### CITY OF ALBUQUERQUE



July 24, 2014

Jamie Knollmiller WD Partners 7007 Discovery Blvd. Dublin, OH 43017

Re: BJ's Restaurant and Brewhouse Grading and Drainage Plan Colleen Rezabek Engineer's Stamp with No Date (B14D004E)

Dear Mr. Knollmiller,

Based upon the information provided in your submittal received June 25, 201414, the above referenced plan is approved for Site Plan for Building Permit action by the DRB.

When the Grading and Drainage Plan is submitted for Building Permit approval, please include the following:

- 1. Schedule Note C states the storm pipe is 12 inch, but Schedule Note 4 calls out a 4 inch invert. Revise Note 4. Provide a call out for Schedule Note 8 and size of pipe. Call out a transition for connecting HDPE to concrete pipe.
- 2. Provide a vicinity map and FIRM map including the site location. Include a benchmark.
- Provide assumptions and calculations for the storm pipe and valley gutter that show all are sized appropriately. The drainage assumptions should follow the 1992 Drainage Report for Cottonwood Mall by Bohannan-Huston, Inc. Include a valley gutter detail.
- 4. No bio-swale detail is provided as has been called out. Provide the detail.
- 5. Include openings in all the islands for drainage to enter.
- 6. Plan note 2 calls for utilities to be relocated to the proposed grade. Be specific about which utilities and how they will be handled.
- 7. Include a date on the engineer's stamp for the plans. Provide an electronic pdf copy of signed plans and calculations.

www.cabq.gov

New Mexico 87103

PO Box 1293

Albuquerque

If you have any questions, you can contact me at 924-3986.

Sincerely.

MODE SHOULD ENTIRE

· NO FIRST FLUSH

RELOCATED D'STORM IS

PRIVATE. 66" IS PLEBLIC. WHICH IS NOT BANGGHANGED.

SEE AS-PULTS.

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SAD DAS PART L BI4 DOOF

Planning Dept.

Ámý L. D, Niese, PE/ Senior Engineer, Hydrology

MAU + her Development

Albuquerque - Making History 1706-2006

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City of Albuquerque

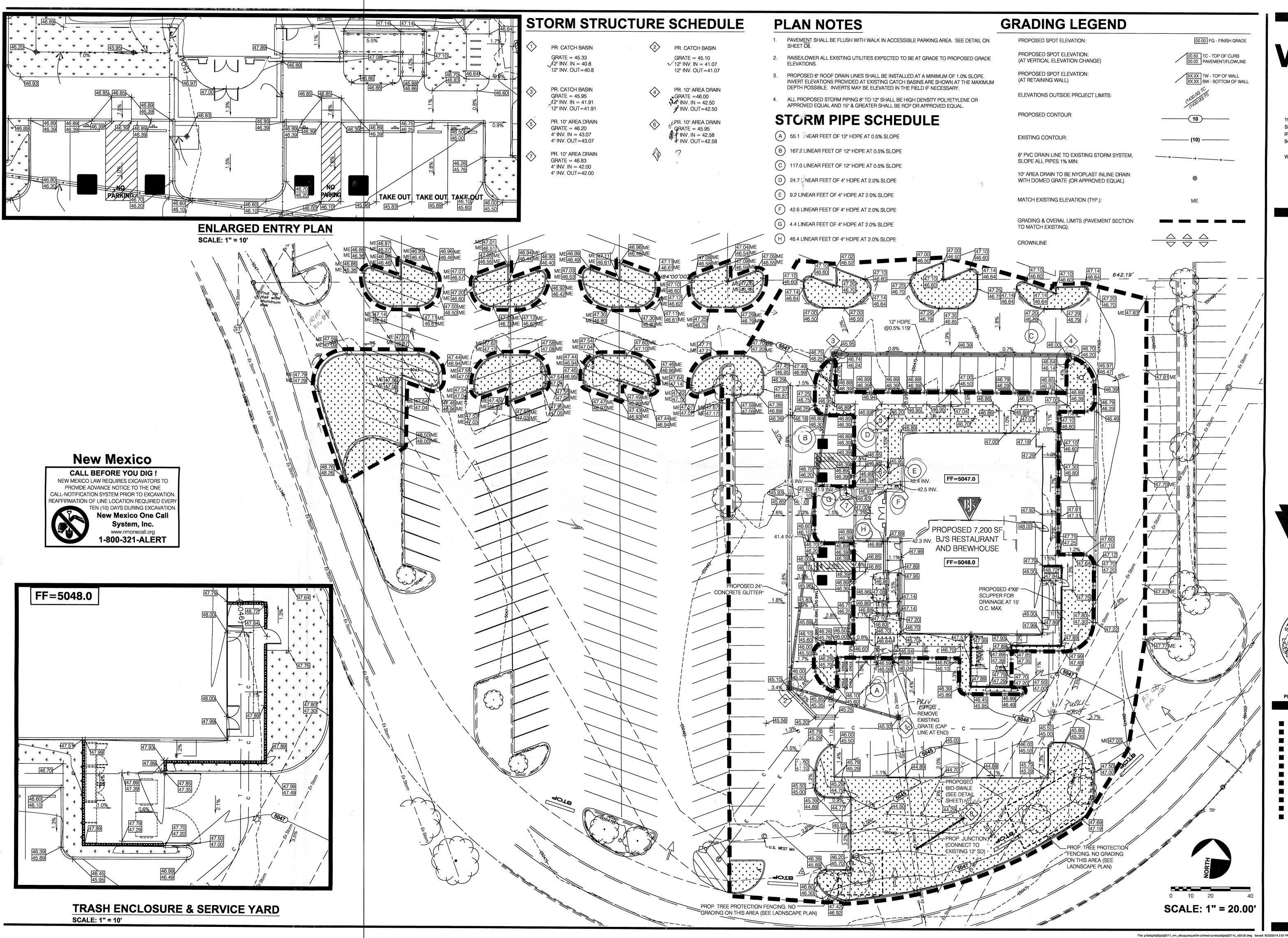
In public, Island

Development & Building Services Division Do depression in landscaping DRAINAGE AND TRANSPORTATION INFORMATION SHEET 15

