    |
|                         |                        |                    |                 |                 |    |
| CITY PROJECT NO.        |                        | ZONE MAP NO.       | DWG.            | SHEET           | OF |
| 650291                  |                        | J07/J08            | C-100           | 1               | 7  |

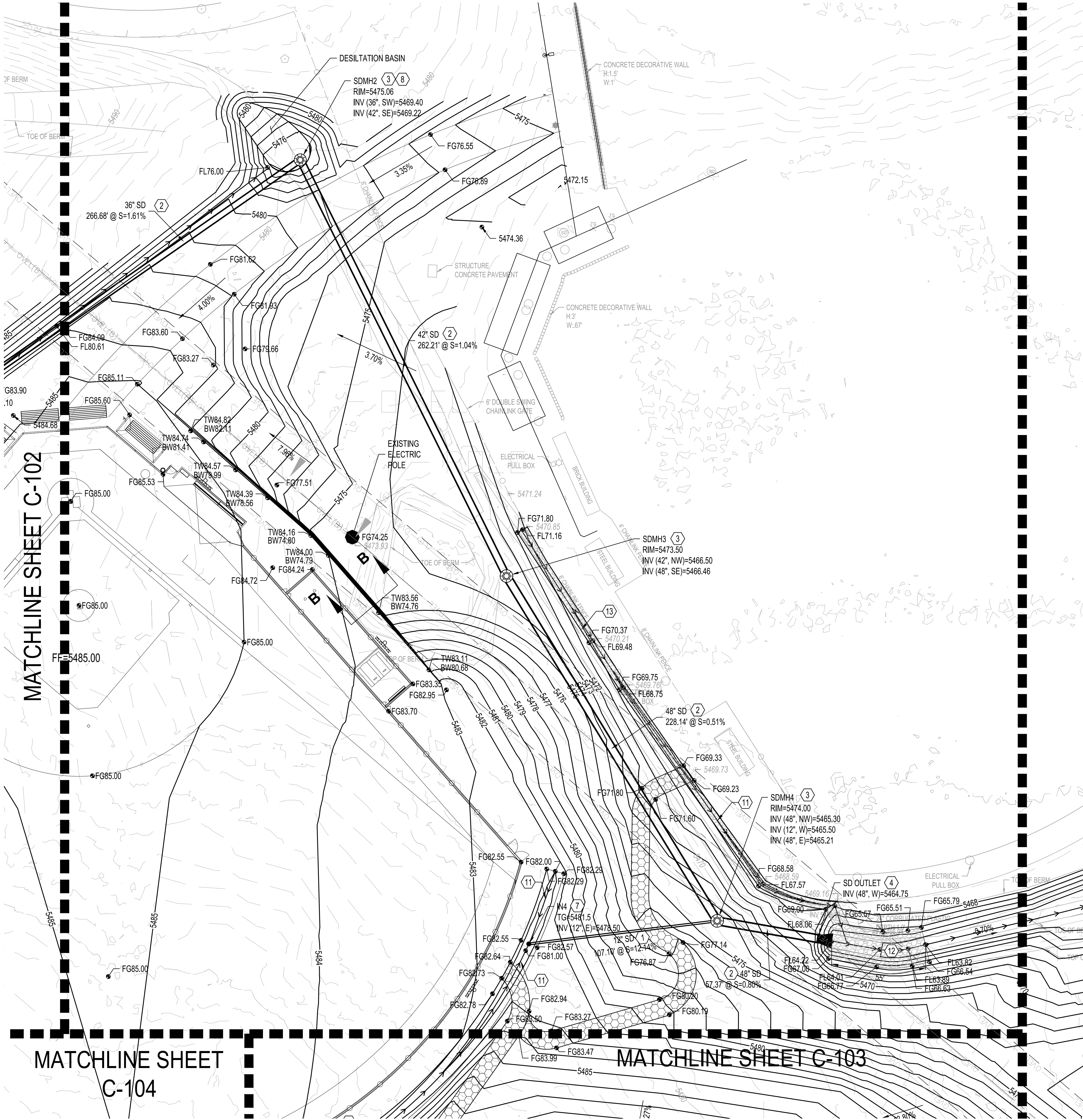
| AS BUILT INFORMATION |                           |      | MICRO-FILM INFORMATION |      |  |
|----------------------|---------------------------|------|------------------------|------|--|
| CONTRACTOR           |                           |      | RECORDED BY            |      |  |
| BENCH MARKS          | WORKED BY                 | DATE | NO.                    | DATE |  |
|                      | INSPECTOR'S ACCEPTANCE BY | DATE |                        |      |  |
|                      | FIELD VERIFICATION BY     | DATE |                        |      |  |
|                      | DRAWINGS CORRECTED BY     | DATE |                        |      |  |

| SURVEY INFORMATION |  | FIELD NOTES |  | DATE |  |
|--------------------|--|-------------|--|------|--|
| ENGINEER'S SEAL    |  |             |  | BY   |  |
|                    |  |             |  | NO.  |  |
|                    |  |             |  |      |  |
|                    |  |             |  |      |  |

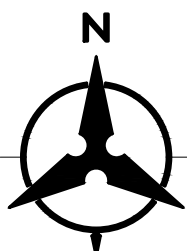


| REMARKS   |        | BY |  | DATE |         |
|-----------|--------|----|--|------|---------|
| REVISIONS | DESIGN |    |  | AO   | 01/2021 |
|           |        |    |  | AO   | 01/2021 |
|           |        |    |  | MJB  | 01/2021 |
|           |        |    |  |      |         |





City of Albuquerque  
Planning Department  
Development Review Services  
**HYDROLOGY SECTION**  
**APPROVED**  
DATE: 02/09/21  
BY: *Randy C. Brissett*  
HydroTrans # J08D002A



PLAN DRAWING SCALE: 1" = 30'

| LEGEND            |                                |
|-------------------|--------------------------------|
|                   | PROPERTY LINE                  |
|                   | PROJECT LIMITS OF GRADING      |
|                   | EXISTING INDEX CONTOUR         |
|                   | EXISTING INTERMEDIATE CONTOUR  |
|                   | EXISTING GROUND SPOT ELEVATION |
|                   | PROPOSED INDEX CONTOUR         |
|                   | PROPOSED INTERMEDIATE CONTOUR  |
|                   | PROPOSED GRADE SPOT ELEVATION  |
|                   | FL=FLOW LINE                   |
|                   | TC=TOP OF CURB                 |
|                   | TS=TOP OF SIDEWALK             |
|                   | DIRECTION OF FLOW              |
|                   | WATER BLOCK/GRADE BREAK        |
|                   | PROPOSED STORM DRAIN LINE      |
|                   | PROPOSED STORM DRAIN MANHOLE   |
|                   | PROPOSED STORM DRAIN INLETS    |
| BHI JOB NO. ##### |                                |

## GRADING KEYNOTES

- INSTALL HDPE (N12 WT. OR APPROVED EQUAL) STORM DRAIN PIPE, SIZE PER PLANS.
- INSTALL RCP STORM DRAIN PIPE, SIZE PER PLANS.
- INSTALL STORM DRAIN MANHOLE TYPE "E" PER COA STD DWG 2102.
- INSTALL CMP END SECTION (CONTECH OR APPROVED EQUAL), SEE PLAN FOR SIZE.
- INSTALL COA DOUBLE TYPE D INLET.
- INSTALL 30" STORM INLET STRUCTURE (NYLOPLAST OR APPROVED EQUAL) WITH DOMED GRATE.
- INSTALL 24" STORM INLET STRUCTURE (NYLOPLAST OR APPROVED EQUAL) WITH DOMED GRATE.
- INSTALL 24" STORM INLET DOMED GRATE.
- INSTALL CONCRETE RUNDOWN PER DETAIL 1, SHEET C-107.
- INSTALL RIP RAP RUNDOWN PER DETAIL 2, SHEET C-107.
- INSTALL RIP RAP PER DETAIL 1, SHEET C-106.
- INSTALL RIP RAP CHANNEL PER DETAIL 2, SHEET C-106.
- INSTALL RIP RAP SWALE PER DETAIL 1, SHEET C-106.
- INSTALL V-SHAPED SWALE PER DETAIL 5, SHEET C-106.
- INSTALL 12" HDPE PERFORATED PIPE PER MANUFACTURES RECOMMENDATIONS

### NOTE

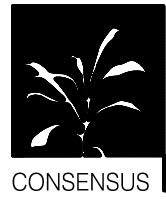
HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

### NOTE

ALL GRADES PROVIDED ARE TO THE FINISHED GRADE. COORDINATION WITH PROPOSED DETAILS IN THIS PLAN SET CONCERNING PAVEMENT SECTION, SWALE DETAILS, RIP RAP, SYNTHETIC TURF, SIDEWALK, ETC. SHOULD BE ACCOUNTED AS NECESSARY FOR IN ALL GRADING.

### NOTE

SIDEWALK CROSS-SLOPES SHALL BE AT A MINIMUM OF 1.0% AND A MAXIMUM OF 2.0%



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Albuquerque, NM 87102  
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CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

PROJECT TITLE:  
**ALBUQUERQUE REGIONAL SPORTS COMPLEX - PHASE 2**

TITLE:  
**PARTIAL GRADING AND DRAINAGE PLAN - 1**

|                         |  |                        |  |                    |                 |       |                 |          |  |
|-------------------------|--|------------------------|--|--------------------|-----------------|-------|-----------------|----------|--|
| Design Review Committee |  | City Engineer Approval |  | Last Design Update | Mo. / Day / Yr. |       | Mo. / Day / Yr. |          |  |
|                         |  |                        |  |                    |                 |       |                 |          |  |
|                         |  |                        |  |                    |                 |       |                 |          |  |
|                         |  |                        |  |                    |                 |       |                 |          |  |
|                         |  |                        |  |                    |                 |       |                 |          |  |
|                         |  |                        |  |                    |                 |       |                 |          |  |
| CITY PROJECT NO.        |  |                        |  | ZONE MAP NO.       |                 | DWG.  |                 | SHEET OF |  |
| 650291                  |  |                        |  | J07/J08            |                 | C-101 |                 | 2 7      |  |

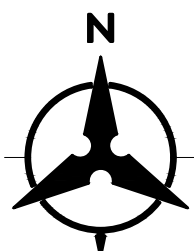
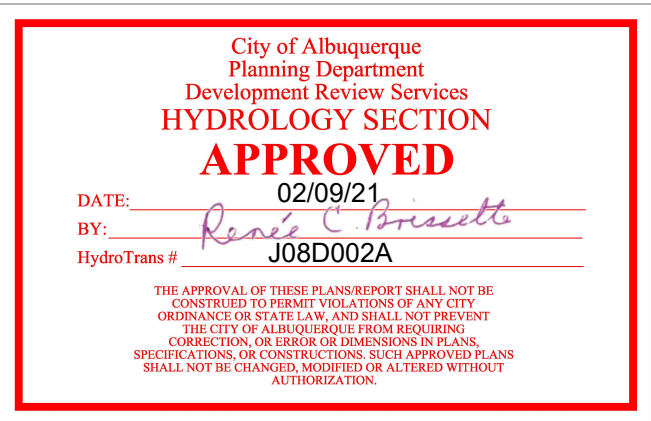
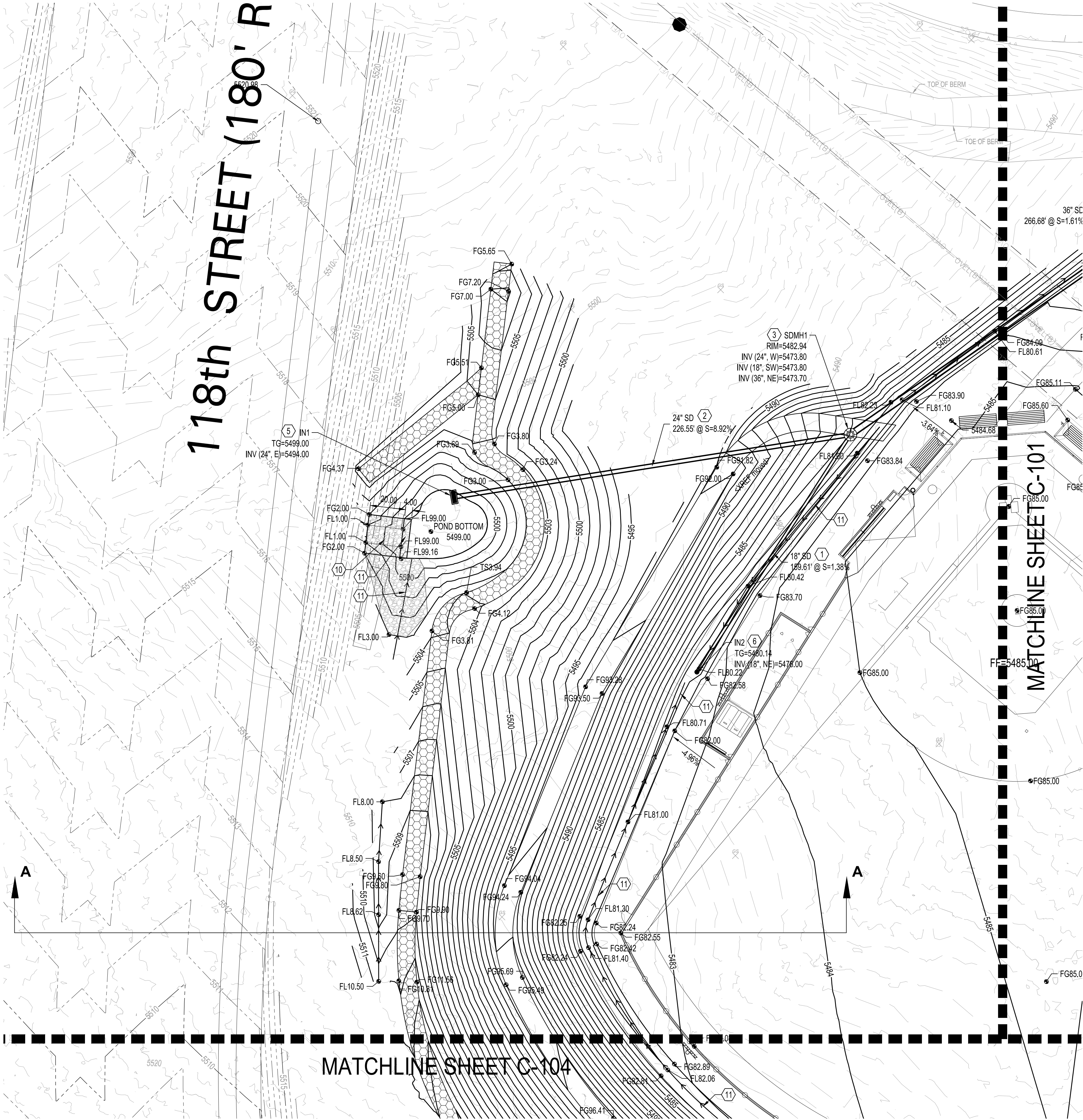
| AS-BUILT INFORMATION   |            |      |                 |      |  |
|------------------------|------------|------|-----------------|------|--|
| CONTRACTOR             | STARTED BY | DATE | INSPECTOR'S     | DATE |  |
|                        | FIELD      | DATE | VERIFICATION BY | DATE |  |
|                        |            |      | CORRECTED BY    | DATE |  |
| MICRO-FILM INFORMATION |            |      |                 |      |  |
| RECORDED BY            | NO.        |      |                 |      |  |

| SURVEY INFORMATION |      |
|--------------------|------|
| FIELD NOTES        | BY   |
| NO.                | DATE |



| REMARKS   |  | BY   |         |
|-----------|--|------|---------|
| REVISIONS |  |      |         |
| DESIGN    |  | DATE | 01/2021 |
|           |  | DATE | 01/2021 |
|           |  | DATE | 01/2021 |





PLAN DRAWING SCALE: 1" = 30'

### LEGEND

- PROPERTY LINE
- PROJECT LIMITS OF GRADING
- - - - - EXISTING INDEX CONTOUR
- - - - - EXISTING INTERMEDIATE CONTOUR
- 4925.25 EXISTING GROUND SPOT ELEVATION
- 4925 — PROPOSED INDEX CONTOUR
- 4924 — PROPOSED INTERMEDIATE CONTOUR
- 26.75 PROPOSED GRADE SPOT ELEVATION
- TC=TOP OF CURB
- TS=TOP OF SIDEWALK
- S=2.0% DIRECTION OF FLOW
- WATER BLOCK/GRADE BREAK
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLETS
- BH1 JOB NO. #####

### GRADING KEYNOTES

1. INSTALL HDPE (N12 WT. OR APPROVED EQUAL) STORM DRAIN PIPE, SIZE PER PLANS.
2. INSTALL RCP STORM DRAIN PIPE, SIZE PER PLANS.
3. INSTALL STORM DRAIN MANHOLE TYPE "E" PER COA STD DWG 2102.
4. INSTALL CMP END SECTION (CONTECH OR APPROVED EQUAL), SEE PLAN FOR SIZE.
5. INSTALL COA DOUBLE TYPE D INLET.
6. INSTALL 30" STORM INLET STRUCTURE (NYLOPLAST OR APPROVED EQUAL) WITH DOMED GRATE.
7. INSTALL 24" STORM INLET STRUCTURE (NYLOPLAST OR APPROVED EQUAL) WITH DOMED GRATE.
8. INSTALL 24" STORM INLET DOMED GRATE.
9. INSTALL CONCRETE RUNDOWN PER DETAIL 1, SHEET C-107.
10. INSTALL RIP RAP RUNDOWN PER DETAIL 4, SHEET C-107.
11. INSTALL RIP RAP PER DETAIL 4, SHEET C-106.
12. INSTALL GROUTED RIP RAP PER DETAIL 5, SHEET C-106.
13. INSTALL RIP RAP SWALE PER DETAIL 6, SHEET C-106.
14. INSTALL 12" HDPE PERFORATED PIPE PER MANUFACTURES RECOMMENDATIONS

#### NOTE

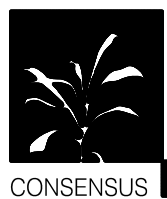
HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

#### NOTE

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#### NOTE

SIDEWALK CROSS-SLOPES SHALL BE AT A MINIMUM OF 1.0% AND A MAXIMUM OF 2.0%



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CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