	(REV 02/2013)	
Project Title: BJ S RESTAURANT AND	BREWHOUSE Building Permit #:	City Drainage #: BIYDOOY
DRB#: EPC#:	O 11000 Danding Fernite #.	Work Order#:
	TLETTERED A-I-A OF	PLAT OF TRACTS A-1-AB-1-A-1
B-18 1, 6-2 A. 6-3-A		BOOK 976
City Address: 10000 Cooks BLV	<b>D</b>	
Engineering Firm: WD PARTNERS		Contact: JAMIE KNOLLMILLER
Address: 7007 DISCOVERY BLYD.	DUBLIN, 64 43017	Condition of the condit
Phone#: 949-223-9517 Fax#:	DODG10, -11 12011	Town Town Valallant (Say Co
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Owner: SIMON PROPERTIES	GROUP	Contact: ROD VOSPER Com
Address: 225 W. WASHINGTON	STREET 8TH FLOOR. IN	DIANAPOLIS, IN 46204
Phone#: 317-685.7331 Fax#:		E-mail:
	***************************************	
Architect: WD PARTNERS		Contact: JAMIE KNOLL MILLER
Address: 19100 VON KARMAN	AVENUE, STE-600,	IRVINE CA 92612
Phone#: 949 - 223 - 9517 Fax#:	,	E-mail: JAMIE, KNOLL MILLER & NO PARTNERS.
Surveyor: SURY TEK INC		D WD PARTNERS.
	So	Contact: RUSS HUGG
Address: 9384 VALLEY VIEW I	DRIVE, N.W. ALBUQUE	EQUE, NM 87114
Phone#: <u>505 - 897 - 3366</u> Fax#:		E-mail:
Contractor:TBD		Contact
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EROSION & SEDIMENT CONTROL PLAN (ESC	FINAL PLAT APPROVAL	a continuity
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TRAFFIC CIRCULATION LAYOUT (TCL)	CERTIFICATE OF OCCUPA	
ENGINEER'S CERT (TCL)	FOUNDATION PERMIT AP	- W
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ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROV	
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SO-19	WORK ORDER APPROVAL	
OTHER (SPECIFY)	GRADING CERTIFICATION	OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED:	X var a Na Ga	and David St. 1
		opy Provided
DATE SUBMITTED: 625-14	By:/\(\mathbb{N} \mathbb{N} \mathbb{A} \mathbb{R} \mathbb{A}	(C) *
Requests for approvals of Site Development Plans and/or Subdi	vision Plats shall be accompanied by a drainage	ge submittal. The particular nature, location, and
scope to the proposed development defines the degree of draina	ge detail. One or more of the following levels	of submittal may be required based on the followin
<ol> <li>Conceptual Grading and Drainage Plan: Required for Drainage Plans: Required for building permits, grading</li> </ol>	approval of Site Development Plans greater the	nan five (5) acres and Sector Plans
3. Drainage Report: Required for subdivision containing	more than ten (10) lots or constituting five (5):	acres or more
4. Erosion and Sediment Control Plan: Required for any	new development and redevelopment site with	h 1-acre or more of land disturbing area including

project less than 1-acre than are part of a larger common plan of development

NINA RAEY
FANCHER DEVELOPMENT
1342 BELL AVENUE, SUITE 3K
TUSTIN, CA 92780
T14-258-1808; NINADFANCHERDEVELOPMENT. Com CONTACT. \*



19100 VON KARMAN AVE SUITE 600 IRVINE, CA 92612 949.753.7676 T

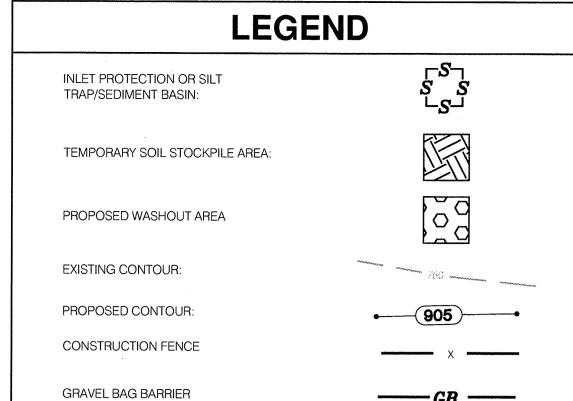
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PROJECT NO. BJSBJ0211

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### **ON-SITE REVISIONS**

DATE	REVISION DESCRIPTION	INITIALS

### **PLAN NOTES**

CONTRACTOR SHALL ENSURE THAT ALL TEMPORARY STOCKPILE AREAS UTILIZED DURING CONSTRUCTION ARE SURROUNDED WITH EROSION AND SEDIMENT CONTROL MEASURES. STOCKPILE AREAS SHALL BE SURROUNDED WITH GRAVEL BAGS PER DETAILS ON SHEET  $\overline{ extbf{C5}}$ .

2. REFER TO SWPPP FOR XXXXX FOR SITE COVERAGE, WSSI #XXXXX

## SCOPE OF EROSION CONTROL

THE CONTRACTOR SHALL CONTROL SOIL EROSION RESULTING FROM THE PROPOSED IMPROVEMENTS. THE USE OF SILT FENCING, JUTE MATTING, TEMPORARY SEEDING, SILT CHECKS, INLET PROTECTION AROUND ALL CATCH BASINS, STABILIZED CONSTRUCTION ENTRANCE(S), ETC. MAY BE REQUIRED, REFER TO PLAN. SEDIMENT CONTROL STRUCTURES/DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF BERNALILLO COUNTY, STATE OF NEW MEXICO DEVELOPMENT MANUAL. SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS SET FORTH ON THE APPROVED STORMWATER

POLLUTION PREVENTION PLAN IF APPLICABLE, OR AS DETAILED ON THE CONSTRUCTION PLANS, AS SPECIFIED BY BERNALILLO COUNTY, ALBUQUERQUE, NM.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO UPDATE BMP CONTROLS AS SITE CONDITIONS WARRANT. MORE CONTROLS MAY BE REQUIRED PER SITE CONDITIONS. THE CONTRACTOR SHALL INCLUDE THESE COSTS IN THE BASE BID. ANY AREA WHERE EROSION IS OBSERVED MUST BE ADDRESSED BY THE CONTRACTOR, WHETHER SHOWN ON THE PLANS OR NOT. IN THE CASE THAT DOWNSTREAM EROSION IS OBSERVED, THE CONTRACTOR MUST CONTACT THE ENGINEER OF RECORD FOR RECOMMENDATIONS.