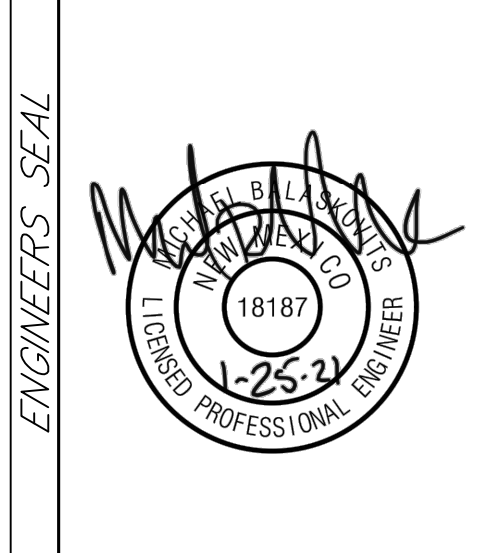
PROJECT TITLE:  
ALBUQUERQUE REGIONAL SPORTS COMPLEX - PHASE 2

TITLE:  
PARTIAL GRADING AND DRAINAGE PLAN - 2

| Design Review Committee    |  | City Engineer Approval  |  | Mo. / Day / Yr. |                    |
|----------------------------|--|-------------------------|--|-----------------|--------------------|
| Last Design Update         |  |                         |  |                 |                    |
|                            |  |                         |  |                 |                    |
|                            |  |                         |  |                 |                    |
|                            |  |                         |  |                 |                    |
| CITY PROJECT NO.<br>650291 |  | ZONE MAP NO.<br>J07/J08 |  | DWG.<br>C-102   | SHEET<br>3 OF<br>7 |

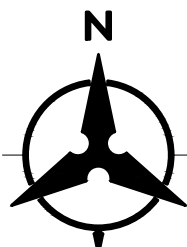
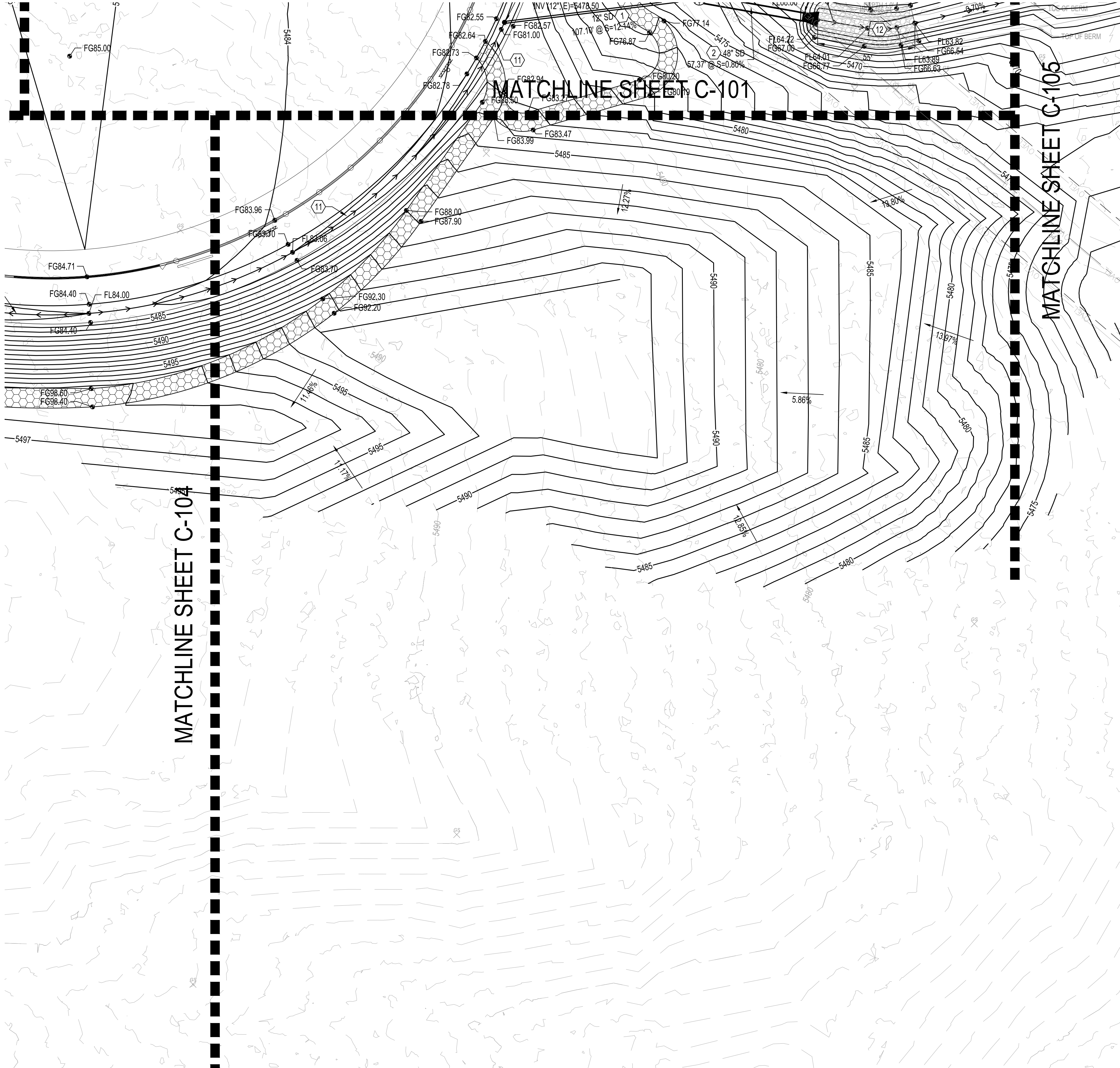
| AS BUILT INFORMATION      |      |
|---------------------------|------|
| CONTRACTOR                | DATE |
| WORKED BY                 | DATE |
| INSPECTOR'S ACCEPTANCE BY | DATE |
| VERIFICATION BY           | DATE |
| DESIGNED BY               | DATE |
| MICRO-FILM INFORMATION    |      |
| RECORDED BY               | DATE |
| NO.                       |      |

| SURVEY INFORMATION  |      |
|---|------|
| FIELD NOTES   | DATE |
| NO.   | BY   |
| BENCH MARKS   |      |
| ALBUQUERQUE GEODETIC REFERENCE STATION "S K198R RESET 1982" |      |
| GEOGRAPHIC POSITION (NAD 1983) NM STATE PLANE COORDINATES   |      |
| (CENTRAL ZONE US SURVEY FOOT)                               |      |
| N= 146713.73 USN E= 152769.861 USN                          |      |
| GROUND-TO-GRID FACTOR = 0.999979809                         |      |
| DELTA ALPHA = -00°13'25.78"                                 |      |
| NAVD 1988 ELEVATION= 5010.623 USN                           |      |



| ENGINEER'S SEAL |         |
|-----------------|---------|
| REMARKS         | BY      |
| REVISIONS       |         |
| NO.             | DATE    |
| DESIGN          |         |
| DESIGNED BY     | AO      |
| DRAWN BY        | AO      |
| CHECKED BY      | MJB     |
| DATE            | 01/2021 |
| DATE            | 01/2021 |
| DATE            | 01/2021 |





PLAN DRAWING SCALE: 1" = 30'

| LEGEND            |  |
|-------------------|--|
|                   | PROPERTY LINE  |
|                   | PROJECT LIMITS OF GRADING                            |
|                   | EXISTING INDEX CONTOUR                               |
|                   | EXISTING INTERMEDIATE CONTOUR                        |
|                   | EXISTING GROUND SPOT ELEVATION                       |
|                   | PROPOSED INDEX CONTOUR                               |
|                   | PROPOSED INTERMEDIATE CONTOUR                        |
|                   | PROPOSED GRADE SPOT ELEVATION                        |
|                   | FL=FLOW LINE<br>TC=TOP OF CURB<br>TS=TOP OF SIDEWALK |
|                   | DIRECTION OF FLOW                                    |
|                   | WATER BLOCK/GRADE BREAK                              |
|                   | PROPOSED STORM DRAIN LINE                            |
|                   | PROPOSED STORM DRAIN MANHOLE                         |
|                   | PROPOSED STORM DRAIN INLETS                          |
| BHI JOB NO. ##### |  |

## GRADING KEYNOTES

1. INSTALL HDPE (N12 WT. OR APPROVED EQUAL) STORM DRAIN PIPE, SIZE PER PLANS.
2. INSTALL RCP STORM DRAIN PIPE, SIZE PER PLANS.
3. INSTALL STORM DRAIN MANHOLE TYPE "E" PER COA STD DWG 2102.
4. INSTALL CMP END SECTION (CONTECH OR APPROVED EQUAL), SEE PLAN FOR SIZE.
5. INSTALL COA DOUBLE TYPE D INLET.
6. INSTALL 30" STORM INLET STRUCTURE (NYLOPLAST OR APPROVED EQUAL) WITH DOMED GRATE.
7. INSTALL 24" STORM INLET STRUCTURE (NYLOPLAST OR APPROVED EQUAL) WITH DOMED GRATE.
8. INSTALL 24" STORM INLET DOMED GRATE.
9. INSTALL CONCRETE RUNDOWN PER DETAIL 1, SHEET C-107.
10. INSTALL RIP RAP RUNDOWN PER DETAIL 2, SHEET C-107.
11. INSTALL RIP RAP PER DETAIL 4, SHEET C-106.
12. INSTALL GROUTED RIP RAP PER DETAIL 5, SHEET C-106.
13. INSTALL RIP RAP SWALE PER DETAIL 6, SHEET C-106.
14. INSTALL 12" HDPE PERFORATED PIPE PER MANUFACTURES RECOMMENDATIONS

### NOTE

HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

### NOTE

ALL GRADES PROVIDED ARE TO THE FINISHED GRADE. COORDINATION WITH PROPOSED DETAILS IN THIS PLAN SET CONCERNING PAVEMENT SECTION, SWALE DETAILS, RIP RAP, SYNTHETIC TURF, SIDEWALK, ETC. SHOULD BE ACCOUNTED AS NECESSARY FOR IN ALL GRADING.

### NOTE

SIDEWALK CROSS-SLOPES SHALL BE AT A MINIMUM OF 1.0% AND A MAXIMUM OF 2.0%



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CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

PROJECT TITLE:  
ALBUQUERQUE REGIONAL SPORTS COMPLEX - PHASE 2

TITLE:  
PARTIAL GRADING AND DRAINAGE PLAN - 3

Design Review Committee

City Engineer Approval

Last Design Update

CITY PROJECT NO.  
650291

ZONE MAP NO.  
J07/J08

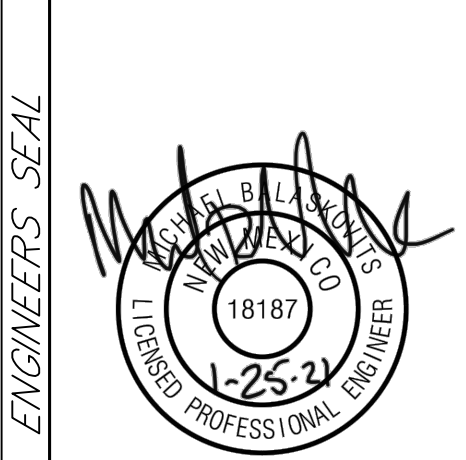
DWG.  
C-103

SHEET  
4 OF 7

| AS-BUILT INFORMATION  |      |
|-----------------------|------|
| CONTRACTOR            | DATE |
| INSPECTOR'S           | DATE |
| FIELD VERIFICATION BY | DATE |
| POST CORRECTED BY     | DATE |
| RECORDED BY           | DATE |
| NO.                   |      |

| BENCH MARKS  |  |
|--|--|
| ALBUQUERQUE GEODETIC REFERENCE STATION "5" K15BR RESET 1982" |  |
| GEOGRAPHIC POSITION (NAD 1983) NM STATE PLANE COORDINATES    |  |
| (CENTRAL ZONE US SURVEY FOOT)                                |  |
| N= 1485713.773 USN E= 1523768.861 USN                        |  |
| GROUND-TO-GRID FACTOR= 0.99979809                            |  |
| DELTA ALPHA = -207.932878"                                   |  |
| NAVD 1988 ELEVATION= 5016.623 USN                            |  |

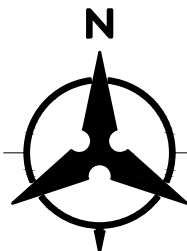
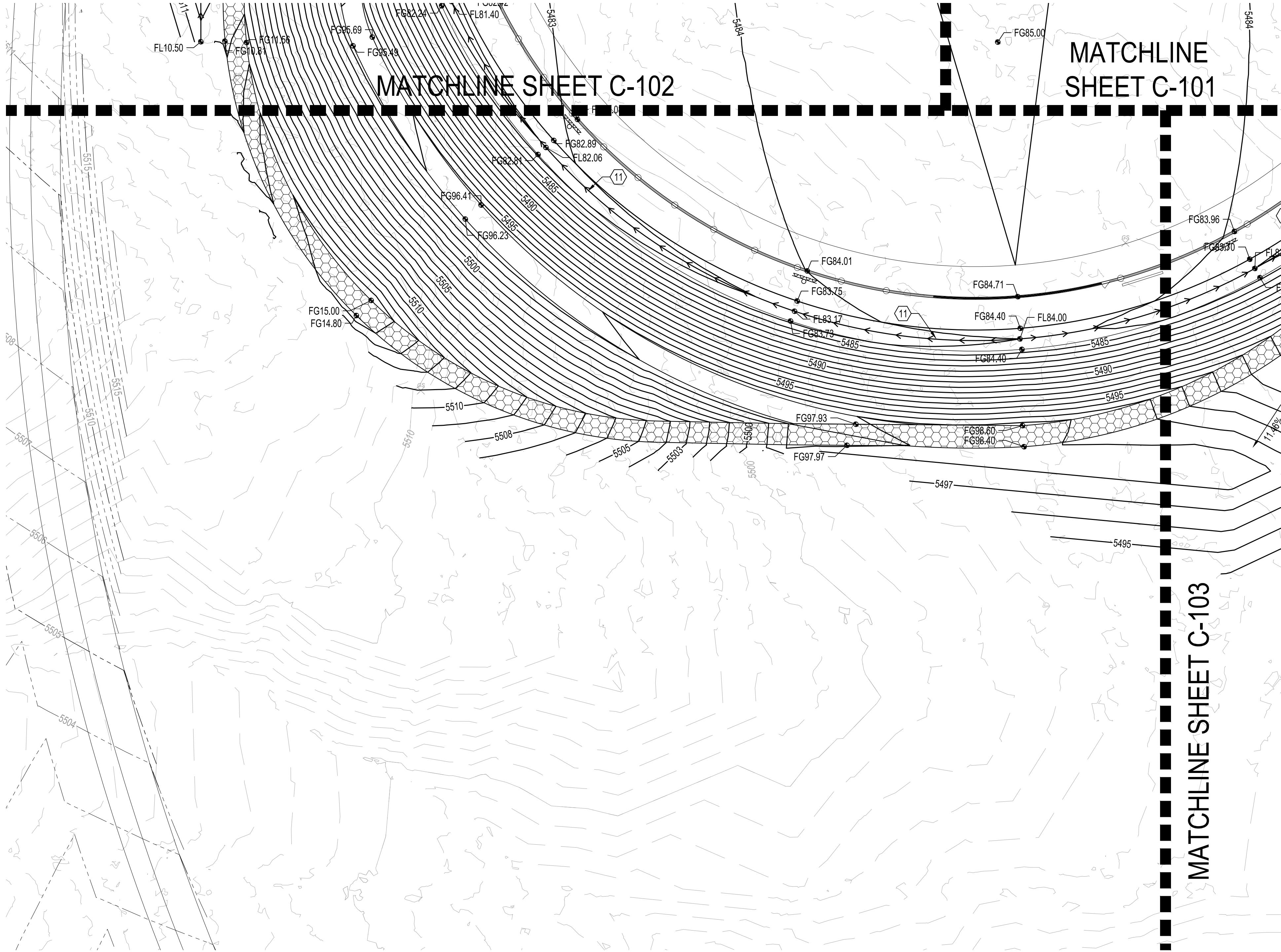
| SURVEY INFORMATION |      |
|--------------------|------|
| FIELD NOTES        |      |
| NO.                | BY   |
|                    | DATE |



| ENGINEERS SEAL |         |
|----------------|---------|
| REMARKS        | BY      |
| REVISIONS      |         |
| DESIGN         |         |
| DATE           | 01/2021 |
| DATE           | 01/2021 |
| DATE           | 01/2021 |

|             |     |
|-------------|-----|
| DESIGNED BY | AO  |
| DRAWN BY    | AO  |
| CHECKED BY  | MJB |





PLAN DRAWING SCALE: 1" = 30'