PERMANENT EROSION CONTROL, TURF ESTABLISHMENT, AND SOIL STABILIZATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE INTENT OF THIS PLAN IS TO PROVIDE GUIDANCE FOR PLACEMENT OF BEST MANAGEMENT PRACTICES.

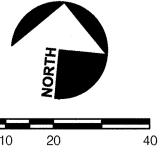
CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CLEANING AND DISPOSAL OF ANY DEBRIS TAKEN OFF SITE. CONTRACTOR IS RESPONSIBLE FOR ALL FINES AND FEES FOR IMPROPER PLACEMENT OR MAINTENANCE OF CONTROLS.

### **New Mexico**

**CALL BEFORE YOU DIG!** NEW MEXICO LAW REQUIRES EXCAVATORS TO PROVIDE ADVANCE NOTICE TO THE ONE CALL-NOTIFICATION SYSTEM PRIOR TO EXCAVATION REAFFIRMATION OF LINE LOCATION REQUIRED EVER

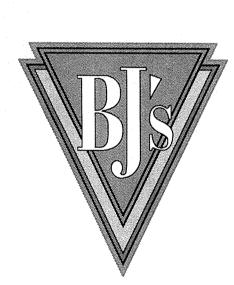


TEN (10) DAYS DURING EXCAVATION. New Mexico One Call System, Inc. www.nmonecall.org **SCALE: 1" = 20.00'** 



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PROJECT NO. BJSBJ0211

REVISIONS

2. STORM SEWERS THAT ARE INSTALLED SHALL BE PUT INTO SERVICE IMMEDIATELY. THE INLETS OF ALL STORM SEWERS SHALL BE PROTECTED WITH SILT TRAPS THAT PREVENT SEDIMENT FROM ENTERING PIPE. THIS PROTECTION CAN BE SILT FENCE OR RIP-ŘAP FILTER BERMS AS APPLICABLE AND SHOWN ON THE PLANS.

3. RIP-RAP AS SHOWN ON THE PLANS AND AS REQUIRED ON THE SITE WILL BE INSTALLED AT EMERGENCY SPILLWAYS TO PREVENT EROSION DUE TO OUTFLOW WATER VELOCITY. RIP-RAP SHALL BE EXTENDED DOWNSTREAM AS NEEDED TO PREVENT EROSION.

4. ADDITIONAL SILT FENCING SHALL BE INSTALLED AS NECESSARY TO PREVENT EROSION AND SILTATION RESULTING FROM STOCKPILED EXCAVATION MATERIAL FROM UTILITY INSTALLATION OPERATIONS.

PHASE 4: FINISH GRADING, CURB AND PAVEMENT INSTALLATION, LANDSCAPING - THIS IS HE WRAP-UP STAGE WHEN ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WILL BE PHASED OUT. THE FOLLOWING WILL APPLY TO THIS PHASE:

1. ALL FACILITIES FROM PHASE 1 THROUGH PHASE 4 WILL BE MAINTAINED, MODIFIED,

OR REMOVED WHEN APPROPRIATE 2. SILT TRAPS AROUND DRAINAGE INLETS WILL BE MAINTAINED, MODIFIED AS

NECESSARY, AND REMOVED WHEN APPROPRIATE.

3. ALL AREAS NOT RECEIVING PAVEMENT OR BUILDINGS SHALL HAVE FOUR INCHES (4") OF TOPSOIL SPREAD OVER THE AREA AND GRASSED, OR HAVE LANDSCAPING, MULCHING AND/OR SOD INSTALLED PER THE PLANS.

4. CONTRACTOR MAY TEMPORARILY COVER SOME AREAS WITH 21/2 " THICK GRADED AGGREGATE IN LIEU OF GRASSING FOR TEMPORARY EROSION CONTROL.

#### E. LANDSCAPING / SEEDING

REFER TO LANDSCAPING PLAN FOR ACTUAL REQUIREMENTS FOR THE INSTALLATION OF LIME, FERTILIZER, SEED, AND MULCH. GRASSING OPERATIONS SHALL BE COMPLETED THROUGHOUT CONSTRUCTION PROCESS AT THOSE TIMES WHEN PORTIONS OF THE SITE ARE FINISHED AND READY FOR PERMANENT GROUND COVER. THIS WILL REQUIRE MULTIPLE EFFORTS BY THE GRASSING SUBCONTRACTOR TO STABILIZE ALL IMPACTED AREAS OF THE SITE IN AN ORDERLY FASHION. NO AREA OF THE SITE THAT RECEIVES FINAL GRADE SHALL BE LEFT FOR MORE THAN SEVEN (7) DAYS WITHOUT THE APPLICATION OF SEED AND MULCH.

INSPECTION AND MAINTENANCE INSTRUCTIONS: THE FOLLOWING WILL APPLY TO MAINTAINING EROSION AND SEDIMENT CONTROL

1. ALL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSPECTED REGULARLY TO ENSURE THEY ARE EFFECTIVE IN THE EVENT OF RAINFALL. MEASURES SHALL BE INSPECTED ONCE A WEEK (MINIMUM) AND WITHIN TWENTY-FOUR (24) HOURS AFTER EACH RAINFALL EVENT. ANY DAMAGED OR NONFUNCTIONAL FACILITY SHALL BE REPAIRED OR REPLACED IMMEDIATELY. WEEKLY INSPECTION REPORTS SHALL BE KEPT ON FILE IN THE CONSTRUCTION TRAILER.

SEDIMENT TRAPS SHALL BE CHECKED REGULARLY FOR SEDIMENT CLEANOUT. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF (1/2) THE DESIGN VOLUME OF THE WET STORAGE. SEDIMENT REMOVED FROM THE TRAP SHALL BE DEPOSITED IN SUITABLE AREAS AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE CONTINUED SEDIMENTATION PROBLEMS

3. GRAVEL OUTLETS AND CHECK DAMS SHALL BE INSPECTED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE GRAVEL IS OBSTRUCTED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED OR REPLACED. 4. SILT FENCE BARRIERS SHALL BE CHECKED REGULARLY FOR UNDERMINING OR

DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES ONE-THIRD THE HEIGHT OF THE BARRIER. 5. SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RE-SEEDED AS NECESSARY.

6. IF ANY FACILITY IS DAMAGED DURING MAINTENANCE, OR OTHERWISE, THE DAMAGED PORTION SHALL BE REMOVED AND REPLACED ACCORDING TO THE ASSOCIATED 7. IF SILT HAS OBSTRUCTED THE SEDIMENT CONTROL FACILITY TO THE POINT OF

ELIMINATING ALL FILTERING EFFECTIVENESS, THE STRUCTURE SHALL BE REMOVED AND REPLACED WITH A NEW STRUCTURE IN ACCORDANCE WITH THE ASSOCIATED

8. CONSTRUCTION STAGING AREA SHALL HAVE ADDITIONAL STONE ADDED AS MUD COVERS STONE. UNDER WET SOIL CONDITIONS, TIRES SHALL BE WASHED PRIOR TO ENTERING A PAVED ROADWAY

CONTRACTOR SHALL INSPECT OVERALL PERFORMANCE OF EROSION AND SEDIMENT CONTROL FACILITIES AND AREAS DOWNSTREAM. IF SILT IS APPARENT DOWNSTREAM FROM STRUCTURES, SOME FAILURE HAS OCCURRED. IF SEDIMENT IS OBSERVED DOWNSTREAM, NOTIFY THE CIVIL ENGINEER. THE CIVIL ENGINEER WILL INSPECT THE CONDITION AND AFTER INSPECTION, DIRECT THE REMOVAL OF ACCUMULATED SEDIMENT DOWNSTREAM AND ADD ADDITIONAL STRUCTURAL MEASURES AS NECESSARY. CONTRACTOR SHALL IMPLEMENT RECOMMENDED SOLUTIONS TO PROBLEM AREAS AS RECOMMENDED.

#### III. COMPLETION

PROJECT CLOSE OUT: THE FOLLOWING SHALL BE DONE AT THE END OF THE PROJECT

> 1. INSPECT SITE TO ENSURE THAT GROUND COVER IS COMPLETE AND ADEQUATE. ALL AREAS SHOULD BE EITHER PAVED OR HAVE SUFFICIENT GROUND COVER (MINIMUM 80% VEGETATIVE COVER) WITH NO APPARENT EROSION.

> 2. WHEN GROUND COVER INSPECTION IS MADE AND APPROVED, ALL STRUCTURAL EROSION CONTROL FACILITIES MAY BE REMOVED ALONG WITH ANY ACCUMULATED SILT AND DEBRIS. AREAS DISTURBED BY STRUCTURE REMOVAL SHALL BE FINE GRADED, GRASSED, AND MULCHED AS REQUIRED.

3. IF GROUND COVER INSPECTION IS MADE AND PROBLEMS DISCOVERED, PERFORM APPROPRIATE REPAIR MEASURES AND RE-INSPECT PRIOR TO STRUCTURE REMOVAL. 4. ALL CONSTRUCTED AND EXISTING STORM SEWERS SHALL BE INSPECTED UPON REMOVAL OF INLET PROTECTION. STRUCTURES CONTAINING SEDIMENT AND / OR CONSTRUCTION DEBRIS SHALL BE VACUUM CLEANED PRIOR TO FILING NOTICE OF TERMINATION WITH ENVIRONMENTAL PROTECTION AGENCY.

MISCELLANEOUS ISSUES

1. NO FUEL OR OIL SHALL BE STORED ON SITE WITHOUT PROPER CONTAINMENT.

2. NO OILS OR GAS SHALL BE DUMPED ON SITE 3. LOCATION OF TRAILER AND PORTABLE RESTROOM FACILITY SHALL BE FIELD-DETERMINED TO AVOID CONSTRUCTION ACTIVITIES. LOCATION SHALL CHANGE

DURING CONSTRUCTION AS NECESSARY. 4. DE-WATERING OPERATIONS ARE NOT REQUIRED ON THIS PROJECT. IF REQUIRED, PUMPED GROUND WATER SHALL BE ROUTED THROUGH SILT CONTROL FACILITY TO

FILTER WATER PRIOR TO DISCHARGE. 5. PROJECT SITE SHALL BE KEPT CLEAR OF ALL TRASH AND CONSTRUCTION DEBRIS. CONTRACTOR SHALL HAVE TRASH COLLECTED WEEKLY AND PLACED IN DUMPSTER

TO BE HAULED OFF-SITE. 6. ALL WATER SUPPLY WILL BE PROVIDED FROM PUBLIC WATER SUPPLY. 7. ALL HUMAN WASTE SHALL BE IN PORTABLE RESTROOM FACILITY OR IN TOILET CONNECTED TO PUBLIC SEWER SYSTEM. WASTES SHALL BE DISPOSED OF BY A

LICENSED VENDOR OR IN A PUBLIC SANITARY SEWER SYSTEM. 8. ANY SPILLED OIL, GAS, ETC. RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE CONTAINED AND CLEANED IMMEDIATELY. CONTAMINATED SOILS SHALL BE

DISPOSED OF IN AN APPROVED MANNER AT A LICENSED LANDFILL 9. DUST SUPPRESSION OPERATIONS SHALL BE PERFORMED BY MEANS OF A WATER

TRUCK DISTRIBUTING A FINE MIST OF WATER ON THE SITE SURFACE. CONCENTRATED STREAMS OF WATER SPRAY SHOULD BE AVOIDED. 10. A DESIGNATED CONCRETE SPOILS AREA SHALL BE IDENTIFIED ON THE SITE. ALL

AFFECTED SOILS AND CONCRETE SPOILS IN THIS AREA SHALL BE REMOVED FROM THE SITE UPON COMPLETION OF CONCRETE PLACEMENT ACTIVITIES.