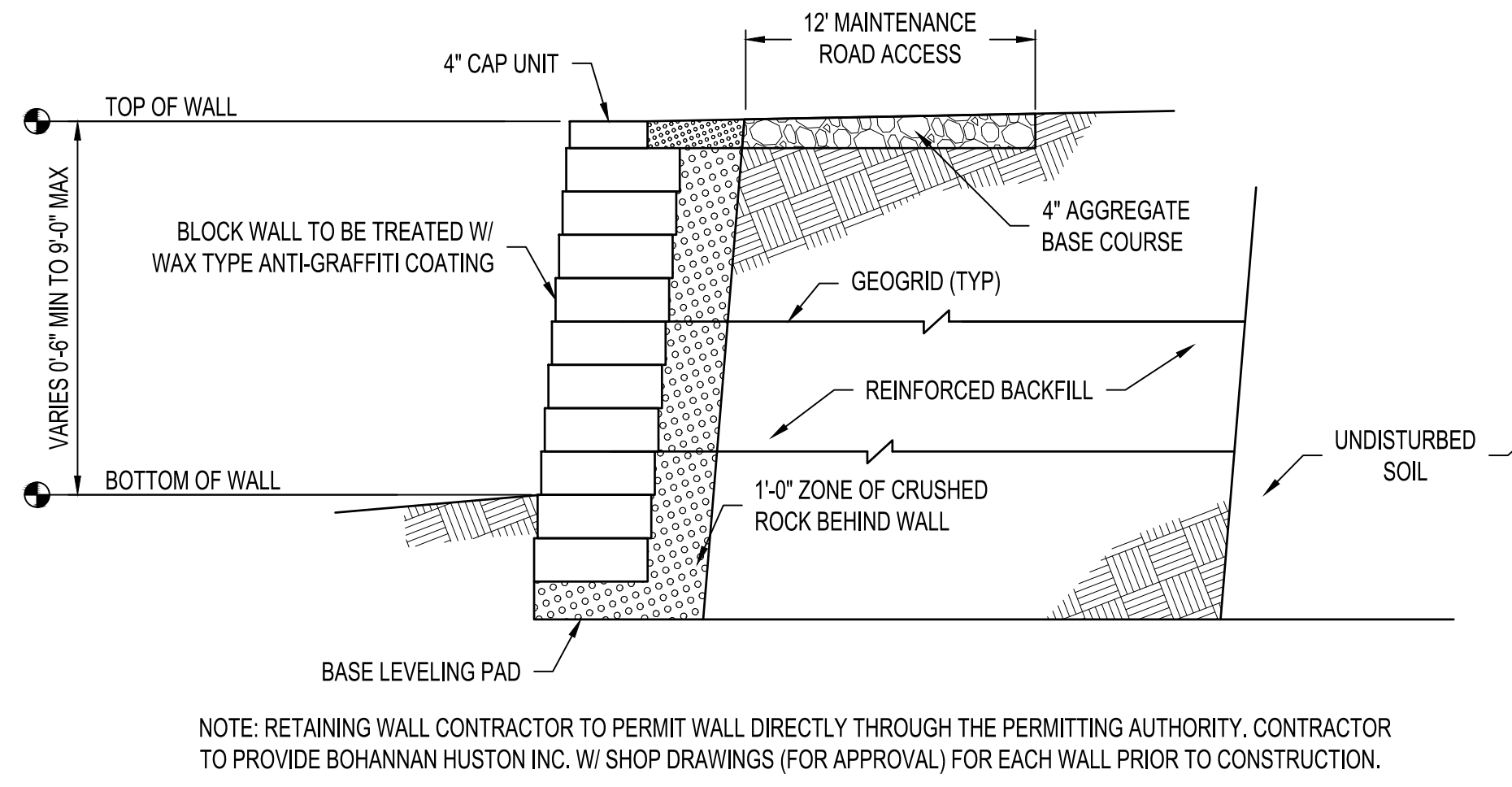
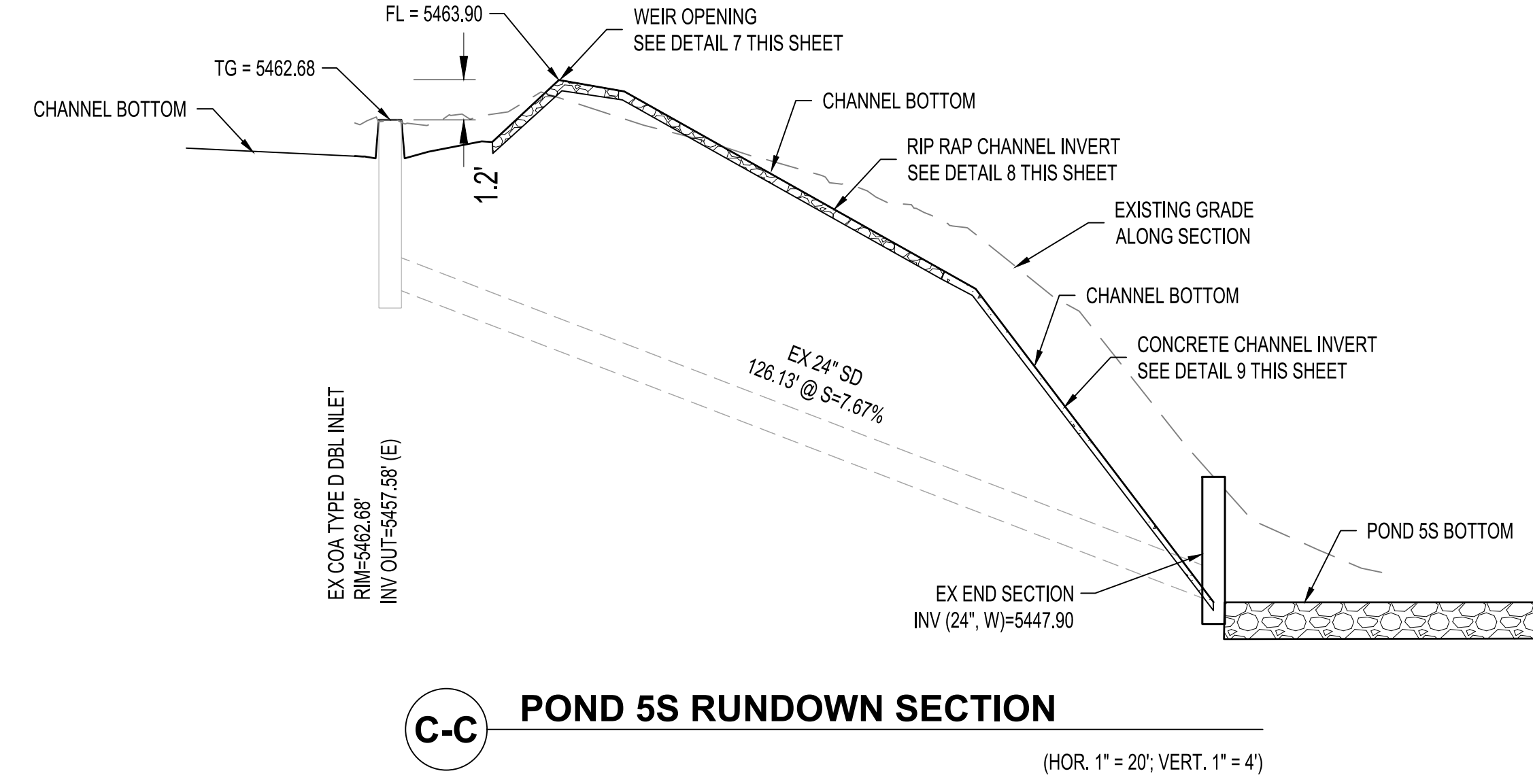
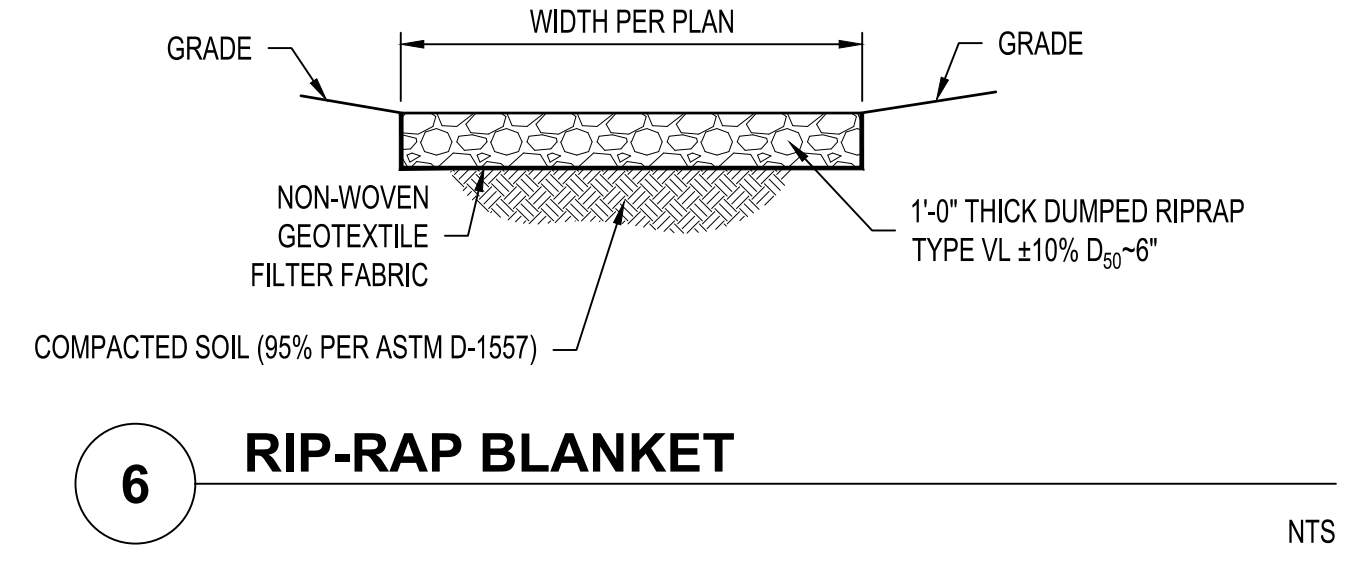
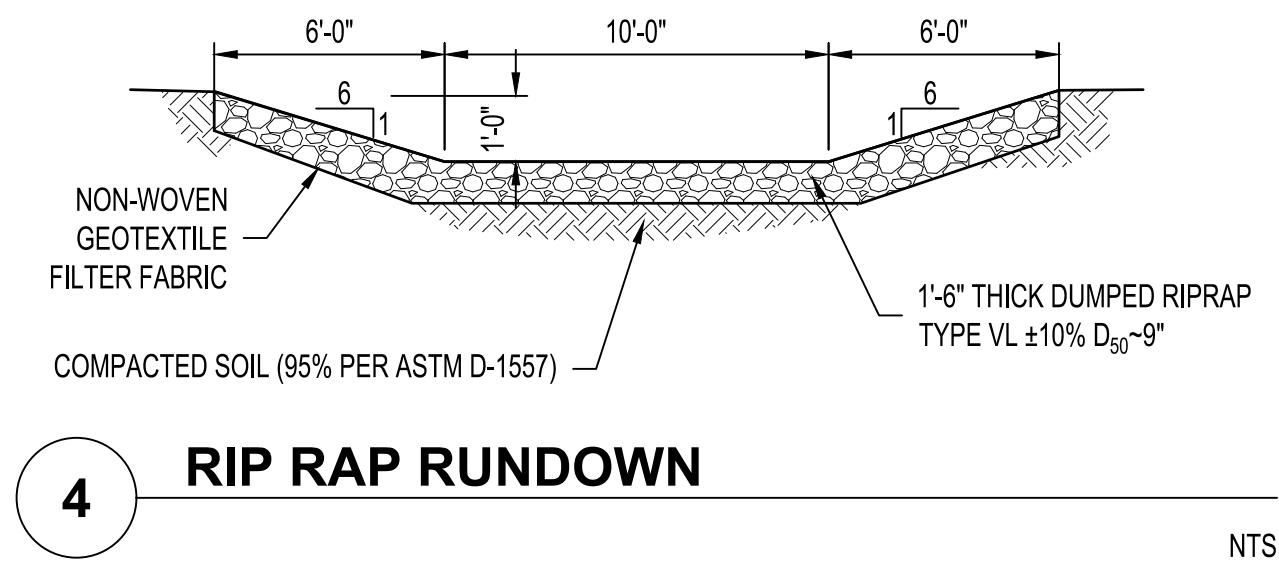
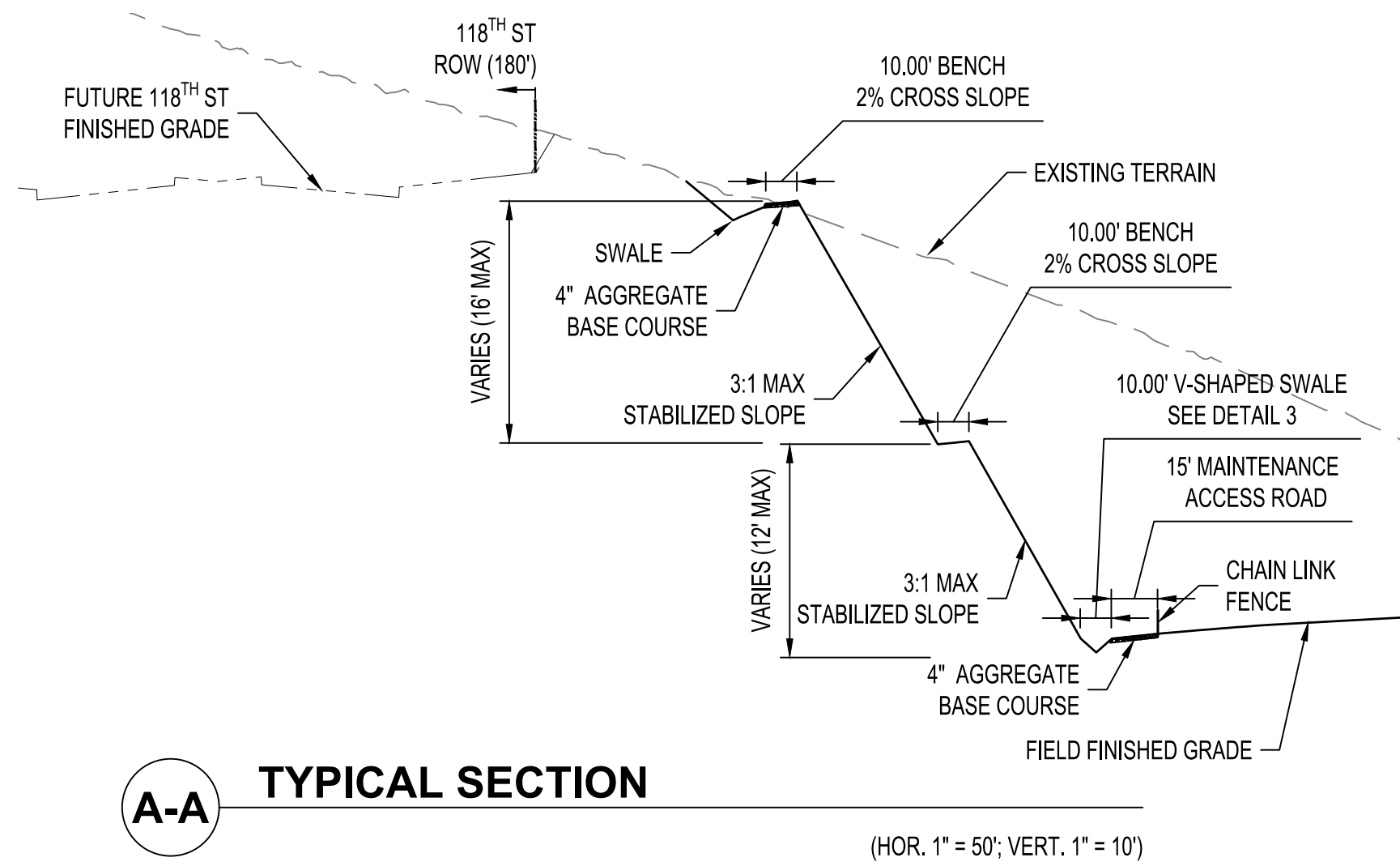
| LEGEND               |  |
|----------------------|--|
|                      | PROPERTY LINE  |
|                      | PROJECT LIMITS OF GRADING                            |
|                      | EXISTING INDEX CONTOUR                               |
|                      | EXISTING INTERMEDIATE CONTOUR                        |
|                      | EXISTING GROUND SPOT ELEVATION                       |
|                      | PROPOSED INDEX CONTOUR                               |
|                      | PROPOSED INTERMEDIATE CONTOUR                        |
|                      | PROPOSED GRADE SPOT ELEVATION                        |
|                      | FL=FLOW LINE<br>TC=TOP OF CURB<br>TS=TOP OF SIDEWALK |
|                      | DIRECTION OF FLOW                                    |
|                      | WATER BLOCK/GRADE BREAK                              |
|                      | PROPOSED STORM DRAIN LINE                            |
|                      | PROPOSED STORM DRAIN MANHOLE                         |
|                      | PROPOSED STORM DRAIN INLETS                          |
| BHI JOB NO. #####    |  |
| BHI JOB NO. 20200438 |  |

| GRADING KEYNOTES   |  | AS-BUILT INFORMATION   |                 |                         |      | SURVEY INFORMATION |    |                 |             | ENGINEERS SEAL   |  | REVISIONS |      |         |    |  |  |
|--|--|------------------------|-----------------|-------------------------|------|--------------------|----|-----------------|-------------|--|--|-----------|------|---------|----|--|--|
| <div>1. INSTALL HDPE (N12 WT. OR APPROVED EQUAL) STORM DRAIN PIPE, SIZE PER PLANS.</div> <div>2. INSTALL RCP STORM DRAIN PIPE, SIZE PER PLANS.</div> <div>3. INSTALL STORM DRAIN MANHOLE TYPE "E" PER COA STD DWG 2102.</div> <div>4. INSTALL CMP END SECTION (CONTECH OR APPROVED EQUAL), SEE PLAN FOR SIZE.</div> <div>5. INSTALL COA DOUBLE TYPE D INLET.</div> <div>6. INSTALL 30" STORM INLET STRUCTURE (NYLOPLAST OR APPROVED EQUAL) WITH DOMED GRATE.</div> <div>7. INSTALL 24" STORM INLET STRUCTURE (NYLOPLAST OR APPROVED EQUAL) WITH DOMED GRATE.</div> <div>8. INSTALL 24" STORM INLET DOMED GRATE.</div> <div>9. INSTALL CONCRETE RUNDOWN PER DETAIL 1, SHEET C-107.</div> <div>10. INSTALL RIP RAP RUNDOWN PER DETAIL 2, SHEET C-107.</div> <div>11. INSTALL RIP RAP PER DETAIL 4, SHEET C-106.</div> <div>12. INSTALL GROUTED RIP RAP PER DETAIL 5, SHEET C-106.</div> <div>13. INSTALL RIP RAP SWALE PER DETAIL 6, SHEET C-106.</div> <div>14. INSTALL 12" HDPE PERFORATED PIPE PER MANUFACTURES RECOMMENDATIONS</div> |  | CONTRACTOR             | WORK STARTED BY | DATE                    | DATE | NO.                | BY | DATE            | FIELD NOTES | <div><div>ENGINEER'S SEAL</div><div><div>18187</div><div>1-25-21</div><div>PROFESSIONAL ENGINEER</div></div></div> |  | NO.       | DATE | REMARKS | BY |  |  |
|  |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
|  |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
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|  |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
| <div>NOTE</div> <div>HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS</div>   |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
| <div>NOTE</div> <div>ALL GRADES PROVIDED ARE TO THE FINISHED GRADE. COORDINATION WITH PROPOSED DETAILS IN THIS PLAN SET CONCERNING PAVEMENT SECTION, SWALE DETAILS, RIP RAP, SYNTHETIC TURF, SIDEWALK, ETC. SHOULD BE ACCOUNTED AS NECESSARY FOR IN ALL GRADING.</div>   |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
| <div>NOTE</div> <div>SIDEWALK CROSS-SLOPES SHALL BE AT A MINIMUM OF 1.0% AND A MAXIMUM OF 2.0%</div>   |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
| <div><div>CONSENSUS PLANNING</div><div>CONSENSUS</div></div> <div>CONSENSUS PLANNING, INC.<br/>Planning / Landscape Architecture<br/>302 Eighth Street NW<br/>Albuquerque, NM 87102<br/>(505) 764-9801 Fax 842-5495</div>  |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
| CITY OF ALBUQUERQUE<br>DEPARTMENT OF MUNICIPAL DEVELOPMENT   |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
| PROJECT TITLE:<br>ALBUQUERQUE REGIONAL SPORTS COMPLEX - PHASE 2  |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
| TITLE:<br>PARTIAL GRADING AND DRAINAGE PLAN - 4  |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
| Design Review Committee  |  | City Engineer Approval |                 | Last Design Update      |      | Mo. / Day / Yr.    |    | Mo. / Day / Yr. |             |  |  |           |      |         |    |  |  |
|  |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
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|  |  |                        |                 |                         |      |                    |    |                 |             |  |  |           |      |         |    |  |  |
| CITY PROJECT NO.<br>650291   |  |                        |                 | ZONE MAP NO.<br>J07/J08 |      | DWG.<br>C-105      |    | SHEET<br>5      |             | OF<br>7  |  |           |      |         |    |  |  |









SEGMENTAL RETAINING WALL CONSTRUCTION NOTES:

CONTRACTOR TO PROVIDE SHOP DRAWINGS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN NEW MEXICO & QUALIFIED TO DESIGN SEGMENTAL RETAINING WALLS TO BOHANNAN HUSTON FOR REVIEW PRIOR TO SUBMITTING TO GOVERNING ENTITY.