11. ANY NON-STORM DISCHARGES SUCH AS, BUT NOT LIMITED TO, FIRE HYDRANT FLUSHINGS, WASH WATERS, DUST CONTROL, IRRIGATION DRAINAGE, ETC., THAT DO NOT CONTAIN HAZARDOUS MATERIALS SHALL BE PREVENTED FROM ALLOWING SEDIMENT TRANSPORT INTO STORM SEWERS. FLUSHINGS THAT CONTAIN HAZARDOUS MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWERS AND SHALL BE COLLECTED AND DISPOSED OF IN AN APPROVED MANNER.

SOIL EROSION CONTROL NOTES ALL EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL STANDARDS. AN EPA EQUIVALENT NOTICE OF INTENT LETTER SHALL BE POSTED IN

MEASURES, THE CIVIL ENGINEER OF RECORD MUST BE CONTACTED. A COPY OF THIS SHEET AND THE EROSION CONTROL PLAN MUST BE KEPT ON-SITE THROUGH THE DURATION OF CONSTRUCTION ACTIVITY. ANY CHANGES MADE TO THIS PLAN MUST BE NOTED. DATED, AND INITIALED BY THE GENERAL CONTRACTOR.

THE JOB TRAILER AT ALL TIMES. THIS SITE SHALL BE PROTECTED BY MEANS DESCRIBED IN THE

ACCOMPANYING PLANS. IF THERE ARE ANY QUESTIONS REGARDING EROSION CONTROL

#### . GENERAL

FRONT VIEW

ONGITUDINAL-SECTION

DANDY BAG

FOR CATCH BASINS

5'-0" MIN TO 8'-0" MAX

**METHOD** 

TRENCHING

METHOD

HE INTENT OF THIS PLAN IS TO CONTROL EROSION AND RESULTING SILT TRANSPORTATION OFF RITE. THE ITEMS INDICATED ARE THE ENGINEER'S BEST ESTIMATE OF REQUIREMENTS; MORE CONTROL MAY BE NEEDED DEPENDING ON SITE CONDITIONS, SEASON, ETC. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY TO COMPLY WITH THIS INTENT. ALL CHANGES TO THE SWPPP MUST BE NOTED.

BEST MANAGEMENT PRACTICES PLAN, WITH ALL SEDIMENT AND EROSION CONTROL PLANS. SHALL BE KEPT ON-SITE WITH COPIES OF ALL INSPECTION REPORTS.

EXISTING TOPOGRAPHY AND PROPOSED TOPOGRAPHY ARE SHOWN ON THE GRADING

SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO ANY LAND DISTURBING ACTIVITY TAKING PLACE.

OTHER FEDERAL, LOCAL, OR STATE STATUTES OR REQUIREMENTS THAT MAY AFFECT THE PERMIT REQUIREMENTS FOR THIS SITE:

1. NPDES CONSTRUCTION STORM WATER MANAGEMENT DISCHARGE CRITERION 2. UNITED STATES ARMY CORPS OF ENGINEERS

3. LOCAL SEDIMENT CONTROL ORDINANCES 4. HAZARDOUS WASTE CONCERNS

5. PROTECTED SPECIES, HISTORICAL PRESERVATION, ETC

MATERIAL NEEDS AFFECTING ENVIRONMENTAL ASPECTS OF THE SITE

2. TOPSOIL SPOIL OR HAUL-IN

1. HAUL-IN / HAUL-OFF

PLANNED PHASES OF CONSTRUCTION.

1. FLAG ALL WORK LIMITS.

2. CALL THE STATE UTILITY PROTECTION SERVICE TO VERIFY LOCATION OF ANY EXISTING UTILITIES TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION. 3. NOTIFY SEDIMENT CONTROL INSPECTOR TWENTY-FOUR (24) HOURS PRIOR TO START OF CONSTRUCTION.

4. IDENTIFY AND PROTECT ALL EXISTING VEGETATION TO REMAIN. 5. PERFORM CLEARING AND GRADING REQUIRED FOR INSTALLATION OF PERIMETER

CONTROLS. 6. INSTALL PERIMETER RUNOFF CONTROLS; NOTIFY SEDIMENT CONTROL INSPECTOR AND OBTAIN APPROVAL BEFORE PROCEEDING FURTHER.

7. INSTALL STORM DRAINAGE PROTECTION. 8. CLEAR AND STABILIZE CONSTRUCTION ACCESS

9. COMPLETE ALL REQUIRED STOCKPILING, SITE CLEARING, AND GRADING. 10. APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK MAY BE DELAYED OR IS COMPLETE. DO NOT LEAVE LARGE AREAS UNPROTECTED FOR MORE THAN SEVEN (7) DAYS.

11. CONSTRUCT PARKING LOT BASE, BUILDING FOUNDATION, AND INSTALL SITE UTILITIES.

12. WEATHER-IN BUILDING.

13. COMPLETE PARKING LOT CONSTRUCTION.

14. COMPLETE FINAL GRADING, STABILIZATION, AND LANDSCAPING. 15. NOTIFY SEDIMENT CONTROL INSPECTOR AND OBTAIN APPROVAL TO REMOVE SEDIMENT AND EROSION CONTROL MEASURES.