RETAINING WALL SYSTEM REQUIREMENTS (PROVIDED BY MANUFACTURER OR CONTRACTOR).

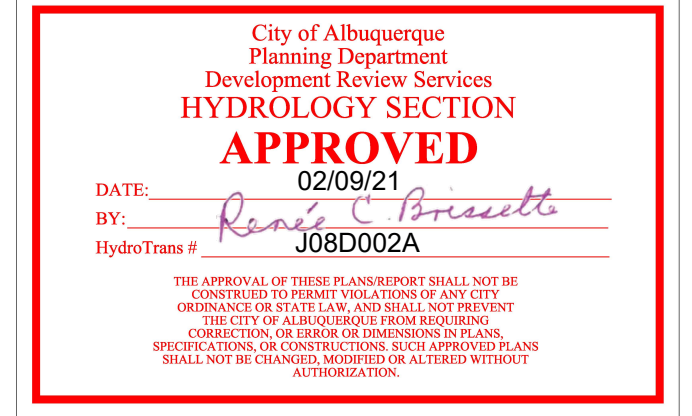
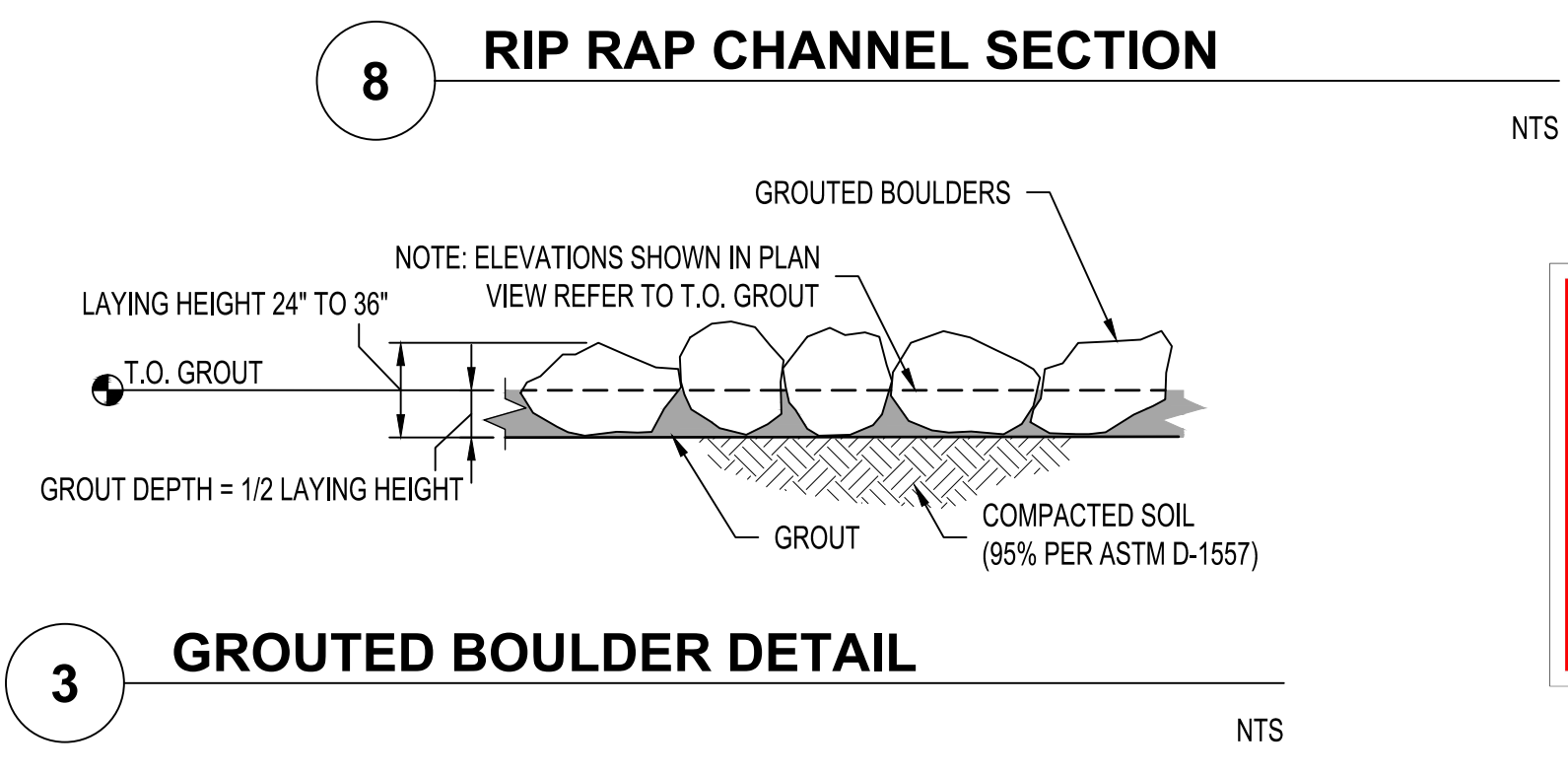
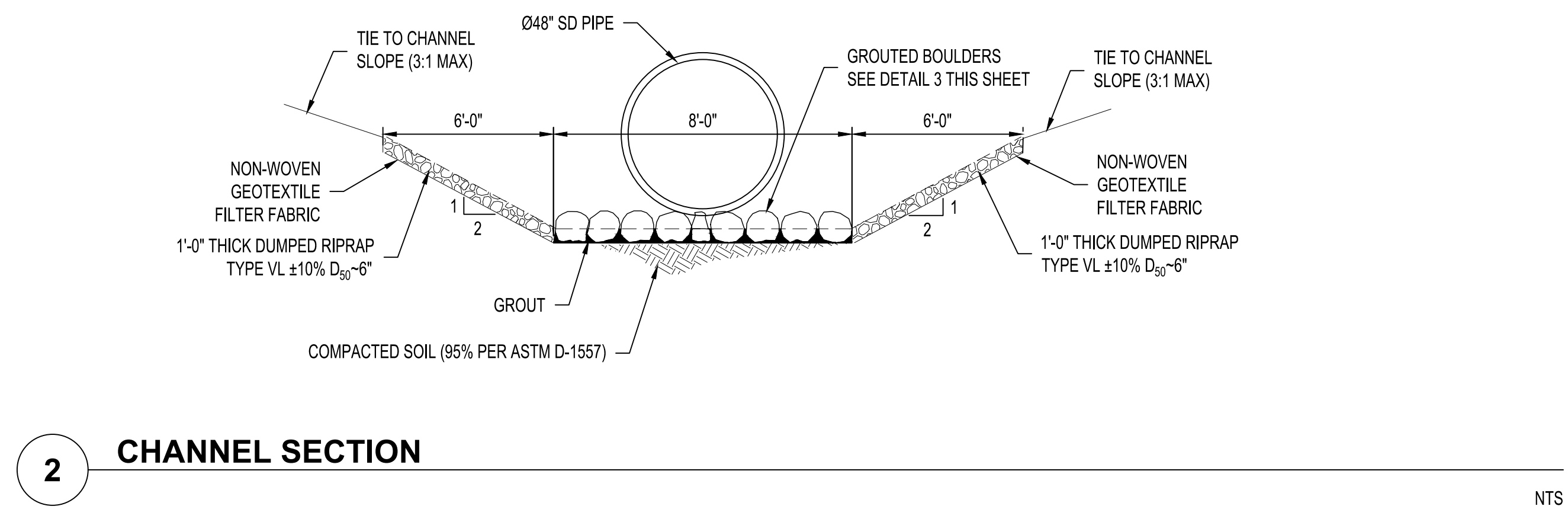
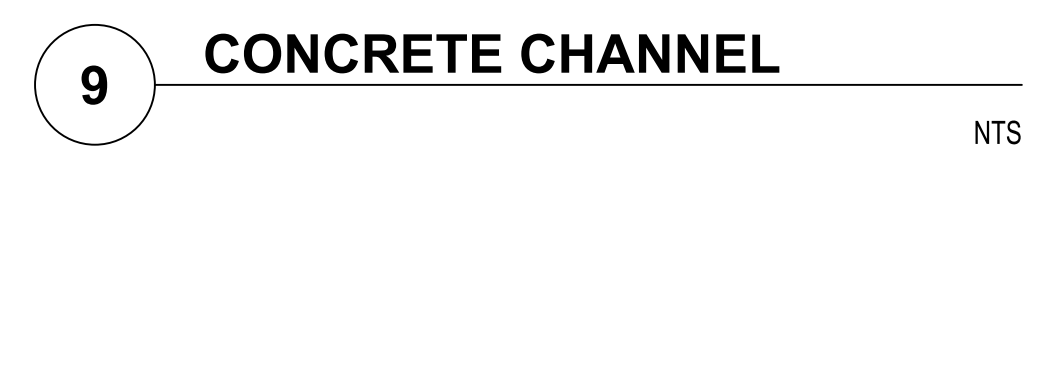
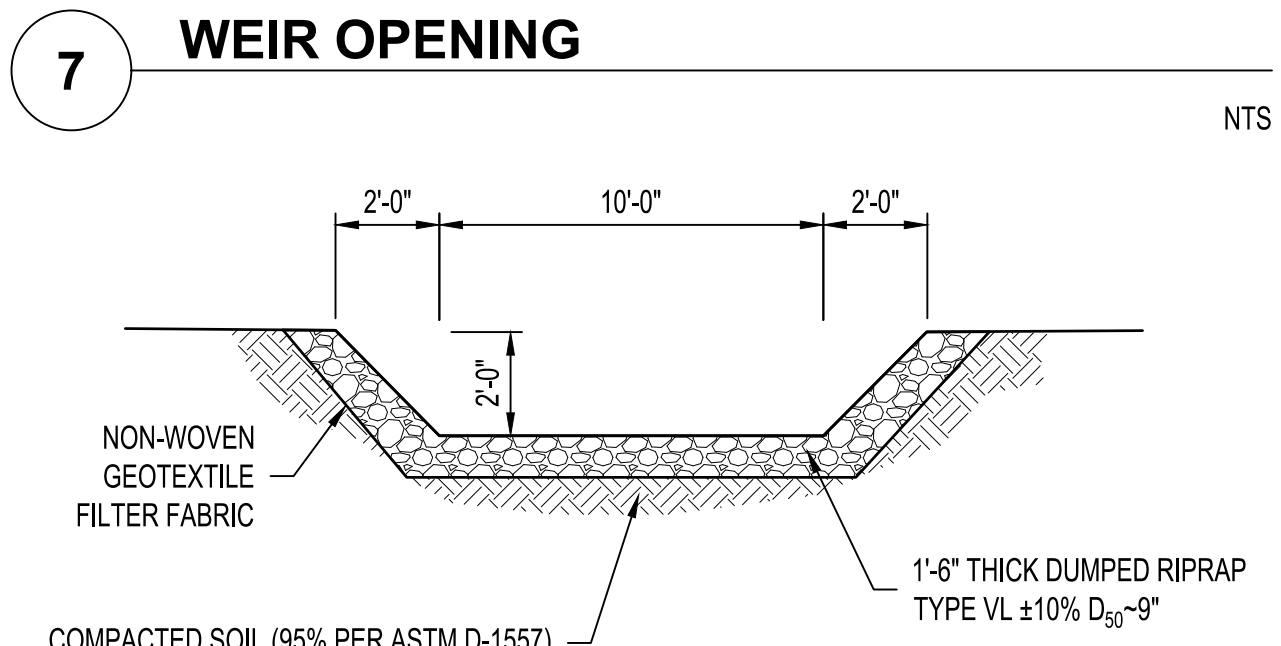
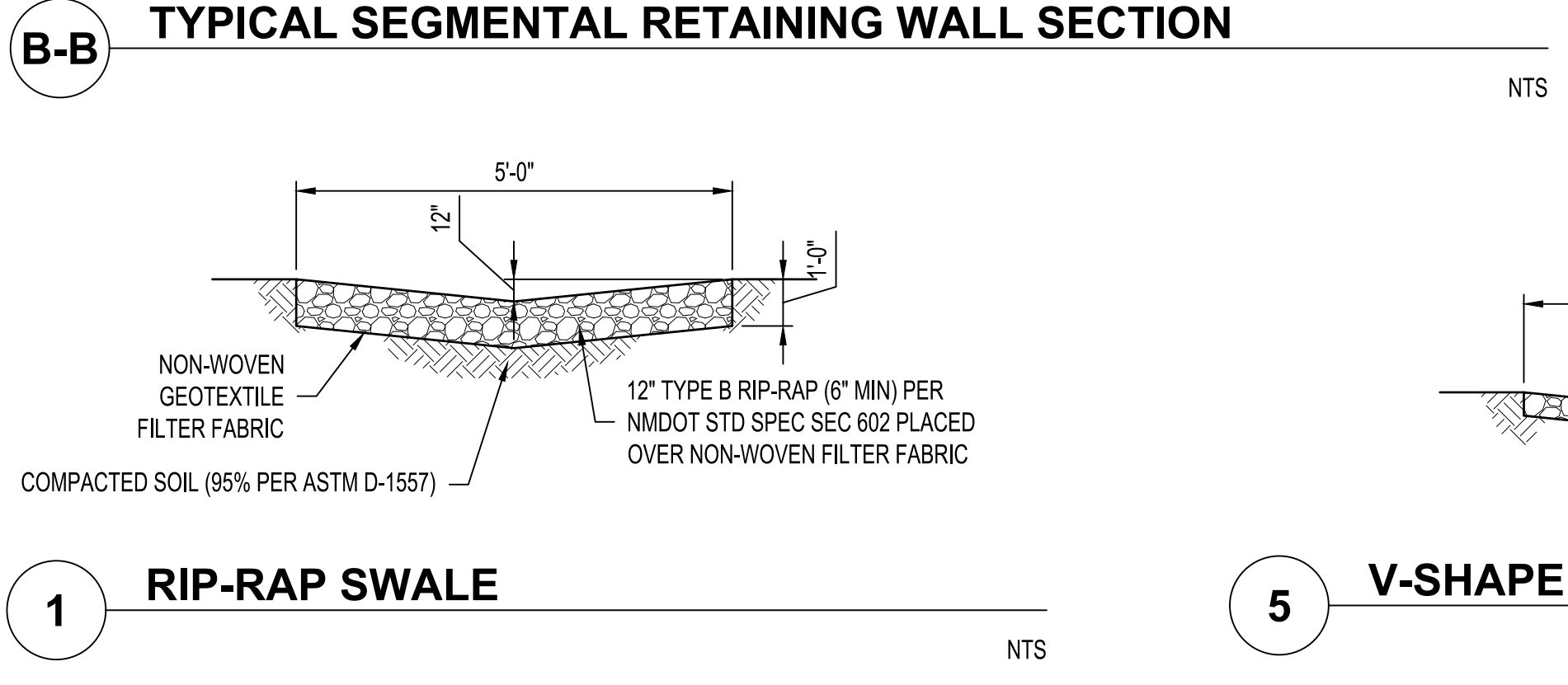
SOIL AND COMPACTION TESTING SHALL BE PERFORMED DURING CONSTRUCTION (BASE, 1/2 HEIGHT, AND FINAL).