#### IMPLEMENTATION

PLANNED CONSTRUCTION PHASING AND SPECIFIC REQUIRED SEDIMENT AND EROSION CONTROL MEASURES.

PHASE 1: TOPSOIL STRIPPING AND STOCKPILING - THIS IS THE PHASE AFTER ALL DEBRIS REMOVAL. TOPSOIL WILL BE STRIPPED AND STOCKPILED ON THE SITE AS SHOWN ON THE PLANS. THE FOLLOWING REQUIREMENTS WILL APPLY DURING THIS PHASE OF

1. CONSTRUCTION OF A "STONE" CONSTRUCTION ENTRANCE SHALL BE COMPLETED TO G. MAINTAINING EFFECTIVENESS: PREVENT SILT FROM BEING DEPOSITED ON ROADWAYS. 2. SILT FENCES AND/OR DIVERSIONS DIRECTING RUNOFF TO TEMPORARY SEDIMENT

BASINS SHALL BE PLACED ON THE DOWNHILL SIDE OF WHEREVER DIRT HAS BEEN DISTURBED BY GRADING TO PREVENT SILT FROM LEAVING THE SITE. SPECIFIC ATTENTION SHOULD BE PAID TO CULVERTS AND CONSTRUCTION ENTRANCES. 3. ALL DEBRIS SHALL BE KEPT AWAY FROM DITCHES AND STREAMS TO PREVENT

RUN-OFF ACCUMULATION WILL NOT CARRY DEBRIS DOWNSTREAM. 4. SILT FENCES OR DOUBLE SILT FENCES SHALL BE INSTALLED ALONG THE LOW SIDE OF THE SITE WHERE RUN-OFF FROM THE WORK AREA WILL LEAVE THE SITE OR ENTER A DITCH

5. SILT TRAPS AND SEDIMENT BASINS SHALL BE INSTALLED WHERE SHOWN ON THE PLANS IN ACCORDANCE WITH DETAILS SHOWN TO CATCH AND FILTER RUN-OFF PRIOR TO DISCHARGE FROM THE SITE.

6. ADDITIONAL SILT FENCING AROUND THE STOCKPILE AREA SHOULD BE INSTALLED TO A. PREVENT SILT WASH OFF FROM THE SITE.

PHASE 2: GRADING OPERATIONS - THIS PHASE IS THAT TIME WHEN EARTH IS BEING MOVED FROM ONE PORTION OF THE SITE TO ANOTHER OR IS BEING HAULED INTO OR HAULED OFF FROM THE SITE. THIS IS A CRITICAL TIME WHEN SEDIMENT AND EROSION CONTROL FACILITIES MUST BE CONTINUALLY CHECKED TO ENSURE EFFECTIVENESS. MEASURES SHOULD BE CHANGED OUT AS OFTEN AS REQUIRED TO MEET DEMANDS OF CURRENT SITE CONDITIONS. THE FOLLOWING WILL APPLY TO THIS STAGE OF CONSTRUCTION:

1. ALL SEDIMENT CONTROL FACILITIES REQUIRED AND INSTALLED DURING PHASE 1 SHALL BE LEFT IN PLACE AND MAINTAINED AS APPROPRIATE. 2. WHENEVER A SILT CONTROL FACILITY IS REMOVED BECAUSE OF CHANGING SITE CONDITIONS IT SHALL BE IMMEDIATELY REPLACED WITH ANOTHER MEASURE OF EQUAL OR GREATER EFFECTIVENESS THAT WILL CONTRIBUTE TO THE PROGRAM OF SILT AND EROSION CONTROL

3. CUT SLOPES SHALL BE PROTECTED BY CONSTRUCTING SWALES AT THE TOP OF CUT SLOPES TO INTERCEPT RUN-OFF. SWALES WILL BE CONSTRUCTED WITH RIP-RAP CHECK DAMS OR SILT FENCES AS NECESSARY TO PREVENT EROSION AND SILTATION.

4. FILL SLOPES SHALL BE PROTECTED BY THE CONSTRUCTION OF BERMS AT THE TOP OF ALL FILL SLOPES TO PREVENT UNCONTROLLED RUN-OFF DRAINING DOWN FACE OF SLOPES.

5. WHEN SHOWN ON PLAN, RUN-OFF DIRECTING BERMS FOR UPGRADE RUN-OFF SHALL BE CONSTRUCTED ALONG SLOPE TO DRAINS THAT WILL CARRY RUN-OFF DOWN THE SLOPE. SLOPE DRAINS SHALL HAVE INLET SILT PROTECTION TYPICAL OF OTHER SITE STORM INLET PROTECTION. 6. SILT FENCES SHALL BE IN PLACE AT THE TOE OF ALL FILL SLOPES.

7. TERRACES, BERMS, AND SWALES SHALL BE CONSTRUCTED AT INTERMEDIATE LOCATIONS THROUGHOUT THE SITE AS NECESSARY TO CONTROL EROSION AND SEDIMENT TRANSPORT. THESE DIVERSION FACILITIES SHALL BE SUPPLEMENTED AS APPROPRIATE WITH SILT FENCES AND RIP-RAP FILTER BERMS TO FILTER ACCUMULATED SEDIMENT FROM RUN-OFF PRIOR TO DISCHARGE FROM THE SITE 8. SLOPES (CUT AND FILL) THAT ARE CONSTRUCTED IN THE FINAL CONFIGURATION

SHALL BE COVERED WITH FOUR INCHES (4") OF TOPSOIL AND GRASSED AND MULCHED AS SOON AS GRADING IS COMPLETED. THIS GROWING VEGETATION WILL GIVE ADDED PROTECTION TO THE SLOPE. 9. PORTIONS OF THE SITE THAT ARE GRADED TO FINAL GRADE AND ARE NOT TO

RECEIVE PAVEMENT OR BUILDINGS SHOULD HAVE FOUR INCHES (4") OF TOPSOIL SPREAD OVER THE SURFACE AND GRASSED AS SOON AS POSSIBLE IN CONSTRUCTION PROCESS. THIS PHASE OF CONSTRUCTION IS CRITICAL IN THE EROSION AND SEDIMENT CONTROL PROCESS.

10. STORM SEWERS SHOULD BE INSTALLED AS SOON AS POSSIBLE IN THE CONSTRUCTION PROCESS AND CONCURRENT TO GRADING OPERATIONS WHENEVER POSSIBLE TO ENSURE A SUCCESSFUL PROGRAM. CONSTRUCTION RUN-OFF SHALL BE DIRECTED TO STORM SEWER SYSTEM AS SOON AS POSSIBLE.

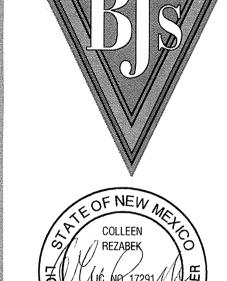
PHASE 3: STORM DRAINAGE AND UTILITY INSTALLATION PLAN - THIS PHASE WILL BE COMPLETED AFTER OR CONCURRENT WITH THE GRADING PHASE, PHASE 2. STORM AS POSSIBLE. THE FOLLOWING WILL APPLY TO THIS PHASE OF CONSTRUCTION: 1. ALL ASPECTS OF THE PREVIOUS PHASES SHALL BE MAINTAINED AS APPLICABLE.

19100 VON KARMAN AVE SUITE 600 **IRVINE, CA 92612** 

949.753.7676 T



7 PROTOTYPE STATE OF



PROJECT NO. BJSBJ0211

**REVISIONS** 

REAFFIRMATION OF LINE LOCATION REQUIRED EVERY TEN (10) DAYS DURING EXCAVATION. New Mexico One Call System, Inc. www.nmonecall.org 1-800-321-ALERT

## Vo . i a . i - MOUNTABLE SECTION **New Mexico CALL BEFORE YOU DIG!** NEW MEXICO LAW REQUIRES EXCAVATORS TO PROVIDE ADVANCE NOTICE TO THE ONE CALL-NOTIFICATION SYSTEM PRIOR TO EXCAVATION.

### NOTES

**ADJACENT** 

NOTES

—MANHOLE FOR PAVED AREAS

LANDSCAPE AREA ONLY

FLOW ---

SINGLE CLEANOUT-

NDICATED "C.O." ON PLANS

3. ZURN Z-1400 HD CLEANOUTS IN TRAFFIC AREAS WITH A "SERVICE STATION" TYPE MANHOLE,

50'-0" MINIMUM

STABILIZED CONSTRUCTION ENTRANCE

31/2" DIAMETER COARSE ROC

FILTER CLOTH ENCASING

ENTIRE STABILIZED ROCK

ENTRANCE SIDES AND BOTTOM -

A. CLEANOUT LOCATIONS INDICATED ON GRADING AND UTILITY PLANS AS "CO" FOR SINGLE

1. ZURN Z-1400 CLEANOUTS IN NON-TRAFFIC AREAS AND SIDEWALKS

DUBLE CLEANOUT - INDICATED "D.C.O." ON PLANS

INSTALL FLUSH WITH GRADE IN

3 REBAR EACH WAY -

' X 2' CONCRETE COLLAR

4" THICKNESS MINIMUM) --

ASPHALT OR CONCRETE

CLEANOUT PLUG. 3"

BELOW PAVING OR 1"

LANDSCAPE GRADE -

LONG SWEEP WYE -

TRENCH BACKFILL PER

CLEANOUT AND "DCO" FOR DOUBLE CLEAN OUT.

2. ZURN-1449 CLEANOUTS IN LANDSCAPED AREAS

OPW #104 A12 - DOVER CORP. ∕OPW DIV.

B. PROVIDE CLEANOUTS AS SPECIFIED

PIPE CLEANOUT

SCALE: 3/4"=1'-0"

DETAIL THIS SHEET -

**ABOVE FINAL** 

PAVING SEE GRADING PLAN ---

AROUND

GRATE

TO BE ROUNDED

TO 1/4" RADII. —

-CONSTRUCTION

JOINT -

STEP (TYP) ---

CONSTRUCTION

**PLAN** 

**BASIN SIZING** 

**CONCRETE TABLE** 

FINE COARSE TOTAL (LB/C.Y.)

A. GRATE: NEENAH NO. R-4859-C OR EAST JORDAN NO. 5110 TYPE M3 OR APPROVED EQUAL

SHIPPING AND HANDLING WITHOUT DAMAGE. PRECAST TOPS SHALL BE 8" THICK.

C. <u>STEPS</u>: STEPS SHALL BE PROVIDED WHERE THE DEPTH OF THE STRUCTURE EXCEEDS 6

D. CONCRETE: CAST-IN-PLACE CONCRETE TO MEET THE COMPOSITION SPECIFIED IN THE

E. INLETS OVER 12' IN DEPTH SHALL BE PRECAST OR CAST-IN-PLACE CONCRETE; REINFORCED

F. PRECAST BASE: IF A PRECAST BASE IS USED, IT SHALL BE SET DEEP ENOUGH SO THAT THE

WITH #4 BARS ON 12" CENTERS BOTH VERTICALLY AND HORIZONTALLY WITH 2" CLEARANCE

TOP CAN BE PLACED ON THE BASE TO PROVIDE THE GRATE ELEVATION SPECIFIED IN THE

PLANS. PRECAST GRADE RINGS MAY BE USED TO ADJUST THE TOP ELEVATION. \*\*OR\*\* A

G. LOCATION AND ELEVATION: WHEN GIVEN ON THE PLANS, THE LOCATION AND THE ELEVATION

OPENINGS: PIPE OPENINGS SHALL BE THE O.D. OF THE PIPE BEING SUPPLIED PLUS 2" WHEN PREFABRICATED OR FIELD CUT. THE INTERSTITIAL SPACE SHALL BE FILLED WITH GROUT.