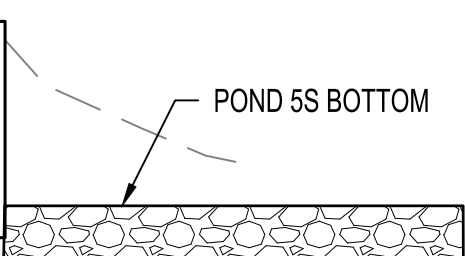
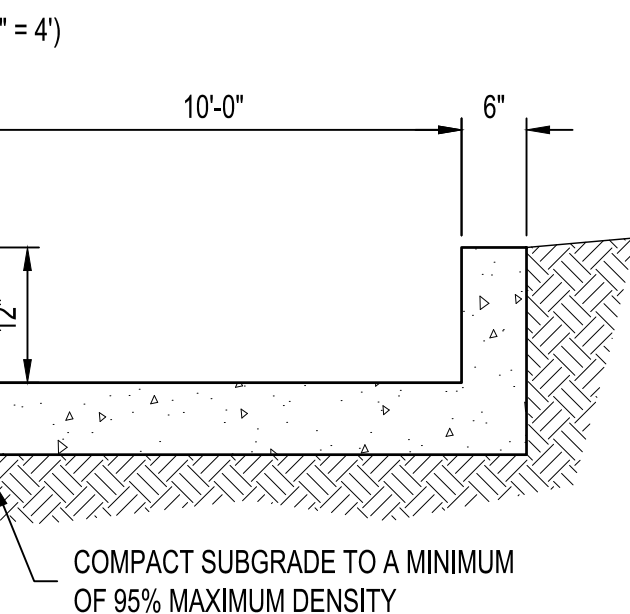

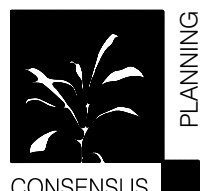
APPROVED SHOP DRAWINGS MUST BE AVAILABLE ON-SITE AT ALL TIMES.

CONTRACTOR TO PROVIDE OWNER WITH COLOR SAMPLES FOR FINAL COLOR SELECTION.

ELEVATIONS SHOWN ARE TO TOP OF WALL AND BOTTOM OF WALL AT FINAL GRADE (DOES NOT INCLUDE FOOTER).

CONTRACTOR TO INCLUDE ANY OVER EXCAVATION AND CONTROLLED BACKFIELD ASSOCIATED WITH RETAINING WALL IN RETAINING WALL BID.



|   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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| <div> <b>CONSENSUS PLANNING, INC.</b><br/>Planning / Landscape Architecture<br/>302 Eighth Street NW<br/>Albuquerque, NM 87102<br/>(505) 764-9801 Fax 842-5495</div>   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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