MINIMUM OF TWO COURSES OF BRICK SHALL BE USED TO ADJUST THE TOP ELEVATION.

H. MINIMUM DEPTH: THE MINIMUM DEPTH SHALL BE THE OUTSIDE DIAMETER (O.D.) OF THE

B. WALLS: CAST-IN-PLACE WALLS SHALL HAVE A NOMINAL THICKNESS OF 8". PRECAST WALLS

SHALL HAVE A MINIMUM THICKNESS OF 6" AND BE REINFORCED SUFFICIENTLY TO PERMIT

CONCRETE TABLE. ALL PRECAST CONCRETE SHALL MEET THE REQUIREMENTS OF ASTM C478.

2895

DIMENSION

1160

**AGGREGAT** 

FROM INSIDE WALL FACE.

SCALE: 3/8"=1'-0"

ARE AT THE TOP CENTER OF THE GRATE.

**SQUARE CATCH BASIN** 

NOTES

4'-0" x 4'-0" | 36" TO 42"

DRY AGGREGATES (LB/C.Y.)

1735

1285 1630 2915

SLAG 1350 1360 2710

REINFORCING

AT 6" O C

(8) #4 BARS

(12) #4 BARS

CEMENT

600

CONTENT | CEMENT RATIO

**SECTION B** 

EDGES TO BE

- REINFORCING

ROUNDED TO X4"

JOINT---

OPTIONAL PRECAST

BASIN SIZING

**SECTION A** 

A. STONE SIZE - USE #2 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT

WOVEN POLYPROPYLENE, POLYTHYLENE, OR POLYAMIDE FABRIC OR

SQUARE INCH AND ULTRAVIOLET STABILITY EXCEEDING 70%. FILL

OR SUITABLE OPEN GRADED, NON-COHESIVE, POROUS GRAVEL.

32.0" MIN

VELCRO CLOSURE -

FLAP FOLDS OVER TO

ENCLOSE GRATE -

MOVEMENT OF UNIT -

STANDARD FABRIC

ORANGE WOVEN

MONOFILAMENT-

DANDY BAG -

INSTALLATION: THE DANDY PRODUCT SHOULD BE PLACED OVER THE GRATE AS THE GRATE

STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW ON POUCH,

ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER

LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE

GPATE), PLACE THE GRATE INTO ITS FRAME. FOLLOW ALL MANUFACTURES RECOMMENDATIONS

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND

ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED

WITHIN THE CONTAINMENT AREA OF THE BEAVER DAM AS NEEDED. IF USING OPTIONAL OIL

LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE

CATCH BASIN -

LIFTING STRAPS

ALLOW EASY

**GRAVEL BAG BARRIER** 

**BEAVER DAM FOR** 

**CURB INLETS** 

SCALE: NONE

\*LOW PROFILE WITH GUTTER

FOR SAFETY AND CURB APPEAL

ALL SHAPES OF CONCRETE CURBS

ONLY APPROVED EQUALS WILL BE ACCEPTED.

**INLET PROTECTION** 

2'-0" MIN HEIGHT OF FABRIC ABOVE

WIRE TYPICAL OF EACH METHOD —

WHEN SLICING METHOD IS USED.

8" MIN DEPTH OF FABRIC BELOW GRADE

48" MIN. FENCE POSTS, DRIVEN MINIMUM 24"

COMPACTING BACKFILL IF TRENCHING METHOD

IS USED. POST INSTALLED AFTER COMPACTION

FRENCHING METHOD: FABRIC MATERIAL TO BE

PLACED IN 6"x6" TRENCH WITH "L" SHAPED DOGLEG

BEFORE BACKFILLING AND COMPACTING THE SOIL -

FILTER CLOTH: FILTER X, MIRAFI 100X, OR APPROVED EQUAL

PREFAB UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

D. LOCATE POSTS DOWN SLOPE OF FABRIC FOR FENCE SUPPORT.

STEEL EITHER "T" OR "U" TYPE OR 4" HARDWOOD

WOVEN WIRE, 14 1/2 GA. 6" MAX. MESH OPENING

A. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS W/ WIRE TIES OR STAPLES.

WHEN TWO SECTIONS OF FABRIC ADJOIN EACH OTHER THEY SHALL OVERLAP BY (6) INCHES.

. MAINTENANCE SHALL BE PERFORMED AFTER EACH RAINFALL AND AS NEEDED, SEDIMENT TO

B. FABRIC FASTENED SECURELY TO FENCE W/ TIES SPACED AT 24" AT TOP AND MID SECTION.

INTO GROUND. INSTALL POST BEFORE

WHEN SLICING METHOD IS USED. \_\_\_\_

SPECIFICATIONS

SILT FENCE

SCALE: 3/8"=1'-0"

GRADE FASTENED TO POST AND

MANUFACTURER: DANDY PRODUCTS (CONTACT#: 800-591-2284).

\*\*DESIGN CONFORMS TO

SCALE: NONE

URB AND

**SUTTER INLET** 

BURLAP BAGS WITH A MINIMUM WEIGHT OF 4 OUNCES PER SQUARE YARD.

BAGS SHOULD HAVE A MULLEN BURST STRENGTH OF 300 POUNDS PER

MATERIAL SHOULD BE 0.5" TO 1" CLASS 2 AGGREGATE BASE, CLEAN AND

FREE FROM CLAY, ORGANIC MATTER, AND OTHER DELETERIOUS MATERIAL

B. <u>LENGTH</u> - AS REQUIRED, BUT NOT LESS THAN 50 FEET

BE REMOVED WHEN "BULGES" DEVELOP.

C. <u>DEPTH</u> - NOT LESS THAN SIX (6) INCHES WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS

FILTER CLOTH - PLACE OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE

SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED

G. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

H. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. USE WATERING TRUCK OR ONSITE SUPPLY AS AVAILABLE.

# I. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN